Joshua E. Richardson, PhD, MS, MLIS, FAMIA

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Educational Background

Certificate, AI Bootcamp, Northwestern University, Online, 2024 - May 2025.

PhD, Biomedical Informatics, Oregon Health & Science University, Portland, OR, 2010.

MS, Biomedical Informatics, Oregon Health & Science University, Portland, OR, 2007.

MLIS, San Jose State University, San Jose, CA, 2001.

BA, History, San Francisco State University, San Francisco, CA, 1998.

Professional Positions and Employment

Current Position

Co-Investigator

September 2024 to Present. University of Michigan; Ann Arbor, MI. (remotely work from San Francisco, CA)

Past Positions

Senior Research Scientist

July 2024 to January 2025. Galter Health Sciences Library & Learning Center at the Northwestern University Feinberg School of Medicine; Chicago, IL (remotely worked from San Francisco, CA)

Research Health IT Scientist.

2015 to March 2024. RTI International, Berkeley, CA; Chicago, IL

Adjunct Assistant Professor.

2021 to December 2023. Rush University Graduate College, Chicago, IL

Assistant Professor, Department of Health Policy & Research.

June 2013 to August 2015. Weill Cornell Medicine, NYC, NY

Assistant Library Director, Clinical Services.

June 2013 to August 2015. Samuel J. Wood Library at Weill Cornell Medicine, NYC, NY

Instructor of Pediatrics in Public Health.

December 2010 to May 2013. Weill Cornell Medicine, NYC, NY

National Library of Medicine Fellow.

August 2005 to September 2010. Oregon Health & Science University, Portland, OR

Information Specialist.

2002 to 2005. Anshen+Allen, Architects, San Francisco, CA

Librarian.

2002 to 2003. San Francisco Public Library, San Francisco, CA

Information Analyst.

2001. EoExchange, Inc., San Francisco, CA

Metadata Architect.

2000 to 2001. OpenShelf, Inc., San Francisco, CA

Professional Memberships

AMIA, 2005 to date

Mobilizing Computable Biomedical Knowledge, 2017 to date

Clinical Decision Support Innovation Collaborative Patient-Centeredness and Trust
    Working Group, 2023 to 2024

HIMSS Chicago, 2016 to 2017

HIMSS New York, 2012 to 2013

HIMSS Oregon (Student Representative and Policy Chair), 2008 to 2010

Medical Library Association, 2006 to 2007

BayNet Library Association, 2005

Special Libraries Association, 2003 to 2004

Honors and Awards

RTI Career Author   2023

RTI Highly Published Author   2016 - 2023

RTI Highly Cited Author   2020 - 2023

American Medical Informatics Association Fellow (FAMIA)   2022

RTI Sabbatical Award   2017

"Expanding Expertise in Clinical Informatics: Modeling and Mapping Electronic
        Health Record Data to Cardiovascular Quality Measures,"

RTI Early Career Author Award   2016

National Library of Medicine Workshop Mentor   2014

"Librarian's Guide to NCBI," mentee: Tmanova

National Medical Library   2014

Association Conference Panel Invitation, mentee: Stribling

Medical Library Association Annual Conference Poster (2nd Place)   2014

Richardson, JE, Bouquin, D., Brown-Epstein, H. A., Merlo, L. A., Tmanova, L., & Wright, D. (2014). *Surveying information and informatics literacy of first-year medical students*. Presented at the Medical Library Association 2014 Annual Meeting.

National Network of Libraries of Medicine   2014

Mid-Atlantic Region Technology Improvement Award (HHS-N-276-2011-0003-C*)

Institute for Research Design in Librarianship   2014

Mentee: Bouquin

Innovative Internship Award, Metropolitan New York Library Council   2013

TRIPLL 2013 Pilot Study Grant Program   2013

AMIA Distinguished Paper Award (Co-Author)   2011

HIMSSState Leadership Award (Oregon)   2010

AMIA Distinguished Paper Award (Co-Author)   2009

OHSU Student Research Forum, 2nd Place   2009

Oral Presentation in Qualitative Research

National Library of Medicine Fellowship in Biomedical Informatics   2007

National Library of Medicine Fellowship in Library Informatics   2005

Professional Service

Member, University of Michigan Department of Learning Health Sciences & AcademyHealth Partnership to develop a Learning Health Systems Maturity Model, 2022 to date

Mobilizing Computable Biomedical Knowledge North American Chapter Meeting Co-Chair, 2023 to 2024

Mobilizing Computable Biomedical Knowledge Program Committee and Trust and Policy Work Group Co-Chair, 2022 to 2024

Member, AMIA Informatics Partnership Council, 2019 to 2024

Member-at-Large, AMIA Clinical Decision Support Work Group, 2017 to 2021

Committee Member, AMIA Work Group Steering Committee, 2017 to 2021

RTI Creative Disruptors Committee, 2016 to 2018

Member, HIMSS, Greater Illinois Chapter, 2015 to 2016

RTI Knowledge Management Committee, 2016

Dissertation committee member, Patricia McLean, RN, "Personal Emergency Response Systems (PERS): Exploring the meaning of its use among functionally-impaired older adults," 2013 to 2016

Direct supervisor, four WCMC faculty members and one intern, 2014 to 2015

New York-Presbyterian Evidence-Based Practice Research Council, 2014 to 2015

New York-Presbyterian Graduate Medical Education IT Committee, 2014 to 2015

Non-voting member, New York-Presbyterian Graduate Medical Education Committee, 2013 to 2015

Instructional Design Librarian Search Committee, 2013 to 2015

Library Kiosk Technology Committee, 2013 to 2015

Mentor, Library Sciences Research (Bouquin), 2014 to 2015

Mentor, Library Sciences Research (Tmanova), 2014 to 2015

Mentor, Library Sciences Research (Wright), 2014 to 2015

Mentor, Library Sciences Research (Stribling), 2013 to 2015

Chair, WCMC Samuel J. Wood Library Clinical Librarian search committee, 2014

Mentor, Health Informatics (Coutu-Nadeau), 2013 to 2014

Mentor, Health Informatics (Amberson), 2013 to 2014

CHiP Curriculum and Training Committee, 2012 to 2014

Mentor, ECRIP Fellowship (Green), 2012 to 2013

New York Statewide Collaboration Process Electronic Health Record Implementation Advisory Committee, 2011

Advocacy Chair, HIMSS Oregon, 2009 to 2010

Leadership Conference Representative, HIMSS Oregon, 2009

Web Site Manager, HIMSS Oregon, 2008 to 2009

Student Liaison, HIMSS Oregon, 2007 to 2008

Treasurer, BayNet Library Association, 2005

Newsletter Editor, Special Libraries Association—San Francisco Bay Region, 2003 to 2004

Project Experience

Determining Public Perceptions in Trust of Artificial Intelligence-based Clinical Decision Support (February 2022 to Present)—*Co-Investigator.* Dr. Richardson helped to author and submit this R01 grant, which was funded by the National Institute of Biomedical Imaging and Bioengineering to conduct a mixed-methods investigation into public perceptions in the aspects of trust as it relates to new methods and technologies that generate clinical decision support rules and recommendations. This effort grew from work that he co-led for the Trust Working Group as the Assistant Project Director for the Patient-Centered Clinical Decision Support Learning Network.

