

Curriculum Vitae
Brett Michael Harnett, MS-IS
Cincinnati, OH

Current Roles[Harnett Online LLC](#)

Owner/Consultant
UC Emeritus Faculty

The mission of Harnett Online is to empower healthcare and research organizations with innovative clinical informatics solutions that enhance discoveries, improve data compliance, and boost operational efficiency. Harnett Online bridges the gap between data, technology, and research, providing customized strategies to advance clinical research innovations.

My experience involves leveraging electronic health records at academic institutions through informatics departments, aligning with clinical trials offices, and privacy boards for patient recruitment and outcomes analysis using Real World Evidence. Additional services include protocol review, data management, and compliance assessments.

[University of Cincinnati 1819 Innovation Hub](#)

Venture Advisor 2025/26

[First Tee - Greater Cincinnati & Northern Kentucky](#)

Volunteer/Coach 2025/26

“At First Tee, we’re Building Game Changers by empowering kids and teens through golf.”

Employment History[University of Cincinnati](#); Cincinnati, OH

Director, [Center for Health Informatics](#)

Assistant Professor – Field Service, Dept of [Biostatistics, Health Informatics, Data Science](#)

Adjunct Faculty, [Cincinnati Children’s Hospital and Medical Center](#)

Cincinnati [Veterans Administration](#) Medical Center, Research Affiliate

March 2004 – August 2024

[NASA Medical Informatics and Technology Applications Consortium](#); Richmond, VA

Hosted at Virginia Commonwealth University/Medical College of Virginia

Director, Experimental Information Technology/Faculty Research Assistant

July 1999 - March 2004

[Yale University School of Medicine](#); New Haven, CT

Telemedicine Systems Manager/Systems Programmer II

January 1997 - June 1999

[Harnett Consulting](#); East Hartford, CT

Marketing technology consultant/developer

January 1996 - December 1996

[Jonathan Wisconsin](#); Marlborough, CT

Director of multimedia Services/System Administrator

April 1992 - December 1995

[Infield Publishing](#); Ellington, CT

Consultant/owner

May 1989 - April 1992

Education

University of Cincinnati College of Business; Cincinnati, OH

[Master of Science: Information Systems](#)

September 2004 - June 2007

Eastern Connecticut State University; Willimantic, CT

[Bachelor of Science: Business Administration](#)

September 1982 - May 1984

Manchester Community College; Manchester, CT

September 1980 - May 1982

Nathaniel Hawthorne College; Antrim, NH

September 1978 - May 1980

Dale Carnegie graduate

September 1985 - January 1986

Organizations

Healthcare Information and Management Systems Society ([HIMSS](#))

External Peer Review

National Institutes of Health (NIH), Scientific Review Board: Risk, Prevention and Health Behaviors

Integrated Review Group (IRG), Washington DC

Telemedicine and e-Health (also Editorial Board Member)

Journal of Clinical and Translational Science

JAMIA Open (American Medical Informatics Association)

The American Journal of Managed Care

Medical and Biological Engineering and Computing

Published Peer Reviewed Manuscripts

Lape M, Schnell D, Parameswaran S, Ernst K, O'Connor S, Salomonis N, Martin LJ, **Harnett BM**, Kottyan LC, Weirauch MT. A survey of pathogenic involvement in non-communicable human diseases. *Commun Med (Lond)*. 2025 Jun 20;5(1):242. doi: 10.1038/s43856-025-00956-x. PMID: 40542146; PMCID: PMC12181406.

Bakas T, Miller E, Sucharew H, Kreitzer N, Israel J, Rota M, **Harnett B**, Dunning K, Jones H, McCarthy M, Brehm B, Austin JK, Mitchell PH. Examining the Efficacy of the Telehealth Assessment and Skill-Building Kit (TASK III) Intervention for Stroke Caregivers: Protocol for a Randomized Controlled Clinical Trial. *JMIR Res Protoc*. 2025 Mar 25;14:e67219. doi: 10.2196/67219. PMID: 39937971; PMCID: PMC11979539.

Becker RC, **Harnett B**, Wayne D, Mardis R, Meganathan K, Steen DL. PATCH (Preferred Attachment Strategy for Optimal Electrocardiograms)-1 Study. *Clin Res Cardiol*. 2025 Apr;114(4):497-506. doi: 10.1007/s00392-024-02572-6. Epub 2024 Nov 11. PMID: 39527276.

Eckman MH, Wise R, Knochelmann C, Mardis R, Leonard AC, Wright S, Gummadi A, Dixon E, Becker RC, Schauer DP, Flaherty ML, Costea A, Kleindorfer D, Ireton R, Baker P, **Harnett BM**, Adejare A, Sucharew H, Arduser L, Kues J. Can a best practice advisory improve anticoagulation prescribing to reduce stroke risk in patients with atrial fibrillation? *J Cardiol*. 2023 Aug 12:S0914-5087(23)00191-0. doi: 10.1016/j.jjcc.2023.08.005. Epub ahead of print. PMID: 37579873.

