

## A. Biographical Information

JAMES D. RALSTON

Kaiser Permanente Washington Health Research  
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## B. Education

Stanford University, Stanford, CA	B.A.	Classics	1988
University of Washington, Seattle, WA	M.D.	Medicine	1994
University of Washington, Seattle, WA	M.P.H.	Health Services	2002

## C. Licensure

Physician and Surgeon, Washington State, expires 7/2022: #00034187

### Board Certification

American Board of Internal Medicine, 1997-2007: recertified 2007-2017, 2017 to 2027

## D. Residency and Fellowship

Intern	Internal Medicine	Virginia Mason Medical Center	7/94-07/95
Resident	Internal Medicine	Virginia Mason Medical Center	7/95-07/97
Chief Resident	Internal Medicine	Virginia Mason Medical Center	7/97-07/98
Fellow	NRSA Program in Primary Care Research	U of Washington	7/00-09/03

## Faculty Appointments

Senior Scientific Investigator, Kaiser Permanente Washington Health Research Institute, Kaiser Foundation Health Plan of Washington*	2015 – Present
Affiliate Professor, Health Services University of Washington School of Public Health	2018 – Present
Affiliate Professor, Biomedical and Health Informatics University of Washington School of Medicine	2018 – Present
Affiliate Associate Professor, Health Services University of Washington School of Public Health	2013 – 2018
Affiliate Associate Professor, Biomedical and Health Informatics University of Washington School of Medicine	2013 – 2018
Affiliate Assistant Professor, Health Services University of Washington School of Public Health	2005 – 2012
Affiliate Assistant Professor, Biomedical and Health Informatics University of Washington School of Medicine	2011 – 2013
Associate Scientific Investigator, Group Health Research Institute	2010 – 2015
Assistant Scientific Investigator, Group Health Research Institute	2003 – 2009

## Clinical Positions

Internal Medicine, Washington Permanente Medical Group*	2003 – Present
Hospitalist, Virginia Mason Medical Center	2000 – 2003
Internist, private practice locum tenens	1998 – 1999

*\*Kaiser Permanente acquired Group Health in February 2017, at which point Group Health Research Institute became Kaiser Permanente Washington Health Research Institute.*

## E. Honors, Awards, Scholarships

Faculty Mentoring Award, Group Health Research Institute	2016
John Q. Sherman Award for Excellence in Engaging Patients	2014

## James D. Ralston, M.D., M.P.H.

Top Doctor, Washington Magazine	2011
National Research Service Award and Fellowship	2001 – 2003
Chief Medical Resident, Virginia Mason Medical Center	1997 – 1998

### F. Other Professional Activities

#### Professional Organizations

Society for General Internal Medicine (associate member)	2001 – Present
American College of Physicians (member)	1994 – Present
American Medical Informatics Association (member)	2003 – Present

#### Grant Review

Member, Health Care Research and Training Study Section, Agency for Healthcare Research and Quality: October 2010-2014.

#### Ad Hoc Grant Review

1. Patient Centered Outcomes Research Institute, Phased Large Awards in Comparative Effectiveness Research, 2021.
2. Office of the National Coordinator for Health Information Technology, Leading Edge Acceleration Project Special Emphasis Notice in Health Information Technology, 2019.
3. Biomedical Informatics, Library and Data Sciences (BILDS) Review Committee, National Library of Medicine, June 2018
4. Health Care Research and Training Study Section, Agency for Healthcare Research and Quality: March 2009, July 2009, October 2009, March 2010.
5. Institute of Translational Health Sciences, Pilot Grant Review, University of Washington, December 2009, March 2010.
6. Ambulatory Safety and Quality Program: Improving Management of Individuals with Complex Healthcare Needs through Health IT, Agency for Healthcare Quality and Research, June 2008.
7. Ambulatory Safety and Quality Program: Improving Quality through Clinician Use of Health IT, Agency for Healthcare Quality and Research, June 2007.
8. Diabetes UK, Care and Treatment of diabetes and its complications, 2006
9. Cancer Research Network, Pilot Fund Proposals, 2004.

#### Ad Hoc Manuscript Review

1. Annals of Family Medicine (2010 – 2020)
2. Journal of the American Medical Informatics Association (2011-2016)
3. Health Affairs (2010)
4. Journal of Biomedical Informatics (2010)
5. International Journal of Medical Informatics (2010)
6. Health Services Research (2009)
7. BMC Medical Informatics and Decision Making (2009, 2010, 2011, 2019, 2020)
8. Journal of General Internal Medicine (2004 – 2018, 2021)
9. Diabetes Research and Clinical Practice (2006)
10. Health Expectations (2004, 2013, 2014)
11. Journal on Information Technology in Healthcare (2004)
12. Journal of the National Cancer Institute (2005)
13. Evaluation and Program Planning (2005)
14. Journal of Medical Internet Research (2007, 2010, 2011)
15. Journal of the American Medical Association (2004)
16. Medicare Medicaid Research Review (2012, 2013)
17. Applied Clinical Informatics (2015-2021)
18. American Journal of Managed Care (2020)
19. Annals of Internal Medicine (2015)
20. The Permanente Journal (2018, 2021)
21. Medical Care (2021)
22. Contemporary Clinical Trials (2021)

### Other Professional Responsibilities and Service Activities

Reviewer, American Medical Informatics Association Annual Meeting, 2010 – 2016  
Reviewer, Conference on Human Factors in Computing Systems Annual Meeting (ACM CHI), 2017  
Executive Committee Member, VA eHealth QUERI, 2010 – 2015  
Abstract Reviewer, Medicine 2.0: Social Networking and Web 2.0 Applications in Medicine and Health, International, Conference Toronto Canada, 2008  
Briefed staff in five federal legislator's offices in Washington DC (including Murray, Cantwell, McDermott) on importance of patient-centered policies for personal health records. July, 2008  
Selected to present to RWJF Board of Trustees in Seattle on use of the Chronic Care Model with new communication technologies, 2008

### G. Bibliography

Peer-Reviewed Research Publications in Journals (\*primary mentor publications)