Generalist Repository Ecosystem Initiative (GREI) (July 2024 to January 2025)—Co-Investigator. Dr. Richardson contributed to this NIH-funded effort to build industry-wide standards and practices to promote generalist repositories for open science and open data. He participated in multiple work groups including the Data Submission Checklist WG, Big Data Use Case WG, and Community Engagement WG.

CTSA Translational Impacts Work Group (July 2024 to January 2025)—Co-Chair. Dr. Richardson helped lead the planning and kickoff of this Clinical Translational Science Award-funded project to develop common metrics and methods for gauging impact in biomedical translational science.

Accelerating Colorectal Cancer Screening and Follow-up through Implementation Science (ACCSIS) (2022 to March 2024)—*Co-Investigator.* For this National Cancer Institute Cancer Moonshot(SM) Initiative, Dr. Richardson led an evaluation of solutions and challenges for health IT's use in supporting multilevel interventions to increase colorectal cancer screening and follow-up. Dr. Richardson applied qualitative methods and implementation science theory to determine strategies for primary care practices to optimize EHRs and electronic tools that promote more effective patient data gathering, screening, and follow-up. A published manuscript is anticipated in 2024.

Primary Care First (PCF) (2022 to March 2024)—*eCQM Reporting Subtask Lead.* This Centers for Medicare & Medicaid Services (CMS) project aims to implement advanced primary care medical home models among the Medicare population through multipayer payment reform and care delivery transformation. The implementation of this project involves conducting beneficiary attribution, computations of care management fees (CMF), performance-based incentive payments, and comprehensive primary care payments for participating PCF practices. Dr. Richardson leads a multi-group analysis of practices by care delivery, quality, and health equity variables in delivering a yearly "Measure Summary and Performance Report."

Coordinating Center for Research Centers for Improving Management of Symptoms During and Following Cancer Treatment-U24 (2018 to March 2024)—*Co-Investigator.* For this National Cancer Institute project, Dr. Richardson contributed to the development of a data coordinating center that provides the infrastructure and support to participating research centers using implementation science approaches that accelerate the adoption of EHR-based systems, which collect patient-reported symptom data and use those data to trigger clinical responses and sustain changes in clinical practice.

Advancing Hospital-Based Technology to Support Victims of Interpersonal Violence (2021 to September 2023)**—***Advisor.* Funded by the Office for Victims of Crime (OVC), this project seeks to improve the support, care, and protection offered to victims of interpersonal violence by expanding and enhancing existing technology to enable multidisciplinary collaboration among health care providers, law enforcement, prosecutors, and victim service providers (VSPs). Dr. Richardson oversaw aspects of the project, with special attention to advising on requirements gathering and software testing. He furthermore contributed to data collection, evaluation design, and dissemination. A published manuscript is anticipated in 2024.

American Academy of Family Physicians (AAFP) Telehealth Resource Library (2022 to July 2023)**—***Task Lead.* As part of this effort to deliver tools and resources to AAFP members around ways to manage telehealth for their practices, I led the development of a roadmap to be used by the AAFP to ensure that a "Telehealth

Resource Library" served as a dynamic and up-to-date member resource, and recommended additional topics and/or resources the AAFP should consider for future development.

Comprehensive Primary Care Plus (CPC+) (2022 to March 2023)—*eCQM Reporting Subtask Lead.* This Centers for Medicare & Medicaid Services project aimed to implement advanced primary care medical home models among the Medicare population through multipayer payment reform and care delivery transformation. The implementation of this project involved conducting beneficiary attribution, computations of care management fees, performance-based incentive payments, and comprehensive primary care payments for participating CPC+ practices. Dr. Richardson's work included leading a subanalysis of practices by care delivery, quality, and health equity variables; and leading the publication of a multi-group effort to publish a "Measure Summary and Performance Report" of 2021 data.

ASPE LTPAC Health IT Landscape Project (April 2021 to June 2022)—*Task Lead.* This ASPE-funded project informed federal policymakers about the state of health IT and health information exchange in today's long-term care and post-acute care facilities. The effort involved a formal literature review, interviews with subject matter experts, and synthesizing results into a final report and presentation. Dr. Richardson co-presented a poster at the AcademyHealth Research Meeting as a result of this work.

Todd Graham Pain Study (November 2020 to May 2021)—*Task Lead.* This ASPE-funded project, in partnership with Medicare and AHRQ, informed multimodal pain care options in outpatient and inpatient settings to effectively treat Medicare patients with pain, including knowledge about complementary care, analgesic medications, and medical devices. Dr. Richardson led two separate tasks that involved document analyses and landscape reviews. which summarized feedback from healthcare stakeholders on pain management issues as well as summarized available pain management and substance use disorder guidance and tools from the past 10 years.

Clinical Decision Support for Chronic Pain Management (CDS4CPM) (2019 to September 2021)—*Project Director.* Dr. Richardson led the award-winning proposal and led the AHRQ-funded contract that developed patient- and clinician-facing clinical decision support based on informatics standards from FHIR, SMART on FHIR, CPGonFHIR and others to improve patient-provider communication around the treatment of chronic non-cancer pain. The lessons learned from the project informed standards and policy decisions around the development, use, and dissemination of standards-based and shareable clinical decision support artifacts.

