Columbia University Irving Medical Center
Curriculum Vitae

1. Date of preparation of CV: October 2, 2026

2. Personal data

- **Name:** Sarah Collins Rossetti **(née Sarah Anne Collins as of 2019)**
- **Contact Information:**
  - Office Address: 622 West 168th Street, PH20-313, New York, NY 10032
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  - Work Email: sac2125@CUMC.columbia.edu
  - Place of Birth: Boston, MA

3. Academic Appointments, Hospital Appointments, and Other Work Experience:

Faculty Academic Appointments

07/22-present Associate Professor with Tenure, Biomedical Informatics and Nursing, Department of Biomedical Informatics and School of Nursing, Columbia University Medical Center (CUIMC), New York, NY

06/21-present Affiliate, Data Science Institute, Columbia University

02/18-6/22 Assistant Professor, Biomedical Informatics and Nursing, Department of Biomedical Informatics and School of Nursing, Columbia University Medical Center, New York, NY

12/11-02/18 Instructor, Medicine, Harvard Medical School (HMS), Boston, MA

Appointments at Hospitals/Affiliated Institutions

02/18-present Clinical Informatician Information Services Department, NewYork-Presbyterian Health System

06/15-02/18 Senior Clinical and Nurse Informatician, Clinical Informatics, Partners eCare PHS

12/11-02/18 Associate Bioinformaticist, Department of Medicine, Division of General Internal Medicine and Primary Care, Brigham and Women's Hospital (BWH), Boston, MA

07/11-05/15 Clinical and Nurse Informatician, Clinical Informatics Research and Development Department, Partners Healthcare Systems (PHS), Wellesley, MA

07/05-09/10 Per-diem Float Nurse, Critical Care Units, NewYork-Presbyterian/Columbia University Medical Center (NYP-CUIMC), New York, NY

04/05-06/05 Full time Float Nurse, (3-month contract), Critical Care Units, Scripps Memorial Hospital, La Jolla, CA

08/03-03/05 Full time Staff Nurse, Coronary Care Unit, Massachusetts General Hospital (MGH), Boston, MA

Other Professional Positions

4/2006-8/2010 Instructor for Nursing Licensure Exam, Kaplan Test Preparation, New York, NY

4. Education:

9/2005 – 7/2009 PhD, Nursing Informatics, Columbia, University, New York, NY
Thesis Title: Informatics Methods to Understand Interdisciplinary Communication Related to Common Goals in the Intensive Care Unit

Advisor: Dr. Leanne Currie
Citation of Publication: Collins, S. A. (2009). Informatics methods to understand interdisciplinary communication related to common goals in the intensive care unit (Order No. 3386136). Available from Dissertations & Theses @ Columbia University; ProQuest Central; ProQuest Dissertations & Theses Global. (304864453). Retrieved from http://ezproxy.cul.columbia.edu/login?url=https://search.proquest.com/docview/304864453?accountid=10226

9/1999 - 5/2003 BSN, Nursing, Minor: Health Care Management, University of Pennsylvania, Philadelphia, PA

5. Training:

9/2009-7/2011 Postdoctoral Research Fellow, Biomedical Informatics, Columbia University
Advisor: Dr. David Vawdrey

6. Explanation of any gaps in work/training/education:

Not Applicable

7. Licensure and Board Certification, as applicable:

Categories:

- **Licensure**

Registered Professional Nursing, New York State, License No: 563059, Date of Licensure: 07/20/2005
Registered Professional Nursing, Massachusetts, License No: RN256275, Date of Licensure: 06/30/2003

- **Other Certifications**

2003 Critical Care New Graduate Nursing Certificate Program, MGH-IHP, Boston, MA
2015-present EpicCare(c) Clinical Systems Inpatient Clinical Documentation Application Certification

8. Honors & Awards:

2026 International Nurse Researcher Hall of Fame Honoree, Sigma Theta Tau
2024 Award Co-recipient, AMIA Donald A.B. Lindberg Award for Innovation in Informatics
2023 Award Recipient, AMIA Leadership Award
2023 Inducted as Fellow, International Academy of Health Sciences Informatics (IAHSI)
2022 Award Recipient, 2022 Rita D Zielstorff Nursing Informatics Leadership Award, New England Nursing Informatics Consortium
2020 Award Recipient, AMIA Don Eugene Detmer Award for Health Policy Contribution in Informatics
2020 Inducted as Fellow, Fellow of the American Academy of Nursing
2019 Award Recipient, 2019 Presidential Early Career Award for Scientists and Engineers (PECASE).
The PECASE is the highest honor bestowed by the United States Government to outstanding scientists and engineers who are beginning their independent research careers and who show exceptional promise for leadership in science and technology.

2019 Award Recipient, 2019 Distinguished Alumni Award for Nursing Research, Columbia University School of Nursing
2018 Award Recipient, AMIA Leadership Award
2018 Inducted as Fellow, Fellow of American Medical Informatics Association (FAMIA)
2018 Inducted as Fellow, Fellow of American Medical College of Informatics (FACMI)
2017 40 Under 40 Healthcare Innovator, Award Recipient, MedTech Boston
2015 Care Coordination for Improved Outcomes Challenge 2nd Place team for CAREDINATOR Application, Veterans Administration (VA) Developers Challenge
2013 Recent Alumni Award for Clinical Excellence, University of Pennsylvania School of Nursing
2013 Selected for Brigham and Women's Hospital (BWH) Research Leadership Program, Research Leadership Program, Office for Research Careers, Center for Faculty Development & Diversity, BWH
2012 Selected Emerging Leader, Project title: Conceptual Framework for Hospital Governance to Advance Nursing Informatics and Innovation, Alliance for Nursing Informatics (ANI)
2010 NIH Clinical Loan Repayment Program Recipient, funded by National Library of Medicine. Project title: Data Mining Acute Surveillance Knowledge to Extract and Display
2010 Continuing Professional Development Scholarship, American Association of Critical Care Nurses (AACN)
2009 Dissertation Grant, Project title: Informatics Methods to Understand Interdisciplinary Communication Related to Common Goals in the Intensive Care Unit, Sigma Theta Tau International Nursing Honor Society
2008 Alumni Scholarship, Columbia University School of Nursing

9. Administrative Leadership and Academic Service:

- **Academic Service**

Local

2025-present Interdepartmental Training Committee (ITC) for the Biomedical Informatics PhD Program, CUIMC
2025-present Executive Committee of the Faculty council at CUIMC
2025-present AI Healthcare Columbia+ Curriculum, CUIMC
2025-present AI Initiative at CUIMC
2025 Irving Institute Grant Reviewer, CUIMC
2024 Coordinator and presenter, VP&S AI Workshop Series: From idea to deployment to making a difference, Dec 17th 2025, CUIMC
2024 CUIMC Faculty Promotion Reviewer, 2 candidates
2021 Steering Committee Member, Data Science in Health Steering Committee, Data Science Institute, Columbia University
2016 Chair, Partners eCare Subject Matter Expert Panel for Lung Assessment Documentation Recommendations, Partners Healthcare System
2015 Chair, Partners eCare Subject Matter Expert Panel for Pain Documentation Recommendations, Partners Healthcare System
2015 Chair, Partners eCare Subject Matter Expert Panel for Skin Alteration Documentation Recommendations, Partners Healthcare System

2013-2015 Clinical Informatics Representative, Partners eCare Clinical Content Committee, Partners Healthcare System
2013-2015 Clinical Informatics Representative, Partners eCare Nursing Informatics Advisory Committee (NIAC), Partners Healthcare System
2002-2003 Student Representative, Student-Faculty Undergraduate Education Committee, University of Pennsylvania

Regional

2015 Invited Member, Health Information Technology Taxonomy Advisory Committee, CRICO Patient Safety and Quality, Cambridge, MA

National

2024 Faculty Promotion review, Johns Hopkins University
2024 Faculty Promotion review, University of Utah
2022-present Chair, 25 by 5 Task Force to Reduce Documentation Burden, American Medical Informatics Association (AMIA)
2021 Co-Chair, 25 By 5: Symposium to Reduce Documentation Burden on U.S. Clinicians by 75% by 2025, National Library of Medicine
2021-present Co-Chair, National COVID Cohort Collaborative (N3C) Nursing Workgroup
2018 Co-Chair, Fellows of AMIA (FAMIA) Inaugural Review Committee, American Medical Informatics Association (AMIA)
2016-present Member, Clinical Data Analytics Workgroup, Nursing Big Data Consortium
2015-2017 Invited Member, Summer Institute in Nursing Informatics, 2016-2017 Planning Committee, University of Maryland School of Nursing, Baltimore, MD
2015-2016 Co-Chair, Acute Care Patient Portals 2020 Convening, Gordon and Betty Moore Foundation

International

2016 Invited Member, Post-conference Workgoup, 13th International Congress on Nursing Informatics

- **Administrative Leadership at CUIMC and NYP**

2025 Tri-Institutional Acute Care Artificial Intelligence Models (ACAM) Working Group
2024-present VP&S AI Clinical Strategy Committee, CUIMC
2019-present Tri-Institutional Research, Technology, and Academic Committee (RTAC) committee member, Clinical IT Shared Services
2019-present Alignment Committee on Oversight of Requests for Data (ACORD) Member, NewYork Presbyterian
2019-present Tri-Institutional Request Assessment Committee (TRAC) Member, NewYork Presbyterian
2019-present NYP Research Liaison, NewYork Presbyterian
2018-2023 Clinical Informatics representative, NewYork Presbyterian CLIQ Committee
2018-2023 Clinical Informatics representative, NewYork Consortium EpicTogether Project Clinical Decision Support Governance Committee
2018-2023 Clinical Informatics representative, NewYork Presbyterian Problems Allergies Medications Immunizations (PAMI) Workgroup

2018-2023 Clinical Informatics representative, NewYork Consortium EpicTogether Project Clinical Leadership Groups (Hospitalist, Critical Care, Genetics, Nursing)
2018-2023 Clinical Informatics representative, NewYork Consortium EpicTogether Project Academic Committee Education Workgroup
2018-2023 Clinical Informatics representative, NewYork Consortium EpicTogether Project Sepsis and Patient Deterioration Index Workgroup
2018-2023 Clinical Informatics representative, NewYork Consortium EpicTogether Project Quality and Patient Safety Organization Readiness Workgroup
2018-present Member, NewYork Presbyterian Nursing Informatics Committee
2018-present Clinical Informatics representative, Columbia Doctors, CMIO Medical Directors Meeting
2018-2019 Co-chair, Columbia School of Nursing, Alumni Day Poster Session
2009-2011 Clinical Informatics Representative, Cardiac Arrest and Rapid Response Committee, NewYork Presbyterian-CUIMC

- **Administrative Leadership at Brigham and Women's Hospital and Partners Healthcare System (2011-2018)**

2014-2017 Chair, Structured Clinical Data Elements Work Group, Partners Healthcare System
2013-2017 Chair, Nursing Informatics Advisory Committee Clinical Decision Support Work Group, Partners Healthcare System

10. Professional Organizations and Societies:

- **Memberships and Positions**

Regional

2012-2018 Organization for Nursing Leaders Massachusetts and Rhode Island
Member, Management of Practice IT Subcommittee Informatics Representative
2011-present New England Nursing Informatics Consortium (NENIC)

National

2011-present Health Information Management Systems Society (HIMSS)
2011-present Alliance for Nursing Informatics (ANI)
2015-2019 Policy Coordinator (appointed role), Steering Committee Member
2014 Emerging Leader Selection Committee
2011-2013 Emerging Leader
2005-present American Medical Informatics Association (AMIA)
2022-present Chair, AMIA 25 x 5 Task Force to Reduce Documentation Burden
2019 Invited Member, AMIA 2019 Clinical Informatics Conference Planning Committee
2018 FAMIA Eligibility Criteria Advisory Group
2018 AMIA Health Informatics (HI) Practice Analysis (PA) Oversight Panel, Liaison to the PA Subject Matter Expert Task Force (SME TF)
2017-2020 Board of Directors
2017 Invited Member, AMIA 2017 Policy Invitational Planning Committee
2016-2017 Member at Large, AMIA Nursing Informatics Working Group Member at Large

2016	Invited Member, AMIA 2016 Annual Symposium Scientific Program Committee
2016	AMIA Nursing Informatics Workgroup Tutorial Co-chair, Designing Next Generation of Clinical Decision Support for Nursing from Hospital to Homecare
2016	AMIA Nursing Informatics Special Event 2016 Pre-Symposia Co-chair
2015	Invited Member, iHealth Conference 2015 Planning Committee
2014-2018	Invited Member, AMIA Awards Selection Committee
2014-2018	Invited Member, AMIA Clinical Informatics Board Review Course Item Writer
2005-present	Member, AMIA Nursing Informatics Working Group
2004-present	American Association of Critical Care Nurses (AACN)

International

2013-present	International Medical Informatics Association (IMIA), Social and Organizational Working Group, Member
2002-present	Sigma Theta Tau International Nursing Honor Society

- **Journal Reviewer**

Journal of the American Medical Informatics Association (JAMIA); Journal of Biomedical Informatics (JBI); BMC Medical Informatics and Decision Making; Applied Clinical Informatics (ACI); CIN: Computers, Informatics, Nursing; American Journal of Critical Care (AJCC); Critical Care Nurse (CCN); Canadian Journal of Nursing Leadership; International Journal Medical Informatics

Other Reviewer Roles

2012-present	Reviewer, International Nursing Informatics (NI) Biannual Symposium Proceedings
2010-present	Reviewer, Studies in Health Technology and Informatics (MEDInfo Proceedings)
2009-present	Reviewer, AMIA Annual Fall Symposium Proceedings

- **Editorial Board**

2025-2026	Guest Associate Editor, Focus Issue on Interdisciplinary Development and Application of Computational Methods in Informatics for Clinical Application, JAMIA
2021-present	Editorial Board, Journal of Biomedical Informatics (JBI)
2018-2025	Associate Editor, Applied Clinical Informatics (ACI) Open
2018-present	Editorial Board, JAMIA Open
2014-2018	Editorial Board, Journal of Medical Internet Research (JMIR) Medical Informatics

- **Grant Review Activities**

2026	Health Services: Quality and Effectiveness Study Section, Ad hoc
2026	SBIR/STTR Small Business: Health Services and Systems B Study Section
2025	NIH Special Emphasis Review Panel, National Heart, Lung, and Blood institute
2025-present	American Nurses Foundation

2023-present	Swiss National Science Foundation (SNSF), Spark Funding Section, Grant Reviewer, Ad hoc
2021	Career Development (K), Conference Support (R13), and Research Education (R25) Review Study Section, National Institutes of Health, Ad hoc member
2020-2023	AHRQ Health Information Technology Research (HITR) Study Section, Appointed Member
2020	Special Emphasis Review Panel, Leveraging Health Information Technology (Health IT) to Address Minority Health and Health Disparities, National Institutes of Health, Ad hoc member
2019	Special Emphasis Review Panel, Diagnostic Safety, Agency for Healthcare Research and Quality (AHRQ), Ad hoc member
2018	Biomedical Computing and Health Informatics (BCHI) Study Section, National Institutes of Health, Ad hoc member
2016	Special Emphasis Review Panel, Innovative Technologies in Cancer Research, NIH National Cancer Institute, Ad hoc member
2015	Clinical Informatics Small Business Innovation Research (SBIR) Grant Review Panel, National Institute of Health (NIH), Ad hoc member
2012, 2013	Information and Intelligent Systems Division grant review panel, National Science Foundation (NSF), Ad hoc member

11. Fellowship and Grant Support:

Categories:

- **Active Research Funding**

3/1/2026-3/1/2027	*LISTEN (Leveraging Innovation in Simulation To Enhance Nursing Documentation)* Columbia Center for Community Engaged Health Informatics and Data (CCHIDS) Award Number: NA MPI: Turchioe (contact), Rossetti Direct Support Funds: $17,000 This grant will systematically collect and annotate audiovisual recordings from simulation scenarios, design novel high-acuity scenarios to evaluate ambient AI feasibility, and examine nurses' perspectives on acceptability and implementation considerations.
6/1/2025 - 5/31/2027	CONCERN 3.0: Optimization of Pediatric CONCERN EWS to non-AMC settings American Nurses Foundation Award Number: NA MPI: Rossetti (contact) (Other MPI: Cato) Direct Support Funds: $499,984 This proposal will optimize the pediatric version of the Early Warning Score to meet the documentation patterns and models of care for non-academic, community-based pediatric hospitals.