1. Grant RW, McCloskey J, Hatfield M, Uratsu C, **Ralston JD**, Bayliss E, Kennedy CJ. Use of latent class analysis and k-means clustering to identify complex patient profiles. *JAMA Netw Open*. 2020;3(12):e2029068. PMID: 33306116; PMCID: PMC7733156.
2. **Ralston JD**, Yu O, Penfold RB, Gundersen G, Ramaprasan A, Schartz EM. Changes in clinician attitudes toward sharing visit notes: Surveys pre-and post-implementation. *J Gen Intern Med*. 2021;36(11):3330-3336. PMID: 33886028; PMCID: PMC8061150.
3. Tuzzio L, Berry AL, Gleason K, Barrow J, Bayliss EA, Gray MF, Delate T, Bermet Z, Uratsu CS, Grant RW, **Ralston JD**. Aligning care with the personal values of patients with complex care needs. *Health Serv Res*. 2021;56 Suppl 1(Suppl 1):1037-1044. PMID: 34363205; PMCID: PMC8515216.
4. Tuzzio L, O'Meara ES, Holden E, Parchman ML, **Ralston JD**, Powell JA, Baldwin LM. Barriers to implementing cardiovascular risk calculation in primary care: Alignment with the consolidated framework for implementation research. *Am J Prev Med*. 2021 Feb;60(2):250-257. PMID: 33279368; PMCID: PMC8638790.
5. Makhnoon S, Bowen DJ, Shirts BH, Fullerton SM, Meischke HW, Larson EB, **Ralston JD**, Leppig K, Crosslin DR, Veenstra D, Jarvik GP. Relationship between genetic knowledge and familial communication of CRC risk and intent to communicate CRCP genetic information: Insights from FamilyTalk eMERGE III. *Transl Behav Med*. 2021;11(2):563-572. PMID: 32579152; PMCID: PMC7963296.
6. Bowen DJ, Makhnoon S, Shirts BH, Fullerton SM, Larson E, **Ralston JD**, Leppig K, Crosslin DR, Veenstra D, Jarvik GP. What improves the likelihood of people receiving genetic test results communicating to their families about genetic risk? *Patient Educ Couns*. 2021;104(4):726-31. PMID: 33455827; PMCID: PMC8005444.
7. Ramirez M, Duran MC, Pabiniak CJ, Hansen KE, Kelley A, **Ralston JD**, McCurry SM, Teri L, Penfold RB. Family caregiver needs and preferences for virtual training to manage behavioral and psychological symptoms of dementia: Interview study. *JMIR Aging*. 2021;4(1):e24965 PMID: 33565984.
8. Makhnoon S, Bowen DJ, Shirts BH, Fullerton SM, Larson EB, **Ralston JD**, Leppig KA, Crosslin DR, Veenstra D, Jarvik GP. The FamilyTalk randomized controlled trial: patient-reported outcomes in clinical genetic sequencing for colorectal cancer. *Cancer Causes Control*. 2021;32(5):483-92. PMID: 33591484.
9. Henrikson NB, Scrol A, Leppig KA, **Ralston JD**, Larson EB, Jarvik GP. Preferences of biobank participants for receiving actionable genomic test results: results of a recontacting study. *Genet Med*. 2021. PMID: 33603197.
10. Lynch JA, Sharp RR, Aufox SA, Bland ST, Blout C, Bowen DJ, Buchanan AH, Halverson C, Harr M, Hebbing SJ, Henrikson N, Hoell C, Holm IA, Jarvik G, Kullo IJ, Kochan DC, Larson EB, Lazzeri A, Leppig KA, Madden J, Marasa M, Myers MF, Peterson J, Prows CA, Kulchak Rahm A, **Ralston J**, Milo Rasouly H, Scrol A, Smith ME, Sturm A, Stuttgen K, Wiesner G, Williams MS, Wynn J, Williams JL. Understanding the Return of Genomic Sequencing Results Process: Content Review of Participant Summary Letters in the eMERGE Research Network. *J Pers Med*. 2020;10(2). PMCID: PMC7354464.
11. Makhnoon S, Bowen DJ, Shirts BH, Fullerton SM, Meischke HW, Larson EB, **Ralston JD**, Leppig K, Crosslin DR, Veenstra D, Jarvik GP. Relationship between genetic knowledge and familial