Wu DTY, Bindhu S, Vu H, Mu S, Xu C, Pandey S, **Harnett B**, Lee JJ. Using Health Forum Data to Assess User Needs for mHealth App Development: A Feasibility Study on Alzheimer's Disease. *AMIA Jt Summits Transl Sci Proc*. 2023 Jun 16;2023:562-571. PMID: 37350890; PMCID: PMC10283144.

Eckman ME, Wise R, Knochelmann C, Mardis R, Leonard AC, Wright S, Gummadi A, Dixon E, Becker RC, Schauer DP, Flaherty ML, Costea A, Kleindorfer D, Ireton R, Baker P, **Harnett BM**, Adejare A, Sucharew H, Arduser L, Kues J. Can a best practice advisory improve anticoagulation prescribing to reduce stroke risk in patients with atrial fibrillation? *Journal of Cardiology*, 2023, ISSN 0914-5087, <https://doi.org/10.1016/j.jcc.2023.08.005>.

Wu DTY, Zhou F, Su WC, Vu H, Sahu P, **Harnett B**, Chiu TP, Vogel C, Lee JJ. *A User-Centered Evaluation of a COVID-19 Intelligent Query System (COVID-IQS)*. *Stud Health Technol Inform*. 2022 Jun 6;290:824-828. doi:10.3233/SHTI220194. PMID: 35673133.

Pfaff ER, Girvin AT, Gabriel DL, Kostka K, Morris M, Palchuk MB, Lehmann HP, Amor B, Bissell M, Bradwell KR, Gold S, Hong SS, Loomba J, Manna A, McMurry JA, Niehaus E, Qureshi N, Walden A, Zhang XT, Zhu RL, Moffitt RA, Haendel MA, Chute CG; N3C Consortium; Adams WG, Al-Shukri S, Anzalone A, Baghal A, Bennett TD, Bernstam EV, Bernstam EV, Bissell MM, Bush B, Champion TR, Castro V, Chang J, Chaudhari DD, Chen W, Chu S, Cimino JJ, Crandall KA, Crooks M, Davies SJD, DiPalazzo J, Dorr D, Eckrich D, Eltinge SE, Fort DG, Golovko G, Gupta S, Haendel MA, Hajagos JG, Hanauer DA, **Harnett BM**, Horswell R, Huang N, Johnson SG, Kahn M, Khanipov K, Kieler C, Luzuriaga KR, Maidlow S, Martinez A, Mathew J, McClay JC, McMahan G, Melancon B, Meystre S, Miele L, Morizono H, Pablo R, Patel L, Phuong J, Popham DJ, Pulgarin C, Santos C, Sarkar IN, Sazo N, Setoguchi S, Soby S, Surampalli S, Suver C, Vangala UMR, Visweswaran S, Oehsen JV, Walters KM, Wiley L, Williams DA, Zai A. Synergies between centralized and federated approaches to data quality: a report from the national COVID cohort collaborative. *J Am Med Inform Assoc*. 2022 Mar 15;29(4):609-618. doi: 10.1093/jamia/ocab217. PMID: 34590684; PMCID: PMC8500110

Eckman M, Wise R, Leonard A, Baker P, Ireton R, **Harnett BM**, Dixon E, Awosika B, Ezigbo C, Flaherty M, Adejare A, Knochelmann C, Mardis R, Wright S, Gummadi A, Becker R, Schauer D, Costea A, Kleindorfer D, Sucharew H, Costanzo A, Anderson L, Kues J. Racial and sex differences in optimizing anticoagulation therapy for patients with atrial fibrillation. *Am Heart J Plus: Cardiology Research and Practice*; Volume 18, 2022, 100170, ISSN 2666-6022. <https://doi.org/10.1016/j.ahjo.2022.100170>.

Hanauer DA., Barnholtz-Sloan JS, Beno MF, Del Fiol G, Durbin EB, Gologorskaya O, **Harnett BM**, Kawamoto K, May B, Meeks E, Pfaff E, Weiss J, Zheng K. EMERSE: An Information Retrieval Tool for Supporting Cancer Research. *Journal of Clinical Oncology - Clinical Cancer Informatics 2020* PMCID: PMC7265780

Harnett BM, Schauer DP, Eckman MH, Baker P, Ireton R. Patient-Oriented Cohort System to Educate and Encourage Clinical Communications. *Ann Biom Biostat* 2019 doi: 10.33552/ABBA.2019.03.000563

Eckman MH, Costea A, Attari M, Munjal J, Wise RE, Knochelmann C, Flaherty ML, Baker P, Ireton R, **Harnett BM**, Leonard AC, Steen D, Rose, A, Kues J. Shared decision-making tool for thromboprophylaxis in atrial fibrillation – A feasibility study. *Am Heart J*. 2018 May; 199;13-21