9/13/2024 - 9/13/2027	Scalable, Shareable, and Computable Clinical Knowledge for AI-Based Processing of Hospital-Based Nursing Data (SC2K) Office of the National Coordinator (ONC) for Health IT 90AX0042 PI: Rossetti Direct Support Funds: $783,341 This proposal aims to harness nursing knowledge in a systematic way and to better capture the nuances of nursing data, leading to more comprehensive, accurate, and transparent algorithms. Closing the gap between clinical practice and data analytics, will also ensure that algorithms and technological solutions are relevant, practical, and beneficial to nursing workflows.
4/25/2023 - 1/31/2027	Communicating Narrative Concerns Entered by RNs (CONCERN) National Institute of Nursing Research (NINR) 2R01NR016941-10 MPI: Rossetti (contact) (Other MPI: Cato) Direct Support Funds: $2,520,813 This renewal R01 study will evaluate the implementation of the CONCERN predictive model and clinical decision support across 5 geographically diverse health systems and expand CONCERN to new specialty areas, emergency department and inpatient pediatrics. This project includes a particular focus on incorporating social determinants of health into the CONCERN model and will also explore approaches to engaging caregivers (e.g., parents, guardians) directly in the use of CONCERN in the inpatient pediatric setting.
4/1/2022 - 3/31/2027	Essential Nurse Documentation: Studying EHR Burden during COVID-19 (ENDBurden) Agency for Healthcare Quality and Research (AHRQ) 1HS028454-01A1 MPI: Rossetti (contact) (Other MPI: Yen) Direct Support Funds: $1,219,365 This study will examine changes in documentation patterns before during and after waves of COVID-19 surges to learn about nurses' decisions, practice, and documentation from a data science and informatics perspective, and discover which documentation (i.e. types, amount, and pattern) is deemed essential by nurses to support patient care, and examine its moderating effect between patient care and outcomes.
9/8/2022 - 8/31/2027	Modeling informatics data to track maternal risk and care quality Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) R01HD104943

	MPI: Friedman (contact), Rossetti Direct Support Funds: $2,338,008 The overarching goal of this project is to leverage EHR data to determine to what degree recommended safety practices and clinical management for hypertension, obstetric hemorrhage, sepsis, frankly abnormal vital signs are associated with decreased risk for a major complication or death (failure to rescue).
09/19/2022 - 06/30/2027	RESCUE: Rare Disease Detection and Escalation Support via a Learning Health System National Human Genome Research Institute (NHGRI) R01HG012655 Co-Investigator: Rossetti (PI: Liu) Direct Support Funds: $2,844,530. No separate allocation to candidate. This proposal aims to leverage cutting-edge biomedical informatics and data science methodology to develop, validate and demonstrate the clinical utility of an EHR-driven SMART-on-FHIR based rare diseases clinical decision support system.
9/21/2022 - 9/20/2027	EnCoRe MoMS: Engaging Communities to Reduce Morbidity from Maternal Sepsis National Institutes of Health (NIH) UG3HD111247 Co-Investigator: Rossetti (PIs: Reddy, Friedman, Goffman, Hall) Direct Support Funds: $2,398,028 This project will leverage multi-sector community partnerships to develop, implement, and evaluate a community-informed institutional maternal sepsis bundle; develop algorithms to optimize prediction of sepsis around delivery and postpartum; and conduct a co-design process and qualitative study to explore the experiences, needs, and perceived solutions for maternal care continuity, sepsis risk prevention, and promotion of equity postpartum.
2/1/2022 - 10/31/2026	CONCERN Implementation Toolkit: Advancing technology-enabled nursing expertise and equitable predictions American Nurses Foundation (ANF), The Reimagining Nursing Initiative MPI: Rossetti (Other MPI: Cato) Sponsor grant number: N/A Direct Support Funds: $1,343,331 (Columbia directs exclusive of subaward directs: $418,471) This 3-year study will develop and validate the CONCERN implementation toolkit and spread the CONCERN clinical decision support tool to 7 other hospitals with diverse patient and nurse

populations. We will also evaluate for biases in EHR data that impact the equitable use of the CONCERN implementation and develop scalable solutions to mitigate those biases. Evaluation metrics are based on the RE-AIM framework and will guide the optimization of the toolkit, cost-benefit analyses, and opportunity for further spread.

- **Past Support**

2025-2026 CONCERN Early Warning Score Economic Analysis
CUIMC Research Stabilization Funds
Award Number: NA
PI: Rossetti
Direct Support Funds: $98,525
This study will evaluate the economic impact of the CONCERN Early Warning Score when used in the hospital setting and is in collaboration with Columbia University's Business School.

2020 - 2024 Homecare-CONCERN: Building risk models for preventable hospitalizations and emergency department visits in homecare
Agency for Healthcare Research and Quality (AHRQ)
5R01HS027742-02
Role: Co-investigator (PI: Topaz)
Direct Support Funds: $102,220 for Columbia subaward. No separate allocation to candidate.
In our pilot work, our team developed a natural language processing (NLP)-based risk prediction model (called Homecare-CONCERN) that accurately identified patients at risk for hospital admission and ED visits solely from HHC clinical notes. To advance the science, this study will add visit-level EHR data streams (e.g., vital signs, comorbidities, functional status, etc.) to the visit notes and apply cutting-edge analytical methods (e.g., neural networks) to further develop and improve Homecare-CONCERN risk prediction and prepare it into a clinical decision support (CDS) tool for implementation. If this study is successful, we will create a first-of-a-kind CDS in HHC to improve patient outcomes.

2017 - 2023 Communicating Narrative Concerns Entered by RNs (CONCERN)
National Institute of Nursing Research
5R01NR016941-05
MPI: Rossetti (contact) (Other MPI: Cato)
Direct Support Funds: $2,771,112
The aim of this project is to design and evaluate Electronic Health Record (EHR) clinical decision support (CDS) tools across two large academic medical centers that expose to physicians and nurses our new predictive data source from nursing documentation to increase care team situational awareness of at-risk patient to decrease mortality and 30-day readmissions.

2021 - 2022 Structural and Social Determinants of Maternal Mental Health, Morbidity, and Inequities in COMBO

National Institute of Mental Health
3R01MH126531-01S1
Co-Investigator: Rossetti (PIs: Dumitriu, Marsh, Monk)
Direct Support Funds: $663,061 No separate allocation to candidate.
This administrative supplement will expand the scope and focus on the parent R01 project beyond mother-infant brain-behavior functioning, focusing on structural racism and discrimination in COMBO mothers.

2020-2022 Clinician Usability and Interoperability of Clinical Trials Electronic Data Capture at Point of Care
Quantum Leap Healthcare Collaborative (a non-profit public benefit corporation)
Award number: N/A
PI: Rossetti
Direct Support Funds: $123,153
The aim of this project is to align a usable, mobile solution for rigorous capture of clinical trials data for COVID-19 patients while minimizing documentation burden and maximizing existing clinical workflows. We will gather and analyze end-users requirements and clinical workflow integration points, perform iterative usability testing, translate how FHIR and other interoperability standards can meet local technical barriers and facilitators identified through requirements gathering, and evaluate the Reach, Effectiveness, Adoption, Implementation and Maintenance (RE-AIM framework) of the system to guide optimization.

2020-2022 25 by 5: Symposium to Reduce Documentation Burden on US Clinicians by 75% by 2025
National Library of Medicine
1R13LM013581-01
MPI: Rossetti (contact) (Other MPI: Rosenbloom)
Direct Support Funds: $18,333
The overall symposium goal is to establish strategy and approaches to reduce clinician documentation burden on US clinicians to 25% by 2025. Specific meeting goals include engaging a diverse group of key stakeholders and leaders, establishing approaches for immediate (<3 months) and short-term (6 months) reduction, and longer term (10 years) elimination, of clinical documentation burden.

2018-2020 Patient-reported Outcomes in a Cardiology Clinic
NewYork Presbyterian IT
Award Number: NA
Role: Investigator (PI: Hill)
Direct Support Funds: N/A. No separate allocation to candidate.
Healthcare is transforming with shift in focus from volume to value. As a large medical system, we are focusing on transforming how to provide high-value care in patients with symptomatic heart failure, one of the most prevalent and costly medical conditions. The implementation framework for value-based care has been set with a large focus on patient-reported outcomes. Our goal is to use an iterative process to incorporate patient-reported outcomes alongside clinical data to facilitate patient-centric care with the goal to achieve high value-based care in this fragile population.

2018-2019 Ensuring Safe Performance of Electronic Health Records
Agency for Healthcare Research and Quality (AHRQ)
1R01HS023696-01
Role: Co-Investigator (PI: Bates)
Direct Support Funds: $1,247,829. No separate allocation to candidate.
The goal of this project is to improve the safety of care for inpatients across the U.S. by facilitating more effective and safer use of EHRs in hospitals by leveraging and further developing in situ testing of EHRs through updating and enhancing the existing Leapfrog CPOE simulation tool.

2018-2019 Engaging patients and family members in the evaluation of a mental health patient portal
Canadian Institutes of Health Research, Patient-Oriented Research Collaboration Grant
Award #: NA
Role: Advisor (PI: Strudwick)
Direct Support Funds: $40,000. No separate allocation to candidate.

2017-2018 Identifying how patient portals may be effectively used among mental health patient populations in Ontario to support digital inclusion
eCampus Ontario, Digital Inclusion Research Funding
Award #: NA
Role: Advisor (PI: Strudwick)
Direct Support Funds: $20,000. No separate allocation to candidate.

2017-2018 Improving eHealth Outcomes through Patient and Family Engagement
Canadian Institutes of Health research (CIHR) Planning and Dissemination Grant, Institute Community Support
Award #: NA
Role: Investigator (PI: Strudwick)
Direct Support Funds: $10,000. No separate allocation to candidate.
This project will explore and disseminate practical strategies and a framework that Canadian healthcare organizations can employ to engage patients and families in EHR and patient portal adoption, use, and evaluation.

2017-2018 Resilience for Clinical Deterioration Survival: Learning from Differences in Outcomes across Critical and Acute Care
Controlled Risk Insurance Company (CRICO) The Risk Management Foundation of the Harvard Medical Institutions Incorporated (RMF) Patient Safety Grant
Award #: NA
PI: Collins
Direct Support Funds: $181,807
This project will perform analytics of nursing documentation to identifying "resilience" patterns that can explain variation in documented nurse concern linked to survival in critical care but mortality in acute care, after controlling for acuity and nurse staffing ratios.

2014-2018 Making Acute Care More Patient Centered
Agency for Healthcare Research and Quality (AHRQ)
1P30HS0235335
Role: Project PI (PI: David Bates)

Direct Support Funds: $2,926,929
The BWH Patient Safety Learning Laboratory (PSLL) is collaboration between the Center for Patient Safety, Research, and Practice at BWH and the Healthcare Systems Engineering Institute (HSyE) at Northeastern University (NEU) to focus on developing tools to engage patients, family, and professional care team members in reliable identification, assessment, and reduction of patient safety threats in real-time, before they manifest in actual harm

- Project: MySafeCare Patient Safety Reporting System (project PI: Collins)
  Direct Support Funds for project 1: $1,000,000
  MySafeCare is study developing and evaluating a web-based and mobile-enabled application that provides patients and their families a quick, electronic, real-time way to report and communicate their safety concerns while in the hospital

2014-2017 United States Critical Illness and Injury Trials Group Program for Emergency Preparedness (USCIITG-PREP)
Food and Drug Administration (FDA) Contract
Award #: HHSF223201400115C
Role: Investigator (PI: Perren Cobb)
Direct Support Funds: $4,911,531. No separate allocation to candidate.
The purpose of this contract is to develop and implement strategies to assess, evaluate, and monitor medical countermeasure safety in response to a public health emergency.

2014-2017 Bringing I-PASS to the Bedside: A Communication Bundle to Improve Patient Safety and Experience
Patient-Centered Outcomes Research Institute (PCORI)
CDR-1306-03556
Role: Advisor, Scientific Oversight Committee (PI: Christopher Landrigan)
Direct Support Funds: $2,071,018. No separate allocation to candidate.
This study tests the effects of implementing Patient and Family Centered I-PASS bundle of communication interventions on rates of medical errors; miscommunications between doctors, nurses, and patients; and patient, family and provider experience.

2015-2016 Stakeholder Queries on Healthcare System Stress
U.S. Department of Health and Human Services (HHS), Office of the Assistant Secretary for Preparedness and Response (ASPR) Contract
O100201400022A
Role: Site-PI (PI: Perren Cobb)
Direct Support Funds: $200,000. No separate allocation to candidate.
The purpose of this project was to develop an infrastructure for rapid queries to stakeholders to understand healthcare system stress.