- communication of CRC risk and intent to communicate CRCP genetic information: insights from FamilyTalk eMERGE III. *Transl Behav Med.* 2020.
12. Penfold RB, Thompson EE, Hilt RJ, Kelleher KJ, Schwartz N, Beck A, Clarke GN, Ralston JD, Hartzler AL, Coley RY, Akosile M, Vitiello B, Simon GE. Safer use of antipsychotics in youth (SUAY) pragmatic trial protocol. *Contemp Clin Trials.* 2020;99:106184.
  13. Schuttner L, Coleman K, **Ralston J**, Parchman M. The role of organizational learning and resilience for change in building quality improvement capacity in primary care. *Health Care Manage Rev.* 2020. PMID: PMC7541444.
  14. Tchesnokova VL, Rechkina E, Chan D, Haile HG, Larson L, Ferrier K, Schroeder DW, Solyanik T, Shibuya S, Hansen K, **Ralston JD**, Riddell K, Scholes D, Sokurenko EV. Pandemic Uropathogenic Fluoroquinolone-resistant Escherichia coli Have Enhanced Ability to Persist in the Gut and Cause Bacteriuria in Healthy Women. *Clin Infect Dis.* 2020;70(5):937-9.
  15. Wiesner GL, Kulchak Rahm A, Appelbaum P, Aufox S, Bland ST, Blout CL, Christensen KD, Chung WK, Clayton EW, Green RC, Harr MH, Henrikson N, Hoell C, Holm IA, Jarvik GP, Kullo IJ, Lammers PE, Larson EB, Lindor NM, Marasa M, M FM, Peterson JF, Prows CA, **Ralston JD**, Milo Rasouly H, Sharp RR, Smith ME, Van Driest SL, Williams JL, Williams MS, Wynn J, Leppig KA. Returning Results in the Genomic Era: Initial Experiences of the eMERGE Network. *J Pers Med.* 2020;10(2). PMID: PMC7354592.
  16. Gordon, AS, Rosenthal EA, Carrell DS, Amendola LM, Dorschner MO, Scrol A, Stanaway IB, DeVange S, **Ralston JD**, Zouk H, Rhem HL, Larson E, Crosslin DR, Leppig KA, Jarvik GP. Rates of Actionable Genetic Findings in Individuals with Colorectal Cancer or Polyps Ascertained from a Community Medical Setting. *Am J Hum Genet.* 2019 Aug 8. pii: S0002-9297(19)30275-7.
  17. Hartzler AL, **Ralston JD**, Hannan TA, Kelleher KJ, Penfold RB. Designing Safer Use of Antipsychotics Among Youths: A Human-Centered Approach to an Algorithm-Based Solution. *Psychiatric Services.* 2019 Jul 16. PMID: 31310188
  18. Tchesnokova VL, Rechkina E, Chan D, Haile HG, Larson L, Ferrier K, Schroeder DW, Solyanik T, Shibuya S, Hansen K, **Ralston JD**, Riddell K, Scholes D, Sokurenko EV. Pandemic uropathogenic fluoroquinolone-resistant Escherichia coli have enhanced ability to persist in the gut and cause bacteriuria in healthy women. *Clin Infect Dis.* 2019 Jul 4. pii: ciz547. PMID: 31271206.
  19. Henrikson NB, Blasi PR, Corsmo JJ, Sheffer Serdoz E, Scrol A, Greene SM, Matthews TL, **Ralston JD**. "You Really Do Have to Know the Local Context": IRB Administrators and Researchers on the Implications of the NIH Single IRB Mandate for Multisite Genomic Studies. *Journal of Empirical Research on Human Research Ethics:* 2019 Jul;14(3):286-295.
  20. Vizer LM, Eschler J, Koo BM, **Ralston J**, Pratt W, Munson S. It's Not Just Technology, It's People": Constructing a Conceptual Model of Shared Health Informatics for Tracking in Chronic Illness Management. *J Med Internet Res.* 2019 Apr 29;21(4):e10830. PMID: 31033452.
  21. Karter AJ, Warton EM, Moffet HH, **Ralston JD**, Huang ES, Miller DR, Lipska KJ. Revalidation of the Hypoglycemia Risk Stratification Tool Using ICD-10 Codes. *Diabetes Care.* 2019;42(4):e58-e9. PMID: PMC6429629.
  22. Tchesnokova VL, Rechkina E, Larson L, Ferrier K, Weaver JL, Schroeder DW, She R, Butler-Wu SM, Aguero-Rosenfeld ME, Zerr D, Fang FC, **Ralston J**, Riddell K, Scholes D, Weissman S, Parker K, Spellberg B, Johnson JR, Sokurenko EV. Rapid and Extensive Expansion in the United States of a New Multidrug-resistant Escherichia coli Clonal Group, Sequence Type 1193. *Clin Infect Dis.* 2019 Jan 7;68(2):334-337. PMID: 29961843.
  23. Aronson S, Babb L, Ames D, Gibbs RA, Venner E, Connelly JJ, Marsolo K, Weng C, Williams MS, Hartzler AL, Liang WH, **Ralston JD**, Devine EB, Murphy S, Chute CG, Caraballo PJ, Kullo IJ, Freimuth RR, Rasmussen LV, Wehbe FH, Peterson JF, Robinson JR, Wiley K, Overby Taylor C; eMERGE Network EHRI Working Group. Empowering genomic medicine by establishing critical sequencing result data flows: the eMERGE example. *J Am Med Inform Assoc.* 2018 May 31. PMID: 29860405
  24. Chang E, Blondon K, Lyles CR, Jordan L, **Ralston JD**. Racial/ethnic variation in devices used to access patient portals. *Am J Manag Care.* 2018 Jan 1;24(1):e1-e8. PMID: 29350513.
  25. Karter AJ, Warton EM, Lipska KJ, **Ralston JD**, Moffet HH, Jackson GG, Huang ES, Miller DR. Development and Validation of a Tool to Identify Patients With Type 2 Diabetes at High Risk of Hypoglycemia-Related Emergency Department or Hospital Use. *JAMA Intern Med.* 2017 Oct 1;177(10):1461-1470. PMID: PMC5624849.

26. \*Lim CY, Berry ABL, Hirsch T, Hartzler AL, Wagner EH, Ludman EJ, **Ralston JD**. Understanding What Is Most Important to Individuals with Multiple Chronic Conditions: A Qualitative Study of Patients' Perspectives. *J Gen Intern Med*. 2017 Aug 28. doi: 10.1007/s11606-017-4154-3.
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28. Peikes, O'Malley A, Wilson C, Crosson J, Gaddes R, Natzke B, MPP, Day T, Crompt D, Keith R, Little J, Ralston J. Early Experiences Engaging Patients Through Patient and Family Advisory Councils. *J Ambulatory Care Manage*. *J Ambul Care Manage*. 2016 Oct-Dec;39(4):316-24.
29. Tieu L, Schillinger D, Sarkar U, Hoskote M, Hahn KJ, Ratanawongsa N, **Ralston JD**, Lyles CR. Personal electronic health records and vulnerable patients: portals to nowhere? *J Am Med Inform Assoc*. 2017 Apr 1;24(e1):e47-e54.
30. Bush WS, Crosslin DR, Obeng AO, Wallace J, Almoquera B, Basford MA, Bielinski SJ, Carrell DS, Connolly JJ, Crawford D, Doheny KF, Gallego CJ, Gordon AS, Keating B, Kirby J, Kitchner T, Manzi S, Mejia AR, Pan V, Perry CL, Peterson JF, Prows CA, **Ralston J**, Scott SA, Scrol A, Smith M, Stallings SC, Veldhuizen T, Wolf W, Volpi S, Wiley K, Li R, Manolio T, Bottinger E, Brilliant MH, Carey D, Chisholm RL, Chute CG, Haines JL, Hakonarson H, Harley JB, Holm IA, Kullo IJ, Jarvik GP, Larson EB, McCarty CA, Williams MS, Denny JC, Rasmussen-Torvik LJ, Roden DM, Ritchie MD. Genetic variation among 82 pharmacogenes: the PGRN-seq data from the eMERGE Network. *Clin Pharmacol Ther*. 2016 Aug;100(2):160-9. PMC5010878.
31. Grembowski D, **Ralston JD**, Anderson ML. Health outcomes of population-based pharmacy outreach to increase statin use for prevention in patients with diabetes. *J Manag Care Spec Pharm*. 2016 Aug;22(8):909-17.
32. Bayliss EA, McQuillan DB, Ellis JL, Maciejewski ML, Zeng C, Barton MB, Boyd CM, Fortin M, Ling SM, Tai-Seale M, **Ralston JD**, Ritchie CS, Zulman DM. Using Electronic Health Record Data to Measure Care Quality for Individuals with Multiple Chronic Medical Conditions. *J Am Geriatr Soc*. 2016 Sep;64(9):1839-44
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34. Leveille SG, Mejilla R, Ngo L, Fossa A, Elmore JG, Darer J, **Ralston JD**, Delbanco T, Walker J. Do patients who access clinical information on patient internet portals have more primary care visits? *Med Care*. 2016 Jan;54(1):17-23.
35. Tieu L, Sarkar U, Schillinger D, **Ralston JD**, Ratanawongsa N, Pasick R, Lyles CR. Barriers and facilitators to online portal use among patients and caregivers in a safety net health care system: A qualitative study. *J Med Internet Res*. 2015 Dec 3; 17(12):e275. PMC4704882.
36. Herr TM, Bielinski SJ, Bottinger E, Brautbar A, Brilliant M, Chute CG, Cobb BL, Denny JC, Hakonarson H, Hartzler AL, Hripcsak G, Kannry J, Kohane IS, Kullo IJ, Lin S, Manzi S, Marsolo K, Overby CL, Pathak J, Peissig P, Pulley J, **Ralston J**, Rasmussen L, Roden DM, Tromp G, Uphoff T, Weng C, Wolf W, Williams MS, Starren J. Practical considerations in genomic decision support: The eMERGE experience. *J Pathol Inform*. 2015 Sep 28;6:50. PMC4629307.
37. Lyles CR, Sarkar U, Schillinger D, **Ralston JD**, Allen JY, Nguyen R, Karter AJ. Refilling medications through an online patient portal: consistent improvements in adherence across racial/ethnic groups. *J Am Med Inform Assoc*. 2016 Apr;23(e1):e28-33. PMC4954621.
38. Fredericksen RJ, Tufano J, **Ralston J**, McReynolds J, Stewart M, Lober WB, Mayer KH, Mathews WC, Mugavero MJ, Crane PK, Crane HM. Provider perceptions of the value of same-day, electronic patient-reported measures for use in clinical HIV care. *AIDS Care*. 2016 Nov;28(11):1428-33. PMC5310959.