Eckman MH, Lip GY, Wise RE, Speer B, Sullivan M, Walker N, Kissela B, Flaherty ML, Kleindorfer D, Baker P, Ireton R, Hoskins D, **Harnett BM**, Aguilar C, Leonard AC, Arduser L, Steen D, Costea A, Kues J. Impact of an Atrial Fibrillation Decision Support Tool on thromboprophylaxis for atrial fibrillation. *Am Heart J*. 2016 Jun; 176:17-27

Eckman MH, Lip GYH, Wise RE, Speer B, Sullivan M, Walker N, Kissela B, Flaherty ML, Kleindorfer D, Baker P, Ireton R Hoskins D, **Harnett BM**, Aguilar C, Leonard A, Arduser L, Steen D, Costea A, Kues J. (2016). Using an Atrial Fibrillation Decision Support Tool for Thromboprophylaxis in Atrial Fibrillation: Effect of Sex and Age. *Journal of the American Geriatrics Society*, 64 (5), 1054-60. doi:10.1111/jgs.14099

Eckman MH, Wise RE, Speer B, Sullivan M, Walker N, Lip GYH, Kissela B, Flaherty ML, Kleindorfer D, Khan F, Kues J, Baker P, Ireton R, Hoskins PD, **Harnett BM**, Aguilar C, Leonard A, Prakash R, Arduser L, Costea A; Integrating Real-Time Clinical Information to Provide Estimates of Net Clinical Benefit of Antithrombotic Therapy for Patients with Atrial Fibrillation. *Circ Cardiovasc Qual Outcomes*. 2014; 7:680-686.

Harnett B, Doarn C, Rosen J, Hannaford B, Broderick, T. Evaluation of Unmanned Airborne Vehicles and Mobile Robotic Telesurgery in an Extreme Environment. *Telemed J e Health* 2008; 14:539-544

Sterbis JR, Hanly RJ, Herman BC, Marohn MR, Broderick TJ, Shih SP, **Harnett B**, Doarn CR, Schenkman NS. Transcontinental Telesurgical Nephrectomy Using the da Vinci Robot in a Porcine Model. *Urology*; 2008; 71(2)

Harnett, BM. Telemedicine Systems and Telecommunications. *J of Telemedicine and Telecare*. 2006; 12(1):4-15

Harnett BM, Broderick T, Doarn CR, Rafiq A, Muth T, Merrell RC. Dynamic automated data collection for human performance. *J Information Technology in Healthcare*. 2004; 2(3):175-186

Harnett BM, Doarn CR, Zhao X and Merrell RC. Redundant Wireless Communication Technologies for Real-Time Surveillance: Elsevier's *Telematics and Informatics* 2004; 21(4):375-386

Zhao X, Fei DY, Doarn CR, **Harnett BM**, Merrell RC. Project Report: A telemedicine system for wireless home healthcare based on Bluetooth and the Internet. *Telemed J e Health* 2004; 10 (Supp 2):110-116

Fedyukin IV, Reviakin YG, Orlov OI, Doarn CR, **Harnett BM**, Merrell RC. Experience in the Application of Java Technologies in Telemedicine. *Journal of Applied Health Technology eHealth International* 2002; 1(1):3

Doarn CR, Fitzgerald S, Rodas E, **Harnett B**, Prabe-Egge A, Merrell RC. Telemedicine to Integrate Intermittent Surgical Services into Primary Care. *Telemed J and e-Health* 2002; 8(1):131-137

Harnett BM, Doarn CR, Russell KM, Kapoor V, Merriam NR, Merrell RC. Wireless Telemetry and Internet Technologies for Medical Management: A Martian Analogy. *Aviat Space and Environ Med*. 2001; 72(12):1125-1131

Harnett B, Angood P, Merriam N, Satava R, Doarn CR, Merrell RC. The Benefits of Integrating Internet Technology with Standard Communications for Telemedicine in Extreme Environments. *Aviat Space and Environ Med*. 2001; 72(12):1132-1137

Broderick TJ, **Harnett BM**, Doarn CR, Rodas EB, Merrell RC. Real Time Internet Connections: Implications for Surgical Decision Making in Laparoscopy. *Annals of Surg*. 2001; 243 (2):165-171

Broderick TJ, **Harnett BM**, Merriam NR, Kapoor V, Doarn CR, Merrell RC. Impact of Varying Transmission Bandwidth on Image Quality in Laparoscopic Telemedicine. *Telemed J and e-Health* 2001; 7(1):47-53

Satava RM, Angood PB, **Harnett BM**, and Merrell RC. The Physiologic Cipher at Altitude: Telemedicine and real-time monitoring of climbers on Mount Everest. *Telemed J*. 2000; 6(3):303-313

Rosser JC, Bell RL, **Harnett BM**, Rodas E, Murayama M, Merrell RC. Use of Mobile Low-Bandwidth Telemedical Techniques for Extreme Telemedicine Application. *American College of Surgeons J*. 1999; 189(4): 397-404