2015-2016 Acute Care Patient Portals 2020: Best Practices and Future Directions National Summit
Gordon & Betty Moore Foundation
Award #: NA
MPI: Collins (Other MPI: Dalal)

Direct Support Funds: $120,000
The purpose of this national summit was to convene stakeholders to define best practices and future directions for Acute Care Patient Portals

2015 Acute Care Patient Portals Task Force
Gordon and Betty Moore Foundation
Award #: NA
MPI: Collins (Other MPI: Dalal)
Direct Support Funds: $100,000
The purpose of this project is to understand current practices used to design, develop, implement, and evaluate acute care patient portals across pioneer hospitals.

2013-2015 Transforming the Acute Care Environment: Brigham and Women's Hospital (BWH) PROSPECT Framework (Promoting Respect and Ongoing Safety through Patient-centeredness, Engagement, Communication, and Technology)
Gordon and Betty Moore Foundation
Award #: NA
Role: Co-Investigator (PI: David Bates)
Direct Support Funds: $1,985,875. No separate allocation to candidate.
The purpose of this project was to refine, implement, and evaluate a multi-component technological intervention that achieves sustainable and meaningful impact on healthcare quality, safety, and costs while ensuring dignity and respect for adult oncology and intensive care patients and their care partners.

2013-2014 Knowledge Management Terminology Infrastructure to Support Interprofessional Care Planning
Partners-Siemens Research Council Grant
Award #: NA
PI: Collins
Direct Support Funds: $100,000
The goal of this research was to conceptualize, develop, and evaluate approaches to terminology management for effective interprofessional care planning, which is associated with better care coordination and patient outcomes.

2011-2012 Standards-based Multi-disciplinary Rounding (MDR) Tool to Support Inpatient Continuity of Care
Partners-Siemens Research Council Grant
Award #: NA
PI: Collins
Direct Support Funds: $100,000
The goal of this research was to investigate and determine the requirements for a standards-based MDR tool that re-uses EHR data elements and is aligned with the plan of care to facilitate information exchange and decision support during rounds to maintain continuity of care.

2011 Communicating Necessary Concerns and Evidence from RNs (CONCERN)
American Association of Critical Care Nurses (AACN)-Philips Medical Systems Clinical Outcomes Grant
Award #: NA
PI: Collins

Direct Support Funds: $10,000
The goal of this research was to develop a tool to extract and expose documentation triggers in electronic nursing notes of anticipatory concerns regarding patient status to facilitate interdisciplinary communication and messaging within the electronic health record (EHR) for deteriorating patients.

2010-2011 Cognitive Complexity and Error in Critical Care
James S. McDonnell Foundation
Award #: NA
Role: Investigator 2010-2011, Consultant 2011-2012 (PI: Vimla Patel, site-PI: David Kaufman)
Direct Support Funds: $4,724,573. No separate allocation to candidate.
The goal of this research was to analyze handoff communication amongst critical care clinicians for the purpose of standardization and increasing patient safety.

2010-2011 Computerized Unified Patient Interaction Device (CUPID)
Center for Advanced Information Management, Columbia University, a New York State Foundation for Science, Technology and Innovation (NYSTAR)-supported Center for Advanced Technology
Award #: N/A
Role: Investigator (PI: David Vawdrey)
Direct Support Funds: N/A. No separate allocation to candidate.
The goal of this research was to develop an interactive tool that provides hospitalized patients with access to their electronic health record data and information about members of their care team.

2006-2008 Nursing Excellence Through Evidence-Based Practice
Jonas Center for Nursing Excellence Foundation, educational research project
Award #: N/A
Role: Project Coordinator (PI: Patricia Stone)
Direct Support Funds: $25,000. No separate allocation to candidate.
The goal of this grant was to engage nursing students, staff nurses, and nurse managers to develop and implement evidence-based projects within the hospital setting.

- **Pending Funding**

4/1/2027 - 3/31/2032 EvidentRN - Engineering Value Into Data from Ambient AI to Represent Nursing
National Institute of Nursing Research (NINR)
1R01NR022547-01
MPI: Rossetti (contact) (Other MPI: Yen)
Direct Support Funds: $3,039,020
This study will evaluates Ambient AI as a novel organizational intervention to reduce documentation burden, support nurse decision-making and surveillance behaviors, and improve nurse-sensitive patient outcomes and nurse satisfaction in the acute inpatient setting.

4/1/2027 - 3/31/2032	Competitive renewal for CONCERN National Institute of Nursing Research (NINR) 2R01NR016941-11 MPI: Rossetti (contact) (Other MPI: Cato) Direct Support Funds: $3,095,501 This study will leverage observational data, CONCERN EWS predictive features, and datasets of prospective CONCERN use by care teams to show how temporal patterns of nursing documentation are grounded in specific EHR workflows representing impactful nursing surveillance behaviors, and to perturb existing data to simulate how those patterns, workflows, behavioral representations, and care team actions change when AI-generated data enter the EHR through ambient, generative, and agentic AI.

12. Educational Contributions:

Categories:

- **Direct Teaching/Precepting/Supervising**

Local

Columbia University Courses

2026	Columbia+ AI Healthcare, Clinical Decision Support Systems lecture
2023-2026	Considerations for Applying AI/ML to the Clinical setting: Trustworthiness, Usability, Bias, & Workflows, P8586: Applied CEOR Session 5B, Columbia University Mailman School of Public Health, 1 hour lecture
2021	Data Science for Better Health Outcomes: A Nursing Perspective, NURS7150N, Columbia University School of Nursing, 20-min lecture
2020-2026	Introduction to Computer Applications in Health Care & Biomedicine course, BINF G4001, Department of Biomedical Informatics, 1-hr lecture
2020	Quality in Healthcare, BINF5000, Department of Biomedical Informatics, 1-hr lecture
2019	Research Seminar I & II, QMSS GR5021 & GR5022, Quantitative Methods in the Social Sciences Program, 1-hr lecture
2019	Introduction to Computer Applications in Health Care & Biomedicine course, BINF G4001, Department of Biomedical Informatics, 1-hr lecture
2018, 2019	Informatics for Practice, Nursing N9412, Columbia University School of Nursing, 2-hr lecture
2018-present	BINF G4009, Department of Biomedical Informatics Research Seminar, Faculty Coordinator
2011	Management and Advanced Practice Nursing N6940, Nurse Practitioner students Columbia University School of Nursing, 2-hr lecture
2011	Acculturation to Medicine and Clinical Informatics BINF G4011, Masters and PhD biomedical informatics students, Columbia University, Department of

	Biomedical Informatics, Teaching assistant and Lecturer, 3-hr sessions per week for 16 weeks
2010, 2011	Informatics for Practice N9412, Doctor of Nursing Practice students, Columbia University School of Nursing, 2-hr lecture
2010	Applied Clinical Information Systems BINF G4004, Masters and PhD biomedical informatics students, Columbia University, Department of Biomedical Informatics, Teaching Assistant, 3-hr sessions per week for 16 weeks
2009, 2011	Decision Support for Evidence-based Practice N5710, Graduate nursing Students, Columbia University School of Nursing, 2-hr lecture
2006-2008	Assessing Clinical Evidence N6835, Graduate nursing students, Columbia University School of Nursing, 1-hr recitation per week for 16 weeks

Harvard University Courses

2017	The Harvard Medical School Quality Leadership Program (HQUAL), Health IT to Improve Quality and Safety, Harvard Medical School, 2-hr lecture
2017	The Harvard Medical School Quality Leadership Program (HQUAL), Electronic Health Record Systems for Providers and Patients, Harvard Medical School, 3-hr lecture
2013	Survey of Healthcare Informatics HP717, Interprofessional advanced health care practitioners, MGH Institute of Health Professions (MGH-IHP), 1-hr lecture

Other University Courses

2021	Nursing Informatics NUR 709 / Invited Lecture, University of Miami School of Nursing and Health Studies, Miami, FL
2015	Nursing Informatics NURS651 / Invited Lecture, University of Pennsylvania School of Nursing, Philadelphia, PA
2014	Nursing Informatics NURS651 / Invited Lecture, University of Pennsylvania School of Nursing, Philadelphia, PA
2013	System Design And Development (MIS 573) / Invited Lecture, Worcester Polytechnic Institute (WPI) Foisie Business School, Worcester, MA

Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)

2018	QUEST 2018: Transitions of Care, Chief Residents, Handoffs/Care Transitions, CUIMC, 1-hr lecture
2016	Harvard Clinical Informatics Lecture Series, Clinical Informatics Fellows and Faculty, Harvard Medical School, 1-hr lecture
2014 -2018	Partners Clinical Informatics & Innovation Fellowship, Journal Club and individual and team meetings with Fellows (average 1 hour/month)

Laboratory and Other Research Supervisory and Training Responsibilities

2018-present	Supervision of pre and postdoctoral students at CUIMC, Journal Club and Weekly meetings with individual and project team (5 hours/week)
2014-2018	Supervision of postdoctoral research fellows and visiting scholars at Brigham and Women's Hospital, Weekly meetings with individual and project team (2 hours/ week)
2013-2018	Supervision of informatics practicum students at Brigham and Women's Hospital, Weekly meetings with individual and project team (2 hours/week)

National

2019-present Invited member of Faculty Mentor Committee for Dr. Po-Yin Yen at Washington University St. Louis. Semi-annual committee meeting and review of tenure track progress.

- **Advising and Mentorship**

2026-present James Baker/ Pre-doctoral National Library of Medicine Trainee, Columbia University Department of Biomedical Informatics. Mentoring role: Research Advisor. Current: PhD degree candidate.
Accomplishments: Accepted poster to AMIA 2026 Annual Symposium

2025-present Katie Yang/ Post-doctoral Research Fellow, Columbia University Department of Biomedical Informatics. Mentoring role: Research Advisor
Current: Post-doctoral Research Fellow
Accomplishments: Accepted poster to AMIA 2026 Annual Symposium

2025-present Sarah Harkins/ Post-doctoral Research Fellow, Columbia University Department of Biomedical Informatics. Mentoring role: Research Advisor
Current: Post-doctoral Research Fellow
Accomplishments: Accepted paper to AMIA 2026 Annual Symposium

2024-2025 Varsha Varkhedi/ Masters Student, Columbia University Department of Biomedical Informatics. Mentoring role: Research Advisor
Current: Analyst, OpenClinica, Boston, MA.
Accomplishments: Accepted paper to AMIA 2025 Annual Symposium

2024-2026 Vicky (Pinyeu) Wang/ Masters Student, Columbia University Department of Biomedical Informatics. Mentoring role: Research Advisor
Current: PhD Trainee, Health Policy and Management, Harvard Medical School.
Accomplishments: Accepted paper to AMIA 2025 Annual Symposium

2024-2025 Laura Henze/ Masters Student, Columbia University Department of Biomedical Informatics. Mentoring role: Research Advisor
Current: Internal Medicine Resident Doctor, University Hospital Zurich, Switzerland.
Accomplishments: Masters thesis paper under review at ACI.

2025 Mahshad Koohi Habibi Dehkord/ Pre-doctoral Candidate, New jersey Institute of Technology. Mentoring role: Dissertation Committee, external member
PhD degree completed May 2025.
Dissertation: “Summarization and simplification of Electronic Health Records Using LLMs with Specialized Interface Terminology”

2023-2025 Rosie Mugoya/ Pre-doctoral Candidate, Washington University School of Medicine. Mentoring role: Dissertation Committee, external member
PhD degree completed March 2025.
Dissertation: “Exploring Nurses’ Documentation Prioritization in the Context of Documentation Burden: A mixed Methods Approach”

2024-2025 Johnny Lo, MD / Clinical Informatics Fellow, Columbia University Department of Biomedical Informatics. Mentoring role: co-Advisor
Current: Pediatric Emergency Medicine Physician, NYP
Accomplishments: AMIA 2025 Poster Presentation.

2023-2025	Aziz Alkattan, MD / Clinical Informatics Fellow, Columbia University Department of Biomedical Informatics. Mentoring role: co-Advisor Current: Assistant Professor of Biomedical Informatics at Columbia University and Assistant Program Director of the Clinical Informatics Fellowship. Accomplishments: Epic Evaluation Study
2021-2023	Elise Ruan, MD / Clinical Informatics Fellow, Columbia University Department of Biomedical Informatics. Mentoring role: co-Advisor Current: Strategist, Medical Informatics, Analytics & Solutions, Enterprise Digital Services, Northwell Health; Hospitalist, Department of Medicine, Lenox Hill Hospital; AMIA 25x5 Task Force Impact Workstream lead
2024-present	Rebecca Shyu/ Pre-doctoral National Library of Medicine Trainee, Columbia University Department of Biomedical Informatics. Mentoring role: Research Advisor. Current: PhD degree candidate. Accomplishments: paper at AMIA 2026 Annual Symposium
2021-present	Courtney Diamond/ Pre-doctoral National Library of Medicine Trainee, Columbia University Department of Biomedical Informatics. Mentoring role: Research Advisor. Current: PhD degree candidate. Accomplishments: ACI paper, paper at AMIA 2024 Annual Symposium
2022-2026	Rachel Lee/ Post-doctoral Research Fellow, Columbia University Department of Biomedical Informatics. Mentoring role: Research Advisor Current: Assistant Professor, College of Nursing, Hanyang University, Seoul, KR. Accomplishments: Recipient 2025 Martin Epstein Award, Recipient 2024 Homer Warner Award and Nursing Student Paper Award 2024 AMIA Annual Symposium.
2022-2024	Mohtashim Bokhari/ Post-doctoral Research Fellow, Columbia University Department of Biomedical Informatics. Mentoring role: Research Advisor Current: Assistant Professor of Computer Science and Artificial Intelligence at Canisius University in New York. Accomplishments: Developed monitoring tool for CONCERN EWS.
2023-2024	Jennifer Withall/ Postdoctoral Research Fellow, Columbia University School of Nursing. Mentoring role: Research Advisor Current: Nurse Researcher, NYU Langone Health, Mineola, NY. Accomplishments: Led stakeholder engagement and usability evaluation of CONCERN EWS.
2021-2024	Fangyi Chen/ Masters Student, Columbia University Department of Biomedical Informatics. Mentoring role: Research Advisor Current: PhD Candidate, Columbia University Department of Biomedical Informatics. Accomplishments: 2 journal publications and accepted into Columbia University Department of Biomedical Informatics PhD Program in September 2024.
2021-2023	Victor Castano Iraheta / Medical Student, College of Physicians and Surgeons, Columbia University Medical Center. Mentoring role: co-mentor on Fellowship. Current: MD/Masters in Biomedical Sciences Dual Degree Program 2023, selected for 2021-2022 Vagelos College of Physicians and Surgeons Dean's Research Fellowship.

