

# CURRICULUM VITAE

## Bradley H. Crotty MD

Associate Professor  
Department of Medicine  
Division of General Internal Medicine

### OFFICE ADDRESS:

Hub for Collaborative Medicine  
8701 Watertown Plank Road  
Milwaukee, WI 53226

### EDUCATION:

09/1999 - 05/2003 BA, Tufts University, Medford, MA  
09/2003 - 06/2007 MD, Harvard Medical School, Boston, MA  
07/2010 - 06/2013 MPH, Harvard School of Public Health, Boston, MA

### POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

06/28/2007 - 06/27/2010 Residency in Internal Medicine, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA  
07/01/2010 - 06/30/2013 Research Fellow in General Internal Medicine, Medicine, General Medicine and Clinical Informatics, Harvard Medical School, Boston, MA  
07/01/2011 - 06/30/2012 Chief Medical Resident, Beth Israel Deaconess Medical Center, 330 Brookline Avenue, MA

### FACULTY APPOINTMENTS:

07/01/2011 - 06/30/2012 Instructor in Medicine, Medicine, Harvard Medical School  
07/01/2013 - 07/08/2016 Instructor in Medicine, Medicine, Clinical Informatics, Harvard Medical School, Boston, MA  
09/01/2016 - Present Investigator, Cancer Center, Medical College of Wisconsin, Milwaukee, WI  
09/01/2016 - Present Assistant Professor of Medicine, Medicine, General Internal Medicine, Medical College of Wisconsin, Milwaukee, WI  
09/01/2016 - Present Core Faculty, Center for Advancing Population Science, Medical College of Wisconsin, Milwaukee, WI  
01/30/2018 - Present Affiliate Member, Cardiovascular Center, Medical College of Wisconsin, Milwaukee, WI  
06/15/2018 - Present Member, Genomic Sciences and Precision Medicine Center, Medical College of Wisconsin, Milwaukee, WI

### ADMINISTRATIVE APPOINTMENTS:

06/2004 - 09/2004 Health Policy Fellow, National Association of Community Health Centers, American Medical Student Association, Washington, DC  
07/2013 - 07/2016 Clinical Liaison, Information Systems, Beth Israel Deaconess Medical Center, 330 Brookline Avenue, Boston, MA 02215  
07/2014 - 07/2016 Director of Patient Portals, Medicine, Clinical Informatics, Beth Israel Deaconess Medical Center, 330 Brookline Avenue, Boston, MA 02215  
07/2015 - 09/2016 Advisory Board, Buoy Health, 527 Massachusetts Avenue, Boston, MA 02118  
07/2018 - 08/2019 Medical Informatics Liaison, Genomic Sciences and Precision Medicine Center, Medical College of Wisconsin  
07/2018 - Present Chair, Innovation Leads Program, Medicine, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226

11/2019 - 06/2023 Enterprise Chief Digital Engagement Officer, Froedtert & the Medical College of Wisconsin, 9200 W Wisconsin Avenue, Milwaukee, WI 53226  
 11/2019 - Present Chief Medical Officer, Inception Health LLC (A Subsidiary of Froedtert Health), 9200 W Wisconsin Avenue, Milwaukee, WI 53226  
 07/01/2023 - Present President (Interim), Inception Health LLC, 9200 W Wisconsin Avenue, Milwaukee, WI 53122  
 07/01/2023 - Present Chief Digital Officer, Froedtert & Medical College of Wisconsin Health Network, 9200 W Wisconsin Avenue, Milwaukee, WI 53226

#### **EDUCATIONAL ADMINISTRATIVE APPOINTMENTS:**

01/2015 - 06/2015 Course Co-Director, Intro to Biomedical Informatics BMI 720, Biomedical Informatics, Harvard Medical School, 330 Brookline Avenue, Boston, MA 02215  
 07/2015 - 07/2016 Associate Program Director; BIDMC Clinical Informatics Training Program, Clinical Informatics, Beth Israel Deaconess Medical Center, 330 Brookline Avenue, Boston, MA 02215  
 09/2018 - Present Co-Director, Innovation Faculty Fellows Program, Medical College of Wisconsin  
 02/2019 - Present Course Director, Clinical Informatics (MEDI D4153), Medicine, General Internal Medicine, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226

#### **HOSPITAL AND CLINICAL ADMINISTRATIVE APPOINTMENTS:**

07/2013 - 07/2016 Clinical Liaison, Information Systems, Beth Israel Deaconess Medical Center, Boston, MA  
 11/2015 - 07/2016 Co-Director, Crimson Care Collaborative Clinic at Beth Israel Deaconess Medical Center, Boston, MA  
 09/2016 - 11/2019 Medical Director For Digital Innovation, Inception Health LLC, Milwaukee, WI 53226

#### **HOSPITAL STAFF PRIVILEGES:**

07/01/2011 - 06/30/2013 Associate Staff Physician, Beth Israel Deaconess Medical Center, 330 Brookline Avenue, Boston, MA 02215  
 07/01/2013 - 07/09/2016 Staff Physician, Beth Israel Deaconess Medical Center, 330 Brookline Avenue, Boston, MA 02215  
 09/14/2016 - Present Staff Physician, Froedtert Hospital, 8701 Watertown Plank Road, Milwaukee, WI 53226

#### **SPECIALTY BOARDS AND CERTIFICATION:**

<u>Board Certified</u>	<u>Issue Date</u>	<u>Expiration</u>
Internal Medicine	2010	None
Clinical Informatics	2016	None

<u>Certificates</u>	<u>Issued By</u>	<u>Issue Date</u>	<u>Expiration</u>
Advanced Cardiac Life Support	American Heart Association	09/26/2016	09/30/2018
Clarity Data Model	Epic	06/2017	None
Physician-Builder (Analytics)	Epic	06/2017	None
Research Informatics Innovator Core	Epic	06/2017	None

<u>Licensure</u>	<u>Number</u>	<u>Issue Date</u>	<u>Expiration</u>
Massachusetts		2010	2017
Wisconsin	65670-20		None

#### **AWARDS AND HONORS:**

2002 Prather Class of 47 Prize for Undergraduate Research, Tufts University  
 2002 Hocchauser Prize for Community Enrichment, Tufts University