Textbooks

Harnett B. Contributing Author: From Phenotypes to Terabytes. *Informatics for the Curious: Why Study Health Informatics*. ISBN 978-1-925128-71-0. Edited by Jeffrey Soar and Kishor Vaidya; University of Southern Queensland, Australia. 2016. Online <http://amzn.to/1lzQBGP>

Harnett B. Contributing Author: Patient Centered Medicine and Technology Adaptation. [*E-Health. Assistive Technologies and Applications for Assisted Living: Challenges and Solutions*](#). ISBN13: 9781609604691, ISBN10: 1609604695, Rocker, C. (Ed) IGI Global. 2011. Hershey, PA. Pgs 1-22

Harnett B. Contributing Author: Creating Telehealth Networks from Existing Infrastructures. [*Establishing Telemedicine. Developing Countries: From Inception to Implementation*](#). R Latifi (Ed) IOS Press 2008. Amsterdam. Pgs. 55-65

Harnett B. Contributing Author: [*Telemedicine Systems and Telecommunications*](#). ISBN: 1-85315-677-9, Wootton, R. (Ed) Publisher: Royal Society of Medicine Press 2007, London, England. Chapter 2, Pgs. 15-34

Harnett B, Doarn CR, Merrell RC. Contributing Author: [*Telemedicine. Encyclopedia of Biomaterials and Biomedical Engineering*](#). ISBN: 0-8247-4789-4 Marcel Dekker, Inc. 2005 New York, NY. Pgs 1449-1457

Harnett B. Contributing Author: Creating Telehealth Networks from Existing Infrastructures. [*Establishing Telemedicine. Developing Countries: From Inception to Implementation*](#). R Latifi (Ed) IOS Press 2004. Amsterdam. Pgs 51-59

Abstracts/Posters

Williams KN, Keller JL, **Harnett BM**, Tachinardi U. Assessment of Data Quality in the EHR – Discrete Data Missingness of Pancreatic and Breast Cancer Patients in UC Health’s EHR. AMIA 2024 Informatics Summit. Boston, MA. 2024

Divya T, Doers M, Ogden L, Winter J, Zafar M, Faysal A, Keller J, **Harnett B**, Droege C, Hite D. Protocolized Transition from Continuous Infusion Analgosedation in Critically Ill Medicine Patients. 51st Critical Care Congress, San Juan, Puerto Rico. *Critical Care Medicine* 50(1):p 272, doi: 10.1097/01.ccm.0000808568.04327.e0. Jan 2022

Whitham T, Wima K, **Harnett B**, Kues JR, Eckman MH, Starnes SL, Schmidt KA, Kapur S, Salfity H, Van Haren RM. Lung cancer screening utilization rate varies based on patient, provider, and hospital factors. *J Thorac Cardiovasc Surg*. 2023 Feb 21:S0022-5223(23)00172-1. doi: 10.1016/j.jtcvs.2023.01.032. 2023

Wu DTY, Zhou F, Su WC, Vu H, Sahu P, **Harnett B**, Chiu TP, Vogel C, Lee JJ. A User-Centered Evaluation of a COVID-19 Intelligent Query System (COVID-IQS). *Stud Health Technol Inform*;290:824-828. doi: 10.3233/SHTI220194. PMID: 35673133. 2022

Van Haren RM, Hemingway M, **Harnett B**, Guitron-Roig J, Kues J, Eckman M, Starnes SL. Lung cancer screening program utilization rate varies based on patient and provider factors. *American Association for Thoracic Surgery*. New York, NY. 2020

Harnett BM, Frey D, Tressler T, Moore, M, Koors N. (2018, July). HiLois the app – a digital photo frame platform for families to support a loved one with Alzheimer’s. Alzheimer’s Association International Conference, Chicago, IL USA. 2018

Murdock P, **Harnett B**, Alwell K, Kleindorfer D, Kissela B, and Wu DTY. Contextual Inquiry of the Research Data Flow of the Greater Cincinnati/Northern Kentucky Stroke Study. AMIA Informatics Summit. 2018

Eckman M, *et al* incl. **Harnett BM**, Development of an Atrial Fibrillation Shared Decision-Making Tool (AFDSM). Poster at the meetings of the Society for General and Internal Medicine, Washington DC. 2016

Harnett BM, Eckman, M. The Center for Health Informatics; UC Research Week Symposium. Cincinnati, OH. 2012

Doarn CR, **Harnett BM**, Broderick TJ. Telesurgery: What are the Possibilities? 12th Annual Meeting and Exposition of the American Telemedicine Association, Nashville, TN. 2007. *Telemed and E Health*; 12(2):190. 2007

Huffman L, Doarn CR, **Harnett B**, Moses G, Broderick TJ. Recent Advances in Robotic Telesurgery and Applications to Battlefield Trauma. 2nd Annual Meeting of the Association of Academic Surgeons. Phoenix, AZ. 2007

Harnett BM, Broderick TJ, Doarn CR, Huffman L, Rosen J, Hannaford B. Small Unmanned Aerial Vehicle as a Network Access Point for Tele-Robotic Surgical Intervention in the Battlefield. *Medicine Meets Virtual Reality 14*. Long Beach, CA. 2007