2021-2024	Brett Youngerman, MD, MS / Assistant Professor, Department of Neurological Surgery, Columbia University Medical Center. Mentoring role: co-mentor on Kl2. Current: Assistant Professor of Neurological Surgery; Co-Director of Pituitary and Anterior Skull Base Surgery at CUMC; Director of the Clinical Informatics and Neuromodulation Lab at CUMC
2020-2021	SivaDurga Thotapalli / Masters Student, Columbia University Department of Biomedical Informatics. Mentoring role: Research Advisor Current: Senior Analyst, CMC Quantitative Sciences, Moderna. Accomplishments: Development of model to predict length of bed occupancy for inpatient beds based on EHR data.
2020	Shirin Sadri / Medical Student, Columbia University Irving Medical Center. Career Stage: Informatics Research Elective. Mentoring role: Advisor Accomplishments: literature review on measures of documentation burden
2018-2021	Eugene Lucas, MD / Clinical Informatics Fellow, Columbia University Department of Biomedical Informatics. Mentoring role: co-Advisor Current: Assistant Attending Physician, NewYork-Presbyterian Hospital; Assistant Professor of Clinical Medicine, Weill Cornell Medical College, Cornell University. Accomplishments: Epic EHR Evaluation Study data collection and analysis; Time motion study data collection.
2019-2020	Seemab Imran / Pre-Medical Student and Pharmacy Technician, New York Presbyterian. Mentoring role: Advisor on research project Accomplishments: Time motion study data collection for Epic Evaluation Research Study.
2019-2020	Xintao Ding / Masters Student, Columbia University Department of Biomedical Informatics. Mentoring role: Research Advisor Current: Business Strategy and Analytics, Progyny, New York, NY Accomplishments: Patient reported outcomes data preparation and collection for Value Institute project: Patient-reported Outcomes in a Cardiology Clinic
2018-2021	Jessica Schwartz-Dillard, RN, BSN / Pre-doctoral Trainee, Columbia University School of Nursing. Mentoring role: Co-advisor, Dissertation Committee Member. Dissertation: “Clinician Trust in Predictive Clinical Decision Support” Career Stage: Clinical Informatics Lead, Hospital for Special Surgery. Accomplishments: Papers published in JMIR, JAMIA, AMIA 2019 Annual Symposium, and AMIA 2020 Annual Symposium.
2018-2023	Amanda Moy, MPH / Pre-doctoral National Library of Medicine Trainee, Columbia University Department of Biomedical Informatics. Mentoring role: Research Advisor Current: VP at JPMorgan Chase Accomplishments: JAMIA, J Med Int Res, Nominated AMIA Student Paper Competition
2018-2020	Li-Heng Fu, MD / Masters Student, Columbia University Department of Biomedical Informatics. Mentoring role: Research Advisor Current: Senior AI Solutions Engineer, Dataiku, Paris, FR. Accomplishments: JAMIA, JBI publications.
2018-2020	Jonathan Elias, MD / Clinical Informatics Fellow, Columbia University Department of Biomedical Informatics. Mentoring role: co-Advisor

	Current: Assistant Attending Pediatrician, NewYork-Presbyterian Hospital; Assistant Professor of Clinical Pediatrics, Weill Cornell Medical College, Cornell University; Assistant Professor of Clinical Population Health Sciences, Weill Cornell Medical College, Cornell University. Accomplishments: Time motion study development and data collection; Applied Clinical Informatics mapping of EHR dynamic roles for EHR transition to support care team coverage and coordination using mobile apps.
2018-2020	Daniel Feller / Pre-doctoral National Library of Medicine Trainee, Columbia University Department of Biomedical Informatics. Mentoring role: Dissertation Committee Member Dissertation: "An Evaluation of Computational Methods to Support the Clinical Management of Chronic Disease Populations" Current: Senior Solutions Engineer, Rhino Federated Computing.
2018-2019	Cody Slater / Medical Student, Columbia University College of Physicians and Surgeons. Mentoring role: Advisor on research project Accomplishments: Time motion study data collection for Epic Evaluation Research Study.
2018-2019	Joongheum Park (PJ), MD / Clinical Informatics Fellow, Columbia University Department of Biomedical Informatics. Mentoring role: co-Advisor Accomplishments: Development and usability testing of mHealth platform to support care pathway decision making.
2017-2020	Tom Zania Korach MD, PhD / Post-doctoral Research Fellow, Brigham and Women's Hospital and Harvard Medical School, Boston, MA. Mentoring role: Co-advisor Career stage: Senior Director, Data Science, CCC Intelligent Solutions.
2017-2021	Min Jeoung Kang, RN, PhD / Post-doctoral Research Fellow, Brigham and Women's Hospital and Harvard Medical School, Boston, MA. Mentoring role: co-Advisor. Current: Instructor in Medicine, Harvard Medical School; Research Scientist, Brigham and Women's Hospital.
2017	Monica Gilmore, RN / MSN Candidate, Regis College, Weston, MA Mentoring role: Practicum Advisor.
2017	Megan Duffy-Sherlin, RN / Masters Nursing Administration, Northeastern University, Boston, MA Mentoring role: Practicum Advisor.
2016	Pallavi Ranade-Kharkar, PhD Candidate, Department of Biomedical Informatics, University of Utah, Salt Lake City, UT Mentoring role: Doctoral Dissertation Committee Member. Dissertation: "Understanding information needs and designing tools for care coordination of children and youth with special health care needs (CYSHCN)"
2016	Jennifer Prey / PhD Candidate, Department of Biomedical Informatics, Columbia University, New York, NY. Mentoring role: Doctoral Dissertation Committee Member. Dissertation: "Patient Engagement to Improve Medication Safety in the Hospital"

2015-2016 Jennifer Thate, RN, MSN / PhD Candidate, Villanova University School of Nursing. Mentoring role: Partners Clinical Informatics Research Practicum Advisor and Doctoral Dissertation Committee Member.
Dissertation: "Leveraging Documentation in the Electronic Health Record to Support Interprofessional Communication: A Delphi Study"
Current: Associate Professor of Nursing, Siena University, Loudonville, NY.
Accomplishments: Research Poster Award Winner at 26th Annual Summer Institute in Nursing Informatics.

2015-2016 Elizabeth Lilley, MD / Research Fellow, Department of Surgery, BWH. Mentoring role: Advisor.

2014-2015 Martin Fehrenbach, MS / Informatics Consultant, Semedy AG, Cambridge, MA
Mentoring role: Research Practicum Advisor and Master's Thesis Committee Member.
Thesis: "A Systematic Approach to Measure and Ensure Content Coverage When Migrating to a New Clinical Information System in a Continuity of Care Setting"

2014-2015 Naoaki Ichihara, MD, MPH / Cardiologist, Tsuchiura Kyodo Hospital, Tsuchiura, Japan. Academic sponsor and site contact for work as visiting researcher

2014 Kim Whalen, RN, MSN, CCRN / Pediatric ICU Nursing Practice Specialist, MGH. Mentoring role: Research Practicum Advisor. Accomplishments: Published first-authored paper in Applied Clinical Informatics and Awarded First Place for Evidence-Based Practice at Nursing Research Day at MGH.

2013-2015 Ann DeBord-Smith, MD / Research Fellow, Department of Surgery, BWH
Mentoring role: PI / Advisor. .

2013 Sarah Laperle, RN, MSN / Nurse Practitioner, Central Maine Medical Center, Lewiston, ME. Mentoring role: Research Practicum Advisor.

2010-2011 Lauren Wilcox-Patterson, PhD / Assistant Professor, School of Interactive Computing, Georgia Institute of Technology, Atlanta, GA. Mentoring role: Co-advisor.

2010-2011 Kenrick Cato, RN, PhD / Associate Research Scientist, Columbia University School of Nursing, New York, NY. Mentoring role: Co-advisor as Project PI

- **Educational Administration and Leadership**

2021 Coordinator, Department of Biomedical Informatics Special Seminar Series: Toward Diversity, Equity, and Inclusion in Informatics, Health Care, and Society

2020-present Faculty Coordinator, Optimizing with Applied Clinical Informatics Models and Methods (OPTACIMM) Lab, Department of Biomedical Informatics, CUIMC

2013-2017 Director, Clinical Informatics Practicum Program for Nurses, Partners Healthcare System. Scope: Semester long practicums as part of nursing informatics master's programs to expose and mentoring students in informatics projects.

- **Instructional/Educational Materials used in Print or other Media**

1. Content Specialist and Oversight Panel-Subject Matter Expert Liason for AMIA Health Informatics (HI) Practice Analysis (PA)
2. Nursing Informatics Competency Assessment for the Nurse Leader. URL: https://general341.wixsite.com/nica

3. Collins S, Sensmeier J, Weaver C, Murphy J. Speaking With One Voice: Alliance for Nursing Informatics Policy Responses 2016 Update. CIN: Computers, Informatics, Nursing, 2016; 34(11), 490-492. PMID: 27824622
4. Couture B, Cleveland J, Ergai A, Katsulis Z, Ichihara N, Goodwin A, DeBord Smith A, Gershanik E, Chang F, Collins SA. User-centered design of the MySafeCare Patient Facing Application. CIN: Computers, Informatics, Nursing, 2015; 33(6), 225-226.
5. Collins S. Nurses spurring innovation. Nursing Management, 2014 Oct;45(10):17-9. PMID: 25244236.
6. Collins S. ANI Emerging Leaders Project: Clinical Informatics Governance & Nursing Leadership. Computers Informatics and Nursing, 2014 Sep;32(9):420-3. PMID: 25226405.
7. Collins S. Top Ten Focus Areas for Nursing Informatics Governance. 2012 Nov 1 [cited 2012 Nov 7]. In: HIMSS Blog [internet]. Available from: https://himssblog.wordpress.com/2012/11/01/top-10-focus-areas-for-nursing-informatics-governance/.
8. Lecture Developer and Content Specialist for Timely Training of Workers Competent to Support EHR Deployment and Meaningful Use funded by Office of the National Coordinator for Health IT, 2010-2011. Developed Power Point lectures on topics of Meaningful Use and Electronic Health Record Vendors. Lectures are used locally as part of Columbia University's Health Informatics Certificate Program.
9. Lecture Developer and Content Specialist for Information Technology Professionals in Health Care: Curriculum Development Centers funded by Office of the National Coordinator for Health IT (ONC), Columbia University Site, 2010-2011. Developed curriculum, Power Point Podcasts lectures, and exams for Component 14: Vendor-Specific Systems used nationally as part of the Health IT Workforce Development Program funded by ONC.

- **Community Education**

2017 AMIA Leadership meetings with majority staff on the House Ways & Means Committee, majority staff on Senate Health, Education, Labor and Pensions (HELP) Committee, AHRQ leadership, and the Senior Health Policy Advisory for Vice President Pence to provide introductions and discuss potential issues of mutual importance.

2013 Office of the National Coordinator for Health Information Technology Policy Committee, Meaningful Use Workgroup and Certification and Adoption Workgroup public hearing Panel 2: The Role of Clinical Documentation for Care Coordination. Invited Expert Testimony.

- **Continuing Education and Professional Education**

2013-2017 Clinical Informatics Weekly Seminar Series for PHS. Lead Coordinator of seminar. Seminar is open to all with remote viewing via webex. Presenters include internal and external experts in Clinical Informatics and related topics.

13. Report of Clinical Care and Public Health Interventions

- **Clinical or Public Health Innovations**

2012-2017 Nursing Informatics Competency Assessments (NICA), Project Lead

This work developed and validated informatics self-assessment competency scales based on nursing role using psychometric validation techniques in collaboration with leadership from Organization of Nurse Leaders – New England (ONL)

2015 Patient and Family Safety Reporting, Project Lead
Video and information sheets describing how patients and families can submit safety concerns while in the hospital. Information includes submissions through MySafeCare Application, patient and Family Relations, and Clinical Staff. Project funded by AHRQ.

- **Clinical and/or Public Health Administration and Leadership**

2008 New York State Department of Health AIDS Institute, HIV Quality of Care Advisory Committee for Policy Development.
Consultant based on Systematic Review of Health Literacy Screening Instruments used by advisory committee to inform policy development for health literacy screening.

14. Patents & Inventions:

- **Patent Pending**

US non-provisional patent application (U.S. Patent Application No. 18/814,823) related to CONCERN Early Warning Technology.

- **Clinical Innovations**

Acute Care Patient Portals Model of Current Practice (2016)
Explanatory model of current practices and stakeholder perspectives of patient portals in the acute care setting including: 1) Concept Model of Current Practices of Acute Care Patient Portals and 2) Process Model of Development and Implementation of Acute Care Patient Portals. Used to informed optimization of Patient Centered Toolkit part of Acute Care Patient Portal at BWH. Used as foundational work for Acute Care Patient Portals 2020 National Convening funded by Gordon and Betty Moore Foundation.

MySafeCare: An Application for Patients and Care Partners (2013-2016)
MySafeCare Version 0.1: Pitched at 2013 BWH Hackathon, selected as best pitch; Hackathon project led by Dr. Collins and selected as Best Team Collaboration.
MySafeCare Version 1.0: BWH 2014 Shark tank Winner: Over 40 clinical innovations were submitted. MySafeCare, led by Dr. Collins, was selected as one of 4 projects for a clinical pilot, endorsed by the Clinical Leadership of BWH.
MySafeCare versions 2.0-.03: Iterative development, piloting, and implementation of BWH Clinical Units (2014-2016) Findings confirmed that MySafeCare captures patient concerns not previously captured and may increase reporting by patients and families overall.

Conceptual model of Patient-Centered Closed Loop Care Coordination (2013)
Prototype of an interprofessional knowledge management terminology infrastructure and information model based on Health Level 7 Care Planning standards that can enable the development of interprofessional care planning applications to facilitate patient-centered care, learn consumer preferences and care plan linkages and associations, and meet

hospital policy, administrative, and reporting requirements for care coordination. Served as underlying infrastructure for Caredinator application, selected as 2nd Place in 2015 Veterans Association Care Coordination for Improved Outcomes Challenge.

Continuum of Sociotechnical Requirements for Patient-Centered Problem Lists (2013)
Set of specific requirements delineated in 5 stages to create operational definitions of patient-centered problem lists: 1) Intra-disciplinary Care Planning, 2) Multi-disciplinary Care Planning, 3) Interdisciplinary Care Planning, 4) Integrated and Coordinated Care Planning, and 5) Patient-Centered Care Planning. Used to informed development of Patient Problem List in Patient Centered Toolkit part of Acute Care Patient Portal at BWH.

