

**Columbia University Irving Medical Center
Curriculum Vitae**

1) Date of preparation of CV: April 15, 2025

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
 - Home Address: 15 Plymouth Rd, Chappaqua, NY 10514
 - Work Phone: 781-801-9211
 - Work Email: sac2125@CUIMC.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:

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

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>

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:

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

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 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 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 Workgroup, 13th International Congress on Nursing Informatics
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• 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, New York 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**

2021-present	Editorial Board, Journal of Biomedical Informatics (JBI)
2018-present	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**

2025	NIH Special Emphasis Review Panel, National Heart, Lung, and Blood institute
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**

- 5/1/2025 - 4/30/2027 CONCERN 3.0: Optimization of Pediatric CONCERN EWS to non-AMC settings
American Nurses Foundation
MPI: Rossetti (contact) (Other MPI: Cato)
Total Directs: \$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 - 9/12/2026 Scalable, Shareable, and Computable Clinical Knowledge for AI-Based Processing of Hospital-Based Nursing Data (SC2K)
Assistant Secretary for Technology and Policy (ASTP)
90AX0042
PI: Rossetti
Total Directs: \$998,903
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)
2R01NR016941-07
MPI: Rossetti (contact) (Other MPI: Cato)
Total Directs: \$3,242,493
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.

- 4/25/2023 - 1/31/2027 Communicating Narrative Concerns Entered by RNs (CONCERN)
National Institute of Nursing Research (NINR)
2R01NR016941-07
MPI: Rossetti (contact) (Other MPI: Cato)
Total Directs: \$3,242,493
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)
Total Directs: \$993,947 (Total directs exclusive of subaward directs: \$543,404)
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
Total Directs: \$4,050,002
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)

Total Directs: \$4,987,652

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 - 9/20/2026

EnCoRe MoMS: Engaging Communities to Reduce Morbidity from Maternal Sepsis

National Institutes of Health (NIH)

UG3HD111247

Co-Investigator: Rossetti (PIs: Reddy, Friedman, Goffman, Hall)

Total Directs: \$3,765,428

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 - 1/31/2025

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

Total directs: \$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**

- 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)
Directs: \$102,220 for Columbia subaward
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)
Total Directs: \$2,138,005 (Columbia directs exclusive of subaward directs: \$1,319,712)
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)
Total Directs: \$663,061
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)
Sponsor grant number: N/A
PI: Rossetti
Total Directs: \$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)
Total Directs: \$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
Role: Investigator (PI: Hill)
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: Investigator (PI: Bates)
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
Role: Advisor (PI: Strudwick)
- 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
Role: Advisor (PI: Strudwick)
- 2017-2018 Improving eHealth Outcomes through Patient and Family Engagement
Canadian Institutes of Health research (CIHR) Planning and Dissemination Grant,
Institute Community Support
Role: Investigator (PI: Strudwick)
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
PI: Collins (\$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) (\$1,000,000 - total direct costs for project 1)
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)
 - 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
Role: Investigator (PI: Perren Cobb) (\$4,911,531)
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 (PI:
Christopher Landrigan)
Role: Advisor, Scientific Oversight Committee

- 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.
- 2012-2017 Nursing Informatics Competency Assessments (NICA)
PI: Collins
This work is developing and validating informatics self-assessment competency scales based on nursing role using psychometric validation techniques.
- 2015-2016 Stakeholder Queries on Healthcare System Stress
U.S. Department of Health and Human Services (HHS) O100201400022A Office of the Assistant Secretary for Preparedness and Response (ASPR) Contract
Role: Site-PI (PI: Perren Cobb) (\$200,000)
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
MPI: Collins (\$120,000) (Other MPI: Anuj Dalal)
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
MPI: Collins (\$100,000) (Other MPI: Anuj Dalal)
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
Role: Investigator (PI: David Bates)
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
PI: Collins (\$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
PI: Collins (\$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
PI: Collins (\$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.
- 2010-2012 Data Mining Acute Surveillance Knowledge to Extract and Display
NIH Clinical Loan Repayment Program funded by National Library of Medicine
Role: Recipient of Award
This loan repayment funding was in support of my program of research to increase patient safety by leveraging information and communication technologies to derive knowledge from clinical documentation and to support interdisciplinary communication.
- 2010-2011 Cognitive Complexity and Error in Critical Care
James S. McDonnell Foundation
Role: Investigator 2010-2011, Consultant 2011-2012 (PI: Vimla Patel, site-PI: David Kaufman)
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
Role: Investigator (PI: David Vawdrey)
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
Role: Project Coordinator (PI: Patricia Stone)
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**