Lum MJH, Rosen J, King H, Friedman DCW, Donlin G, Sankaranarayanan G, **Harnett B**, Huffman L, Doarn C, Broderick T, Hannaford B. Telesurgery via unmanned aerial vehicle (UAV) with a field deployable surgical robot. *Medicine Meets Virtual Reality 15*. JD Westwood et al, (Eds). IOS Press. Amsterdam; 125: 313-315. 2007

Hoffman L, Doarn CR, **Harnett B**, Moses G, Broderick TJ. Recent Advances in Robotic Telesurgery and Applications to Battlefield Trauma. 2nd Annual Meeting of the Association of Academic Surgeons. Phoenix, AZ. 2007

Hanly RJ, Miller B, Herman BC, Marohn MR, Talamini MA, Broderick TJ, Doarn CR, **Harnett B**, Hasser CJ, Schenkman NS. Stereoscopic Robotic Surgical Telementoring: Feasibility and Future Applications. 10th Annual Meeting and Exposition of the American Telemedicine Association, Denver, CO. *Telemed and E Health* 2005; 11(2):247. 2005

Harnett BM, Broderick T, Doarn CR, Rafiq A, Muth T, Merrell RC. Dynamic automated data collection for human performance. *J Information Technology in Healthcare*. Poster Presentation, *Medicine Meets Virtual Reality 13*, Long Beach, CA. 2005

Zhao X, **Harnett B**, Rafiq A, Doarn CR, Merrell RC. An Online EMR System for International Telemedicine Consultation. 9th Annual Meeting & Exposition of the American Telemedicine Association. Tampa, FL. April 2004. *Poster Telemed J E Health* 2004; 10(Supp 1):S-120. 2004

Cone S, Carruci LR, Jinxing Y, Rafiq A, **Harnett B**, Doarn C, Merrell R. Acquisition and Evaluation of Radiography Images by Digital Camera. 9th Annual Meeting & Exposition of the American Telemedicine Association. Tampa, FL. April 2004. *Telemed J E Health*; 10(Supp 1):S-38. 2004

Rafiq, A. **Harnett B**, Merrell G, Doarn C, Merrell R. Telemedicine Application during a search for Genghis Khan in Mongolia. 9th Annual Meeting & Exposition of the American Telemedicine Association. Tampa, FL. *Poster Telemed J E Health* 2004; 10(Supp 1):S-112. 2004

Rodas E, Rafiq, A, Doarn CR, **Harnett B**, Merriam N, Merrell RC, Broderick, TJ, Surgical Simulation in Microgravity. *SAGES*. Denver, CO. Video Abstract. 2004

Non-Peer Reviewed and Articles

Harnett. "Should you allow live broadcasts of cases? Some answer definitive 'no'" Same-Day Surgery, AHC Media. Vol. 32. 2008

Harnett. "Telemedicine: To Mt. Everest and Beyond" American Society of Information Scientists, quarterly journal. 2000

Harnett. "Advanced Medical Technology for Extreme Environments" Space Manufacturing 12; Proceedings from the 14th Space Studies Institute/Princeton Conference on Space Manufacturing.1999

Harnett. "Communicating from the Rooftop of the World in Real-Time" RT Imaging.1999

Harnett. "Technical diagram [Communications from Everest]" MD Computing.1999

Teaching

Biomedical Informatics Ph.D. Program - UC College of Medicine, Biomedical Informatics Practicum (BMIN8001) 2017 - 2024

Biomedical Informatics Graduate Program - UC College of Medicine, Introduction to Medical Informatics (BMIN7053) 2016 - 2023

Master's Program in Clinical and Translational Research - UC College of Medicine, Introduction to Medical Informatics (13FS_BE8062001) 2013

Master's Program: IS 795/782 - UC College of Business "The Healthcare Landscape"; 2011, 2012

Master's in Public Health (Guest); Public Health Informatics and e-Health - "The Clinical Data Warehouse", 2013

Business of Medicine - UC College of Medicine (Guest) "Technology Application in the Operations of Modern Medicine"; 2009, 2010, 2011, 2012, 2013

Contemporary Issues in Medicine - UC College of Medicine (Guest) "Telecommunications in Medicine"; 2008, 2009, 2011

[INTERalliance](#) UC educational host and student advisor; 2006, 2007

Telemedicine Course for Uzbekistan Army Physicians in cooperation with Partnerships for Peace/Information Management and NATO; Tashkent, Uzbekistan; 2003

VCU Telemedicine Honors Course, (Guest); 2001, 2002, 2003

Yale Telemedicine Course for international affiliates; 1999, 1998

Mentorship

Faculty Preceptor, College of Allied Health Sciences; Master's Health Informatics 2015, 2019, 2022, 2023

BMI Interested Learners Outreach Committee (ILOC) Lead 2019

Faculty Advisor, UC M1 students: Healthcare Transformation Interest Group; 2014 -2015