2003 Summa Cum Laude, Tufts University  
 2003 Omidyar Scholarship, Tufts University College of Citizenship & Public Service  
 2003 Alumni Award for Academic Achievement, Tufts University  
 2010 Top Precourse Award, 2010 National Meeting, Society of General Internal Medicine  
 2010 Class of 2010 Teaching Award, Harvard Medical School  
 2012 Innovation in Graduate Medical Education Presented at Northeast Group on Educational Affairs  
     Regional Meeting for Wiki and Social Media Use in Medical Education, Northeast Group on  
     Educational Affairs Association of American Medical Colleges  
 2012 Fellowship, American College of Physicians  
 2012 Astman Scholar Award, Visiting Lecturer For Bioethics Symposium, Hofstra University / LIJ Health  
     System  
 2018 Top Patient Experience Recognition, Medical College Physicians  
 2018 Teaching Pin, Outstanding Medical Student Teacher, Medical College of Wisconsin  
 2019 Teaching Pin, Outstanding Medical Student Teacher, Medical College of Wisconsin  
 2019 Fellowship, American Medical Informatics Association  
 2020 20 Chief Digital Officers To Know | 2020, Becker's Hospital Review  
 2020 Rising Stars in Health IT, Becker's Hospital Review

#### **MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:**

2000 - 2007 American Medical Student Association (2005-2006: National Coordinator for Educational  
     Technology, National Medical Education Committee)  
 2003 - 2009 American Medical Association  
 2004 - 2005 Massachusetts Medical Society (Governing Councillor, Medical Student Section)  
 2008 - Present American College of Physicians (Fellow)  
 2008 - Present Society for General Internal Medicine (2009 Region Judge, Northeast Regional Committee;  
     2010 Northeast Region Abstract Reviewer; 2010 Northeast Region Abstract Reviewer; 2010-2011  
     National Communications Committee, 2010-2013 Council/Board)  
 2010 - Present American Medical Informatics Association (2014-2019 Annual Symposium Abstract  
     Reviewer; 2019 Fellowship)

#### **EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:**

Editorship  
     2000 - 2002 TuftsScope - Journal of Health, Ethics, & Policy  
 Editorial Board  
     09/2020 - Present BMJ Health & Care Informatics  
 Journal Review  
     Informatics and Medical Research  
     Annals of Internal Medicine  
     Health Affairs  
     International Journal of Biomedical Informatics  
     British Medical Journal  
     Journal of General Internal Medicine (JGIM)  
     Teaching and Learning in Medicine  
     Applied Clinical Informatics  
     Circulation  
     Healthcare  
     New England Journal of Medicine  
     Israel Journal of Health Policy  
     JAMA Internal Medicine  
     Journal of Medical Internet Research (JMIR)  
     Journal of Medical Internet Research Mental Health  
     JAMIA Open  
     Nature Reviews, Neurology  
     Journal of the American Medical Informatics Association (JAMIA)  
     Journal of Health Communication International Perspectives

#### **LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:**

09/2001 - 06/2003 Case Management, Board, Sharewood Project, Tufts University Student Clinic  
07/2004 - 07/2005 Governing Councilor, Medical Student Section, Massachusetts Medical Society

**NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:**

09/2010 - 07/2013 Representative (For Fellows, Residents, Students), Council (National Governing Board),  
Society for General Internal Medicine  
04/2014 - 07/2015 Member, Communications, Society for General Internal Medicine  
2015 - 2016 Member, Executive Director Search Committee, Society for General Internal Medicine

**RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:**

**Active**

**Non-Peer Review**

Title: Collaborative for Healthcare Delivery  
Science  
Source: AHW  
Role: CHDS Medical Informatics Director  
PI: Ann Nattinger, MD  
Dates: 03/01/2017 - 12/31/2022  
Direct Funds: \$18,510 (Based on AHW guideline of  
10% of NIH salary cap of  
\$185,100/year)

**Prior**

**Peer Review**

Title: T32HP12706, National Research Service  
Award  
Source: HRSA  
Role: Fellow  
PI: Russell Phillips  
Dates: 07/01/2010 - 06/30/2013

Title: InfoSage Information Sharing Across  
Generations and Environments  
Source: R01HS021495, Agency for Healthcare  
Research and Quality (AHRQ)  
Role: Co-Investigator / Site - PI  
PI: Charles Safran  
Dates: 05/15/2013 - 02/28/2018  
Direct Funds: \$2,407,309

Title: Integrating Patient Values Into Care  
Source: Center for Patient Care and Outcomes  
Research at Medical College of  
Wisconsin  
Role: PI  
PI: Crotty BH  
Dates: 03/01/2017 - 02/28/2018  
Direct Funds: \$30,000

Title: Assessing Caregiver Needs and  
Technology Acceptance to Support  
Underserved Patients with Cancer  
Source: MCW Cancer Center  
Role: PI  
PI: Crotty BH

Dates:	03/01/2017 - 02/28/2019
Direct Funds:	\$50,000
Title:	Avoiding Health Disparities When Collecting Patient Data for Clinical Care and Pragmatic Research
Source:	AHW-Research and Education Program
Role:	PI
PI:	Crotty BH
Dates:	01/01/2018 - 12/31/2019
Direct Funds:	\$200,000
Title:	Translating Medical Reports for Patients
Source:	CTSI Southeast Wisconsin
Role:	PI
PI:	Crotty
Dates:	04/01/2018 - 03/31/2019
Direct Funds:	\$50,000
Title:	Using Big Data Informatics to Improve Care of Women with Advance Breast Cancer
Source:	Clinical and Translational Science Center of Southeastern Wisconsin
Role:	Mentor
PI:	Aaron Winn
Dates:	10/01/2018 - 09/30/2020
Direct Funds:	\$257,488
Title:	1R21AG064875-01A1: Baseline Symptoms And Adherence To Oral Breast Cancer Therapy Among Older Women
Source:	National Institute on Aging
Role:	Co-Investigator
PI:	Joan Neuner and Kathryn Flynn
Dates:	01/15/2020 - 05/31/2022
Title:	1P20DK127511: Wisconsin Exploratory Center For Interdisciplinary Research In Benign Urology
Source:	National Institute of Diabetes and Digestive and Kidney Diseases
Role:	Co-Investigator
PI:	Kathryn Flynn
Dates:	09/15/2020 - 06/20/2022

**Non-Peer Review**

Title:	Patient-Centered Research Dissemination Project
Source:	5R18HS021955-02, Agency for Healthcare Research and Quality (AHRQ)
Role:	Consultant
PI:	Richard Frankel
Dates:	04/05/2013 - 01/31/2016