CONCERN (Communicating Necessary Concerns and Evidence from RNs) Algorithm (2013)
Development of an algorithm to mine clinical flowsheet data for patterns predictive of anticipatory concerns regarding patient deterioration associated with inpatient mortality and cardiac arrest. This innovative algorithm is used to inform specifications work for clinical decision support and further analytics of predictive patterns in nursing documentation.

Interdisciplinary Handoff Information Coding Framework (2011)
Compared nursing-generated and physician-generated handoff content to define an interdisciplinary set of handoff content in the inpatient setting and included extensions to the Continuity of Care Document (CCD) standard for the inpatient setting. Informed expert testimony at Office of National Coordinator (ONC) HIT Policy Committee's Meaningful Use Workgroup and Certification and Adoption Workgroup public hearing Panel 2: The Role of Clinical Documentation for Care Coordination.

Model of EHR Interdisciplinary Information Exchange of ICU Common Goals (2011)
This model is a solution to improve the sub-optimal processes of information and communication exchange within the EHR through the development of information and communication tools. This model has been published in Journal of Biomedical Informatics and has informed the development of EHR tools and served as the theoretical framework for funded grant proposals.

- **Educational Innovation**

Nursing Informatics Competency Assessments-Nurse Leader (NICA-NL) (2016)
Development and validation of informatics self-assessment competency scales for Nurse Leaders using a modified Delphi approach with a select group of subject matter experts and online survey psychometric validation with over 200 nursing leaders. NICA-NL is used as self-assessment continuing educational tool at UMass Memorial Medical Center to enhance competencies of Nursing Informatics Leaders.

- **Report of Technological and Other Scientific Innovations**

Infrastructure for Healthcare System Stress Data Capture and Network Outreach (2015)
Development and refinement of an electronic infrastructure for rapid queries to national database of stakeholders to understand health care system stress using REDCap software and other open source tools. Electronic infrastructure is used to conduct 2-4 national queries annually.

Process for Validating Clinical Topic Reference Models (2014)
Development and implementation of a methodology to define and validate reference models using a modified Delphi Approach including four Subject Matter Expert Session

Panels and online voting. Process is in place and actively used at PHS to guide enterprise-wide clinical data element optimization and standardization.

Algorithm for Clinical Topics for Optimization of Data Definitions (2014)

Development and implementation of a 3-axes methodology that evaluates data usage, downstream data dependencies, and consistency of content configuration to prioritized clinical topics with data definitions in highest need of optimization. Algorithm is actively used at PHS to guide enterprise-wide clinical data element optimization and standardization.

Calibration Metrics to Evaluate Alignment of Clinical Data Definitions (2014)

Adaption and implementation of metrics to calibrate the degree of clinical content alignment with standard reference model of clinical data definitions. Metrics used are based on adaption of the MUC-5 (Fifth Message Understanding Conference) Evaluation Metrics, which were originally used to express error rates as part of a scoring system for template instances produced by information extraction systems when compared to manual extraction by humans. Metrics are actively used at PHS to guide enterprise-wide clinical data element optimization and standardization.

15. Publications:

- **Peer-Reviewed Journal Articles**

1. Wan YJ, Abdelrahman SE, Facelli JC, Madaras-Kelly K, Kawamoto K, Dishman D, Cato K, **Rossetti SC**, Del Fiol G. Enhancing prediction of inpatient deterioration by combining clinical and nurse concern features, with or without temporal clustering. 2026 May 20;9(3):ooag077. doi: 10.1093/jamiaopen/ooag077.
2. Mugoya R, Thate J, Hao F, **Rossetti SC**, Yen PY. Exploring nurses' documentation prioritization strategies to alleviate EHR documentation burden: a phenomenological study. JAMIA Open. 2026 Apr 27;9(2):ooag056. doi: 10.1093/jamiaopen/ooag056.eCollection 2026 Apr.
3. *Diamond CJ, Elias J, Lee RY, Jia H, Abramson EL, Ancker JS, Bostwick S, Cato KD, Trepp R, Lewis RA, Crimmins TJ, **Rossetti S**. Evaluating clinical staff perceptions of EHR usability, satisfaction, and adaptation to a new EHR: a multi-site, pre-post implementation study. Applied Clinical Informatics. 2025 Oct;16(5):1368-1380. doi: 10.1055/a-2701-4543.Epub 2025 Oct 17.
4. **Rossetti, S**. & Cato, K. Nursing Surveillance from Invisible to Measurable to Indispensable: The CONCERN Early Warning System Trial. Nursing Economic$ 43(5):p 253-258, September-October 2025. DOI: 10.62116/NEC.2025.43.5.253
5. *Lee RY, Cato KD, Dykes PC, Lowenthal G, Tuteja S, **Rossetti SC**. Understanding Clinicians' Usage Patterns of the CONCERN Early Warning System: Insights from a Multi-Site Pragmatic Cluster Randomized Controlled Trial. Stud Health Technol Inform. 2025 Aug 7;329:1256-1260. doi: 10.3233/SHTI251040. PMID: 40776058. PMC12765646
6. *Thate J, Lee RY, Mugoya R, Diamond CJ, Daramola T, Yen PY, **Rossetti, S**. Choosing between Patient Care Needs and Accurate Data Capture: Exploring Nurses' Experiences of Excessive Documentation Burden. Appl Clin Inform. 2025 Aug;16(4):1231–43.
7. *Lee RY, Cato KD, Dykes PC, Lowenthal G, Jia H, Daramola T, **Rossetti SC**. Evaluating Equity in Usage and Effectiveness of the CONCERN Early Warning System. Applied

Clinical Informatics. 2025 Aug;16(4):838-847. doi: 10.1055/a-2630-4192. Epub 2025 Jun 10. PMID: 40494563; PMCID: PMC12349966.

8. Wan Y-KJ, Abdelrahman SE, Facelli JC, Madaras-Kelly K, Kawamoto K, Dishman D, Himes SR., Cato K, **Rossetti SC**, Del Fiol G. Conceptual framework for prediction models of patient deterioration based on nursing documentation patterns: reproducibility and generalizability with a large number of hospitals across the United States. J Biomed Inform. 2025 Jul 27;104887.
9. Fan, H., **Rossetti, S.C.**, Thate, J., Mugoya, R., Lai, A.M., Yen, P. Semi-automated pipeline to accelerate multi-site flowsheet alignment and concept mapping in electronic health records, Journal of the American Medical Informatics Association, Volume 32, Issue 7, July 2025, Pages 1140–1148, https://doi.org/10.1093/jamia/ocaf076.
10. *Lee, R.Y., Thate, J. A., Withall, J., Yen, P. Y., Cato, K., & **Rossetti, S. C**. (2025). Relationship between additional required nursing documentation and patient outcomes: A scoping review. Applied Clinical Informatics, https://doi.org/10.1055/a-2561-3960
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- **Peer-Reviewed Conference Proceeding Articles (Note: In Biomedical Informatics conference proceeding articles receive full peer review.)**

1. *Diamond CJ, Yen PY, Finnegan A, Thate JA, Mugoya R, Fan H, **Rossetti SC**. Exploring the Relationship Between the Objective and Subjective Natures of Excessive Documentation Burden: Comparing Nurse-Reported Perceptions of Time-Consuming Documentation to EHR Log File Measures. Paper Presentation at 2026 AMIA Annual Symposium, November 7–11, 2026. Dallas, TX.
2. *Harkins SE, Shyu R, Finnegan A, Yang S, Mackeen AD, Hoffman M, Reddy UM, Friedman A, **Rossetti SC**. Nursing documentation patterns during the inpatient labor and delivery hospitalization. Paper Presentation at 2026 *AMIA Annual Symposium*, November 7–11, 2026. Dallas, TX.
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4. *Lee, R.Y., Cato, K.D., Dykes, P.C., Lowenthal, G., Cho, S., Jia, H., Daramola, T., Tuteja, S., **Rossetti, S.C**., Earlier ICU Transfer after CONCERN early warning system score escalation reduced sepsis-related mortality: results from a multi-site pragmatic cluster randomized controlled trial. AMIA 2025 Annual Symposium. Atlanta.
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5. *Varkhedi V, Cato K, Albers D, Tiase V, Joshi S, Thate J, Connell K, Hull W, Finnegan A, **Rossetti S**. Translating Nursing Data into Computational Metrics: An Evaluation Guideline for Inpatient Intravenous and Subcutaneous Insulin Management. Paper Presentation at AMIA Annual Symposium, Atlanta, GA, November 15-19, 2025.
6. *Tuteja S, Boventer E, Alkattan A, Elhadad N, **Rossetti S**. Shifting Information Needs in Clinical Practice: The Evolving Role of Generative AI in Addressing Clinician Demands for

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9. *Lee R, Cato K, Dykes P, Lowenthal G, Withall J, Cho S, Jia H, **Rossetti S**. Influence of the CONCERN Early Warning System on Unanticipated ICU Transfers, In-Hospital Mortality, and Length of Stay: Results from a Multi-site Pragmatic Randomized Controlled Clinical Trial. Paper Presentation at AMIA Annual Symposium, San Francisco, November 9-13 2024.
    a. ***Recipient Homer R. Warner Award which is awarded for the AMIA Annual Symposium paper that best describes approaches to improving computerized information acquisition, knowledge data acquisition and management, and experimental results documenting the value of these approaches.***
10. *Diamond, CJ, Thate, J, Withall, JB, Lee, RL, Cato, K, **Rossetti, S**. Generative AI Demonstrated Difficulty Reasoning on Nursing Flowsheet Data. Paper Presentation at AMIA Annual Symposium, San Francisco, November 9-13 2024
11. *Withall J, Cato K, Dykes P, Cho S, Ivory C, Yen PY, Lee R, Douthit B, Daramola T, Lowenthal G, Albers D, Bokhari SM, **Rossetti SC.** The CONCERN Implementation Toolkit: Standardizing, Scaling, and Spreading an AI-Based Clinical Decision Support System. Poster Presentation at AMIA Annual Symposium, San Francisco, November 9-13 2024
12. *Chen F., Cato K., Gürsoy G., Dykes P., Lowenthal G., **Rossetti S**. Toward Identifying New Risk Aversions and Subsequent Limitations and Biases When Making De-identified Structured Data Sets Openly Available in a Post-LLM world. Paper Presentation at AMIA Annual Symposium, San Francisco, November 9-13 2024
13. *Ruan EL, Alkattan A, Elhadad N, **Rossetti SC**. Clinician Perceptions of Generative Artificial Intelligence Tools and Clinical Workflows: Potential Uses, Motivations for Adoption, and Sentiments on Impact. Paper Presentation at AMIA Annual Symposium, San Francisco, November 9-13 2024
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16. **Rossetti SC**, Withall J, Kendle K, Corely S, Mishuris RG, Aboagyewah MA, Abdul S, Rosenbloom T, Tiase V, Sloss E. Dissemination of Strategies for Reducing Excessive Documentation Burden:25x5 Task Force Activities Relevant to Nursing. Case Study Presentation at the 16th International Congress in Nursing Informatics, NI2024, Manchester, UK, July 28 – 31, 2024.

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19. *Lee R.Y, Knaplund, C, Withall J, Bokhari S.M, Cato K, **Rossetti S.** (2023). Variability in Nursing Documentation Patterns across Patients' Hospital Stays. In AMIA Annual Symposium Proceedings (Vol. 2023, p.1037). American Medical Informatics Association.
20. *Moy AJ, Kim E, Cato KD, Withall J, Tatonetti N, **Rossetti SC**. A Computational Framework to Evaluate Emergency Department Clinician Task Switching in the Electronic Health Record Using Event Logs. 2023 AMIA Annual Symposium, New Orleans, LA, November 11-15, 2023.
21. *Moy AJ, Cato KD, Withall J, Tatonetti N, Kim E, **Rossetti S**. Using Time Series Clustering to Segment and Infer Emergency Department Nursing Shifts from Electronic Health Record Log Files. AMIA Annu Symp Proc. 2022, Apr 29:2022:805-814. eCollection 2022.
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41. **Collins SA**, Bakken S, Vawdrey D, Coiera E, Currie L. Clinician preferences for verbal communication compared to EHR documentation in the ICU. Applied Clinical Informatics, Medinfo Special Issue, 2011; 2(2): 190-201. PMID: 23616870.
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44. **Collins S**, Bakken S, Cimino JJ, Currie L. Identifying Logical Clinical Context Clusters in Nursing Orders for the Purpose of Information Retrieval. Proceedings of the American Medical Informatics Association Annual Fall Symposium, 2008 Nov 8-12, Washington D.C.; p.131-135. PMC2656054.

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45. **Collins S**, Bakken S, Cimino JJ, Currie L. A Methodology for Meeting Context-Specific Information Needs Related to Nursing Orders. Proceeding of the American Medical Informatics Association Annual Symposium; 2007 Nov 10-14; Chicago, IL. Vol 11, p. 155-159. PMC2655787.

    Nominated for Best Nursing Student Paper Award at AMIA 2007 Symposium.

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- **Other Peer Reviewed Publications in Print or other Media**

1. *Cato KD, McGrow K, **Rossetti SC**. Transforming clinical data into wisdom: Artificial intelligence implications for nurse leaders. Nursing Management. 2020;51(11):24-30.
2. 2017 AMIA Policy Invitational Planning Committee. Redefining Our Picture of Health: Towards a Person-Centered Integrated Care, Research, Wellness, and Community Ecosystem: A White Paper of the 2017 AMIA Policy Invitational (API17).