**James D. Ralston, M.D., M.P.H.**

39. Bell SK, Mejilla R, Anselmo M, Darer J, Elmore JG, Leveille S, Ngo L, **Ralston JD**, Delbanco T, Walker J. When doctors share visit notes with patients: a study of patient and doctor perceptions of documentation errors, safety opportunities and the patient-doctor relationship. *BMJ Qual Saf.* 2017;26(4):262-70.
40. Herr TM, Bielinski SJ, Bottinger E, Brautbar A, Brilliant M, Chute CG, Denny J, freimuth RR, Hartzler A, Kannry J, Kohane IS, Kullo IJ, Lin S, Pathal J, Peissig P, Pulley J, **Ralston JD**, Rasmussen L, Roden D, Tromp G, Williams MS, Starren J. A conceptual model for translation omic data into clinical action. *J Pathol Inform.* 2015 Aug 31; 6:46 PMC4584438.
41. Oster NV, Jackson SL, Dhanireddy S, Mejilla R, **Ralston JD**, Leveille S, Delbanco T, Walker JD, Bell SK, Elmore JG. Patient Access to Online Visit Notes: Perceptions of Doctors and Patients at an Urban HIV/AIDS Clinic. *J Int Assoc Provid AIDS Care.* 2015 Jul; 14(4): 306–312 PMC4194185
42. Mosley JD, Shaffer CM, Van Driest SL, Weeke PE, Wells QS, Karnes JH, Velez Edwards DR, Wei W-Q, Teixeira PL, Bastarache L, Crawford DC, Li R, Manolio TA, Bottinger EP, McCarty CA, Linneman JG, Brilliant MH, Pacheco JA, Thompson W, Chisholm RL, Jarvik GP, Crosslin DR, Carrell DS, Baldwin E, **Ralston J**, Larson EB, Grafton J, Scrol A, Jouni H, Kullo IJ, Tromp G, Borthwick KM, Kuivaniemi H, Carey DJ, Ritchie MD, Bradford Y, Verma SS, Chute CG, Veluchamy A, Siddiqui MK, Palmer CNA, Doney A, MahmoodPour SH, Maitland-van der Zee AH, Morris AD, Denny JC, Roden DM. A genome-wide association study identifies variants in *KCNIP4* associated with ACE inhibitor-induced cough. *Pharmacogenomics J.* 2016 Jun;16(3):231-7. PMC4713364.
43. Trinidad SB, Coffin TB, Fullerton SM, **Ralston J**, Jarvik GP, Larson EB. "Getting off the Bus Closer to Your Destination": Patients' Views about Pharmacogenetic Testing. 2015 Jun 1. PMC4500477.
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45. Jackson SL, Mejilla R, Darer JD, Oster NV, **Ralston JD**, Leveille SG, Walker J, Delbanco T, Elmore JG. Patient who share transparent visit notes with others: characteristics, risks and benefits. *J Med Internet Res.* 2014 Nov 12;16(11)e247. PMC4260006.
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48. Rasmussen-Torvik LJ, Stallings SC, Gordon AS, Almoguera B, Basford MA, Bielinski SJ, Brautbar A, Brilliant M, Carrell DS, Connolly J, Crosslin DR, Doheny KF, Gallego CJ, Gottesman O, Kim DS, Leppig KA, Li R, Lin S, Manzi S, Mejia AR, Pacheco JA, Pan V, Pathak J, Perry CL, Peterson JF, Prows CA, **Ralston J**, Rasmussen LV, Ritchie MD, Sadhasivam S, Scott SA, Smith M, Vega A, Vinks AA, Volpi S, Wolf WA, Bottinger E, Chisholm RL, Chute CG, Haines JL, Harley JB, Keating B, Holm IA, Kullo IJ, Jarvik GP, Larson EB, Manolio T, McCarty CA, Nickerson DA, Scherer SE, Williams MS, Roden DM, Denny JC. Design and anticipated outcomes of the eMERGE-PGx project: a multi-center pilot for pre-emptive pharmacogenomics in electronic health record systems. *Clin Pharmacol Ther.* 2014 Oct;96(4)482-9. PMC4169732.
49. \*Blondon K, Hebert PL, **Ralston JD**. An exploration of the potential reach of smartphones in diabetes. *AMIA Annu Symp Proc.* 2014 Nov 14;2014:289-96. PMC4419894.
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54. Green BB, Anderson ML, **Ralston JD**, Catz SL, Cook AJ. Blood pressure 1 year after completion of web-based pharmacist care. *JAMA Intern Med*. 2013 May 20;1-3. PMC3938109.
55. Lyles CR, Sarkar U, **Ralston JD**, Adler N, Schillinger D, Moffet HH, Huang ES, Karter AJ. Patient-provider communication and trust in relation to use of an online patient portal among diabetes patients: The Diabetes and Aging Study. *J Am Med Inform Assoc*. 2013;20(6):1128-31. PMC3822118.
56. \*Harris LT, Koepsell TD, Haneuse SJ, Martin DP, **Ralston JD**. Glycemic control associated with secure patient-provider messaging within a shared electronic medical record: a longitudinal analysis. *Diabetes Care*. 2013 Sept;36(9):2726-33. PMC3747898.
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61. Grembowski D, Anderson ML, **Ralston JD**, Martin DP, Reid R. Does a large-scale organizational transformation toward patient-centered access change the utilization and costs of care for patients with diabetes? *Med Care Res Rev*. 2012 Oct;69(5):519-39.
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Peer-Reviewed Full-Length Research Papers in Conference Proceedings (\*primary mentor publications)