- 7/1/2022 - 6/30/2027 Modeling informatics data to track maternal risk and care quality
Submitted to National Institute of Child Health and Human Development (primary) and National Institute of Nursing Research
1R01HD104943-01A1

PI: Freidman (contact) (Other MPI: Rossetti)

Total directs: \$2,466,412 (Columbia directs exclusive of subaward directs: \$1,729,269)

The overarching goal of this project is to leverage electronic health record (EHR) data to determine to what degree recommended safety practices and clinical management for (i) severe hypertension, (ii) obstetric hemorrhage, (iii) sepsis, and (iv) frankly abnormal vital signs are associated with decreased risk for a major complication or death (failure to rescue).

Pending IRG Review, Scientific Review Group: Healthcare Delivery and Methodologies (HDM), Council Review 05/2022

7/1/2022 - 6/30/2025

CONCERN Psych (Communicating Narrative Concerns Entered by RNs in the Inpatient Psychiatric Setting)

Submitted to National Institute of Nursing Research

MPI: Cato (contact) (Other MPI: Rossetti)

Total directs: \$1,673,579 (Columbia directs exclusive of subaward directs: \$862,657)

The aim of this project is to design and evaluate EHR clinical decision (CDS) tools at two inpatient psychiatric hospitals that expose to physicians and nurses our new predictive data source from clinical documentation to increase care team situational awareness at risk for psychiatric deterioration.

Pending IRG review; Scientific Review Group Pending; Council Review 5/2022

7/1/2022 - 6/30/2025

RESCUE: Rare Diseases Detection and Escalation Support via a Learning Health System

Submitted to National Human Genome Research Institute

Role: Co-Investigator (PI: Liu)

Total directs: \$2,997,648 (Columbia directs exclusive of subaward directs: \$2,236,868)

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.

Pending IRG review; Scientific Review Group National Human Genome Research Institute Special Emphasis Panel (ZHGI SRC (99)); Council Review 5/2022

12) Educational Contributions:

Categories:

- **Direct Teaching/Precepting/Supervising**

Local

Columbia University Courses

- 2023-2025 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
- 2020-2025 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
- 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**

2025 Mahshad Koohi Habibi Dehkord/ Pre-doctoral Candidate, New jersey Institute of Technology
Career Stage: PhD degree candidate. Mentoring role: Dissertation Committee, external member
Accomplishments: defense scheduled May 2025

2023-2025 Rosie Mugoya/ Pre-doctoral Candidate, Washington University School of Medicine
Career Stage: PhD degree candidate. Mentoring role: Dissertation Committee, external member
Accomplishments: Successful dissertation defense March 2025

2024-present Rebecca Shyu/ Pre-doctoral National Library of Medicine Trainee, Columbia University Department of Biomedical Informatics
Career Stage: PhD degree candidate. Mentoring role: Advisor
Accomplishments: pending given start spring 2024

2023-2024 Jennifer Thate/ Visiting Scholar, Columbia University Department of Biomedical Informatics, Professor Siena College