Rush-RTI Research (R3) Initiative (2019 to June 2021)—*Lead*. This effort funded by RTI's University Collaborations Office was driven to develop joint efforts between Rush University and RTI. After meeting with the UCO lead (Jackie Olich) and Rush Senior Leadership, Dr. Richardson was tasked with standing up a pilot effort to build a relationship between the two organizations. From that, he developed the R3 (Rush-RTI Research) Initiative that successfully kicked off two jointly-funded projects ($100,000 each) to study the effects that Covid was having on global and local (Chicago)

populations. An emphasis was placed on supporting junior faculty and research staff at both institutions. The effort resulted in a press release, multiple publications, and presentations by the joint teams.

Patient-Centered Outcomes Research Clinical Decision Support Learning Network (PCOR CDS-LN) (May 2016 to February 2019)—*Assistant Project Director.* The PCOR CDS-LN engaged public and private stakeholders to (1) accelerate collaborative learning opportunities by convening, implementing, and initiating operation of a multistakeholder CDS learning network. Dr. Richardson led the development and dissemination of an environmental scan to inform strategies and programming for the PCOR CDS-LN, co-led the Trust Framework Work Group, and led the development of a sustainability framework for PCOR CDS.

Patient-Centered Outcomes Research Trust Fund (PCORTF) Investments to Build Data Capacity for Comparative Clinical Effectiveness Research (CER) (2016 to 2018)—*Task Lead.* The Office of the Assistant Secretary for Planning and Evaluation in the U.S. Department of Health and Human Services was charged with coordinating the federal activities to develop and maintain a comprehensive, interoperable data network that collects, links, and analyzes CER data. The purpose of this contract was to conduct a multilevel evaluation to assess the impact of the portfolio of data infrastructure projects funded by the Office of the Secretary PCORTF to support comparative CER. Dr. Richardson co-led the development of a database of key operational concepts to map to documented activities and deliverables that demonstrated levels of project completion, and led analysts in development and maintenance of a unified codebook and reporting outcomes to the project director and the client. Dr. Richardson's work led to a presentation of the project's findings to multiple NIH leaders.

Comprehensive Primary Care Plus (CPC+) (2017 to 2018)—*eCQM Reporting Subtask Lead.* This Centers for Medicare & Medicaid Services project aimed to implement advanced primary care medical home models among the Medicare population through multipayer payment reform and care delivery transformation. The implementation of this project involved conducting beneficiary attribution, CMF, performance-based incentive payments, and comprehensive primary care payments for participating CPC+ practices. Dr. Richardson led the collection of electronic clinical quality measures (eCQMs).

Modeling and Mapping EHR Data to Cardiovascular Quality Measures (2017 to 2018)—*RTI Sabbatical Awardee.* Dr. Richardson was awarded an RTI Sabbatical to work with Dr. Abel Kho and teams at Northwestern University (Chicago, IL) on the Healthy Hearts in the Heartland project team, which modeled and mapped EHR data across multiple vendor platforms for eCQM reporting around cardiovascular care. The goal was to improve RTI's leadership in this area and to advance his professional skills in designing and conducting research that uses EHR data to determine how policies and technology could affect patient health and health care quality.

Health Impact Assessment Clearinghouse (March 2017)—*Reviewer.* Developed brief summaries of health impact assessment–related articles and reports to be made available via an online resource at Pew.

North Carolina TraCS, Clinical Translational Science Award (2016 to 2017)—*Research Health IT Specialist.* Dr. Richardson coordinated and facilitated the development of a public-private informatics infrastructure to provide newborn screening for rare genetic conditions across North Carolina. RTI partnered with experts and staff across multiple institutions: University of North Carolina, Duke University, Wake Forest University, and the North Carolina State Laboratory of Public Health. The major activities were to help form, document, and implement a data governance structure; develop business and reporting requirements; partner with multiple stakeholders to build out a data model and data dictionaries; and support efforts that operationalize the plans in a secure, standards-driven, and scalable architecture.

Conceptualization and Implementation of a Program Evaluation for the MS PATHS Demonstration Project (2015 to 2016)—*Task Lead.* Dr. Richardson participated in the planning and operationalization of qualitative and quantitative analyses in a project that provides researchers with access to longitudinal patient data that can be used to advance the knowledge of multiple sclerosis disease progression and patients' responses to therapies in the context of care delivery.

Data Core Software Research Development Pilot Program (2014 to 2015)—*Library Project Lead.* Dr. Richardson managed analysts who gathered requirements and translated requirements into functions for an enterprise-level software platform. The program involved developing case studies, generating auditable documentation, performing system testing, and gathering user feedback.

National Institutes of Health Translational Research Institute on Pain in Later Life (TRIPLL) Pilot Grant (2013 to 2014)—*Key Investigator*. Dr. Richardson was awarded a pilot grant to determine the extent of analgesic medication adherence among older adults with chronic, noncancer pain. The aim was to conduct a literature review to identify metrics for measuring medication adherence among the older adult population with CNCP.

Situation-Based Patient Data Privacy Management for Mobile Health (mHealth) Technology (2012 to 2013)—*Co-Principal Investigator*. The aim of this project was to develop a patient-centered "situation-based" standard protocol for personal medical data access that will be easy and user-friendly in order to promote mHealth security and privacy.

Statewide Health Information Exchange (HIE) Evaluation for New York State (NYS) (2012 to 2013)—*Key Investigator*. The aims were to describe and evaluate the approaches and strategies used to facilitate and expand HIE across the state according to the Office of the National Coordinator's HIE priority areas.

Conducting a Needs Assessment of Older Adults and Primary Care Physicians in the Development of a Mobile Device for Monitoring Chronic Pain (2012 to 2013)—*Principal Investigator*. The aim of this contract-funded effort was to study the feasibility of a device to track real-time information regarding older adults' pain and its treatment and other related events.

An Interdisciplinary Approach to Defining Preventable Readmissions on the General Medical Service (2011 to 2012)—*Key Investigator*. The aim of this contract-funded effort was to develop a comprehensive conceptual model that classifies the etiologic subtypes of readmissions by incorporating the perspectives of patients, family, and healthcare providers, collectively defined as the "patient care circle."

Variation in Strategies for Transforming Primary Care Practices into Patient-Centered Medical Homes (PCMHs) and Association with Provider Satisfaction (2010 to 2013)—*Key Investigator.* The aims of this contract-funded effort were to understand the variety of ways in which primary care practices meet criteria for the PCMH and to determine associations between patterns of transformation and provider satisfaction.

PCMH Care Coordination Strategies Using Health IT: A Needs Assessment (2010 to 2013)—*Key Investigator*. The aim of this project was to inform New York State (NYS) and federal policies by reporting the care coordination needs of PCMHs in nationally recognized institutions and by identifying available or potentially available health IT that can address those care coordination needs.