Faculty Advisor, IT@UC Leadership Academy Mentor program; 2014 - 2018

Research Grants History

Key Individual: NIH/NCRR "Cincinnati Center for Clinical and Translational Sciences and Training Grant" Institutional CTSA 2UL1TR001425-05A1; 2020-2025

Funding Agency: National Center for Advancing Translational Science

Co-I: Polygenic Risk Scores for Healthier African American Families

Electronic Medical Records and Genomics (eMERGE) - To advance the health and care of children, as in eMERGE II & III, CCHMC will assemble a birth cohort in eMERGE IV, ascertained on pregnant or recently delivered self-identified African American women and their babies, along with the willing fathers and siblings. We will develop polygenic risk scores and genomic risk estimates for numerous disease phenotypes; 2020-2025

Funding Agency: NIH/National Human Genome Research Institute

Co-I: Fernald Community Cohort: Research Resource for Environmental Epidemiology
Maintain and Enrich Resource Infrastructure for Existing Environmental Epidemiology Cohorts.
Ascertaining the UC Health medical record numbers of cohort members will allow linking the UC Tissue Biobank and permit the current systems and the UC Tissue Biobank records to reflect biospecimens and/or data in the respective collections from the Fernald Medical Monitoring Program (FMMP) from 1990-2008; 2019-2023

Funding Agency: NIH/NIEHS

Co-I: FHIR-Based Natural History Cohorts in Rare Lung Diseases

Establish a FHIR-based workflow that imports relevant longitudinal data (demographics, meds, PFTs, imaging reports) from the EPIC records of UC's MIDAS enrolled subjects into the existing REDCap database and deploy this mechanism at one external site to demonstrate the ability to scale the MIDAS data collection into a nationwide natural history cohort.

Funding Agency (internal): CoM Research Innovation/Pilot Grant Program; 2020 - 2021

Principal Investigator: Processes & Methods Award; 2019-2020

Funding Agency (internal): CCTST

Co-I: EMERSE (Electronic Medical Record Search Engine)

Comprehensively extract the detailed clinical data from the unstructured clinical notes within EHRs to support cancer information retrieval needs and innovate within the EMERSE framework to enable networked data discovery and collaboration between cancer centers; 2017-2022

Funding Agency: National Institutes of Health/National Cancer Institute

Co-I: Optimizing Healing in Ohio Communities

Goal: Optimizing Healing in Ohio Communities (OHIO) will implement and evaluate the effectiveness of an integrated set of evidence-based prevention, treatment, and recovery programs for opioid use disorder. OHIO aims to reduce opioid overdose deaths by 40% in the affected communities in 3 years. The effectiveness of the evidence-based interventions will be disseminated as a model that can be implemented by affected communities across the nation; 2019-2021

Funding Agency: NIH/NIDA

Key Individual: Using an Atrial Fibrillation Decision Support Tool (AFDST) for Thromboprophylaxis in Atrial Fibrillation; 2015-2016

Funding Agency: Pfizer Educational Group, Bristol-Myers Squibb/Pfizer Education Consortium, and NIH/NCATS grant

Principal Investigator: Creating a patient registry to facilitate data sharing and encourage patient-centered approaches to improving health and lowering costs; 2013

Funding Agency: Robert Wood Johnson Foundation

Co-I: Appropriate Use of Anticoagulant Therapy in Patients with Atrial Fibrillation; 2013-14

Funding Agency: Pfizer

Principal Investigator: A Mobile Neural Network for Real-time Physiologic Monitoring; 2006

Funding Agency - University of Cincinnati Faculty Research Support Program

Co-I: High Altitude Platforms Mobile Robotic Telesurgery; 2005

Funding Agency - US Army Medical Research and Materiel Command

Speaking Engagements

Panelist: "Digital Health Tools Roundtable" sponsored by The Collaboration Network 2022

“Clinical Research Informatics Capabilities” CCTST K Club December 2021

Clinical Data Usage for Research” Design and Management in Field Studies; MS in Clinical and Translational Research program February 2020

“Clinical Research Informatics” Public Health Informatics and e-Health - PH8055; Prof. Charles Doarn – October 2019

“Clinical Research Informatics at the UC College of Medicine” Institute for Interdisciplinary Data Science; RAP Session – UC Faculty Development Center – October 2019

“Integrating and Harmonizing EHR Data from Multiple Institutions Across Mother and Child Dyads” eMERGE Network Steering Committee, Rockville MD – October 2019

“Clinical Research Informatics for the Internist: Resources available at UC” UC Internal Medicine Grand Rounds – February 2019

“Biomedical informatics at UC, UC Health and Children’s.” with Dr. Eric Hall; Faculty Development Lecture – May 2018

“Illuminating Cloaked Issues in Data Quality” TriNetX User Conference, Boston Massachusetts – September 2017

“From Blood & Guts to Bits & Bytes; Technology and Scaling in Healthcare” MeasureCamp Unconference, Cincinnati Union Hall – May 2017