	<p>Career Stage: Sabbatical. Mentoring role: Advisor Accomplishments: Let qualitative data collection and analysis for EndBurden grant.</p>
2021-present	<p>Courtney Diamond/ Pre-doctoral National Library of Medicine Trainee, Columbia University Department of Biomedical Informatics. Career Stage: PhD degree candidate. Mentoring role: Advisor Accomplishments: Submitted paper to AMIA Annual Symposium evaluating LLM</p>
2022-present	<p>Rachel Lee/ Post-doctoral Research Fellow, Columbia University Department of Biomedical Informatics. Career Stage: Fellow. Mentoring role: Advisor Accomplishments: Recipient 2024 Homer Warner Award and Nursing Student Paper Award 2024 AMIA Annual Symposium.</p>
2022-2024	<p>Mohtashim Bokhari/ Post-doctoral Research Fellow, Columbia University Department of Biomedical Informatics. Career Stage: Fellow. Mentoring role: Advisor Accomplishments: Developed monitoring tool for CONCERN EWS.</p>
2023-2024	<p>Jennifer Withall/ Postdoctoral Research Fellow, Columbia University School of Nursing Career Stage: Fellowship. Mentoring role: Advisor Accomplishments: Let stakeholder engagement and usability evaluation of CONCERN EWS.</p>
2021-present	<p>Fangyi Chen/ Masters Student, Columbia University Department of Biomedical Informatics. Career Stage: Masters degree candidate. Mentoring role: Advisor Accomplishments: 2 journal publications and accepted into Columbia University Department of Biomedical Informatics PhD Program for September 2024.</p>
2021-2023	<p>Victor Castano Iraheta / Medical Student, College of Physicians and Surgeons, Columbia University Medical Center Career Stage: MD/Masters in Biomedical Sciences Dual Degree Program 2023, selected for 2021-2022 Vagelos College of Physicians and Surgeons Dean's Research Fellowship. Mentoring role: Named mentor on Fellowship.</p>
2021-present	<p>Brett Youngerman, MD, MS / Assistant Professor, Department of Neurological Surgery, Columbia University Medical Center Career Stage: Awarded TRANSFORM KL2 Mentored Career Development Award (March 2021). Mentoring role: Named mentor on K12 Award.</p>
2020-2021	<p>SivaDurga Thotapalli / Masters Student, Columbia University Department of Biomedical Informatics. Career Stage: Masters degree candidate. Mentoring role: Advisor Accomplishments: Development of model to predict length of bed occupancy for inpatient beds based on EHR data.</p>
2020	<p>Shirin Sadri / Medical Student, Columbia University Irving Medical Center. Career Stage: Informatics Research Elective. Mentoring role: Advisor Accomplishments: Served as reviewer of literature on measures of documentation burden among physicians and nurses, assist in manuscript preparation. Defined project scope and searched existing literature for understanding of changes in</p>

	telemedicine and patient portal usage in the setting of COVID-19, assisted in IRB modification and submission of TRAC request.
2018-2021	Eugene Lucas, MD / Clinical Informatics Fellow, Columbia University Department of Biomedical Informatics. Career Stage: Fellow. Mentoring role: co-Advisor 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 Career Stage: Pre-Medical Student. 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. Career Stage: Masters degree candidate. Mentoring role: Advisor Accomplishments: Patient reported outcomes data preparation and collection for Value Institute project: Patient-reported Outcomes in a Cardiology Clinic
2018-2021	Jessica Schwartz, RN, BSN / Pre-doctoral Trainee, Columbia University School of Nursing. Career Stage: PhD degree candidate. Mentoring role: Co-advisor with Kenrick Cato. Accomplishments: Successfully defended dissertation 2021.
2018-2023	Amanda Moy, MPH / Pre-doctoral National Library of Medicine Trainee, Columbia University Department of Biomedical Informatics. Career Stage: PhD degree candidate. Mentoring role: Advisor Accomplishments: Successfully defended dissertation July 2023.
2018-2020	Li-Heng Fu, MD / Masters Student, Columbia University Department of Biomedical Informatics. Career Stage: Masters degree candidate. Mentoring role: Advisor Accomplishments: Review of literature focused on development of early warning systems.
2018-2020	Jonathan Elias, MD / Clinical Informatics Fellow, Columbia University Department of Biomedical Informatics. Career Stage: Fellow. Mentoring role: co-Advisor 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. Career Stage: PhD degree candidate. Mentoring role: Dissertation Committee Member Accomplishments: Submission of dissertation proposal focused on HIV panel management and information needs.
2018-2019	Cody Slater / Medical Student, Columbia University College of Physicians and Surgeons Career Stage: Medical Student. 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.
Career Stage: Fellow. 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
Career stage: Post-doctoral Research Fellow. Mentoring role: Principal Investigator of CONCERN Study and co-Advisor to Dr. Kang who is Fellow on the CONCERN Study.
- 2017-2021 Min Jeoung Kang, RN, PhD / Post-doctoral Research Fellow, Brigham and Women's Hospital and Harvard Medical School, Boston, MA
Career stage: Post-doctoral Research Fellow. Mentoring role: Principal Investigator of CONCERN Study and co-Advisor to Dr. Kang who is Fellow on the CONCERN Study.
- 2017 Monica Gilmore, RN / MSN Candidate, Regis College, Weston, MA
Career stage: Masters degree candidate, spring semester 2017. Mentoring role: Partners Clinical Informatics Research Practicum Advisor.
- 2017 Megan Duffy-Sherlin, RN / Masters Nursing Administration, Northeastern University, Boston, MA
Career stage: Masters degree candidate, fall semester 2017. Mentoring role: Partners Clinical Informatics Research Practicum Advisor.
- 2016 Pallavi Ranade-Kharkar, PhD Candidate, Department of Biomedical Informatics, University of Utah, Salt Lake City, UT
Career stage: PhD Candidate. Mentoring role: Doctoral Dissertation Committee Member Accomplishments: First author of abstract presentation at AMIA Fall Symposium.
- 2016 Jennifer Prey / PhD Candidate, Department of Biomedical Informatics, Columbia University, New York, NY
Career stage: PhD Candidate. Mentoring role: Doctoral Dissertation Committee Member. Accomplishments: Published first author paper in International Journal of Medical Informatics.
- 2015-2016 Jennifer Thate, RN, MSN / PhD Candidate, Villanova University School of Nursing and Assistant Professor State University of New York Plattsburgh
Career stage: PhD Candidate. Mentoring role: Partners Clinical Informatics Research Practicum Advisor and Doctoral Dissertation Committee Member. Accomplishments: Research Poster Award Winner at 26th Annual Summer Institute in Nursing Informatics.
- 2015-2016 Elizabeth Lilley, MD / Research Fellow, Department of Surgery, BWH
Career stage: Postdoctoral fellowship. Mentoring role: Principal Investigator of MySafeCare research project. Accomplishments: Performed qualitative and quantitative data collection and analysis and contributed as co-author to AMIA and iHealth abstract presentations.
- 2014-2015 Martin Fehrenbach, MS / Informatics Consultant, Smedley AG, Cambridge, MA