Depression Care Quality Improvement in Home Health Care: Interviews (2010 to 2013)—*Key Investigator.* The objectives of this study were to uncover perspectives and insights from providers and organizational leaders in regard to developing and using a novel clinical transfer of care form from between a hospital and a nursing home.

Evaluating the Effects of the Health Care Efficiency and Affordability Law (HEAL) 5 Program in Preparing Practices in Grantee Communities to Achieve Meaningful Use Criteria (2010 to 2012)—*Key Investigator*. The objectives of this study were to uncover perspectives and insights from providers, organizational leaders, and NYS leaders in regard to implementing interoperable EHR systems across NYS.

Evaluating the Effects of a Clinical Transfer of Care Form with Clinical Decision Support (CDS) for Nursing Home Residents (2010 to 2012)—*Key Investigator*. The objectives of this study were to uncover perspectives and insights from providers and organizational leaders in regard to developing and using a novel clinical transfer of care form between a hospital and a nursing home.

CDS in Community Hospitals: Barriers and Facilitators (2009 to 2012)—*Fellow*. This study explored technical, organizational, and personal factors that promoted and inhibited effective use of CDS in community hospitals around the United States.

CDS Consortium for AHRQ CDS Research (2008 to 2012)—*Fellow.* This study assessed, defined, demonstrated, and evaluated best practices for knowledge management and CDS in ambulatory settings.

University-Based Biomedical Informatics Research Training Program, PhD (2007 to 2010)—*Fellow.* National Library of Medicine PhD fellowship to train a research workforce in informatics. Dr. Richardson qualitatively investigated the barriers and facilitators to implementation and use of CDS in multiple clinical settings.

University-Based Biomedical Informatics Research Training Program, MS (2005 to 2007)—*Fellow.* National Library of Medicine master's fellowship to train a research workforce in informatics. Dr. Richardson qualitatively investigated the effects of mobile communication technologies in inpatient settings.

Peer-Reviewed Journal Articles

ORCID ID: https://orcid.org/0000-0003-3066-2673
NIH MyBibliography:
https://www.ncbi.nlm.nih.gov/myncbi/joshua.richardson.2/bibliography/public/

Richardson JE, Houston-Kolnik J, Ramos S, Oxner D, Presler-Jur P. Health Information Technology Documentation and Referrals for Intimate Partner Violence and Sexual Assault. Appl Clin Inform. 2024 Oct;15(5):852-859. doi: 10.1055/a-2381-3487. Epub 2024 Aug 6. PMID: 39106951; PMCID: PMC11483172.

Platt J, Nong P, Smiddy R, Hamasha R, Carmona Clavijo G, **Richardson J**, Kardia SLR. Public comfort with the use of ChatGPT and expectations for healthcare. J Am Med Inform Assoc. 2024 Sep 1;31(9):1976-1982. doi: 10.1093/jamia/ocae164. PMID: 38960730; PMCID: PMC11339496.

McCleary NJ, Merle JL, **Richardson JE**, Bass M, Garcia SF, Cheville AL, Mitchell SA, Jensen R, Minteer S, Austin JD, Tesch N, DiMartino L, Hassett MJ, Osarogiagbon RU, Wong S, Schrag D, Cella D, Smith AW, Smith JD; IMPACT Consortium. Bridging clinical informatics and implementation science to improve cancer symptom management in ambulatory oncology practices: experiences from the IMPACT consortium. JAMIA Open. 2024 Sep 4;7(3):ooae081. doi: 10.1093/jamiaopen/ooae081. PMID: 39234146; PMCID: PMC11373565.

Soares A, Schilling LM, **Richardson J**, Kommadi B, Subbian V, Dehnbostel J, Shahin K, Robinson KA, Afzal M, Lehmann HP, Kunnamo I, Alper BS. Making Science Computable Using Evidence-Based Medicine on Fast Healthcare Interoperability Resources: Standards Development Project. J Med Internet Res. 2024 Jun 25;26:e54265. doi: 10.2196/54265. PMID: 38916936; PMCID: PMC11234056.

Strasberg HR, Jackson GP, Bakken SR, Boxwala A, **Richardson JE**, Morrow JD. Perspectives on the role of industry in informatics research and authorship. J Am Med Inform Assoc. 2024 Mar 26:ocae063. doi: 10.1093/jamia/ocae063. Epub ahead of print. PMID: 38531679.

Friedman CP, Lomotan EA, **Richardson JE**, Ridgeway JL. Socio-technical infrastructure for a learning health system. Learn Health Syst. 2024 Jan 16;8(1):e10405. doi: 10.1002/lrh2.10405. PMID: 38249851; PMCID: PMC10797563.

Smith JD, Norton WE, Mitchell SA, Cronin C, Hassett MJ, Ridgeway JL, Garcia SF, Osarogiagbon RU, Dizon DS, Austin JD, Battestilli W, **Richardson JE**, Tesch NK, Cella D, Cheville AL, DiMartino LD; IMPACT Consortium. The Longitudinal Implementation Strategy Tracking System (LISTS): feasibility, usability, and pilot testing of a novel method. Implement Sci Commun. 2023 Nov 28;4(1):153. doi: 10.1186/s43058-023-00529-w. PMID: 38017582; PMCID: PMC10683230.

Richardson, JE published in (2023), MCBK 2022 Lightning Round Abstracts. Learn Health Sys, 7: e10375. https://doi.org/10.1002/lrh2.10375

Soares A, Afshar M, Moesel C, Grasso MA, Pan E, Solomonides A, **Richardson JE**, Barone E, Lomotan EA, Schilling LM. Playing in the clinical decision support sandbox: tools and training for all. JAMIA Open. 2023 Jun 21;6(2):ooad038. doi: 10.1093/jamiaopen/ooad038. PMID: 37351012; PMCID: PMC10283349.

Dorr D, D'Autremont C, **Richardson JE**, Bobo M, Terndrup C, Dunne MJ, Cheng A, Rope R. Patient-Facing Clinical Decision Support for High Blood Pressure Control: Patient Survey. JMIR Cardio. 2023 Jan 23;7:e39490. doi: 10.2196/39490. PMID: 36689260; PMCID: PMC9903181.