3. *Dalal AK, Bates DW, **Collins S**. Opportunities and Challenges for Improving the Patient Experience in the Acute and Post-Acute Care Setting Using Patient Portals: The Patient's Perspective. Journal Hospital Medicine, 2017 Dec;12(12):1012-1016. PMID: 29073310
4. Coiera E, **Collins S**, Kuziemsky C. A unified model of patient safety (or "Who froze my cheese?"). BMJ 2013;347:f7273. PMID: 24335670.
5. Strudwick G, Kuziemsky C, Booth RG, **Collins S**, Chyjek A, Sakal M, Harris A, Strauss J. Engaging patients and family members in the evaluation of a mental health patient portal: protocol for a mixed-methods study. BMJ Open. 2018 Aug 23;8(8):e025508. doi: 10.1136/bmjopen-2018-025508. PMID: 30139909
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7. *Kuziemsky CE, Monkman H, Petersen C, Weber J, Borycki EM, Adams S, **Collins S**. Big Data in Healthcare - Defining the Digital Persona through User Contexts from the Micro to the Macro. Contribution of the IMIA Organizational and Social Issues WG. Yearbook Medical Informatics. 2014 Aug 15;9(1):82-9. PMID: 25123726
8. Dykes P, **Collins S**. Building Linkages between Nursing Care and Improved Patient Outcomes: The Role of Health Information Technology. Online Journal of Issues in Nursing, 2013; 18(3). PMID: 26812097.
9. De Cordova PB, **Collins S**, Peppard L, Currie LM, Hughes R, Walsh M, Stone PW. Implementing evidence-based nursing with student nurses and clinicians: uniting the strengths. Applied Nursing Research, 2008;21(4):242-5. PMID: 18995169

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- **Pre-Print Publications**

1. Rossetti, S. C., Dykes, P. C., Knaplund, C., Cho, S., Withall, J., Lowenthal, G., Albers, D., Lee, R. Y., Jia, H., Bakken, S., Kang, M.-J., Chang, F. Y., Zhou, L., Bates, D. W., Daramola, T., Liu, F., Schwartz-Dillard, J., Tran, M., Bokhari, S. M. A., Thate, J., & Cato, K. D. Multisite Pragmatic Cluster-Randomized Controlled Trial of the CONCERN Early Warning System. MedRxiv, Preprint, June 4, 2024. doi: https://doi.org/10.1101/2024.06.04.24308436. Date Accessed April 21, 2025.
2. Ruan EL, Alkattan A, Elhadad N, Rossetti SC. Clinician Perceptions of Generative Artificial Intelligence Tools and Clinical Workflows: Potential Uses, Motivations for Adoption, and Sentiments on Impact. MedRxiv, Preprint, July 31, 2024. doi: https://doi.org/10.1101/2024.07.29.24311177. Accessed April 21, 2025.

- **Reviews, Chapters, Monographs, Editorials**

1. Rossetti, S., Tiase, V. (2022) The Integration of Patient-Generated Health Data to Clinical Care. In Hsueh, P.S, Wetter, T., & Zhu, X., editors. Personal Health Informatics: Patient Participation in Precision Health. Cognitive Informatics in Biomedicine and Healthcare. Springer Nature, (in press).
2. Strudwick, G., Leung, K., McLean, D., Booth, R., Borycki, E., **Rossetti, S.**, Kuziemsky, C., Zhang, T., Kemp, J. (2019). Patient and family engagement in health information technology

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3. **Collins Rossetti S**, Hull S, Bakken S. Nursing Informatics and Healthcare Policy. In Saba V & Bickford, C., editors. The Essentials of Nursing Informatics 7th edition, McGraw-Hill, 2019. Chapter 16.
4. Bakken S, Dykes P, **Collins S**, Ozbolt J. Patient-Centered Care Systems. In Shortliffe E.H & Cimino J.J., editors. 5th edition of Biomedical Informatics: Computer Applications in Health Care and Biomedicine, Springer, 2019. p. 475 - 502.
5. **Collins S**, Yen PY, Dykes P, Schnock K, Cato K. Reengineering Approaches for Learning Healthcare Systems: Applications in Nursing Research to Learn from Safety Information Gaps and Workarounds to Overcome EHR Silos. In Patel V, Zheng K, Westbrook J, Kannampallil T. Cognitive Informatics: Reengineering Clinical Workflow for More Efficient and Safer Care. Springer, 2019. P. 115 - 148.
6. *Phillips A, Yen PY, Kennedy M, **Collins S.** Opportunity and Approach for Implementation of a Self-Assessment Tool: Nursing Informatics Competencies for Nurse Leaders (NICA-NL). In Murphy J, Goossen W, Weber P, editors. Forecasting Informatics Competencies for Nurses in the Future of Connected Health (Studies in Health Technology and Informatics). Amsterdam, Netherlands: IOS Press, 2017. p. 207 – 211.
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8. **Collins S.**, Alexander D. Nursing Informatics Today and Future Perspectives for Healthcare. In Ong K, editor. Medical Informatics: An Executive Primer (Third Edition). Boca Raton, FL: CRC Press, 2015. p. 215-224.
9. **Collins S**., Mamykina L., Jordan D., Kaufman D. Clinical Artifacts as a Treasure Map to Navigate Handoff Complexity. In Patel V, editor. Cognitive Informatics in Health and Biomedicine: Case Studies on Critical Care, Complexity and Errors (Health Informatics). London: Springer; 2013. p. 317- 339.

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- **Meetings/Invited oral and poster presentations**

1. Polubriaginof, F., Dawson, J., **Rossetti, S**., Vawdrey, D., Kuperman, G. Achieving the Learning Health System: Tools and Processes for Engaging Senior Leadership at Provider Organizations. Workshop at 2026 *AMIA Annual Symposium*, November 7–11, 2026. Dallas, TX.
2. Yang, Y-C., **Rossetti, SC**., Douthit, BJ., Cato, KD., Albers, D., Ivory, CH., & Jeffery, AD. (2026). Caregivers' experiences communicating clinical concerns in pediatric hospitalization. Poster Presentation at 2026 AMIA Annual Symposium, November 7–11, 2026. Dallas, TX.
3. Wang, PY., Lee, RY., Tiase VL., Scheese C., Cato K., Joshi S., Daramola T., Lau B., Albers D., **Rossetti SC**. Knowledge Graphs of Inpatient Insulin Administration Reveal Nursing

Decision Factors Not Captured in the EHR. Poster Presentation at 2026 AMIA Annual Symposium, November 7–11, 2026. Dallas, TX.

4. Gan, S., Park, R.W., Park, J., Jang, M., Ho, Y., Dykes, P.C., Lee, R.Y., Kang, M.J., **Rossetti, S.C.**, Cato, K.D., Lee, Y. Temporal Patterns in Nursing Documentation Preceding Rapid Response Team Activation. Poster Presentation at 2026 AMIA Annual Symposium, November 7–11, 2026. Dallas, TX.
5. Lee, Y., Lee, R.Y., Gan, S., Kang, M.J., **Rossetti, S.C.**, Cato, K.D., Dykes, P.C. Implementation Feasibility of the CONCERN Early Warning System in Korean Inpatient EHRs: A Gap Analysis Using the HPM-ExpertSignals Framework. Poster Presentation at 2026 AMIA Annual Symposium, November 7–11, 2026. Dallas, TX.
6. **Rossetti, S.**, Lee, R.Y., Cato, K., Albers, D., Joshi, S., Varkhedi, V., Finnegan, A., Wang, V., Scheese, C., Tiase, V., Golden Rule for AI Model Inputs of Nurse-Generated Data: Do Not Assume. Podium Presentation at 2026 *AMIA Annual Symposium*, November 7–11, 2026. Dallas, TX.
7. Douthit, B. J., Lo, J., Lee, R., Daramola, T., Yang, Y., Jeffery, A. D., Ivory, C., Cato, K. D., **Rossetti, SC.** (2026). Perspectives on Adapting the CONCERN Early Warning System from Adult to Pediatric Inpatient Care. Podium Presentation at 2026 *AMIA Annual Symposium*, November 7–11, 2026. Dallas, TX.
8. Daramola, T., **Rossetti, S.C.**, Dykes, P.C., Lowenthal, G., Yen, P., Ivory, C., Douthit, B.J., Cato, K.D., Lee, R.Y. (2025). Development and modifications to the CONCERN early warning system implementation toolkit. Poster Presentation at the AMIA 2025 Annual Symposium. Atlanta, GA. November 15-19, 2025.
9. Krupp, A., **Rossetti S**., Dunn Lopez, K., Kemp, A. Leveraging Artificial Intelligence, Simulated National Trials, and Implementation Science Methods to Advance Clinical Decision Support for Nurses. Panel Presentation at the AMIA 2025 Annual Symposium. Atlanta, GA. November 15-19, 2025.
10. Mugoya, R., **Rossetti, S.C**., Thate, J.A., Fan, H., Yen, P. (2025). Nurses' Frustration with the Documentation of Care Plan. Poster Presentation at the AMIA 2025 Annual Symposium. Atlanta, GA. November 15-19, 2025.
11. Fan, H., Lim, J., Mugoya, R., Thate, J., Finnegan, A., **Rossetti, S.C.**, Yen, P. (2025). Facilitating Concept Mapping Process: AI-Enhanced, Expert-Validated. Poster Presentation at the AMIA 2025 Annual Symposium. Atlanta, GA. November 15-19, 2025.
12. Lo, Y.H.J., Henze, L.A., Daramola, T., Lee, R., Xu, X., Probst, M.A., Chang, B.P., Cato, K.D., **Rossetti, S.C.** (2025). Detecting deterioration: qualitative study of emergency department communication patterns. Poster Presentation at the AMIA 2025 Annual Symposium. Atlanta, GA. November 15-19, 2025.
13. **Rossetti, S.** Sugrue, M., Mamuszka, J. Empowering Nurses NOW: Tools for Better Care and Outcomes Panel. NE HIMSS webinar series Reimagining Patient Care: Tackling Engagement, Research, and Workforce Gaps, April 11, 2025
14. **Rossetti, S.** Multisite Pragmatic Cluster-Randomized Controlled Trial of the CONCERN Early Warning System. Invited Presentation at Christiana Care Nursing Research Fellowship in Robotics and Innovation, March 6 2025.
15. Mugoya, R., **Rossetti, S.C**., Thate, J.A., Fan, H., Yen, P. (2025). Nurse Documentation Burden Survey; Exploration of Nurses' Perception of Documentation Burden in the EHR: A Cross-Sectional Study. Poster presentation at the MNRS Annual Conference. Indianapolis, IN, March 2025.

16. **Rossetti, S.** Improving Data Capture while Reducing Documentation Burden. Ed Hammond Scientific Symposium, "From Foundations to Future of Informatics in Health." Duke University, Jan 10, 2025
17. **Rossetti,** AMIA 25x5 Task Force to Reduce Documentation Burden, Memorial Sloan Kettering Grand Rounds, Jan 2025.
18. **Rossetti, S.** Invited Panelist, Orienting AI Toward Health Workforce Well-Being: Examining Risks and Opportunities, Action Collaborative on Clinician Well-being and resilience, National Academy of Medicine, December 9, 2024, La Jolla, CA.
19. **Rossetti, S.** Clinical Care Classification System + AI. Friends of the National Library of Medicine Workshop, virtual, December 4 2024.
20. **Rossetti,** State of Measurement of Documentation Burden. National Burden Reduction Collaborative. AMIA Annual Symposium, November 2024, San Francisco, CA.
21. **Rossetti, S.** Innovations in Understanding and Reducing Documentation Burden. NYP Virtual Innovation Symposium, November 2024.
22. Sloss, E.A., Tiase, V., Cato, K., & **Rossetti, S.** (2024). Decoding Artificial Intelligence (AI): A Comprehensive Tutorial of AI and Applications to Nursing [Pre-conference tutorial]. NI2024, Manchester, UK, July 28-31 2024.
23. **Rossetti, S.** Exploring the Relationship between Payment Models and Documentation Burden. 2023 Office of National Coordinator for Health IT. Annual Conference, December 2023, Washington, DC.
24. **Rossetti, S.** Local Strategies & Nurse Driven Science to Reduce Documentation Burden. 2023 CMS Burden Reduction Conference, November 15, 2023.
25. Chae S, Song J, Barrón Y, Bowles KH, McDonald MV, **Rossetti SC**, Cato KD, Hobensack M, Evans L, Topaz M. Heart Failure Patient Characteristics and Symptoms Documented in Home Health Care Clinical Notes Associated with Emergency Department Visits and Hospitalizations. Podium presentation at the AMIA 2022 Annual Symposium; Nov 5-9, 2022; Washington, DC.
26. Moy AJ, Withall J, Hobensack M, Lee RY, Levy D, Rosenbloom ST, **Rossetti SC**, Johnson KB, Cato KC. Using Topic Modeling to Elicit Insights from the 25x5 Symposium to Reduce Documentation Burden Chat Logs. Podium presentation at the AMIA 2022 Annual Symposium; Nov 5-9, 2022; Washington, DC.
27. **Rossetti SC**, Dykes P, Sengstack P, Murphy J. Technology Will Resolve the Nursing Workforce Shortage Within 5 Years. Informatics Debate at the AMIA 2022 Annual Symposium; Nov 5-9, 2022; Washington, DC.
28. Taylor BN, **Rossetti SC**, Cato KD. Deterioration Events in Patients With Depression. Poster presentation at the AMIA 2022 Annual Symposium; Nov 5-9, 2022; Washington, DC.
29. Lee RY, **Rossetti SC**, Cato KD. Differences in Frequencies of Nursing Flowsheet Documentation by Patients' Primary Language. Poster presentation at the AMIA 2022 Annual Symposium; Nov 5-9, 2022; Washington, DC.
30. Song, J., Ojo, M., McDonald, M.V., Cato, K., **Rossetti, S**., Barron, Y., Sridharan, S., Chae, S., Hobensack, M., Bowles, K. H., & Topaz, M. (2021) Developing a Natural Language Processing Algorithm to Detect Terms Representing Risk of Hospitalization or Emergency Department Visits during Home Health Care. Poster presentation at AMIA 2021 Annual Symposium, San Diego, CA; 2021 Oct 31-Nov 3.
31. **Rossetti, SC**., Rosenbloom, S.T., Johnson, K., Cato, K., Murphy, J., Detmer, D. 25x5 Symposium to Reduce Documentation Burden: Report-out and Call for Action. Abstract and

Panel Presentation. AMIA 2021 Virtual Clinical Informatics Conference, Virtual Conference, May 2021.