- Career stage: Masters degree candidate. Mentoring role: Partners Clinical Informatics Research Practicum Advisor and Master's Thesis Committee Member. Accomplishments: Conducted an evaluation of Congestive Heart Failure Content and Usability for Partners Enterprise Clinical Information Systems.
- 2014-2015 Naoaki Ichihara, MD, MPH / Cardiologist, Tsuchiura Kyodo Hospital, Tsuchiura, Japan
Career stage: Visiting Researcher. Mentoring role: Academic sponsor and site contact for work as visiting researcher on MySafeCare research project. Accomplishments: Contributed to development of User-centered design of the MySafeCare Patient Facing Application and co-author of NENIC poster abstract published in CIN: Computers, Informatics, Nursing.
- 2014 Kim Whalen, RN, MSN, CCRN / Pediatric ICU Nursing Practice Specialist, MGH
Career stage: Masters degree candidate. Mentoring role: Partners Clinical Informatics 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
Career stage: Postdoctoral fellowship. Mentoring role: Principal Investigator of MySafeCare research project. Accomplishments: Performed user-centered design requirements identification and analysis for first app to capture safety concerns from patients and families while in the hospital and contributed as co-author to NENIC, AMIA and iHealth abstract presentations.
- 2013 Sarah Laperle, RN, MSN / Nurse Practitioner, Central Maine Medical Center, Lewiston, ME
Career stage: Masters degree candidate. Mentoring role: Partners Clinical Informatics Research Practicum Advisor. Accomplishments: Development and validation of observational tool for continuity of care data collection during multidisciplinary rounds.
- 2010-2011 Lauren Wilcox-Patterson, PhD / Assistant Professor, School of Interactive Computing, Georgia Institute of Technology, Atlanta, GA
Career stage: PhD candidate. Mentoring role: Advised on qualitative data collection and analysis including ethnographic observations, interviews, and focus groups with patients and clinicians. Accomplishments: Doctoral dissertation focused on patient-facing informatics tools.
- 2010-2011 Kenrick Cato, RN, PhD / Associate Research Scientist, Columbia University School of Nursing, New York, NY
Career stage: PhD candidate. Mentoring role: Project PI
Accomplishments: Investigator as pre-doctoral trainee on CONCERN Research project funded by AACN.