“Research Outside the Lab: From the Ocean Floor to 34,000 Feet” Biomedical Informatics Seminar Series, Cincinnati Children’s Hospital & Medical Center – February 2015

“Healthcare Informatics for the Research Mission at the University of Cincinnati” Cincinnati OVALS Conference – March 2014

“Technology in Healthcare: An Informatics Perspective” Indiana University Graduate Speaker Series; Bloomington, Indiana – November 2012

“Accessing Electronic Health Record Data for Human Subjects Research: Challenges and Solutions” Panel Member; University of Cincinnati – August 2012

“Improving Patient Outcomes and Operational Efficiencies with Business Intelligence” BI Symposium III, Cincinnati, OH – February 2011

“Telesurgery: The Convergence of Telecommunications, Informatics and Robotics.” Doarn CR, Harnett BM, Broderick TJ. [Healthcare Information and Management Systems Society](#), Panel Presentation. New Orleans, LA - February 2007

“Small Unmanned Aerial Vehicle as a Network Access Point for Tele-Robotic Surgical Intervention in the Battlefield” Medicine Meets Virtual Reality 15, Long Beach, CA – February 2007

“Healthcare Symposium” Alumni speaker/panelist, Eastern Connecticut State University, Willimantic, CT - December 2006

“Advanced Network Opportunities for Surgical Tele-Robotics” Center for Computational Sciences, University of Kentucky, Lexington, KY - February 2006

"Advanced Network Opportunities for Surgical Tele-Robotics Imagine the Possibilities Conference - Bradley University; Peoria, IL - October 2005

"Advanced Network Opportunities for Surgical Tele-Robotics" Fall 2005 Internet2 Member Meeting; Philadelphia, PA - September 2005

"Medical Informatics - A Binary Evolution" University of Cincinnati Surgical Grand Rounds; Cincinnati, OH - September 2004

"Redundant Wireless Communication Technologies for Bioterrorism Surveillance" American Telemedicine Association Annual Meeting; Tampa, FL - May 2004

"Zero Gravity Research Onboard NASA's KC-135 Aircraft" Virginia Aviation Museum, Celebrating 100 Years of Flight; Richmond, VA - December 2003

"Distance Medicine" Association of Information Technology Professionals; Regional Conference; Richmond, VA - August 2003

"Telehealth Technologies: Research and Application" Area Health Education Center (AHEC) Board of Directors Meeting; New Haven, CT (via teleconference) - June 2003

"NASA-Sponsored Research at VCU" Highland Springs High School, Engineering Center; Richmond, VA - May 2003

"Operation Lion Heart: Real-time physiologic data via cellular and LEOS" American Telemedicine Association Annual Meeting; Session Chairman; Orlando, FL - April 2003

"Developments in Wireless Telemetry" VCU Emerging Technology Day - April 2003

"Medical Informatics: A Technical Perspective" Advanced Health Informatics Presentation; VCU School of Medicine - March 2003

"Operation Lion Heart - Physiologic Telemetry Using Whatever the Heck is Available" Caribbean Telemedicine Association Meeting; San Juan, Puerto Rico - November 2002

"New Technologies in Telemedicine" Area Health Education Center (AHEC) Annual Meeting; Ledyard, CT (via teleconference) - October 2002

"Telemedicine Research at VCU" Virginia Biotechnology Summit and Governor's Conference on Technology Transfer and University Research; Tyson's Corner, VA - October 2002

"Telemedicine at VCU" Defining the virtual collaborative clinic model: Bringing medical expertise to remote sites in space and on earth - NASA; Albuquerque, NM - August 2002

"A Physiologic Data Routing Hub for Wireless Sensors: The VitalPoll" American Telemedicine Association Annual Meeting; Los Angeles, CA - June 2002

"Portable Telemedicine, Sensors and the VitalPoll" Distributed Medical Intelligence Conference VII; Park City, UT - March 2002

"Mobile Healthcare, Sensors and Medical Education," Roundtable Expert Participant, International Conference on Mobile Health; San Diego, CA - November 2001

"Telemedicine from the Mars Arctic Research Station: An Exercise for Remote Medical Sensing" Keynote Plenary Session/Telemedicine World at TeleCon 2000; Anaheim, CA - December 2000

"Arctic Circle Communications and Tools" Arctic Council on Telemedicine; U.S. State Department, Washington DC - November 1999

"Extreme Telemedicine" American Society of Information Scientists; Washington DC - October 1999

"H.323 and Distance Learning" Internet2 Global MegaConference; Richmond, VA - October 1999

"Mount Everest Telemedicine" Telehealth & Multimedia International Congress; Edmonton, Alberta Canada - August 1999

"Everest Educational Expedition" Olympus America; Melville, NY - May 1999

"Extreme Telemedicine" Space Studies Institute; Princeton University - May 1999

"The Future of Medicine" Maryland Technology Showcase; Baltimore, MD - December 1998