Title:	OpenNotes: Spread, Discovery and Measurement
Source:	RWJF 73038; GBMF 4926; PCH 16019, Robert Wood Johnson Foundation, Gordon and Betty Moore Foundation, Peterson Center for Healthcare
Role:	Co-Investigator
PI:	Tom Delbanco, Jan Walker
Dates:	10/15/2015 - 07/09/2016

## **INVITED LECTURES/WORKSHOPS/PRESENTATIONS:**

### **Local**

Crotty BH, Technology in Medical Education, BIDMC Faculty Working Group For Medical Education, Boston, MA, 2008

Crotty BH, Wikis to Organize Residency Knowledge, Brigham & Women's Hospital, Department of Radiology Conference, Boston, MA, 2010

Crotty BH, Wikis for Hospitalists, Society for Hospital Medicine Boston Chapter Meeting, Boston, MA, 2010

Crotty BH, Mostaghimi A, Social Networking for Patients and Doctors, Invited Presentation at Boston Meet-Up, Cambridge Innovation Center, Cambridge, MA, 2011

Crotty BH, Accept, Reject, or Deny: Primary Care in the Age of Social Media, Stoeckle Center Seminar / Gen Med Grand Rounds, Massachusetts General Hospital, Boston, MA, 2011

Crotty BH, Mostaghimi A, Digital Professionalism and Physicians, Massachusetts Chapter of The American College of Physicians, Boston, MA, 2013

Safran C, Crotty BH, Agresta, T, Technology For Primary Care Improvement, Harvard Medical School Primary Care Innovations Conference, Boston, MA, 2015

Crotty BH, Challenges and Innovations in Electronic Health Records, Massachusetts Hospital Association, Burlington, MA, 2015

Crotty BH, Flipping the Clinic: How Clinical Transparency and Collaborative Tools are Shaping Care, Medicine Grand Rounds, Medical College of Wisconsin, 09/15/2017

Crotty BH, Charlson J, Patient Reported Outcomes in Adolescents and Young Adults with Cancer, PCOR Seminar Series, Medical College of Wisconsin, 10/13/2017

Crotty BH, Innovations in Healthcare, Leadership Menomonee Falls and Germantown Leadership Meeting, Community Memorial Hospital, 01/09/2019

Crotty BH, Zimmerman M, Dynamic Data: The Future of Medical Reporting, Genomic Sciences and Precision Medicine Center Grand Rounds, Medical College of Wisconsin, 03/08/2019

Crotty BH, Evolution of Patient Care in the Digital Era (Invited/Plenary), MCW Winter Refresher Course for Family Medicine, Pewaukee, WI, 01/2020

### **Regional**

Crotty BH, Medical Political Action Committees / Presentation, Massachusetts Medical Society Medical Student Meeting, Waltham, MA, 2003

Crotty BH, Singer A, Universal Health Care Action, American Medical Student Association Regional Conference, Boston, MA, 2004

Crotty BH, Enhancing Care Coordination Through Patient & Family Engagement, University of Connecticut, Farmington, CT, 2015

Crotty BH, Rapid Implementation of Telemedicine, Concordia University School of Business Health Conference, 08/07/2020

### **National**

Crotty BH, Social Media in Medicine, Bioethics Symposium at Hofstra University / LIJ, Hempstead, NY, 2012

Crotty BH, Social Media & Clinical Medicine, Charleston Area Medical Center, Charleston, WV, 02/19/2013

Crotty BH, Ethics and Social Media in Healthcare (Keynote), Geisinger Ethics Conference on Social Media, Wilkes-Barre, PA, 2013

Crotty BH, Engaging Patients in New Ways: From OpenNotes to Social Media, AMDIS (Association of Medical Directors of Information Systems) Fall Symposium, Boston, MA, 2013

Crotty BH, Payne T, OpenNotes: A National Movement for Transparency, AMIA iHealth Symposium, Boston, MA, 2015

Crotty BH, Colbert J, Help! I'm on Yelp!, American College of Physicians Annual Meeting, Boston, MA, 2015

Nattinger A, Roy B, Crotty BH, Hicks L, Career Options in General Internal Medicine, American Medical Student Association Annual Meeting, Washington, DC, 2015

Crotty BH, How Digital is Transforming Health Care., Agenda 2016 Conference, Amelia Island, FL, 2016

Onur, A, Crotty, BH, Tyszka, J., Involving Patients to Improve Documentation Accuracy: A New EHR Screen Design., Human Factors and Ergonomics in Health Care Conference, Boston, MA, 03/27/2018

Crotty BH, Desroches C, Oveys J, Payne T, Wong B, The Story of OpenNotes: How Partnerships among Industry, Academia, and Consumer Groups Led to Nationwide Change, Society of General Internal Medicine Annual Conference, Denver, CO, 04/12/2018

Crotty BH, Innovation Strategies for Health Systems, Yale-New Haven Health System Conference on Quality, Safety, and Experience, New Haven, CT, 05/31/2018

Crotty BH, Bennick M, Jennetten R, Makoul G, Improving Health and Care by Listening to Patients: A Veiw from Three Health Systems, Patient Experience Conference 2019, The Beryl Institute, Dallas, TX, 04/2019

Anderes M, Crotty BH, Building a Digital Health Formulary, HealthLeaders Innovation Exchange, Ojai, CA, 07/18/2019

Crotty BH, Improving Care with Innovation, University of St. Thomas School of Business, Future of Healthcare Conference, Minneapolis, MN, 11/08/2019 - 11/08/2018

Crotty BH, Webinar: Digital Therapeutics for Mental Health, HLTH, Virtual, 07/08/2020

Crotty BH, National Library Of Medicine Personal Health Informatics, Invited Workshop, Virtual, 02/22/2023

Crotty BH, New Virtual Care Models, AAMC Telehealth Collaborative, Virtual, 07/19/2023

#### **PEER REVIEWED WORKSHOPS/PRESENTATIONS:**

##### **Regional**

Crotty BH, Mostaghimi A, Physicians and the Internet: 2011 (Managing Online Identity in A Connected Era), Society of General Internal Medicine Regional Meeting, Boston, MA, 2011

Crotty BH, Mostaghimi A, An Electronic Communication Curriculum for Residents, Northeastern Group on Educational Affairs (AAMC) Annual Retreat, Boston, MA, 2012