- **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 Coordinator, Department of Biomedical Informatics Seminar Series

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**

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 inform 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. **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. (2025). Real-time surveillance system for patient deterioration: A pragmatic cluster-randomized controlled trial. *Nature Medicine*. <https://doi.org/10.1038/s41591-024-02933-0>. Published online: April 2, 2025
2. 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>
3. Sloss, E, Owoyemi, A, Mishra A, Sidwell K, Abdul S, Dawood G, Allen M, Austria D, Pope Z, Chekeni F, Corley S, Grigg A, Hartman V, Johnson KB, Levy, DR, Marshal K, Murphy J, Newman B, Phillips T, Smith KD, Szymanski J, **Rossetti, S.** Development of the TrendBurden Survey: Assessing Perceived Documentation Burden Among Health Professionals in the United States. *Applied Clinical Informatics*, 2025 (in press).
4. Hobensack, M., Withall, J., Douthit, B., Cato, K., Dykes, P., Cho, S., Lowenthal, G., Ivory, C., Yen, P., **Rossetti, S.C.** Identifying Barriers to the Implementation of Communicating Narrative Concerns Entered by Registered Nurses (CONCERN), An Early Warning System SmartApp. *Applied Clinical Informatics*. [In press].
5. Chen Y, Chan C, Dong, Jackson E, Yip N, **Rossetti S.** Beyond Order-Based Nursing Workload: A Retrospective Cohort Study in Intensive Care Units. *J Nurs Scholarsh*. 2024 Sep;56(5):687-693. doi: 10.1111/jnu.12979. Epub 2024 May 12. PMID: 38736177
6. Cato K, Kim E, Knaplund C, Romney M, Sacco D, Chernick L, Sepulveda-Pacsi AL, **Rossetti S**, Topaz M, Trepp R, Chang BP, Schultebrasucks K. A prognostic model for COVID-19 progression to severe disease: Discriminating Emergency Department discharge

- with the virus without return to the hospital within 72 hours using electronic medical records. J N. Y. State Nurs Assoc. 2024 Jun;51(1).
7. Kang, M.-J., **Rossetti, S. C.**, Lowenthal, G., Knaplund, C., Zhou, L., Schnock, K. O., Cato, K. D., & Dykes, P. C. (2024). Designing and testing clinical simulations of an early warning system for implementation in acute care settings. *JAMIA Open*, 7(4), ooae092. <https://doi.org/10.1093/jamiaopen/ooae092>
 8. Levy DR, **Rossetti SC**, Brandt C, Melnick ER, Hamilton A, Rinne ST, Womack D, Mohan V. Interventions to mitigate EHR and documentation burden in health professions trainees: A scoping review. *Appl Clin Inform.* (in press)
 9. Levy DR*, Withall JB*, Mishuris RG, Tiase V, Diamond C, Douthit B, Grabowska M, Lee RY, Moy AJ, Sengstack P, Adler-Milstein J, Detmer DE, Johnson KB, Cimino JJ, Corley S, Murphy J, Rosenbloom ST, Cato K, **Rossetti SC**. Defining documentation burden for all health professionals: A scoping review. *Appl Clin Inform.* 2024/10/30 2024;15(05):898-913. doi:10.1055/a-2385-1654 *Co-first authors. PMC11524753
 10. Sloss EA, Abdul S, Aboagyewah MA, Beebe A, Kendle K, Marshall K, Rosenbloom ST, **Rossetti S**, Grigg A, Smith KD, Mishuris RG. Toward Alleviating Clinician Documentation Burden: A Scoping Review of Burden Reduction Efforts. *Appl Clin Inform.* 2024 May;15(3):446-455. doi: 10.1055/s-0044-1787007. Epub 2024 Jun 5. PMID: 38839063; PMC11152769.
 11. Chen F, Bokhari SM, Cato K, Gürsoy G, **Rossetti S**. Examining the Generalizability of Pretrained De-identification Transformer Models on Narrative Nursing Notes. *Appl Clin Inform.* 2024 Mar 6. doi: 10.1055/a-2282-4340. Online ahead of print.
 12. Lo B, Shin HD, Kemp J, Munnery M, Chen S, Ma C, Jankowicz D, Mehta R, Harris A, Sakal M, Pundit R, Chung K, Kuziemy C, **Rossetti S**, Strudwick G. Shifting Mindsets: The Impact of a Patient Portal on Functioning and Recovery in a Mental Health Setting. *The Canadian Journal of Psychiatry.* 2024;69(3):217-227. doi:10.1177/07067437231197060
 13. Lefchak, B., Bostwick, S., **Rossetti, S.**, Shen, K., Ancker, J., Cato, K., Abramson, E., Thomas, C., Gerber, L., Moy, A., Sharma, M., and J. Elias. (2023) Assessing Usability and Ambulatory Clinical Staff Satisfaction with Two Electronic Health Records. *Appl Clin Inform* 2023; 14(03): 494-502. DOI: 10.1055/a-2074-166.
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Nominated for Best Paper Award at MEDINFO 2007 Conference.