Dorr DA, **Richardson JE**, Bobo M, D'Autremont C, Rope R, Dunne MJ, Kassakian SZ, Samal L. Provider Perspectives on Patient- and Provider-Facing High Blood Pressure Clinical Decision Support. Appl Clin Inform. 2022 Oct;13(5):1131-1140. doi: 10.1055/a-1926-0199. Epub 2022 Aug 17. PMID: 35977714; PMCID: PMC9713301.

Smith JD, Norton WE, Mitchell SA, Cronin C, Hassett MJ, Ridgeway JL, Garcia SF, Osarogiagbon RU, Dizon DS, Austin JD, Battestilli W, **Richardson JE**, Tesch NK, Cella D, Cheville AL, DiMartino LD; IMPACT Consortium. The Longitudinal Implementation Strategy Tracking System (LISTS): feasibility, usability, and pilot testing of a novel method. Implement Sci Commun. 2023 Nov 28;4(1):153. doi: 10.1186/s43058-023-00529-w. PMID: 38017582; PMCID: PMC10683230.

Platt JE, Solomonides AE, Walker PD, Amara PS, **Richardson JE**, Middleton B; Mobilizing Computable Biomedical Knowledge Trust and Policy Work Group. A survey of computable biomedical knowledge repositories. Learn Health Syst. 2022 Jun 3;7(1):e10314. doi: 10.1002/lrh2.10314. PMID: 36654807; PMCID: PMC9835044.

Richardson JE, Rasmussen LV, Dorr DA, Sirkin JT, Shelley D, Rivera A, Wu W, Cykert S, Cohen DJ, Kho AN. Generating and Reporting Electronic Clinical Quality Measures from Electronic Health Records: Strategies from EvidenceNOW Cooperatives. Appl Clin Inform. 2022 Mar;13(2):485-494. doi: 10.1055/s-0042-1748145. Epub 2022 May 4. PubMed PMID: 35508198; PubMed Central PMCID: PMC9068273.

Dorr DA, D'Autremont C, Pizzimenti C, Weiskopf N, Rope R, Kassakian S, **Richardson JE**, McClure R, Eisenberg F. Assessing Data Adequacy for High Blood Pressure Clinical Decision Support: A Quantitative Analysis. Appl Clin Inform. 2021 Aug;12(4):710-720. doi: 10.1055/s-0041-1732401. Epub 2021 Aug 4. PMID: 34348408; PMCID: PMC8354347.

Alper BS, **Richardson JE**, Lehmann HP, Subbian V. It is time for computable evidence synthesis: The COVID-19 Knowledge Accelerator initiative. J Am Med Inform Assoc. 2020 Aug 1;27(8):1338-1339. doi: 10.1093/jamia/ocaa114. PMID: 32442263; PMCID: PMC7313978.

Richardson JE, Middleton B, Platt JE, Blumenfeld BH. Building and maintaining trust in clinical decision support: Recommendations from the Patient-Centered CDS Learning Network. Learn Health Syst. 2019 Dec 11;4(2):e10208. doi: 10.1002/lrh2.10208. PMID: 32313835; PMCID: PMC7156865.

Ahmad FS, Rasmussen LV, Persell SD, **Richardson JE**, Liss DT, Kenly P, Chung I, French DD, Walunas TL, Schriever A, Kho AN. Challenges to electronic clinical quality measurement using third-party platforms in primary care practices: the healthy hearts in the heartland experience. JAMIA Open. 2019 Sep 20;2(4):423-428. doi: 10.1093/jamiaopen/ooz038. PMID: 32025638; PMCID: PMC6994020.

Marcial LH, **Richardson JE**, Lasater B, Middleton B, Osheroff JA, Kawamoto K, Ancker JS, van Leeuwen D, Lomotan EA, Al-Showk S, Blumenfeld BH. The Imperative for Patient-Centered Clinical Decision Support. EGEMS (Wash DC). 2018 May 30;6(1):12. doi: 10.5334/egems.259. PMID: 30094284; PMCID: PMC6078148.

Richardson JE, Lee JI, Nirenberg A, Reid MC. The Potential Role for Smartphones Among Older Adults with Chronic Noncancer Pain: A Qualitative Study. Pain Med. 2018 Jun 1;19(6):1132-1139. doi: 10.1093/pm/pnw284. PMID: 28108642; PMCID: PMC5998946.

Christner JG, Dallaghan GB, Briscoe G, Casey P, Fincher RM, Manfred LM, Margo KI, Muscarella P, **Richardson JE**, Safdieh J, Steiner BD. The Community Preceptor Crisis: Recruiting and Retaining Community-Based Faculty to Teach Medical Students-A Shared Perspective From the Alliance for Clinical Education. Teach Learn Med. 2016 Jul-Sep;28(3):329-36. doi: 10.1080/10401334.2016.1152899. Epub 2016 Apr 19. PMID: 27092852.

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Stribling JC, **Richardson JE**. Placing wireless tablets in clinical settings for patient education. J Med Libr Assoc. 2016 Apr;104(2):159-64. doi: 10.3163/1536-5050.104.2.013. PMID: 27076806; PMCID: PMC4816481.

Ancker JS, Brenner S, **Richardson JE**, Silver M, Kaushal R. Trends in public perceptions of electronic health records during early years of meaningful use. Am J Manag Care. 2015 Aug;21(8):e487-93. PMID: 26625503; PMCID: PMC5474313.

Bao Y, Eggman AA, **Richardson JE**, Sheeran TF, Bruce ML. Practices of Depression Care in Home Health Care: Home Health Clinician Perspectives. Psychiatr Serv. 2015 Dec 1;66(12):1365-8. doi: 10.1176/appi.ps.201400481. Epub 2015 Oct 1. PMID: 26423098; PMCID: PMC4666762.

Baradaran H, Mtui EE, **Richardson JE**, Delgado D, Gupta A. Hemispheric Differences in Leukoaraiosis in Patients with Carotid Artery Stenosis: A Systematic Review. Clin Neuroradiol. 2017 Mar;27(1):7-13. doi: 10.1007/s00062-015-0402-2. Epub 2015 Jun 11. PMID: 26063003.

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Hampton E, **Richardson JE**, Bostwick S, Ward MJ, Green C. The current and ideal state of mental health training: pediatric resident perspectives. Teach Learn Med. 2015;27(2):147-54. doi: 10.1080/10401334.2015.1011653. PMID: 25893936.

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Friedman C, Lomotan E, **Richardson JE**, Ridgeway J. *A 'Maturity Model' to Answer the Question: What is a Learning Health System? Infrastructure Pillar.* Presentation. AcademyHealth Research Meeting, June 2023.