1. \*Berry ABL, Lim CY, Liang CA, Hartzler AL, Hirsch T, Ferguson DM, Bermet ZA, **Ralston JD**. Supporting Collaborative Reflection on Personal Values and Health. *Proc ACM Hum-Comput Interact*. 2021;5(CSCW2):Article 299. doi: 10.1145/3476040.
2. \*Berry ABL, Lim CY, Hirsch T, Hartzler AL, Kiel LM, Bermet ZA, **Ralston JD**. Supporting Communication About Values Between People with Multiple Chronic Conditions and their Providers. Conference on Human Factors in Computing Systems (CHI) Proc. 2019.
3. Lim CY, Berry ABL, Hirsch T, Ludman E, Hartzler AL, Kiel LM, Bermet ZA, **Ralston JD**. Facilitating Self-reflection about Values and Self-care among Individuals with Chronic Conditions. Conference on Human Factors in Computing Systems (CHI) Proc. 2019.
4. O'Leary K, Tanghe D, Pratt W, **Ralston JD**. Designing Collaborative Health Reminders and Notifications. *AMIA Annu Symp Proc*. 2018.
5. Berry ABL, Lim C, Hartzler A, Hirsch T, Ludman E, Wagner EH, **Ralston JD**. Eliciting Values of Patients with Multiple Chronic Conditions: Evaluation of a Patient-centered Framework. *AMIA Annu Symp Proc*. 2017.
6. Berry ABL, Lim C, Hirsch T, Hartzler AL, Wagner EH, Ludman E, **Ralston JD**. Getting Traction When Overwhelmed: Implications for Supporting Patient-Provider Communication. Proceedings of CSCW (Conference on Computer Supported Cooperative Work and Social Computing) 2017.
7. \*Berry ABL, Lim C, Hartzler AL, Hirsch T, Wagner EH, Ludman E, **Ralston JD**. How Values Shape Collaboration Between Patients with Multiple Chronic Conditions and Spousal Caregivers. Proceedings of CHI (Human Computer Interaction) 2017.
8. Berry ABL, Lim C, Hartzler A, Hirsch T, Ludman E, Wagner EH, **Ralston JD**. Creating Conditions for Patients' Values to Emerge in Clinical Conversations: Perspectives of Health Care Team Members. *Proceedings of DIS (Des Interact Syst Conf)*. 2017 Jun;2017:1165-1174. PMC5589444.
8. O'Leary KO, Liu L, McClure JB, **Ralston JD**, & Pratt W. Persuasive reminders for health self-management. *AMIA Annu Symp Proc*. 2016 Nov;2016:994-1003. PMC5333289.
9. Eschler J, Meas PL, Lozano P, McClure JB, **Ralston JD**, and Pratt W. Integrating the patient portal into the health management work ecosystem: user acceptance of a novel prototype. *AMIA Annu Symp Proc*. 2017 Feb 10;2016:541-550. PMC5333335.
10. Hartzler AL, Venkatakrisnan A, Mohan S, Silva M, Lozano P, **Ralston JD**, Ludman E, Rosenberg D, Newton KM, Nelson L, Pirolli P. Acceptability of a team-based mobile health (mHealth) application for lifestyle self-management in individuals with chronic illnesses. *Conf Proc IEEE Eng Med Biol Soc*. 2016;2016:3277-81.
11. Lim C, Berry ABL, Hartzler A, Hirsch T, Ludman E, Wagner EH, **Ralston JD**. "It just seems outside my health": How Patients with Chronic Conditions Perceive Communication Boundaries with Providers. *DIS(Design Interact Syst Conf)*. 2016 Jun;2016:1172-1184. PMC5553690.
12. O'Leary K, Vizer L, Eschler J, **Ralston J**, Pratt W. Understanding patients' health and technology attitudes for tailoring self-management interventions. *AMIA Annu Symp Proc*. 2015 Nov 5;2015:991-1000. PMC4765611.
13. \*Eschler J, Liu LS, Vizer L, McClure J, Lozano P, Pratt W, **Ralston J**. Designing asynchronous communication tools for optimization of patient-clinician coordination. *AMIA Annu Symp Proc*. 2015 Nov 5;2015:543-52. PMC4765629.

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14. O'Leary K, Eschler J, Vizer LM, **Ralston JD**, Pratt W. Understanding design tradeoffs for health technologies: a mixed-methods approach. *SIGCHI Conf Hum Factor Comput Syst*. 2015 Apr 18; 2015: 4151–4160. PMC5554065.
15. Eschler J, O'Leary K, Kendall L, **Ralston JD**, Pratt W. Systematic inquiry for design of health care information systems: an example of elicitation of the patient stakeholder perspective. *In Proc Annu Hawaii Int Conf Syst Sci*. 2015 Jan 5; 2015: 2804–2813. PMC5647156.
16. Kendall L, Eschler J, Lozano P, McClure JB, Vizer LM, **Ralston JD**, Pratt W. Engineering for reliability in at-home chronic disease management. *AMIA Annu Symp Proc*. 2014 Nov 14;2014:777-86. PMC4419963.
17. \*Eschler J, Kendall L, O'Leary K, Vizer LM, Lozano P, McClure JB, Pratt W, **Ralston JD**. Shared calendars for home health management. *CSCW*. 2015 Mar; 2015:1277–1288. PMC5533282.
18. Overby C, Rasmussen LV, Hartzler A, Connolly JJ, Peterson JF, Hedberg RE, Freimuth RR, Shirts BH, Denny JC, Larson EB, Chute CG, Jarvik GP, **Ralston JD**, Shuldiner AR, Starren J, Kullo IJ, Tarczy-Hornoch P, Williams, MS. A template for authoring and adapting genomic medicine content in the eMERGE Infobutton project. *AMIA Annu Symp Proc*. 2014 Nov 14;2014:944-53. PMC4419923.