Weppner W, Crotty BH Ralston J, A Graduate Medical Education Curriculum for Secure Messaging, Society of General Internal Medicine Northwest Regional Conference, Portland, OR, 2013

##### **National**

Crotty BH, Mehta N, Mostaghimi A, Locke K, Web 2.0 for Clinician Educators / Short Course / Faculty, Society of General Internal Medicine Annual Meeting, Minneapolis, MN, 2010

Mehta, Crotty BH, Mostaghimi A, Web 2.0 for Clinician Educators / Short Course / Faculty, Society of General Internal Medicine Annual Meeting, Phoenix, AZ, 2011

Dykes P, Carington J, Ohashi K, Dalal A, Crotty B, Schleyer T, Use of technology to Support Interdisciplinary Communication and Patient Safety, American Medical Informatics Association Annual Symposium, Washington, DC, 11/07/2012

Yu, Roger, Crotty BH, Web 2.0 for Hospitalists / Workshop, Society for Hospital Medicine Annual Meeting, San Diego, CA, 2012

Sands D, Crotty BH, Adams MB, Eysenbach G, Social Media and Me, An EduPanel – What is Social Media and How Can I Best Use Social Media for Research and Education., American Medical Informatics Association Annual Symposium, Washington, DC, 11/19/2013

Fleming N, Crotty BH, Zuehle EU, McGuire C, Practical Approaches to Social Determinants, Institute for Healthcare Improvement National Forum, Orlando, FL, 12/13/2018

Singh S, Crotty BH, Pezzin L, Nattinger A, Early Warning System Implementation, Vizient 2020, Virtual, 08/27/2020

Luo J, Schwartz J, Epstein J, Wong R, Crotty BH., Doc, how much is that going to cost? Workshop on Electronic Real Time Prescription Benefits Checks., SGIM Annual Meeting, Virtual, 04/22/2021

## **COMMITTEE SERVICE:**

### **Medical College of Wisconsin**

- 07/2010 - 07/2012 Advisory Committee, Harvard Medical School Center for Primary Care
- 07/2017 - Present Executive Committee, Collaborative for Healthcare Delivery Science, Medical College of Wisconsin
- 10/12/2017 - Present Member, Froedtert & MCW Enterprise Population Health Committee, Medical College Physicians, Medical College of Wisconsin
- 01/2018 - 06/2019 Member, GIM Clinical Analytics Committee, Division of General Medicine, Medicine, Medical College of Wisconsin
- 01/2018 - 12/2108 Member, Faculty Search Committee, Biomedical Engineering, Medical College of Wisconsin and Marquette University
- 05/2018 - Present Member, Cancer Precision Medicine Steering Committee, Medical College of Wisconsin
- 07/2018 - 06/2021 Provost Appointee, Faculty Information Technology Committee, Office of Faculty Affairs, Medical College of Wisconsin
- 09/2018 - 12/2019 Associate Director, Search Committee, Genomic Sciences and Precision Medicine Center, Medical College of Wisconsin
- 03/2019 Leader and Organizer, Fusion (Innovation & Healthcare Delivery Science 1 Day symposium, external speakers, workshops, posters), Collaborative for Healthcare Delivery Science, Center for Advancing Population Science, Medical College of Wisconsin

### **Hospital**

- 07/2008 - 07/2009 Electronic Medication Reconciliation Group, Beth Israel Deaconess Medical Center
- 07/2009 - 07/2016 Electronic Health Record (webOMR) User Steering Committee, Beth Israel Deaconess Medical Center
- 09/2009 - 12/2009 Internal Accreditation Review for ACGME Cardiothoracic Surgery, Beth Israel Deaconess Medical Center
- 07/2011 - 07/2012 Medical Patient Care Committee, Beth Israel Deaconess Medical Center
- 07/2011 - 07/2016 Full member 2011-2012 Ad hoc 2012-2016, Medical Peer Review Committee, Beth Israel Deaconess Medical Center
- 07/2013 - 07/2016 Social Media Task Force, Beth Israel Deaconess Medical Center
- 07/2013 - 02/2014 Patient Reported Outcomes Group, Beth Israel Deaconess Medical Center
- 07/2015 - 07/2016 Chair, PatientSite (Patient Portal) Governance Committee, Beth Israel Deaconess Medical Center
- 11/2016 - 08/2017 Care Delivery Design Steering Committee, Froedtert Health
- 12/2016 - 06/2017 Steering Committee Member, F&MCW Innovation Tournament Steering Committee, Inception Health, Froedtert & Medical College of Wisconsin
- 07/2017 - 06/2021 Co-Leader, Digital Health Working Group, Froedtert & MCW Strategic Plan for Behavioral Health, Froedtert & Medical College of Wisconsin
- 11/2018 - Present Executive Team Member, Froedtert & Medical College of Wisconsin Digital Roadmap, Froedtert & Medical College of Wisconsin
- 07/2019 - Present Member, Epic Curriculum Review Board, Froedtert Health & Medical College of Wisconsin
- 05/2020 - 08/2020 Branch Lead, Recovery Command Structure, Ambulatory, Virtual Care, Froedtert & Medical College of Wisconsin
- 07/01/2022 - Present Chair, Clinical Informatics Governance Committee, Digital, Froedtert & Medical College of Wisconsin
- 07/01/2022 - Present Member, Senior Clinical Leadership Committee, Froedtert & Medical College of Wisconsin Health Network
- 07/01/2023 - Present Member, Enterprise Data and Analytics, Artificial Intelligence Subcommittee, Froedtert & Medical College of Wisconsin

## **MEDICAL COLLEGE TEACHING ACTIVITIES:**

### **Community/Lay Public**

- 04/25/2018 Personalizing care: Using genes, sensors, and apps to create personalized approaches to care, Conversations with Scientists

### **Medical Student Education**

- 03/2017 - 03/2020 Pathways: Clinical Informatics Overview Lecture (One session yearly x 12 students)
- 08/2017 - Present Faculty, M4 Clerkship in Ambulatory Medicine (Ambulatory Preceptor, 2 half-day sessions weekly)
- 09/2017 - Present MCW Health Systems Management & Policy Pathway Advisor (8-10 students biweekly 90min group mentorship meetings plus project or 1:1 meetings)
- 09/2017 - 12/2019 Faculty, M1 Clinical Apprenticeship [Clinical Education for M1/M2 student, half-day weekly x5 semesters)
- 02/2019 - 04/2020 Course Director, Clinical Informatics (MEDI-D1453) Medical Student Elective [4 week daily course / 20 sessions, oversee curriculum, attend sessions, provide lectures x5 on various topics)
- 07/2019 - 12/2019 Mentoring in Medicine Program Participation [AY19-20 participated in student-organized mentorship round-robin sessions for M1 students 60 min x4 )