Hoffman-Peterson A, Nong P, Ryan K, Platt JE, **Richardson JE**. *A narrative review of trustable AI to develop an AI-clinical decision support product information label.* Poster session presented at AMIA Informatics Summit. March 2023.

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Richardson, JE, Platt, J., Blumenfeld, B. H., & Middleton, B. (2018, December). *Evaluating trust among multiple stakeholders for sharing knowledge in a clinical decision support ecosystem: Policy recommendations.* Presented at the [1]1th Annual Conference on the Science of Dissemination and Implementation, Washington, DC.

Richardson, JE, Tedla, Y. G., Brown, T., Ciolino, J. D., Liss, D., Orhon, T., et al. (2018, June). *The impact of practice facilitation on cardiovascular preventive care in small and medium-sized primary care practices.* Presented at AcademyHealth, Seattle, WA.

Platt, J., **Richardson, JE**, & Middleton, B. (2018, July). *Workshop: Policy and coordination to ensure quality and trust in computable biomedical knowledge*. Presented at the Mobilizing Computable Biomedical Knowledge (MCBK) Working Meeting, Bethesda, MD.

Marcial LH, **Richardson JE** Working towards shareable and interoperable patient and clinician facing clinical decision support — Experiences from the field. AMIA 2018 Informatics Summit, San Francisco, CA, March 12, 2018.

Callaham, M., **Richardson, JE**, Marcial, L. H., & Blumenfeld, B. (2017). *Analytic framework for action (AFA): A patient-centered outcomes research (PCOR)-based clinical decision support (CDS) use case analysis*.

Marcial, L. H., **Richardson, JE**, Callaham, M., & Blumenfeld, B. (2017, May). *Development of a proposed analytical framework for action for PCOR-based CDS: Strengths and weaknesses.* Poster presented at AMIA iHealth 2017 Clinical Informatics Conference, Philadelphia, PA.

Richardson, JE, & Middleton, B. (2017, February). *Building nationwide capacity for PCOR-enabled CDS.* Presented at Health Information Management Systems Society (HIMSS) Annual Conference, Orlando, FL.

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Richardson, JE, Callaham, M., Haak Marcial, L., Greenes, R. A., Kawamoto, K., Middleton, B., et al. (2017, June). *The analytic framework for action: A novel framework for organizing efforts in patient-centered clinical decision support.* Presented at AcademyHealth, Health Information Technology Interest Group, New Orleans, LA.

West, S. L., Amoozegar, J. B., Ashok, M., **Richardson, JE**, & Blumenfeld, B. H. (2017). *Design of an evaluation for building data capacity for patient-centered outcomes research in HHS.* Poster session presented at 2017 annual report of HHS projects to build data capacity for patient-centered outcomes research.

Wald, J. S., **Richardson, JE**, Ashok, M., Webb, J. R., Blumenfeld, B. H., Ortiz, A. M., et al. (2016, November). *Planning a learning health system evaluation: The Multiple Sclerosis Partners Advancing Technology and Health Solutions (MS PATHS) initiative*. Poster presented at AMIA, Chicago, IL.

Webb, J. R., **Richardson, JE**, Ashok, M., Blumenfeld, B. H., & Wald, J. S. (2016, November). *Finding evaluation frameworks for complex health IT implementations*. Poster presented at AMIA, Chicago, IL.

Bouquin, D., **Richardson, JE**, & Johnson, S. B. (2015, April). *Developing an instrument for rapid assessment of data literacy in biomedical research*. Poster presented at Research Data Access & Preservation Summit, Chicago, IL.

Grinspan, Z. E., & **Richardson, JE** (2015, April). *NIH and AHRQ transition to the new biosketch format: Tips and tools for the WCMC research community*. Presented at the Department of Healthcare Policy and Research Faculty Workshop, New York, NY.

Blezin, F., Ponticello, L., Quinn, H., **Richardson, JE**, & Stribling, J. (2014, December). *Designing and assessing digital patient education materials in an outpatient epilepsy practice setting*. Poster presented at annual meeting of the American Epilepsy Society, Seattle, WA.

Richardson, JE, Ancker, J. S., & Silver, M. (2014, November). *Patient perspectives of mobile phones' effects on healthcare quality and medical data security and privacy: A nationwide survey.* Poster presented at AMIA annual symposium, Washington, DC.

Richardson, JE, Albert, P. A., Piazza, A., & Delgado, D. (2014, May). *Evaluating the usability of systematic review software tools*. Abstract presented at the Medical Library Association 2014 annual meeting, Chicago, IL.

Richardson, JE, Bouquin, D., Brown-Epstein, H. A., Merlo, L. A., Tmanova, L., & Wright, D. (2014, May). *Surveying information and informatics literacy of first-year medical students*. Poster presented at Medical Library Association 2014 annual meeting, Chicago, IL.

Richardson, JE, Vest, J. R., Abramson, E. L., Pfoh, E. R., & Kaushal, R. (2013, November). *Evaluating the nature of health information technology client-vendor relationships.* Poster presented at AMIA annual symposium, Washington, DC.

Bao, Y., Eggman, A., **Richardson, JE**, & Bruce, M. (2013, June). *Misalignment between Medicare policies and depression care in home health care: Home health provider perspectives*. Poster presented at Academy Health, Baltimore, MD.

Abramson, E. L., & **Richardson, JE** (2013, May). *Introduction to qualitative research: Concepts and methods.* Presented at Pediatric Academic Societies Meeting, Washington, DC.

Parker, S. J., Jessel, S., **Richardson, JE**, & Reid, M. C. (2013, May). *Older adults are mobile too! Identifying the barriers and facilitators to older adults' use of mHealth for pain management.* Poster presented to the annual scientific meeting of the American Geriatrics Society, Grapevine, TX.

Richardson, JE, & Abramson, E. L. (2013, March). *Introduction to qualitative research: Concepts and methods.* Presented at the American Pediatric Association/Association of Pediatric Program Directors Fellows Core Curriculum Conference, New York, NY.

Richardson, JE, Abramson, E. L., Pfoh, E. R., & Kaushal, R. (2012, November). *Physician perceptions of community-based EHR implementations.* Poster presented at AMIA annual symposium, Chicago, IL.