### Other Peer-Reviewed Scholarly Publications

1. **Ralston JD**, Larson EB. Crossing to safety: transforming healthcare organizations for patient safety. *J Postgrad Med*. 2005 Jan-Feb;51(1):61-7.
2. Hartzler A, McCarty CA, Rasmussen LV, Williams MS, Brilliant M, Bowton EA, Clayton EW, Faucett WA, Ferryman K, Field JR, Fullerton SM, Horowitz CR, Koenig BA, McCormick JB, **Ralston JD**, Sanderson SC, Smith ME, Trinidad SB. Stakeholder engagement: a key component of integrating genomic information into electronic health records. *Genet Med*. 2013 Oct;15(10):792-801. PMC3909653.

### Other Non-Peer-Reviewed Scholarly Publications

1. **Ralston JD**, Wagner EH. "Comprehensive Chronic Disease Management" in Goldman's Cecil Medicine (Ed. Lee Goldman and Andrew Shafer), Chapter 11, 26<sup>th</sup> Edition. Philadelphia PA: Elsevier/Saunders, 2019.
2. Nazi KM, Hogan TP, Woods S, Simon SR, **Ralston JD**. "Consumer Health Informatics: Engaging and Empowering Patients and Families" in *Clinical Informatics Study Guide: Text and Review* (ed. John T. Finnell, Brian Dixon), Chapter 19, First Edition. Switzerland: Springer, 2015.
3. Greene S, Larson E, Boudreau D, Johnson K, **Ralston JD**, Reid R, Fishman P. The Coordinated Clinical Studies Network: a multidisciplinary alliance to facilitate research and improve care. *Perm J*. 2005 Fall;9(4):33-35.

## H. Patents and Other Intellectual Property

HealthReach Mobile, BSD Open Source Software License for configuration of a University of Washington Mobile Electronic Shared Medical Record for Patients with Diabetes 2009.

## I. Funding History

### Current Research Funding

Agency	Title	Dates	PI	Role
PCORI	Comparing Two Approaches to Preventing Severe Hypoglycemia	11/2020-3/2024	<b>Ralston</b>	PI
Garfield Fund	Impact of COVID-19 on Patients with High Social and Medical Needs.	9/1/2020-2/28/2022	Grant	Co-Investigator
NLM	Seeing and Sharing What Matters: Personal Health Libraries for Individuals with Multiple Chronic Conditions (R01)	9/7/17-8/31/21	<b>Ralston</b>	PI
NIH	Molecular Clonality of	04/2020-	Sokurenko	Co-Investigator

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	Uropathogenic E. Coli.	03/2025		
NIMH	A Targeted Approach to a Safer Use of Antipsychotics in Youth	04/25/16-06/24/21	Penfold	Co-Investigator
AHRQ	Care System Analytics to Support Primary Care Patients with Complex Medical and Social Needs	10/1/19-9/30/22	Grant	Co-Investigator
NIA	Star Caregivers	09/21/18-08/31/22	Penfold	Co-Investigator
NCI	Multilevel Interventions to Increase Adherence to Lung Cancer Screening	07/01/21-06/30/26	Wernli	Co-Investigator
NHGRI	Health Care System-Led Familial Risk Notification: Design and Ethical Assessment	09/20/18-06/30/22	Henrikson	Co-Investigator
Kaiser Permanente	Kaiser Permanente Research Bank	06/2017-12/2022	McGlynn	Co-Investigator

**Selected Past Research Funding**

<b>Agency</b>	<b>Title</b>	<b>Dates</b>	<b>PI</b>	<b>Role</b>
AHRQ	Understanding & Honoring Priorities in Patients with Multiple Chronic Conditions (R01)	09/01/14-08/31/18	<b>Ralston</b>	PI
AHRQ	Patient Reminders and Notifications (R01)	06/01/13-05/31/17	<b>Ralston</b>	PI
RWJF	Open Notes in Dissemination and Evaluation	10/15/15-10/14/18	Delbanco	Co-Investigator
CMS	Comprehensive Primary Care Initiative	08/01/12-05/31/17	Brown	Co-Investigator
Garfield Fund	Meaningful Outcomes and Missed Opportunities in Patients with Complex Needs	08/01/18-03/31/20	Grant	Co-Investigator
NHGRI	Genetic Discovery and Application in a Clinical Setting: Continuing a Partnership (U01)	08/15/11-07/31/15	Larson, Jarvik	Co-Investigator
NHGRI	The Electronic Medical Records and Genomics (eMERGE) Network, Phase III (U01)	09/01/15-4/31/20	Larson, Jarvik	Co-Investigator
RWJF	Open Notes in Primary Care	06/01/13-07/30/15	Delbanco	Co-investigator
GHRI Development Fund	Formative Evaluation of GHC's New Model of Care	02/01/13-12/31/14	Wagner	Co-Investigator
RWJF	The Primary Care Team: Learning from Effective Practices	02/01/12-07/31/14	Wagner	Clinical Expert
NIMH	Patient Portal to Support Treatment Adherence	03/06/08-02/28/13	Catz	Co-Investigator