### **Resident and Fellow Education**

- 10/2016 Internal Medicine Hospital Clerkship / Team [Taught on Teaching Service to M3, M4 students and Interns/Residents)
- 2019 Lecture: Hypertension Mgmt (Academic Half Day, 60 min to interns, 60 min to residents)

### **Continuing Medical Education**

- 10/2018 Lecture: OpenNotes & Digital Engagement; 31st Annual Update in Primary Care, Door County, Wisconsin (60 min)
- 10/08/2020 Update in Primary Care: Watching Patients-Cases from the Digital Frontier

## **EXTRAMURAL TEACHING:**

### **Community/Lay Public**

- 09/2000 - 01/2001 Tufts University, Bioscience, Ethics & Public Policy, Freshman Seminar
- 2013 - 2016 Harvard College, Practicum Faculty, Global Health and Health Policy: Quality of Healthcare in America
- 2015 Harvard Medical School Executive Training Program, Patient Portals and Patient Facing Technologies, Google/Alphabet Cohort [1 lecture and in-clinic shadowing)

### **Medical Student Education**

- 2006 - 2007 Harvard Medical School, Patient-Doctor II Course Tutoring
- 2009 - 2013 Harvard Medical School, Core I Medicine, Ad Hoc Tutor
- 2010 - 2013 Harvard Medical School, Principle Clinical Experience: Lecture to all HMS 3rd year students on Professionalism in a Digital Age, 120min/year
- 2011 - 2012 Harvard Medical School, Patient-Doctor II Faculty Preceptor (weekly 2 hour sessions)
- 2012 - 2015 Harvard Medical School, Transition to Clinical Wards: Lecture to all Rising 3rd year HMS students on information security, privacy, and professionalism. 45min/year
- 07/2013 - 07/2016 Harvard Medical School, Adjunct Preceptor, Primary Care Clerkship
- 07/2013 - 07/2016 Harvard Medical School, Faculty Director, Crimson Care Collaborative HMS Medical Student Clinic. I supervise medical students HMSI-IV, as well as residents, and teach history, clinical exam, and clinical decision-making.
- 11/2018 Imperial College London, Implementation of Digital Innovation (90 min interactive lectures x2 for medical students and for business students)

### **Resident and Fellow Education**

- 08/2009 Beth Israel Deaconess Medical Center, Wikis to Organize Learning Intern Report (1 hr x 30 learners)
- 05/2010 Beth Israel Deaconess Medical Center, Residency Microskills, Feedback Interns / Small Groups (facilitator during 1 day retreat)
- 07/2010 - 07/2016 Beth Israel Deaconess Medical Center, Professionalism in a Digital Age Graduate Medical Education - 45 min lecture to all incoming trainees
- 2011 - 2013 Beth Israel Deaconess Medical Center, Patient Portals: A Curriculum for Pt-Doc e-Communication Ambulatory Core Curriculum

2012 - 2016 Beth Israel Deaconess Medical Center, Technology To Enhance Teaching Session for Clinician Educator Residents (120 min session / year)  
03/2014 Beth Israel Deaconess Medical Center, Patient Portals & Electronic Communication Obstetrics & Gynecology Residency  
07/2014 - 08/2015 Beth Israel Deaconess Medical Center, Best Practices for Electronic Health Record and Patient Portal Use

#### **Continuing Medical Education**

2010 Beth Israel Deaconess Medical Center, Physicians & The Internet 2011: Managing Your Online Presence  
2015 Harvard Medical School, Harvard SQIL (Safety, Quality, Informatics, and Leadership) Program Lecture on Patient Portals and Engagement  
09/01/2018 - Present Froedtert & Medical College of Wisconsin, Course Director: Innovation Faculty Fellows (Lead/Direct Innovation Rounds, 90 min monthly)

#### **Graduate Student Education**

05/2014 Harvard School of Public Health Executive Education, Applying Information Technology to Support Patient-Centered Treatment Approaches Leadership Strategies For Information Technology in Healthcare  
01/2015 - 06/2015 Harvard Medical School, Course Co-Director: BMI Intro Clinical Informatics, BMI 720 Lectures on patient portals; governance for healthcare information technology  
04/2018 University of Wisconsin-Milwaukee, Consumer Informatics: IND 590-890 Human Factors in Engineering Course  
10/02/2020 Stevens Institute of Technology, Human Factors and Clinical Informatics

#### **Postdoctoral Fellow Education**

07/2013 - 07/2016 Beth Israel Deaconess Medical Center, Mentorship and Teaching in Clinical Informatics Fellowship  
09/2015 - 12/2015 Harvard Medical School, BMI720 Lecturer (90 min lecture x2 / semester)

### **MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:**

#### **Medical Students**

Kristina Wang, Medical College of Wisconsin, 09/2016 - 01/2019 Pathways, Poster Presentation (2); Kern Program for Innovation  
Quinn Bongers, Medical College of Wisconsin, 09/2016 - 07/2020 Pathways, Manuscripts (1)  
Hillert, Conor J, Medical College of Wisconsin, 12/2017 - Present Pathways, Poster Presentation (1); Manuscript (1)  
Sharif-Sidi, Zakariyah, Medical College of Wisconsin, 12/2017 - Present Pathways, Poster Presentation (3); Manuscript (1)  
Emilie Braun, Medical College of Wisconsin, 12/01/2018 - Present Pathways, National Oral Presentation Invitation (1); Manuscript in Draft (2)  
Bradley Gershkowitz, Medical College of Wisconsin, 12/2018 - Present Pathways, Poster Presentation (2); Manuscript (1)  
William Wong, Medical College of Wisconsin, 12/2018 - Present Pathways, Presentations (1)  
Lap-heng Kueng, Medical College of Wisconsin, 12/2018 - Present Pathways / Clinical Apprenticeship

#### **Clinical/Research Fellows**

Jeana Holt PhD, DNP, Medical College of Wisconsin, 01/2018 - 07/2020 Fellowship Mentor, PhD Award; Publications (3); Presentations (7)