32. Song J, McDonald M, Barron Y, Cate K, **Rossetti SC**, Sridharan S, Chae S, Tark A, Adams V, Woo K, Kang MJ, Hobensack M, Ojo M, Bowles K, & Topaz M. (2021) Identifying factors associated with patient's risk for hospitalization or emergency department visits in home health care. Conference presentation abstract at AMIA Clinical Informatics Conference; 2021 Mar 22-25.
33. *Elias J, Moy A, Lucas E, Schwartz J, Cato K, Abramson E, Ancker J, Bostwick S, **Rossetti SC**. Assessing Clinical Staff Usability and Satisfaction with Documentation and Information Retrieval Prior to an Electronic Health Record Implementation. 2020 American Medical Informatics Association (AMIA) Annual Symposium; 2020 Nov 14-18; Virtual Conference.
34. Schwartz J, Knaplund C, **Rossetti SC**, Kang MJ, Dykes P, Korach TZ, Schnock K, Zhou L, Cato KD. Nurse Use of Vital Sign Flowsheet Comments: Shared or Individual Practice? Poster session presented at: 2020 American Medical Informatics Association (AMIA) Annual Symposium; 2020 Nov 14-18; Virtual Conference.
35. **Rossetti, SC**., Moy, AM., Schwartz, J., Kang, MJ, Cato, K. Mixed-Methods Approaches to Understanding, Measuring, and Reducing Clinical Documentation Burden. Abstract and Panel Presentation. AMIA 2020 Virtual Annual Symposium, Virtual Conference, Nov 14-18 2020
36. *Fu, L-H., Knaplund, C., Cato, K. Albers, D., **Rossetti, SC**. Utilizing Timestamps of Longitudinal Data from Electronic Health Record to Predict Clinical Deterioration Events. AMIA 2020 Annual Symposium, Virtual Conference, Nov 14-18 2020
37. Dykes, P., **Rossetti, SC**., Cato, K., Dinov, I. Nursing Science: Stronger Together. Columbia University and University of Michigan Schools of Nursing and the Center for Nursing Excellence at Brigham and Women's Hospital. Virtual Panel. Jul 14 2020
38. *Moy AJ, Schwartz JM, Elias J, Cato K, **Rossetti SC**. EHR Utilization and Fragmentation: Sequence Analysis of Clinical Workflows. NLM Informatics Training Conference, Portland, Oregon, June 22-24, 2020.
39. *Moy AJ, Schwartz JM, Chen R, **Rossetti SC**. Measurement of physician burden in EHRs: a systematic literature review. Poster presented at: AMIA 2019 Annual Symposium, Washington DC, Nov 17-20 2019
40. Woo, K., Adams, V., Wilson, P., Fu, L., Cato, K., **Rossetti, S**., McDonald, M., Shang, J., Topaz, M. Using natural language processing to examine early signs of urinary tract infection in homecare notes. Podium presentation for Annual International Conference on Home Healthcare, Hospice, and Information Technology (H3IT) conference, Seattle, WA, October 12, 2019.
41. Garcia J, **Collins S**, Cato K, Bakken S, Jia H, Kang MJ, Knaplund C, Schnock K, Dykes PD. CONCERN factorial design survey (FDS) methods test: Using REDCap as a survey platform. Poster Presentation at MedInfo World Congress 2019 Aug 25-30, Lyon, France
42. Strudwick, G., Kuziemsky, C., Booth, R., **Rossetti, S**., Chyjek, A., Sakal, M., Harris, S., Strauss, J. Three methods for engaging patients and care partners in patient portal research. Stud Health Technol Inform. 2019 Aug 21;264:1984-1985. doi: 10.3233/SHTI190746.
43. Korach T, Cato K, **Collins S**, Kang MJ, Knaplund C, Dykes P, Wang L, Schnock K, Garcia JP, Jia H, Chang F, Schwartz J, Zhou L. 2019. Unsupervised-learning of concern topics documented by nurses about hospitalized patients prior to a rapid-response event.

Presentation at AMIA 2019 Clinical Informatics Conference; 2019 Apr 30-May 2; Atlanta, GA.

44. Klann J, Kang MJ, Schnock K, Knaplund C, Dykes P, **Collins S**, Cato K. 2019. A Data Warehousing Design for Multi-Domain Inpatient Nursing Data in i2b2. Abstract at AMIA 2019 Clinical Informatics Conference; 2019 Apr 30-May 2; Atlanta, GA.
45. Kang MJ, Zhou L, Chang F, Knaplund C, Garcia JP, Cato K, **Collins S**, Dykes P. 2019. Methodology of Sepsis Prognosis Prediction Model Tailored Clinical Practice. Presentation at AMIA 2019 Clinical Informatics Conference; 2019 Apr 30-May 2; Atlanta, GA
46. *Cato K, Knaplund C, Klann J, Dykes P, Albers D, Kang MJ, Schnock K, Zhou L, Korach T, **Collins S**. 2019. Nursing medication administration data quality: assessment for reuse in analytics. Presentation at AMIA 2019 Clinical Informatics Conference; 2019 Apr 30-May 2; Atlanta, GA.
47. Schnock K, Kang MJ, Chang F, **Collins S**, Knaplund C, Garcia JP, Cato K, Dykes P. 2019. Nursing Flowsheet Elements Across Integrated Health Care System. Podium abstract at AMIA 2019 Informatics Summits; 2019 Mar 25-28; San Francisco, CA.
48. *Kang MJ, Dykes P, Schnock K, Korach T, Zhou L, Thate J, Whalen K, Garcia JP, Knaplund C, Cato K, **Collins S**. 2019. Identifying and Grading Nurses' Concern Concepts about Patient Deterioration Using a Standard Nursing Terminology. Podium abstract at AMIA 2019 Informatics Summits; 2019 Mar 25-28; San Francisco, CA.
49. **Collins S**, Dykes P, Albers D, Klann J, Kang MJ, Schnock K, Zhou L, Korach T, Knaplund C, Cato K. 2019. EHR Surveillance Patterns to Compute when A "Patient does not look right". Ignite Talk Abstract at AMIA 2019 Informatics Summits; 2019 Mar 25-28; San Francisco, CA.
50. *Cato K, Knaplund C, Klann J, Dykes P, Albers D, Kang MJ, Schnock K, Zhou L, Korach T, **Collins S**. 2019. Signals of Nurse Workarounds in Electronic Medication Administration Record Data. Abstract at AMIA 2019 Informatics Summits; 2019 Mar 25-28; San Francisco, CA.
51. Strudwick, G., Leung, K., McLean, A., Kuziemsky, C., Booth, R., **Collins, S**., Borycki, E. (2019). Patients and family members as partners in the adoption, use and evaluation of health information technologies. Poster presentation at Information Technology for Communication in Health conference. Victoria, Canada. February 14-17.
52. Korach, Z. T., **Collins, S. A**., Cato, K. D., Kang, J., Kumiko, O., Couture, B., Knaplund, C., Whalen, K., Thate, J., Dykes, P., Zhou, L. Active Learning for the Identification of Nurses' Concerns from Nursing Notes. AMIA 2018 Annual Fall Symposium; 2018 Nov 3-7; San Francisco, CA.
53. *Kang MJ, Dykes P, Korach T, Zhou L, Thate J, Whalen K, Schnock K, Knaplund C, Couture B, Cato K, **Collins S**. 2018. Identifying Concepts of Nurses' Concerns Using a Standard Nursing Terminology. Poster at AMIA 2018 Annual Fall Symposium; 2018 Nov 3-7; San Francisco, CA.
54. *Couture B, Klann J, Cato K, Knaplund C, Kang MJ, Dykes P, **Collins S**. 2018. Harmonizing Flowsheet Datasets Across EHRs for a Multi-Site Study. Poster at AMIA 2018 Annual Fall Symposium; 2018 Nov 3-7; San Francisco, CA.

55. Hull S, Strudwick G, **Collins S**, Dykes P, Schnock KO, Jeoung Kang M. Patients as Partners in the Hospital Setting: Engagement Methods in Research, Quality Improvement and Beyond. Stud Health Technol Inform. 2018;250:26-27. PMID: 29857359
56. **Collins S**, Couture B, Snyder J, Gershanik E, Benneyan J, Fiumara K, Fagan M, Boxer R, Sheikh A, Bates DW. Patient Generated Safety Data in the Hospital Setting: Trust, Transparency and Learning. Abstract Presentation at AMIA 2018 Clinical Informatics Conference; May 8-10, Scottsdale, AZ.
57. Klann, J.G., **Collins S**, Cato K, Waitman LR, Westra B. 2018. Nursing Documentation and the Clinical Research Informatics Pipeline. Abstract and Panel Presentation at AMIA 2018 Informatics Summits; 2018 March 12-15; San Francisco, CA.
58. *Read T, White E, Rocha R, Karipineni N, Cobb J P, **Collins S**. Data Integrity Challenges for Multi-Site Data Collection in Critical Care. Poster Presentation at Society of Critical Care Medicine Annual Congress; 2017 Jan 21-25; Honolulu, HI.
59. White E, Read T, McCauley D, **Collins S**, Karipineni N, Rocha B, Cobb J P, Rocha R. Assessment of a Data Collection Effort to Study Epidemic Severe Acute Respiratory Infections. Poster Presentation at Society of Critical Care Medicine Annual Congress; 2017 Jan 21-25; Honolulu, HI.
60. **Collins S**, Couture B, Lilley E, DeBord-Smith A, Chang F, Gershanik E. Increased Understanding of Safety Concerns Experienced by Hospitalized Patients and their Families through Real-time Reporting in MySafeCare App. Abstract Presentation at American Medical Informatics Association Annual Fall Symposium; 2016 Nov 12-16; Chicago, IL.
61. Ranade-Kharkar P, Weir C, Norlin C, **Collins S**, Scarton LA, Baker G, Borbolla D, Taliercio V, Del Fiol G. Information Needs of Physicians, Care Coordinators, and Families to Support Care Coordination of Children with Special Health Care Needs (CSHCN). Abstract Presentation at American Medical Informatics Association Annual Fall Symposium; 2016 Nov 12-16; Chicago, IL.
62. *Read T, White E, Karipineni N, Ignatov M, Shanmugam M, Rocha B, Maviglia S, Cobb P, Rocha R, **Collins S**. Utilization of Cost Effective Tools for Queries on Healthcare System Stress. Poster Presentation at the American Medical Informatics Association Annual Fall Symposium; 2016 Nov 12-16; Chicago, IL.
63. White E, **Collins S**, Rocha B, Karipineni N, Read T, Maviglia S, Cobb P, Rocha R. Modifying a Case Report Form to Collect Anonymous and Consistent Data. Poster Presentation at the American Medical Informatics Association Annual Fall Symposium; 2016 Nov 12-16; Chicago, IL.
64. *Couture B, **Collins S.** Use of OpenSource Tools for a Patient-Facing Safety Reporting Tool: MySafeCare. OC16 Conference, October 3, 2016, Boston, MA.
65. *Thate J, Couture B, **Collins S**. Use of Documentation in the Patient Record for Interprofessional Communication and Collaborative Decision-Making: Implications for the Reduction of CLABSI. Poster Presentation at 26th Annual Summer Institute in Nursing Informatics, Informatics at the Cross Roads of Care Coordination; 2016 Jul 20-22; Baltimore, MD.

    Research Poster Award Winner

66. **Collins S**, Senathirajah Y, Iribarren S, Yoon S, Dowding D. Deep Dive: Evaluation Methods for Electronic Health Records. Abstract and Panel Presentation at The 13th International Congress in Nursing Informatics; 2016 Jun 25-29; Geneva, Switzerland. PMID: 27332332
67. Dykes, P., **Collins S.,** Schnock, K., Benneyan, J. Informatics Strategies and Systems Engineering Tools for Making Acute Care More Patient-Centered. iHealth, 2016 May 4-6; Minneapolis, MN (selected oral abstract for Dr. Collins presented by Esteban Gershanik).
68. **Collins S,** Couture B, Gershanik E, Smith A, Chang, F, Lilley L. Development and Pilot of MySafeCare: An Application for Patients and Family to Report Safety Concerns in the Hospital. New England Nursing Informatics Consortium Annual Conference: Trends in Clinical Informatics, April 2016, Waltham, MA.
69. **Collins S,** Gesner E, Mar P, Colburn D, Rocha R. Structured Data Elements Optimization: Challenges & Mixed-Methods Data Driven Approaches. New England Nursing Informatics Consortium Annual Conference: Trends in Clinical Informatics, April 2016, Waltham, MA.
70. Dykes P, **Collins S**, Dalal A, Greysen R, Dwyer C. Patient Portals: Best Practices and New Directions for Development and Investigation. Abstract Presentation at American Medical Informatics Association Annual Fall Symposium; 2015 Nov 15-18; San Francisco, CA.
71. *Leung W, **Collins S***, Dalal A*. (*co-senior authors). Developing an Electronic Survey to Capture Current State of Acute Care Patient Portals to Inform Best Practices and Future Directions. Poster Presentation at American Medical Informatics Association Annual Fall Symposium; 2015 Nov 15-18; San Francisco, CA.
72. Gesner E, **Collins S**, Mar P, Rocha R. Developing Principles and Best Practices for Structured Documentation. Poster Presentation at American Medical Informatics Association Annual Fall Symposium; 2015 Nov 15-18; San Francisco, CA.
73. *Couture B, Cleveland J, Ergai A, Katsulis Z, Ichihara N, Smith A, Gershanik E, Chang F, Goodwin A, **Collins S**. User-Centered Design of the Clinical Dashboard for the MySafeCare Patient Safety Reporting System. Poster Presentation at American Medical Informatics Association Annual Fall Symposium; 2015 Nov 15-18; San Francisco, CA.
74. **Collins S**, Kuziemsky C, Reddy M, Siek K. Collaboration and Health Information Technologies: Towards Defining and Operationalizing the Collaboration Space. Abstract Presentation at American Medical Informatics Association Annual Fall Symposium; 2015 Nov 15-18; San Francisco, CA.
75. **Collins S**, Tsivkin K, Klinkenberg-Ramirez S, Iskhakova D, Nandigam H, Mar P, Rocha R. Next-Generation Terminology Requirements for Interprofessional Care Planning. Abstract Presentation at the American Medical Informatics Association Annual Fall Symposium; 2014 Nov 16-19; Washington, DC. (CME credits awarded to attendees.)
76. *Klinkenberg-Ramirez S, Tsivkin K, Mar P, Nandigam H, Iskhakova D, Rocha R, **Collins S.** Relating Health Concerns and Goals in Interprofessional Care Planning. Poster Presentation at the American Medical Informatics Association Annual Fall Symposium; 2014 Nov 16-19; Washington, DC.
77. **Collins S**, Maviglia S, Mar P, Sordo M, Zhou Li, Lagor C, Rocha R. Clinical Informatics Program and Strategy to Support a Large-Scale EHR Implementation. Poster Presentation at the American Medical Informatics Association Annual Fall Symposium; 2014 Nov 16-19; Washington, DC.

78. **Collins S**, Senathirajah Y, Yoon S, Yen P. Triangulation Approaches to Evaluation Methods of Health IT. NI2014: The 12th International Congress on Nursing Informatics, 2014 June 22-25; Taipei, Taiwan.
79. **Collins S**, Reilly K, Mahadik K, Sapirstein A. Panel on Lessons from "Go Live" and Driving Adoption. Libretto Consortium Annual Meeting, 2014 June 5; Chicago, IL.
80. *Swenson M, Mercier N, Goldsmith D, Garber A, **Collins S.** Enterprise-wide, Evidence-Based Multidisciplinary Plan of Care Content Validation: Guiding Principles and Lessons Learned. New England Nursing Informatics Consortium Annual Conference: Trends in Clinical Informatics: A Nursing Perspective, May 2014, Waltham, MA.