"Internet Telemedicine" National Space Agency of Ukraine and the Ukrainian National Medical University; Kiev, Ukraine - September 1997

Awards and Acknowledgements

UC Cancer Center 'Charge Against Cancer' event - "Get PAIRED" (Pancreatic AI Repository for Early Detection). August 2023 \$75k

MHA Online – [Universities with Outstanding Informatics Faculty](#); 2018

comSpark 2018 Rising Tech Stars Award; Cincinnati Ohio; 2018

University of Cincinnati Faculty Development Council Award; European Federation for Medical Informatics Symposium, Pisa, Italy; 2012

[Eastern Connecticut State University](#) Alumni Fellows; Careers in Science; 2010

Finalist - Infineon Technology Innovation Award; Greater Richmond Technology Council; 2003

Technical/Network Design - [Kosovo Foundation for Medical Development](#), Kosovo; 2002

Special Recognition - Western Regional Medical Authority, Jamaica; 2001

Special Recognition - Moscow State Medical University, Moscow, Russia; 2000

Committees/Faculty Service

Figshare Implementation Committee (NIH FAIR Principles)

UC Institutional Review Board (IRB) member (2014-2024)

Center for Improvement Science (CIS) Advisory Council

UC IT Governance Research & Development Committee (Co-Chair 2015-2018)

UC IT Council

Clinical Research Informatics Advisory Group (CRIAG)

CCTST/CTSA Steering Committee

UC Health Telemedicine Central Coordinating Committee

Committee on development of the Institute for Computing and Data Sciences

UC IT Strategic Planning Committee

Task Force: Institute for Comparative Effectiveness and Outcomes Research

Research Data Management, Security & Compliance Committee

Masters of Health Informatics Course Development Committee

Blue Ribbon IT Governance Committee

Bundled Services Oversight Committee

Lab Management Steering Committee

IMTC Core Systems Software Management Task Force

University of Cincinnati Faculty Senate - Senator At-Large - *Elected position (2010-2012)*

UC Senate Standing Committee for Information Technology
UC COM Senate Ad Hoc Committee on Faculty Affairs
UC COM Senate Lab Management Course Steering Committee
UC Collaborative Telehealth Steering Committee (co-chair)
West Chester Medical Center surgical suite vendor selection
University Hospital Surgical Initiative Scheduling and Access Project
UC/UCP Re-engineering IT Task Force
UC AIT&L Position Search Committee
UC COM Software Development Group
UC Information Technology Group / Policy Committee
West Chester Medical Center Planning Committee
UC/Health Alliance Advanced Technology Group
VCU PDA Special Interest Group
VCU Plant Operations/Operating Room Wiring Initiatives
VCU Internet2 Development Group
Yale University Telemedicine Advisory Board
Yale University NASA/CSC Technology Committee
Yale University NASA/Space Biomedical Center Joint Oversight Committee - technical advisor

NASA Projects

Surgical procedures in microgravity – robotic laparoscopic research/KC-135 aircraft, Houston, TX
Remote physiologic monitoring/Mt. Everest, Nepal (managed from Yale University)
Remote control of surgical robots in undersea NOAA Aquarius module/Key Largo, FL
Space Shuttle flight STS 87: Collaborative Ukrainian Experiment/Ukraine
Anti-terrorist exercise ([Shadow Bowl](#))– air quality sensing at Super Bowl XXXVII /San Diego, CA
Mars medical emergency simulation/Arctic Circle, Canada
Post Conflict telemedicine center development/Kosovo, Balkans/Europe
Pre/Post-surgical intervention via telemedicine/Ecuador jungles
Operation Helping Hands – surgical relief mission/Dominican Republic

Community/Science Service

Judge, Indiana University Kelley School of Business Graduate competition: X596 “Healthcare Industry” in 10 Years - Your Digital Future; 2021
BMI Team Captain Heart Mini Marathon; Omega 3 Fatty Associates - 2015 - 2019
Judge, Science & Engineering Expo District 11 Science Day; 2005 – 2008, 2012 – 2015, 2018
Judge, UC Graduate Poster Forum; 2005 - 2008
INTERalliance educational host and student advisor; 2006, 2007
NASA Langley FIRST Robotics Competition; pit crew; 2001, 2002, 2003
BioBiz Entrepreneurial mentor for VCU Business School MBA student via funding from the [Ewing Marion Kauffman Foundation](#); 2002
Judge, Greater Richmond Technology Council, Infineon Technology Innovation Award; 2002
Science panelist for multi-site videoconference, The Jason Project "Frozen Worlds" Richmond Science Museum; 2002
Judge, [FIRST](#) (For Inspiration and Recognition of Science and Technology) Lego League Robotic Competition; Theme: Arctic Impact; 2001

Miscellaneous

High altitude physiologic training; Andrews Air Force Base, Maryland – 2003, 2007
“Life Signs: Personal Health Protection” health.discovery.com interview January – 2001

FAA Licensed [Private Pilot](#) – Visual Flight Rules (VFR) – Single Engine Land