### **EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS MENTORED:**

#### **High School Students**

Jacob Laske, Medical College of Wisconsin/Marquette University, 03/2019 - 05/2019 SUPREMES Program (High School Biomedical Engineering Research Program), Poster Presentation

### **Medical Students**

Aleks Olszewski, Harvard Medical School, 07/2011 - 07/2015 Mentored Clinical Casebook Program (1 year+ clinical mentoring and writing program: See <https://pubmed.ncbi.nlm.nih.gov/17457078/> for details), Casebook Submitted 11-12; Additional Article Submitted

Grace Taylor, Harvard Medical School, 07/2012 - 07/2013 Mentored Clinical Casebook Program, Casebook Submitted

Lydia Flier, Beth Israel Deaconess Medical Center, 07/2013 - 07/2014 Research, Publications (3)

Mohammad Abbas, Harvard Medical School, 07/2014 - 07/2015 Mentored Clinical Casebook Program, Casebook Submitted

Josephine Fisher, Harvard Medical School, 2015 - 2016 Mentored Clinical Casebook Program, Casebook Submitted

### **Clinical/Research Fellows**

Adarsha Bajracharya, MD, Beth Israel Deaconess Medical Center, 07/2013 - 07/2014 Informatics Fellow, AMIA Oral Presentation (1); Publications (3)

Shira Fischer MD PhD, Beth Israel Deaconess Medical Center, 07/2013 - 07/2014 Informatics Fellow, Thesis: Visualization of EHR Data for Decision-Making in Diabetes and Congestive Heart Failure; Publications

## **PROGRAMMATIC DEVELOPMENTS:**

### **Educational Programs**

#### **Resident**

07/2017 - 09/2012 BIDWiki.org. I was one of the original wiki project leaders in charge of concept development and programming. The Medicine Wiki is now used throughout the department, garnering over 35,000 hits/year.

### **Clinical Programs**

07/2009 - 07/2010 A pilot program within Healthcare Associates (BIDMC) for coordinating care of patients who are difficult to manage as an outpatient. I was an initiator of this program that has been transferred to the

## **COMMUNITY SERVICE ACTIVITIES:**

1999 - 2003 Leonard Carmichael Society / Tufts University Taught Anti-Smoking Curriculum to Elementary School Students

2003 - 2004 Healthcare Action Collective / Harvard Medical School Active member of student organization advocating for universal healthcare in the state of Massachusetts, forging partnership with Mission Hill Community

08/01/2017 - Present Board of Directors, Pathways to Population Health, Milwaukee WI Non-Profit Organization

07/01/2022 - Present Advisor, Elmbrook School District LAUNCH

## **BIBLIOGRAPHY**

### **Refereed Journal Publications/Original Papers**

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2. **Crotty BH**, Slack WV. Designing online health services for patients. Isr J Health Policy Res. 2016;5:22. PMID: PMC4908687
3. Bates MC, Shamsham FM, Faulknier B, **Crotty B**. Successful treatment of iatrogenic renal artery perforation with an autologous vein-covered stent. Catheter Cardiovasc Interv. 2002 Sep;57(1):39-43.
4. Bates MC, Kyer PD, Kavasmaneck C, AbuRahma A, **Crotty B**. Stent-supported angioplasty correction of

- symptomatic critical carotid angulation. *W V Med J*. 2003;99(1):22-4.
5. Bates MC, Aburahma AF, **Crotty B**. Successful urgent endovascular surgery for symptomatic subclavian artery aneurysmal compression of the trachea. *Catheter Cardiovasc Interv*. 2005 Mar;64(3):291-5.
6. Bates MC, **Crotty BH**. Occult popliteal artery stenosis masquerading as atheroemboli in a patient with previous knee replacement. *Catheter Cardiovasc Interv*. 2006 Jan;67(1):151-4.
7. Bates MC, **Crotty B**, Kavasmaneck C, Campbell JR. Renal artery angiography: "the right ipsilateral oblique" myth. *Catheter Cardiovasc Interv*. 2006 Feb;67(2):283-7.
8. Dalamaga M, **Crotty BH**, Fargnoli J, Papadavid E, Lekka A, Triantafilli M, Karmaniolas K, Migdalis I, Dionyssiou-Asteriou A, Mantzoros CS. B-cell chronic lymphocytic leukemia risk in association with serum leptin and adiponectin: a case-control study in Greece. *Cancer Causes Control*. 2010 Sep;21(9):1451-9. PMID: PMC3100743
9. Mostaghimi A, **Crotty BH**, Landon BE. The availability and nature of physician information on the internet. *J Gen Intern Med*. 2010 Nov;25(11):1152-6. PMID: PMC2947633
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11. **Crotty BH**, Mostaghimi A, Reynolds EE. Adoption of a wiki within a large internal medicine residency program: a 3-year experience. *J Am Med Inform Assoc*. 2012;19(4):621-5. PMID: PMC3384103
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13. **Crotty BH**, Mostaghimi A, Landon BE. Preparing residents for future practice: report of a curriculum for electronic patient-doctor communication. *Postgrad Med J*. 2013 Oct;89(1056):554-9.
14. **Crotty BH**, Mostaghimi A. Confidentiality in the digital age. *BMJ*. 2014 May 09;348:g2943.
15. Fischer SH, David D, **Crotty BH**, Dierks M, Safran C. Acceptance and use of health information technology by community-dwelling elders. *Int J Med Inform*. 2014 Sep;83(9):624-35. PMID: PMC4144164
16. **Crotty BH**, Tamrat Y, Mostaghimi A, Safran C, Landon BE. Patient-to-physician messaging: volume nearly tripled as more patients joined system, but per capita rate plateaued. *Health Aff (Millwood)*. 2014 Oct;33(10):1817-22. PMID: PMC4418542
17. **Crotty BH**, Mostaghimi A, O'Brien J, Bajracharya A, Safran C, Landon BE. Prevalence and Risk Profile Of Unread Messages To Patients In A Patient Web Portal. *Appl Clin Inform*. 2015;6(2):375-82. PMID: PMC4493337
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21. **Crotty BH**, Anselmo M, Clarke DN, Famiglio LM, Flier L, Green JA, Leveille S, Mejilla R, Stametz RA, Thompson M, Walker J, Bell SK. Opening Residents' Notes to Patients: A Qualitative Study of Resident and Faculty Physician Attitudes on Open Notes Implementation in Graduate Medical Education. *Acad Med*. 2016 Mar;91(3):418-26.
22. Pandolfe F, **Crotty BH**, Safran C. Medication Harmony: A Framework to Save Time, Improve Accuracy and Increase Patient Activation. *AMIA Annu Symp Proc*. 2016;2016:1959-1966. PMID: PMC5333345
23. Bajracharya AS, **Crotty BH**, Kowaloff HB, Safran C, Slack WV. Improving health care proxy documentation using a web-based interview through a patient portal. *J Am Med Inform Assoc*. 2016 May;23(3):580-7. PMID: PMC4901371
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27. **Crotty BH**, Anselmo M, Clarke D, Elmore JG, Famiglio LM, Fossa A, Flier L, Green J, Klein JW, Leveille