**Senior Author*

• Peer-Reviewed Conference Proceeding Articles (Note: In Biomedical Informatics conference proceeding articles receive full peer review.)

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5. **Rossetti SC**, Dykes P, Cato K. The CONCERN Project: Past, Present, Future of an Artificial Enabled Nursing Science Project. Panel Presentation at the 16th International Congress in Nursing Informatics, NI2024, Manchester, UK, July 28 – 31, 2024.
 6. 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
 7. 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
 8. 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
 9. Fan H, **Rossetti S**, Mugoya R, Jia H, Thate J, Finnegan A, Lai AM, Cato K, Yen PY. EHR Documentation Frequency Changes Across the COVID-19 Pandemic. Paper Presentation at AMIA Annual Symposium, San Francisco, November 9-13 2024
 10. Mugoya R, **Rossetti SC**, Thate J, Fan H, Yen PY. Exploring Nurses' Perceptions of Documentation Burden in the Electronic Health Record (EHR): A Cross-Sectional Study. Paper Presentation at AMIA Annual Symposium, San Francisco, November 9-13 2024
 11. Chae, S.†, Davoudi A.†, Song, J., Evans, L., Hobensack, M., Bowles, K. H., McDonald, M. V., Barrón, Y., **Rossetti S.**, Cato K., Sridharan, S., & Topaz, M. (Accepted and in press) Time-Sensitive Prediction Modeling Using Home Health Care Electronic Health Record Data Predicts ED Visits or Hospitalizations for Patients with Heart Failure. 2023 AMIA Annual Symposium, New Orleans, LA, November 11-15, 2023.
 12. 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.
 13. 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.
 14. Cao H, Meghani M, Nametz DC, Lorenzi V, Mamykina L, Meyers R, **Rossetti SC**, Park S. Machine Learning Model Deployment Using Real-Time Physiological Monitoring: Use Case of Detecting Delayed Cerebral Ischemia. 2022 IEEE Healthcare Innovations and Point of Care Technologies (HI-POCT), Houston, TX, USA, 2022 March 10-11; pp. 42-45. doi: 10.1109/HI-POCT54491.2022.9744076.
 15. 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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16. *Moy AJ, Schwartz JM, Elias J, Imran S, Lucas E, Cato KD, **Rossetti SC**. Time-motion examination of electronic health record utilization and clinician workflows indicate frequent task switching and documentation burden. *AMIA Annu Symp Proc*. 2021 Jan 25;2020:886-895. eCollection 2020. PMC8075533.
17. *Topaz M, Murga L, Cato K, **Collins S**. Extracting alcohol and substance abuse status from clinical notes: the added value of nursing data. *Stud Health Technol Inform: MEDINFO 2019 Proceedings* 2019 Aug 21;264:1056-1060. PMID: 31438086 DOI: 10.3233/SHTI190386.
18. *Schwartz J, Elias J, Slater C, Cato K, **Rossetti SC**, An Interprofessional Approach to Clinical Workflow Evaluation Focused on the Electronic Health Record Using Time Motion Study Methods, *AMIA 2019 Annual Symposium*, Nov 17-20 2019, Washington DC, 1187–1196. PMC7153105