Richardson, JE, Fox, H., Thaler, M. F., Fortin, G., & Compton, A. (Discussant). (2012, November). *Leveraging health information exchange to address inter-facility patient transfers.* Presented at the AMIA Annual Symposium, Chicago, IL.

Kern, L. M., Ancker, J. S., **Richardson, JE**, & Vest, J. R. (2012, October). *Using health information technology and health information exchange to transform health care: New York State's lessons learned.* Presented at the NYeC Digital Health Conference, New York, NY.

Richardson, JE, & Reid, M. C. (2012, September). *Can mobile devices improve communication and care coordination for older patients with chronic pain? A needs assessment.* Abstract presented at the 2012 Medicine 2.0 Congress, Boston, MA.

Kern, L. M., Ancker, J. S., **Richardson, JE**, & Vest, J. R. (2012, July). *Using health information technology and health information exchange to transform health care: New York State's lessons learned.* Presented at Panel, Opportunities for TCII in Medical Devices and Mobile Health, Technion-Cornell Healthier Life Workshop, New York, NY.

Kern, L. M., Ancker, J. S., **Richardson, JE**, & Vest, J. R. (Discussant). (2012, July). *Opportunities for TCII in Medical Devices and Mobile Health.* Presented at the Technion-Cornell Healthier Life Workshop, New York, NY.

Pfoh, E. R., Abramson, E. L., **Richardson, JE**, & Kaushal, R. (2012, June). *Factors in relationships between community grantees and electronic health record vendors in support of implementations.* Poster presented at Academy Health annual research meeting, Orlando, FL.

Richardson, JE, & Abramson, E. L. (2012, June). *Scientific inquiry and QI: Walking "the fuzzy line."* Presented at the New York-Presbyterian Hospital Quality Improvement and Patient Safety Committee, New York, NY.

Lee, J. I., Pickering, S., Cutugno, C., Press, M., Unterbrink, K. M. E., **Richardson, JE**, & Evans, A. T. (2012, January). *Identifying preventable readmissions: An interdisciplinary approach to building a conceptual model.* Poster presented at Society for Hospital Medicine, San Diego, CA.

Richardson, JE, Shah-Hosseini, S., Fiadjoe, JE, Ash, J. S., & Rehman, M. A. (2011, October). *Clinical communication preferences in an operating room suite: A proposed information-communication technology framework*. Abstract presented at Isabel 2011: 4th International Symposium on Applied Sciences in Biomedical and Communication Technologies, Barcelona, Spain.

Richardson, JE, & Ash, J. S. (2011, October). *Using clinical decision support to foster collaborations: the views of community-based physicians*. Poster presented at AMIA annual symposium, Washington, DC.

Gorman, P., **Richardson, JE**, Russ, A., Militello, L. G., & Xiao, Y. (2010, September). *Supporting cognition and decision making in clinical work*. Presented at the Human Factors and Ergonomics (HFES) Annual Meeting Panel, San Francisco, CA.

Richardson, JE, & Ash, J. S. (2010, June). *NUDGES: Using a choice architecture to analyze clinical decision-making.* Poster presented at NLM Informatics Training Conference, Aurora, CO.

Richardson, JE, Ash, J. S., Sittig, D. F., & et al. (2009, October). *The meaning of computerized clinical decision support: aligning clinician needs and system design*. Presented at the OHSU Doctoral Symposium, Portland, OR.

Richardson, JE, Shah-Hosseini, S., Fiadjoe, JE, & Ash, J. S. (2009, May).*The impact of a hands-free communication device system on anesthesiology staff in an operating room (OR) setting*. Presented at the OHSU Student Research Forum, Portland, OR.

Singh, S. S., **Richardson, JE**, Rehman, M., Pasquariello, C., & Shah-Hosseini, S. (2009, January). *Reliability of Vocera™ communications devices in the operating room environment.* Poster presented at Children's Hospital of Philadelphia, Philadelphia, PA.

Richardson, JE, & Ash, J. S. (2008, May). *The effects of hands-free communication devices on clinical communication: Communication changes among nurses, nurse managers, and information technology staff*. Presented at the OHSU Student Research Forum, Portland, OR.

Richardson, JE, & Ash, J. S. (2007, July). *The effects of hands-free communication devices on clinical communication: Communication changes among nurses, nurse managers, and information technology staff*. Presented at the NLM Informatics Training Conference, Palo Alto, CA.

Richardson, JE, & Ash, J. S. (2007, July). *The effects of hands free communication devices on clinical communication: communication changes among nurses, nurse managers, and information technology staff*. Industry presentation at Vocera, Inc., Cupertino, CA.

Richardson, JE (2007, March). *Survey of bioinformatics needs among OHSU patrons*. Presented at the OHSU Library, Portland, OR.

Richardson, JE (2006, July). *Mobile technologies in the library*. Presented at the OHSU Library, Portland, OR.

Richardson, JE (2004, May). *Special Libraries Association careers in librarianship panel*. Presented at the University of California, Berkeley, CA.

Richardson JE (2003, March). *Careers in librarianship panel*. Presented at the San Jose State University School of Library and Information Science, San Jose, CA.

Technical Reports

Richardson, JE, Horvath, M., Esenstad, A. T., Constantine, R. T., Zuckerbraun, S. M., Derecho, A., Bagwell, JE, Estrada, L., Renaud, J. M., Dean, L., Halfan, E., Rulo, T., Bartleman, C., Ingham, S., Gulledge, M., Bailey, R. F., Beadles, C. A. & Dougherty, M. PCF measure summary and performance report: 2022 measurement period. Nov 24 2023, U.S. Centers for Medicare & Medicaid Services. 100 p.

Richardson, JE, Lamb, C., Esenstad, A. T., Booth, G. M., Kerr, E., Sapra, T., Constantine, R. T., Zuckerbraun, S. M., Derecho, A., Bagwell, JE, Estrada, L., Renaud, J. M., Lasater, B. M., Dean, L., Halfan, E., Rulo, T., Bartleman, C., Ingham, S., Anis, A., Shrestha, M., & 6 others…Gulledge, M., Bailey, R. F., McArdle, J. A., Menon, N., Beadles, C. A. & Dougherty, M. CPC+ measure summary and performance report: 2021 measurement period. Oct 28 2022, U.S. Centers for Medicare & Medicaid Services. 93 p.