- S, Lin CT, Lyon C, Mejilla R, Moles M, Stametz RA, Thompson M, Walker J, Bell SK. Open Notes in Teaching Clinics: A Multisite Survey of Residents to Identify Anticipated Attitudes and Guidance for Programs. *J Grad Med Educ*. 2018 Jun;10(3):292-300. PMID: PMC6008043
28. Asan O, Tyszk J, **Crotty B**. The electronic health record as a patient engagement tool: mirroring clinicians' screen to create a shared mental model. *JAMIA Open*. 2018 Jul;1(1):42-48. PMID: PMC6952027
  29. Quintana Y, **Crotty B**, Fahy D, Lipsitz L, Davis RB, Safran C. Information sharing across generations and environments (InfoSAGE): study design and methodology protocol. *BMC Med Inform Decis Mak*. 2018 Nov 20;18(1):105. PMID: PMC6245635
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  43. Holt JM, Winn A, Cusatis R, Talsma A, **Crotty BH**. Racial Disparities in Patient Activation: The Role of Economic Diversity. *West J Nurs Res*. 2021 Jun;43(6):517-529.
  44. Asan O, Choudhury A, Somai MM, **Crotty BH**. Augmenting patient safety through participation by design - An assessment of dual monitors for patients in the outpatient clinic. *Int J Med Inform*. 2021 Feb;146:104345.
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  51. Bongers Q; Fangman JJF, Decker MC, **Crotty BH**. Does a Centralized Scheduling Process Improve Referral Timeliness? *Wisconsin Medical Journal (In Press)*. .
  52. Luo J, Tong L, **Crotty BH**, Somai M, Taylor B, Osinski K, George B. Telemedicine Adoption during the COVID-19 Pandemic: Gaps and Inequalities. *Appl Clin Inform*. 2021 Aug;12(4):836-844. PMID: PMC8426040
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  62. Brown SA, Sparapani R, Osinski K, Zhang J, Blessing J, Cheng F, Hamid A, Berman G, Lee K, BagheriMohamadiPour M, Lal JC, Kothari AN, Caraballo P, Noseworthy P, Johnson RH, Hansen K, Sun LY, **Crotty B**, Cheng YC, Olson J, Cardio-Oncology Artificial Intelligence Informatics & Precision (CAIP) Research Team Investigators. Establishing an interdisciplinary research team for cardio-oncology artificial intelligence informatics precision and health equity. *Am Heart J Plus*. 2022 Jan;13. PMID: PMC9012235
  63. **Crotty BH**, Somai M. Bugs in the Virtual Clinic: Confronting Telemedicine's Challenges Through Empathy and Support. *J Particip Med*. 2022 Apr 22;14(1):e25688. PMID: PMC9077509
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- informatics tool that collects patient-generated contextual data. *Int J Med Inform.* 2022 Sep;165:104810.
65. Holt JM, Cusatis R, Mortensen N, Wolfrath N, Hyun N, Winn AN, Brown SA, Somai MM, **Crotty BH**. Twenty-first century house calls: a survey of ambulatory care providers to inform organisational telehealth strategy. *BMJ Health Care Inform.* 2022 Dec;29(1). PMID: PMC9791455
  66. Wong R, Mehta T, Very B, Luo J, Feterik K, **Crotty BH**, Epstein JA, Flitsos MJ, Kashyap N, Smith E, Woreta FA, Schwartz JI. Where Do Real-Time Prescription Benefit Tools Fit in the Landscape of High US Prescription Medication Costs? A Narrative Review. *J Gen Intern Med.* 2023 Mar;38(4):1038-1045. PMID: PMC10039141
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  71. Wamuo O, Hyun N, Holt JM, Somai MM, **Crotty BH**. Patient and Provider Factors Associated With Successfully Addressing Medical Needs Using Telehealth: A Cross-Sectional Survey. *WMJ.* 2023 May;122(2):124-126.
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### **Books, Chapters, and Reviews**

1. **Crotty BH**. Considerations and Challenges in Information and Communication Technology In: Catic A, Ethical Considerations and Challenges in Geriatrics. Springer 2017.
2. Weppner W, **Crotty BH**. Non-Traditional Methods of Care. In *Leading An Academic Medical Practice*. Lu LB Ed. Springer 2018.
3. **Crotty BH**. Considerations and challenges in information and communication technology Ethical Considerations and Challenges in Geriatrics. 31 January 2017:147-156.
4. Weppner W, **Crotty BH**. Nontraditional Methods of Care Leading an Academic Medical Practice. 26 February 2018:313-324.
5. Asan O, **Crotty BH**, Chaudhury A. Patient-Professional Communication. In *The Patient Factor. Theories and Methods for Patient Ergonomics*. Holden R and Valdez R Eds. Taylor and Francis 2021

### **Editorials, Letters to Editor, Other**

1. **Crotty BH**, Mostaghimi A, Arora VM. Online identities of physicians. *JAMA.* 2013 Dec 18;310(23):2566-7.