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19. **Rossetti SC**, Knaplund C, Albers D, Tariq A, Tang K, Vawdrey D, Yip N, Dykes P, Klann J, Kang MJ, Garcia J, Fu LH, Schnock K, Cato K. Leveraging Clinical Expertise as a Feature - not an Outcome - of Predictive Models : Evaluation of an Early Warning System Use Case. *Proceeding of the American Medical Informatics Association Annual Fall Symposium*; 2019 Nov 16-20; Washington, DC, 323-332.
 20. **Collins S**, Couture B, Kang MJ, Dykes P, Schnock K, Knaplund C, Chang F, Cato K. Quantifying and Visualizing Nursing Flowsheet Documentation Burden in Acute and Critical Care. *Proceeding of the American Medical Informatics Association Annual Fall Symposium*; 2018 Nov 3-7; San Francisco, CA., p. 348-357. PMID: 30815074
 21. **Collins S**, Bavuso K, Swenson M, Suchecki C, Mar P, Rocha R. Evolution of an Implementation-Ready Interprofessional Pain Assessment Reference Model. *Proceeding of the American Medical Informatics Association Annual Fall Symposium*; 2017 Nov 4-8; Washington, DC., p.605-614. PMID: 29854125
 22. *Bavuso K, Mar P, Rocha R, **Collins S**. Gap Analysis and Refinement Recommendations of Skin Alteration and Pressure Ulcer Enterprise Reference Models against Nursing Flowsheet Data Elements. *Proceeding of the American Medical Informatics Association Annual Fall Symposium*; 2017 Nov 4-8; Washington, DC, p. 421-429. PMID: 29854106
 23. *Couture B, Fagan M, Gershanik E, Benneyan J, Bates D, **Collins S**. Towards Analytics of the Patient and Family Perspective: A Case Study and Recommendations for Data Capture of Safety and Quality Concerns. *Proceeding of the American Medical Informatics Association Annual Fall Symposium*; 2017 Nov 4-8; Washington, DC, p. 615-624. PMID: 29854126
 24. **Collins S**, Gesner E, Mar P, Colburn D, Rocha R. Prioritization and Refinement of Clinical Data Elements within EHR Systems. *Proceeding of the American Medical Informatics Association Annual Fall Symposium*; 2016 Nov 12-16; Chicago, IL. p. 421-430. PMID: 28269837.
- Recipient of Harriet H. Werley Award for Best Nursing Paper at AMIA 2016 Symposium*
25. Zhou L, **Collins S**, Morgan S, Zafar N, Gesner E, Fehrenbach M, Rocha R. A Decade of Experience in Creating and Maintaining Data Elements for Structured Clinical Documentation in EHRs. *Proceeding of the American Medical Informatics Association Annual Fall Symposium*; 2016 Nov 12-16; Chicago, IL. p. 1293-1302. PMID: 28269927
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29. *Dykes P, Stade D, Chang F, Dalal A, Getty G, Kandala R, Lee J, Lehman L, Massaro A, McNally K, Ohashi K, Bates D, **Collins S**. Participatory Design and Development of a Patient-centered Toolkit to Engage Hospitalized Patients and Care Partners in their Plan of Care. *Proceedings of the American Medical Informatics Association Annual Fall Symposium*; 2014 Nov 16-19; Washington, DC. PMID: 25954353.
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31. **Collins S**, Hongsermeier T, Dubois D, Nandigam HK, Rocha RA. A Continuum of Sociotechnical Requirements for Patient-Centered Problem Lists and the Limitations of SNOMED CT. *Studies in Health Technology and Informatics*, 2013; 192: 889-93.. PMID: 23920686.
32. **Collins S**, Wilcox L, Fred M, Vawdrey DK. Workarounds Used by Nurses to Overcome Design Constraints of Electronic Health Records. *The 11th International Congress on Nursing Informatics*; 2012 Jun 23- 27; Montreal, Canada. Amsterdam: IOS; 2012 p 93-97. PMID: 24199061.
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33. Vawdrey DK, PhD, Wilcox L, **Collins S**, Bakken S, Feiner S, Boyer A, Restaino SW. A Tablet Computer Application for Patients to Participate in Their Hospital Care. *Proceedings of the American Medical Informatics Association Annual Fall Symposium*; 2011 Oct 22-26; Washington, DC. 2011. p. 1428-35. PMID: 22195206.
34. **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.
35. **Collins S**, Bakken S, Vawdrey D, Coiera E, Currie L. Interdisciplinary Computerized Common Patient Goals Tool. *Proceedings of the First International Workshop on Interactive Systems in Healthcare, Association for Computing Machinery Conference on Human Factors in Computing Systems 2010 Conference on Human Factors and Computing Systems*; 2010 Apr 10-15, Atlanta, Georgia. New York: Association for Computing Machinery; 2009. p. 29-32.
36. Mamykina L, Wilcox L, Vawdrey D, Stein D, **Collins S**, Carmargo S, Fred M, Hripcsak G, Feiner S. Designing for Adoption: A Living Laboratory for Health IT. *Proceedings of the First International Workshop on Interactive Systems in Healthcare, Association for Computing Machinery Conference on Human Factors in Computing Systems 2010*