Lamb, C., **Richardson JE**, Booth, G. M., Kerr, E., Katz, C. L., Erickson, L. K., Sapra, T., Constantine, R. T., Zuckerbraun, S. M., Derecho, A., Bagwell, JE, Estrada, L., Renaud, J. M., Lasater, B. M., Dean, L., Halfan, E., Rulo, T., Bartleman, C., Ingham, S., Anis, A., & 6 others…Shrestha, M., Gulledge, M., Bailey, R. F., Menon, N., Beadles, C. A. & Dougherty, M. PCF measure summary and performance report: Performance year 2021. Oct 28 2022, U.S. Department of Health and Human Services. 43 p.

Meador, A. E., **Richardson JE**, McGavin, R., Tyndall, B., Renaud, J. M., Quattrone, W., Beadles, C. A. & Dougherty, M. Health equity in patterns of CPC+ care delivery and quality performance. Sep 26 2022, U.S. Centers for Medicare & Medicaid Services. 33 p.

Dougherty, M., McGavin, R., **Richardson JE**, Wines, R. C. & Horvath, M. LTPAC health IT landscape analysis: Health information technology adoption and utilization in long-term and post-acute care settings. Apr 27 2022, 43 p.

Theis E, Sotolongo S, **Richardson JE**, Gibbons BJ, Fehlberg EA. Summary of Consultation with Stakeholders: Final Report. Washington, DC: Office of the Assistant Secretary for Planning and Evaluation (ASPE); 2021 Apr p. 21.

Sotolongo S, Theis E, **Richardson JE**, Gibbons BJ, Fehlberg EA, Edlund MJ. Environmental Scan of Pain Management Guidance and Screening Tools: Final Report. Washington, DC: Office of the Assistant Secretary for Planning and Evaluation (ASPE); 2021 Jun p. 37.

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Middleton, B., Platt, J., **Richardson JE**, & Blumenfeld, B. H. (2018). *Recommendations for building and maintaining trust in clinical decision support knowledge artifacts*. Patient-Centered Clinical Decision Support Learning Network.

Amoozegar, J., Blumenfeld, B., Brown, S., Ortiz, A., Renaud, J., **Richardson JE**, & West, S. (2017, December). *Building data capacity for patient-centered outcomes research in HHS: A formative evaluation of 2012-2016 projects*. Prepared for Division of Healthcare Quality and Outcomes Office of Health Policy/ASPE/HHS.

Wald, J. S., Ashok, M., **Richardson, JE.**, Blumenfeld, B. H., Bailey, R. F., Webb, J. R., Ebron, S. C., & Ortiz, A. M. (2016, October). *The multiple sclerosis partners advancing treatment and healthcare solutions (MS PATHS) demonstration project: program evaluation plan*. Prepared for Biogen.

Richardson, JE, Middleton, B., Osheroff, J. A., Callaham, M., Haak Marcial, L., & Blumenfeld, B. H. (2016, June). *The PCOR CDS-LN environmental scan: Spurring action by identifying barriers and facilitators to the dissemination of PCOR through PCOR-based clinical decision support.* Prepared for the Patient-Centered Clinical Decision Support Learning Network. Retrieved from https://pccds-ln.org/sites/default/files/2016-11/PCOR%20CDS-LN_Environmental%20Scan%20Report_2016-11-04.pdf

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Curtin, L., Herzog, J., **Richardson, J.**, Prabhakaran Nair Sheelakumari, L., & Steltenpohl, C. N. (2025). Best Practices for Data Submission in Generalist Repositories: A Checklist. Zenodo. https://doi.org/10.5281/zenodo.14278907

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Richardson, JE (2020) quoted in, *RTI International and Rush University Partner to Fund Global and Local COVID-19 Response Projects as Part of New Research Initiative.* https://www.rti.org/news/rti-and-rush-university-partner-fund-global-and-local-covid-19-response-projects

Weinick, R., & **Richardson, JE** (2017). *The storytelling superhero: Making research stick for decision makers*. Web publication/blog, Retrieved from: http://www.academyhealth.org/blog/2017-10/storytelling-superhero

Richardson, JE (2005). Can't Afford a Database Application? MS Access Works Well in Smaller Organizations. Information Outlook. Jan;9(1):35-37. Retrieved from: https://scholarworks.sjsu.edu/cgi/viewcontent.cgi?article=1000&context=sla_io_2005

Seminars and Courses Taught

Mobilizing Computable Biomedical Knowledge (MCBK) Online Pilot Class: Knowledge Bases and Repositories (Director: Dr. Deborah Swain), Wednesday, Dec. 22, 2021

Systematic review strategies, Department of Medicine Resident research intensive course, 2014, 2015

WCMC Essential Principles of Medicine (Directors: Dr. Erika Abramson, Dr. Tara Bishop, Dr. Nathaniel Hupert), 2014, 2015

Evidence-Based Medicine: Surgery, 2013, 2015

Using Electronic Clinical Data for Research, 2013, 2015

Global Health Evidence-based Medicine (Director: Dr. Madelon Finkel), 2013, 2015

Evidence-Based Medicine: Pediatric Clerkship, 2013, 2015

Evidence-Based Medicine: Neurology Clerkship, 2013, 2015

Health Information Exchange, Privacy & Security, 2013, 2015

Health Information Technology & Quality, 2012, 2015

Foundations of Clinical Research: Introduction to Qualitative Research: Concepts and Methods, 2011, 2015

Addressing Mobile Health Technology with CER, 2012

Healthcare Reform Series at Cayuga Medical Center: Health Information Technology: Promises, Pitfalls, and Questions, 2012

Healthcare Quality and Safety, 2009

Organizational Behavior, 2009

Special Courses Taught

mHealth Technology to Improve Medication Adherence Measurement and Intervention Research, September 2015. The goal of the workshop was to identify scientific questions and knowledge gaps in using mobile technologies to improve adherence measurement and behavior.

Course Director, Health Information Exchange, 2012 to 2015. Led master's- and certificate-level instruction in the vocabulary standards and interoperability issues to achieving data exchange across health care settings.

Teaching Evidence Assimilation for Collaborative Healthcare (TEACH): Implementing Evidence-based Medicine into Health Care, August 2014. The TEACH program is for physicians, nurses, pharmacists, administrators, librarians, and other health care professionals. It uses small group learning supplemented by plenary sessions. Attendees may enroll in one of three levels.

Systematic Review Workshop: The Nuts and Bolts for Librarians, August 2013. This course provided a comprehensive framework and discussion of the librarian's role in the systematic review process, with special emphasis on successful completion of the literature search.