### **Non-Refereed Journal Publications/Original Papers**

1. **Crotty BH**, Somai M, Carlile N. Adopting Agile Principles in Health Care *Health Affairs Blog*. "Adopting

### **Abstracts**

1. Bell SK, **Crotty BH**, Anselmo M, Flier L, Leveille S, Mejilla R, Walker J. Patient Safety Implications of Shared Visit Notes: Trainee and Preceptor Views. Harvard Medical School Medical Education Day. Boston, MA October 23, 2013.
2. Flier S, **Crotty BH**, Anselmo M, Leveille S, Mejilla R, Walker J, Bell SK. Sharing Trainee Notes with Patients: Anticipated Effects of OpenNotes on Graduate Medical Education. Harvard Medical School Medical Education Day. Boston, MA. October 23, 2013.
3. **Crotty BH**, Feldman, Reti, Landon B, Safran C. Missed Communication – An Analysis of Unread Messages Through a Patient Web Portal. American Medical Informatics Association Annual Symposium. November 11, 2013.
4. **Crotty BH**, Anselmo M, Clarke DN, Famiglio LM, Flier L, Green JA, Leveille S, Mejilla R, Stametz TA, Thompson M, Walker J, Bell SK. Sharing Trainee Notes With Patients: Anticipated Effects of OpenNotes on Graduate Medical Education. Society of General Internal Medicine (Joint Session, American Academy on Communication in Healthcare) April 24 2014
5. **Crotty BH**, Walker J, O'Brien J, Lipsitz L, Dierks M, Safran C. Elders & Families Rely On Social Networks For Aging-Related Information: Implications For Informaticians. American Medical Informatics Association Annual Symposium, November 2014
6. **Crotty BH**, O'Brien JS, Dierks M, Lu X, Feldman HJ, Safran C. Not Just For The Millennials: A Cross-Sectional Analysis Of Secure Messaging Use Among Elders, Families, And Physicians. American Medical Informatics Association Annual Symposium, November 2014
7. Bajracharya AS, **Crotty BH**, Kowaloff HK, Slack WV, Safran C An Interactive Web-based Interview to Improve Family Medical History Documentation. American Medical Informatics Association Annual Symposium, November 2014
8. Schanker B, **Crotty BH**, O'Brien J, Slack WV, Safran C. InfoSAGE: Information Sharing Across Generations and Environments. Harvard Medical School Primary Care Innovations Conference. October 2015.
9. Onur, A, Crotty, BH, Tyszka, J. Involving Patients to Improve Documentation Accuracy: A New EHR Screen Design. Human Factors and Ergonomics in Health Care Conference. March 2018.
10. Xu, L, Hirsch, W, Blanchfield, BB, Williams R, Mitchell, AH, Crotty, BH, Remus, K, Wrenn, K. Health Coaching in a Student-Faculty Collaborative Practice: Impact on Health Professions Students' Education. Society of General Internal Medicine. April 2018.
11. Crotty, BH, Iglar, P, Tyszka, J, Asan, O. Beyond Screen Sharing: Providing Patients with Mirrored EHR Screens to Augment Awareness. Joint Society of General Internal Medicine and American Medical Informatics Association. April 2018.
12. Crotty, BH, Asan, O, Moore, J, Tyszka, J, Anderes, M, Makoul, G. Humanizing the Electronic Health Record: Implementation of PatientWisdom across primary care and specialty clinic. Society of General Internal Medicine. April 2018.
13. Crotty, B., Holt, J.M., Cusatis, R., Asan, O., Williams, J., Flynn, K., ... & Makoul, G. (2018). Humanizing the Chart: Becoming More Responsive to Patient Needs Through Implementation of PatientWisdom. Iproceedings, 4(2), e11793. <https://www.iproc.org/2018/2/e11793/>
14. Cusatis, R. C., Holt, J. M., Onur, A., Williams, J. S., Nukuna, S., Flynn, K. E., Crotty, B. (2018, November). Understanding how patient contextual data augments patient & clinician communication from the clinician's perspective. Poster presentation, North American Primary Care Research Group Annual Meeting, Chicago, IL.
15. Holt, J. M., Cusatis, R. C., Onur, A., Williams, J. S., Nukuna, S., Flynn, K. E., Crotty, B. (2018, November). Barriers & facilitators to integrating patient contextual data into primary care. Poster presentation, North American Primary Care Research Group Annual Meeting, Chicago, IL.
16. Holt, J. M., Cusatis, R. C., Onur, A., Williams, J. S., Flynn, K. E., Crotty, B. (2019, June) Can patients humanize their electronic health record to facilitate stronger connections with care teams? Podium Presentation. 28th Annual Department of Family and Community Medicine Research Forum, Milwaukee WI.
17. Holt, J. M., Cusatis, R. C., Onur, A., Williams, J. S., Flynn, K. E., Crotty, B. (2019, May) Can patients humanize their electronic health record to facilitate stronger connections with care teams? UWM Health Research Symposium. Podium and Poster Presentation. Milwaukee, WI.
18. Holt, J. M., Cusatis, R. C., Onur, A., Williams, J. S., Flynn, K. E., Crotty, B. (2019, May) Can patients

- humanize their electronic health record to facilitate stronger connections with care teams? Society of General Internal Medicine 2019 Annual Meeting, Washington, DC.
19. Holt, J. M., Cusatis, R. C., Onur, A., Williams, J. S., Nukuna, S., Flynn, K. E., Moore, J., Crotty, B. (2019, March). Clinician Perspectives on the Integration of Patient Contextual Data into Primary Care. Poster Presentation. Midwest Nursing Research Society 43rd Annual Research Conference, Kansas City, MO.
  20. Natalie Mortensen MSN, RN, NI-BC Annie Glasel, Tatum Wiley, Amy Miller MD, Angela Dement, Brad Crotty MD, Mike Anderes, Chris Decker MD. Developing and Improving a Virtual Visit Program in the COVID era utilizing a Core Team in an Incident Command System. Lean Healthcare Academic Conference from Stanford - Understanding Problem Solving Together - During a Crisis and Beyond. Virtual. 9/29/2020-9/30/2020.
  21. Wong R, Mehta T, Schwartz JI, Epstein JA, Smith E, Kashyap N, Woreta F, **Crotty B**, Feterik K, Fliotsos M, Luo J. "Implementing Real-Time Prescription Benefit Tools: Early Experiences at 5 Academic Centers." Annual Symposium, American Medical Informatics Association. San Diego, CA. October 30-November 3, 2021

#### **Software, Software Modules**

1. BIDWiki.org: Architected Sharepoint wiki with associated workflow management, single sign on, and evaluation.
2. dcieducation.bidmc.org: An online learning platform for informatics fellows and students at Beth Israel Deaconess Medical Center. Features included concepts of fellow rotations, curricula, online educational videos with nested quizzes, and related readings linked to Pubmed. Software built using Django Framework (Python), with institutional single sign-on and responsive design.