Conference on Human Factors and Computing Systems; 2010 Apr 10-15, Atlanta, Georgia. New York: Association for Computing Machinery; 2009. p. 181-4.

37. **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.

Nominated Harriet H. Werley Award at AMIA 2008 Symposium.

38. **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**, Kuziemy C. A unified model of patient safety (or "Who froze my cheese?"). BMJ 2013;347:f7273. PMID: 24335670.
5. Strudwick G, Kuziemy 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
6. Strudwick G, Booth R, Bjarnadottir R, **Collins S**, Srivastava R. Exploring the role of the nurse manager in supporting point of care nurses' adoption of electronic health records: Protocol for a qualitative research study. BMJ Open, 2017 Oct 12;7(10):e018129. PMCID: PMC5652540
7. *Kuziemy 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 initiatives: Findings of a literature review, focus groups and symposium. Toronto: Centre for Addiction and Mental Health
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.
7. Goossen-Baremans A, **Collins S**, Park HA. Semanticification in Connected Health. 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. 133 – 151.

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. Rossetti, S. Opportunities for Human-Centered, Nurse-Driven AI Solutions to Improve Patient Outcomes and Decrease Clinician Burden. **Invited Keynote** at Midwest Nursing Research Society 49th Annual Research Conference, March 29 2025, Indianapolis, Indiana
2. 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
3. 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
4. Rossetti, AMIA 25x5 Task Force to Reduce Documentation Burden, Memorial Sloan Kettering Grand Rounds, Jan 2025.
5. 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
6. 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.
7. 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.
8. Rossetti, State of Measurement of Documentation Burden. National Burden Reduction Collaborative. AMIA Annual Symposium, November 2024, San Francisco, CA.
9. Rossetti, S. Clinical Care Classification System + AI. Friends of the National Library of Medicine Workshop, virtual, December 4 2024.
10. Rossetti, S. Innovations in Understanding and Reducing Documentation Burden. NYP Virtual Innovation Symposium, November 2024.
11. Rossetti, S. Local Strategies & Nurse Driven Science to Reduce Documentation Burden. 2023 CMS Burden Reduction Conference, November 15, 2023.
12. 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.

13. 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.
14. 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.
15. **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.
16. 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.
17. 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.
18. **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.
19. 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.
20. 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.
21. *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.
22. *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.
23. 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.
24. **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

25. *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
26. 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
27. *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
28. Garcia J, **Collins S**, Cato K, et al. 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
29. Strudwick, G., Kuziemy, 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.
30. 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.
31. Strudwick, G., Leung, K., McLean, A., Kuziemy, 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.
32. 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.
33. 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.
34. 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.
35. 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
36. *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.
37. **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.
38. *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.
39. *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.
40. 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.
41. *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.
42. *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.
43. 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
44. **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.
45. 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.
46. *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.
47. 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.
48. **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.

49. 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.
50. *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.
51. 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.
52. *Couture B, **Collins S**. Use of OpenSource Tools for a Patient-Facing Safety Reporting Tool: MySafeCare. OC16 Conference, October 3, 2016, Boston, MA.
53. *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

54. **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
55. 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).
56. **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.
57. **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.
58. 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.
59. *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.
60. 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.

61. *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.
62. **Collins S**, Kuziemy 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.
63. **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.)
64. *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.
65. **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.
66. **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.
67. **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.
68. *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

- | | |
|------|---|
| 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, New York 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

- 2025 Panel Member, Columbia DocTalks: 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

- 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

- 2018 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

- 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