**Senior Author*

- **Case Reports**

1. **Collins SA**, Bavuso K, Zuccotti G, Rocha R. Lessons Learned for Collaborative Clinical Content Development: A Case Report, Applied Clinical Informatics. 2013; 4(2):304-316 PMC3716419.

- **Thesis**

1. **Collins SA**. Informatics Methods to Understand Interdisciplinary Communication Related to Common Goals in the Intensive Care Unit [dissertation]. New York (NY): Columbia University; 2009

- **Clinical Guidelines**

Pain Assessment Clinical Reference Model

Role: Lead Author and Developer

The Pain Assessment Clinical Reference Model is a validated set of structured clinical data elements that is used to guide the design of clinical documentation forms and is clinically relevant across settings, disciplines, and specialties. I chaired the development, validation, and continuous refinement of the model for its use across all clinical sites within Partners Healthcare System.

Skin Alteration Assessment Clinical Reference Model

Role: Lead Author and Developer

The Skin Alteration Assessment Clinical Reference Model is a validated set of structured clinical data elements that is used to guide the design of clinical documentation forms and is clinically relevant across settings, disciplines, and specialties. I chaired the development, validation, and continuous refinement of the model for its use across all clinical sites within Partners Healthcare System.

Lung Exam Assessment Clinical Reference Model

Role: Lead Author and Developer

The Lung Exam Assessment Clinical Reference Model is a validated set of structured clinical data elements that is used to guide the design of clinical documentation forms and is clinically relevant across settings, disciplines, and specialties. I chaired the development, validation, and continuous refinement of the model for its use across all clinical sites within Partners Healthcare System.

Guideline for Chart Etiquette and Optimal Use of the Shared EHR

Role: Lead Author and Developer
Guideline developed and in use at New York Presbyterian, Columbia Doctors, and Weill Cornell Medicine to establish chart etiquette guidance and a common set of principles and accountability for shared EHR use and clinical note documentation, including a focus on appropriate versus inappropriate uses of copy/paste, copy forward, and documentation cloning.

Core Principles for Data Sharing and Use
Role: Co-Author
Guideline developed at New York Presbyterian, Columbia Doctors, and Weill Cornell Medicine to establish guidance, a common set of principles, and accountability for external data sharing with third parties for research and other projects.

16. Invited and/or Peer-Selected Presentations at Local, Regional, National or International Levels:

Local

2026	Inaugural Clinical Research Forum, AI at VP&S Research Working Group, Human-Centered and Clinically Informed AI Methods: Highlights from The CONCERN Early Warning System. October 13, 2026
2026	Columbia Alumni Leaders Experience Panel / Invited Panelist, Our Partner, AI. October 10, 2026.
2026	Invited Panelist, Human-AI Dissonance Conference, Frontiers of Data Science and AI initiative, Data Science Institute, Columbia University, February 9, 2026
2025	Invited Keynote, Nursing Expertise Driving Harm Reduction: Opportunities for AI and Nursing / NewYork Presbyterian Nursing Research, Evidence-Based Practice & Innovation Symposium: Advancing Safety Through Critical Thinking and Team Dynamics: Research on Harm Reduction, November 12, 2025
2025	Invited Seminar, Opportunities for Human-centered, Nurse Driven AI Solutions to Improve Patient Outcomes and Decrease Clinician Burden, CUSON Office of Scholarship & Research Development, Reach for Research Excellence (REX) Seminar Series, Columbia University School of Nursing
2025	CONCERN Early Warning System Demo AI VP&S Initiative Kickoff, CUIMC
2019	CONCERN Study / Invited Talk, Value Institute Speaker Series, NewYork Presbyterian Hospital
2018	Technology in Nursing: New Solutions for Patient Care / Invited Panelist, Alumni Day, Columbia University School of Nursing
2016	Magnet Matters®: Nursing Research / Invited Talk, Discover Brigham Day, BWH
2015	Publications 2014 Year in Review / Seminar, Clinical Informatics, Partners eCare
2014	Delphi Survey Results: Nursing Informatics Competencies for Nurse Leaders / Seminar Partners eCare Nursing Community

2014 Next-Generation Terminology Requirements for Interprofessional Care Planning / Seminar Department of Medicine Seminar, BWH

2014 AMIA Poster Madness Session / Seminar, Clinical Informatics, Partners eCare

2010 Interdisciplinary Information Exchange and the EHR in Acute and Critical Care / Invited Talk, Sigma Theta Tau International Honor Society Annual Reception, Columbia University

2007 Technology in Emergency and Critical Care Forum / Invited Talk Center for Advanced Information Management, Columbia University

Regional

2026 Northwell Health AI Grand Rounds, Human-Centered and Clinically Informed AI: The CONCERN Early Warning System, October 21, 2026

2026 University of Connecticut Elisabeth Deluca School of Nursing Research and Scholarship Day / Invited Keynote Speaker, Human-Centered, Nurse-Driven AI Solutions to Improve Patient Outcomes and Decrease Burden. April 29, 2026, Storrs, CT.

2026 New England Nursing Informatics Consortium 2026 Trends in Clinical Informatics: A Nursing Perspective / Invited Keynote Speaker, Nurse-Driven, Human-Centered AI: Opportunities to Improve Patient Outcomes and Decrease Burden. May 1, 2026, Waltham, MA.

2026 Center for Artificial Intelligence Research (CAIR) AI in Action seminar series, Wake Forest University School of Medicine / Invited Talk, Nursing Surveillance from Invisible to Measurable to Indispensable: The CONCERN Early Warning System Trial. Monday May 11, 2026, Virtual.

2026 Endeavor Health and University of Chicago, Health Outcomes Research Seminar "Harnessing AI to Enhance Health Outcomes" CTSA Webinar Series / Invited Talk, CONCERN Early Warning System: AI-driven Real-Time Early Warning System for Patient Deterioration. March 17, 2026, Virtual.

2026 University of Pennsylvania Health System (UPHS), Penn Medicine Critical Care Education Series / Invited Talk, CONCERN Early Warning System: AI-driven Real-Time Early Warning for Patient Deterioration. January 21, 2026, Virtual.

2025 Galien Patient Summit/ Invited Panelist, From Promise to Practice: Navigating AI's Potential in Enhancing Patient-Centered Care. October 30, 2025. The Alexandria Center for Life Science, New York City.

2025 North Carolina Nursing Informatics Symposium / Invited Talk, Nurse-Driven AI and Opportunities to Reduce Burden, November 2025

2025 Columbia DocTalks / Invited Panelist, AI and Healthcare. January 27, 2025. The Paley Center for Media, New York, NY.

2022 Outputs, Next Steps, and Local Action from the 25x5 Initiative to Reduce Documentation Burden / Invited Talk, New England Nursing Informatics Consortium, April 2022

2022	Outputs, Next Steps, and Local Action from the 25x5 Initiative to Reduce Documentation Burden / Invited Talk, HIMSS NY Chapter Symposium, May 2022
2021	Documentation Burden and 25 by 5 Action Plan / Invited Talk, New York Organization of Nurse Executives and Leaders (NYONEL), Virtual
2021	Documentation Burden and 25 by 5 Action Plan / Invited Talk, New England Nursing Informatics Consortium (NENIC), Virtual
2021	Documentation Burden and 25 by 5 Action Plan / Invited Talk, Healthcare Information and Management Systems Society (HIMSS) Maryland Chapter, Virtual
2019	Evaluation of EpicTogether: Measuring Efficiency, Satisfaction, Quality and Performance Before and After Epic Implementation / Invited Talk, Department of Healthcare Policy and Research, Weill Cornell Medicine, New York, NY
2018	Predictive Analytics Leveraging Healthcare Process Models of Clinical Concern (HPM-CC): The CONCERN Study / Invited Talk, Ai4 Healthcare: Exploring Top Use Cases of AI & ML in Healthcare, New York, NY
2017	WebMD, or my MD? / Invited Panelist, MEDSTART 2017 Conference, Tufts University School of Medicine, Boston, MA
2016	A-Z: A Year in Review / Invited Talk, NENIC Annual Symposium, Waltham, MA
2016	Innovations that Transform Patient and Family Experience / Invited Talk, Nurse Innovation & Entrepreneurship Summit, Northeastern University Bouve College of Health Sciences, Boston, MA
2015	A-Z: A Year in Review / Invited Talk, NENIC Annual Symposium, Waltham, MA
2014	A-Z: A Year in Review / Invited Talk, New England Nursing Informatics Consortium (NENIC) Annual Symposium, Waltham, MA
2012	A Requirements Analysis Methods for Standards-Based Multidisciplinary Rounding Tool to Support Continuity of Care, HIMSS Nursing Informatics Institute, co-sponsored by NENIC, Boston, MA
2012	Common Ground in Handoff and Rounds Communication for Standards-Based Continuity of Care, NENIC Annual Symposium, Waltham, MA

National

2027	Friends of the National Institute of Nursing Research (FNINR) Educational Event on The Value of Nursing Research: Impact, Outcomes, and Costs / Invited Speaker, Building Programs of Research in AI and Informatics: Investment and Outcomes, January 25, 2027, Virtual.
2026	Nursing Knowledge Big Data Science (NKBDS) Data, Informatics, and Visions Exchange (DIVE) Journal Club Webinar, hosted by University of Florida. Real-time surveillance system for patient deterioration: a pragmatic cluster-randomized controlled trial, September 29, 2026.
2026	Practical AI Podcast / Invited Guest, AI & Nursing, Recorded May 6, 2026.

2026	NeoMind-AI Webinar Series / Invited Talk, The CONCERN Early Warning System: Clinical Implementation, Trial Outcomes, and Expansion to New Settings, October 23, 2026, Virtual.
2025	National Academy of Medicine Annual Meeting 2025 / Invited Panelist, The AI-Powered Evolution of Health Care and Training, October 20, 2025, Washington, DC.
2025	Opportunities for Human-Centered, Nurse-Driven AI Solutions to Improve Patient Outcomes and Decrease Clinician Burden / Invited Keynote, Midwest Nursing Research Society 49th Annual Research Conference, March 29 2025, Indianapolis, Indiana
2023	National strategies, priorities, and challenges to reducing documentation burden and evaluating impact / Invited Talk, Vanderbilt Clinical Informatics Center (VCLIC), Vanderbilt University Medical Center
2023	Update of the AMIA 25x5 Initiative to Reduce Documentation Burden / Invited Talk, HL7 EHR Work Group, Reducing Clinician Burden Project
2022	Outputs of the 25x5 Symposium to Reduce Documentation Burden / Invited Talk, National Library of Medicine Board of Regents, Annual Meeting February 2022
2022	Outputs of the 25x5 Symposium to Reduce Documentation Burden / Invited Talk, HIMSS CNO Roundtable, May 2022
2021	Documentation Burden and 25 by 5 Action Plan / Invited Talk, Health Level 7 International (HL7) EHR Workgroup on Clinician Documentation Burden, Virtual
2021	Documentation Burden and 25 by 5 Action Plan / Invited Talk, American College of Medical Informatics (ACMI) Annual Meeting, Virtual
2021	Documentation Burden and 25 by 5 Action Plan / Invited Talk, Research Conference of the Department of Medical Informatics & Clinical Epidemiology, Oregon Health & Sciences University, Virtual
2021	Decreasing Documentation Burden: A Path to Illuminate Valuable Nursing Documentation Signals / Invited Talk and Panelist, Office of the National Coordinator for Health IT (ONC), Annual Meeting, Virtual
2021	Leveraging Biases in EHR Data Patterns to Predict Risky Patient States: Opportunities to Monitor and Mitigate Racial and Ethnic Biases in Predictive Models / Invited Talk and Panelist, National Institute of Nursing Research Roundtable (NINRR), Virtual
2019	The CONCERN Study: Clinical Decision Support Communication for Risky Patient States / Invited Talk, University of Florida Rita Kobb Conference, Gainesville, FL
2019	Nursing and Data Science / Invited Talk and Panel, Kresge Center for Nursing Research at Decker School of Nursing, Binghamton University (SUNY), Binghamton, NY
2018	Clinical Decision Support That Works / Invited Plenary Presentation and Panel, AMIA Clinical Informatics Conference 2018, Scottsdale, AZ
2018	Development and Evaluation of MySafeCare: Trust, Transparency and Learning in capturing Patient Generated Safety Data / Invited Plenary Presentation and Panel, Cleveland Clinic Sixth Annual Nursing Innovation Summit, October 2018, Cleveland, OH

2018 Patient Safety and Communication in the Hospital Setting: Innovative Tools and Learning from Patient and Care Team Perspectives / Invited Talk, Verily Life Sciences, Cambridge, MA

2017 Acute Care Patient Portals: a Qualitative Study of Stakeholder Perspectives on Current Practices / Invited Webinar, Journal of the American Medical Informatics Association Journal Club, National Webinar

2016 Acute Care Patient Portal and Current Practices / Invited Lecture, ANI Consumer eHealth Series, National Webinar

2016 Clinical Decision Support 101 and Its Unique Applications to Nursing / Tutorial, AMIA Nursing Informatics Workgroup Pre-Symposia, Chicago, IL

2016 Development and Pilot of MySafeCare: An Application for Patients and Family to Report Safety Concerns in the Hospital / Invited Talk, University of Maryland, Summer Institute in Nursing Informatics, Baltimore, MD

2015 Governing Structures for Nursing Informatics and Recommendations for Health IT Adoption and Optimization / Invited Talk, HIMSS Nursing Informatics Executive Workgroup, National Webinar

2014 A to Z: A Year in Review / Invited Talk, HIMSS Nursing Informatics Symposium, Orlando, FL

2013 Development of Conceptual Framework for the Organizational Structure of Nursing Informatics / Invited Talk, HIMSS Nursing Informatics Executives Leadership Engagement Series, National Webinar

2012 Communicating Necessary Concerns and Evidence from RNs (CONCERN) / Invited Talk, National Teaching Institute & Critical Care Exposition (NTI), Orlando, FL

International

2025 CONCERN Early Warning System: AI-driven Real-Time Early Warning for Patient Deterioration / Invited Talk, AI Nurses Network United Kingdom.

2018 Patient Generated Safety Data in the Hospital Setting: Trust, Transparency and Learning / Invited Keynote Presentation, Conference on Improving eHealth Outcomes through Patient and Family Engagement, Canadian Institutes of Health Research (CIHR), Toronto, CA

2016 Nursing Informatics Competencies: Psychometric Validation, Dissemination, and Maintenance of Self-Assessment Tool for Nurse Leaders / Tutorial, International Congress of Nursing Informatics NI2016, Geneva, Switzerland