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	(R01)			
NHLBI	Long-Term Outcomes and Costs of Web-Based Hypertension Care (e-BPLT; R01)	12/01/09-11/30/13	Green	Co-Investigator
GHRI Development Fund	System-level Tools for Helping Doctors and Patients Know Cancer Treatment Costs in Real Time	05/01/12-12/31/12	Henrickson	Co-Investigator
AHRQ	Medications and Outcomes (R21)	09/30/10-09/29/12	Grembowski	Co-Investigator
RWJF	Open Notes in Primary Care Implementation Evaluation	06/01/09-11/30/11	Delbanco	Co-Investigator
AHRQ	Shared Medical Records and Chronic Illness Care (R01)	05/01/07-04/30/12	<b>Ralston</b>	PI
NIH	Optimal Assessment of HAART Adherence in Routine Clinical Care (R01)	01/01/08-08/31/10	Crane	Co-Investigator
NIH	Pilot Trial of Depression Care by Secure Messaging (R21)	08/01/08-07/31/11	Simon	Co-Investigator
RWJF	Project Health Design, Phase II: Connecting Patients and Providers to Improve Diabetes Care: Assessing Provider-Side Implementation Feasibility of a Mobile Personal Health Application	01/01/09-11/30/09	<b>Ralston</b>	PI
AHRQ	Diabetes Mellitus, Comorbid Conditions and Mortality (R21)	09/01/08-09/29/09	Grembowski	Co-Investigator
RWJF	Project Health Design	01/01/07-02/28/09	<b>Ralston</b>	PI
RWJF	Home-based Management of Chronic Disease: the NICHE Consortium	09/01/05-02/28/09	<b>Ralston</b>	PI
AHRQ	Evaluation of Group Health's Access Initiative (R01)	9/30/06-9/29/09	Grembowski	Co-Investigator
CHF	Using Interoperable Mobile Phone Applications to Manage Daily Events in Diabetes Care	02/15/08-05/31/08	<b>Ralston</b>	PI
NHLBI	Electronic Communications and Home Blood Pressure Monitoring (R01)	08/01/04-2/28/09	Green	Co-Investigator
AHRQ	Secure Messaging and Chronic Illness Care (R03)	09/01/04-12/30/05	<b>Ralston</b>	PI
RWJF	A Randomized Controlled	10/01/03-	Goldberg	Co-Investigator

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	Trial of Diabetes Disease Management Over the Internet	02/28/06		
Aventis-Pasteur	Outcomes and Cost Consequences of Using an Internet Co-Management Module to Improve Quality of Type 1 Diabetes Care	07/01/04-06/30-06	Goldberg	Co-Investigator
RWJF	Evaluation of Group Health's Access Initiative	11/01/04-10/30/06	Grembowski	Co-Investigator
NHLBI	Re-engineering the Clinical Research Enterprise: Feasibility of Integrating and Expanding the Clinical Research Networks	10/01/04-09/30/07	Larson	Co-Investigator responsible for information technology deliverables
Center for Health Management and Research	A Randomized Controlled Trial of Diabetes Disease Management Over the Internet	1/1/04 – 6/30/04	Goldberg	Co-Investigator

### J. Selected Conferences and Symposia

1. Presenter, Patient Health Information Needs, AHRQ National Webinar, May 2015.
2. Invited speaker, Is Mobile Taking Over: Group Health Cooperative's Early Experience. Academy Health Annual Meeting, June 2014.
3. Co-leader, Secure Messaging Curriculum for Residents. Workshop at Northwest Society for General Internal Medicine Annual Meeting, Portland Oregon, 2013.
4. Invited speaker, Open Notes: Toward Further Transparency in Healthcare. Academy Health Annual Meeting, June 2011.
5. Invited testimony, Meaningful Use Workgroup for Electronic Health Records, Office of the National Coordinator for Health Information Technology. April 2010 Washington DC.
6. Invited participant, Building Bridges: Consumer Needs and the Design of Health Information Technology, Agency for Healthcare Research and Quality, July 27-28, 2009.
7. Invited panelist, Policy Implications of Personal Health Records, Project HealthDesign Expo, September 2008, Washington DC.
8. NIBIB/NHLBI/NSF Workshop on point of care technologies. Patient Portals: Connecting Clinicians and Patients at Home: Crystal City, Maryland. April 12, 2006.
9. Invited speaker, MyGroupHealth Web Portal and Shared Medical Records with Patients. AHRQ Annual Patient Safety and Health Information Technology Conference, Washington DC. May 2006.
10. Invited public testimony: American Health Information Community: AHIC Chronic Care Working Group: Shared Electronic Medical Records Between Patients and Providers. August 16<sup>th</sup>, 2006.
11. Invited speaker. MyGroupHealth: Connecting Patients and Providers. Markle Foundation's Connecting for Health, Annual National Meeting on Personal Health Records. Washington DC. December 2006.
12. Invited speaker and panel lead, Patient Centered Information Technology: Promises and Pitfalls. American Medical Informatics Association Annual Meeting, Washington DC. October 2005.
13. Invited speaker, Crossing to Safety: Transforming Healthcare Organizations for Patient Safety. Washington State Society for Healthcare Engineering, Yakima, Washington. September 2005.
14. Invited speaker, Research and Patient-Centered Informatics Design at Group Health Cooperative. Office of the National Coordinator for Health Information Technology. Washington DC. July 2005.
15. Invited speaker, Patient Centered Information Technology at Group Health Cooperative. AHRQ Annual Patient Safety and Health Information Technology Conference, Washington DC. May 2005.

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16. Moderator, Table Topic on Patient Portals. AHRQ Annual Patient Safety and Health Information Technology Conference, Washington DC. May 2005.
17. Invited speaker, "Web services for patients at Group Health Cooperative." Connecting for Health, A Public Private Collaborative. Agency for Healthcare Research and Quality, Rockville Maryland, May 2004.
18. Topic Expert in Personal Health, National Health Information Infrastructure, Washington D.C. 2004.
19. Topic Expert in Health Information Technology and Chronic Care, Improving Chronic Illness Care, National Meeting. 2004.
20. Invited speaker, "Patient experience using a diabetes support program based on the electronic medical record." Society of General Internal Medicine, National Meeting, Vancouver BC, May 2003; HMO Research Network, Dearborn MI, May 2004.
21. Member, Expert Evaluation Group, CMS Chronic Disease Registry Evaluation. Baltimore, MD, 2003.

**K. Professionally-related Community Service**

Member, Safety Monitoring Committee Health Aging Resources to Thrive (HART) Study	2019 – Present
Co-Chair, Data and Informatics Strategy Committee, Kaiser Permanente Washington Health Research Institute	2016 – 2021
Member, Electronic Health Record Steering Committee, Group Health Cooperative	2012 – 2017
Member, Safety Monitoring Committee A Phase II Randomized, Partially-Blinded, Controlled Trial in Healthy Adults Aged 65 Years and Older to Assess the Safety, Reactogenicity, and Immunogenicity of an MF59-Adjuvanted, Monovalent Inactivated Influenza A/H7N9 Virus Vaccine Administered Intramuscularly at Different Intervals and Dosages	2014
Member, Safety Monitoring Committee A Phase II, Randomized, Open-Label Study to Evaluate the Safety and Immunogenicity of IMVAMUNE® Using Three Immunization Schedules and Two Modes of Deliver	2013
Member, Safety Monitoring Committee A Randomized, Double-Blinded, Controlled, Phase I Study in Healthy Adults to Assess the Safety, Reactogenicity, and Immunogenicity of Intramuscular Subvirion Inactivated Monovalent Influenza A/H5N1 Virus Vaccine Administered at Different Dose Levels Given With and Without AS03 Adjuvant.	2011
Member, Clinical Information Oversight Committee, Group Health Permanente	2003 – 2010
Member, Safety Monitoring Committee, NIH phase I randomized study of the safety, dose escalation, and immunogenicity of adjuvanted influenzaA/Anhui/H5 boosting in subjects previously Immunized with one or two doses of A/Vietnam/1203/04 or in unprimed Individuals and compared to placebo	2010
Member, Safety Monitoring Committee, NIH Phase I/II randomized study of the safety and immunogenicity of vaccination strategies using one or two clades and different schedules of H5N1 unadjuvanted, inactivated subvirion influenza vaccines in H5 naïve healthy adults.	2008 – 2010
Personal Health Record Collaborator Network	2005
Member, Connecting for Health, A Markle Foundation public-private collaborative to bring the American healthcare system into the information age.	2004
Chair, Clinical Information Oversight Committee, Center for Health Studies, Group Health Cooperative	2003 – 2006
Member, Health Informatics Strategic Planning Team,	2003 – 2006

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Group Health Cooperative Member, Patient Safety Committee, Group Health Cooperative	2004 – 2006
Member, Quality Assurance Committee, Virginia Mason Medical Center, Seattle WA	1997 – 1998
Member, Educational Policy Committee, Virginia Mason Medical Center, Seattle WA	1997 – 1998
Member, Hospitalist Development Committee, Virginia Mason Medical Center, Seattle WA	1997 – 1998
Member, Housestaff-Nursing Committee, Virginia Mason Medical Center, Seattle WA	1997 – 1998
Member, Pharmacy and Therapeutics Committee, Virginia Mason Medical Center, Seattle WA	1994 – 1995
Member, Medical Student Infection Control Committee, University of Washington School of Medicine, Seattle WA	1993 – 1994
Medical Advisor, Steven's Pass Ski Patrol	2004 – 2011

**L. Teaching History**

**Guest Lectures**

Biomedical and Health Informatics, University of Washington

1. Care Beyond the Clinic. Winter 2019 and 2021
2. Is Mobile Taking Over: Group Health Cooperative's Early Experience. Spring, 2014
3. Inviting patients to read their doctor's notes: a quasi-experimental study, Fall 2012
4. Personal Health Records: Promises, Policies and Pitfalls, Spring 2011
5. Designing and testing mobile technologies for diabetes care at UW, Fall 2008
6. Testing a new paradigm of chronic care through the Northwest Immersive Computing Health Environments Consortium (NICHE), Fall 2007

Health Services PhD Seminar, University of Washington

1. Mobile technologies for diabetes care, promises and pitfalls, Fall 2008.
2. eHealth and changing the paradigm of care, Fall 2006

Health Services Physician Fellow Seminar, University of Washington

1. Mobile technologies for diabetes care, Fall 2008
2. eHealth and changing the paradigm of care, Fall 2006
3. Web portals and care of chronic conditions, Fall 2004

School of Nursing, University of Washington

1. Diabetes self-management support between office visits, Spring 2007
2. Open Notes: a quasi-experimental study and look ahead. Spring 2014

**Other Teaching**

Introduction to Clinical Medicine I (ICM I), Small Group Leader, University of Washington School of Medicine, Seattle WA	7/01 – 7/03
Introduction to Clinical Medicine II ICM II Small Group Leader, University of Washington School of Medicine, Seattle WA	7/00 – 6/01
Group Facilitator, "Working with Patients--Survival Skills", ICM II, University of Washington School of Medicine, Seattle WA	2000 – 2001
Faculty Examiner, Physical Exam, ICM I, University of Washington School of Medicine, Seattle WA	2001 – 2002
Attending Hospitalist, Virginia Mason Medical Center, Seattle WA,	2000 – 2003
Chief Medical Resident, Virginia Mason Medical Center, Seattle WA	1997 – 1998
Medical Student Tutor, Anatomy and Embryology, University of Washington School of Medicine, Seattle WA	1991

**M. Advising and Formal Mentoring**

PhD Dissertations, Chair or Co-Chair

**James D. Ralston, M.D., M.P.H.**

Lynne Harris, University of Washington School of Public Health Department of Health Services	8/05 – 6/12
Katherine Blondon, MD, U of Washington School of Public Health, Department of Health Services	2011 – 2013
<b>Master Thesis, Chair</b>	
MPH Emily McFadden, University of Washington School of Public Health Department of Department of Health Services	09/18- 2019
MPH William Weppner MD, University of Washington School of Public Health Department of Health Services	11/07 – 7/09
<b>PhD Committees in Non-Chair Roles</b>	
Member, PhD Dissertation Committee, Andrew Berry University of Washington Department of Human Centered Design and Engineering	12/17 – 3/19
Member, PhD Dissertation Committee, Walter H Curioso, MD University of Washington Department of Biomedical and Health Informatics	12/08 – 6/12
Member, PhD Dissertation Committee, Kelly McCarrier University of Washington School of Public Health Department of Health Services	11/06 – 7/09
Member, PhD Dissertation Committee, James Tufano University of Washington Department of Biomedical and Health Informatics	11/06 – 7/09
<b>Mentored Scientists and Post-Doctoral Fellows</b>	
Linnaea Schuttner, MD MS K12 Learning Health Systems Scholar (AHRQ, PCORI)	2019 – 2021
Andrea Hoopes, MD MPH K12 Learning Health Systems Scholar (AHRQ, PCORI)	2021 – Present
Courtney Lyles, PhD, Post-Doctoral Fellow University of Washington Department of Health Services	07/10 – 06/11
Courtney Lyles, PhD, Assistant Professor AHRQ K99: University of California, San Francisco Department of Medicine	08/13 – 07/18
<b>Other Mentoring</b>	
Tung Le, Masters of Science, University of Washington Department of Biomedical and Health Informatics	2006 – 2008
Robert Wood Johnson Clinical Scholar, Tammy Linn University of Washington School of Medicine	7/03 – 7/04