

Beverly Beth Green MD, MPH, FAHA

Kaiser Permanente Washington Health Research (KPWHRI) Institute and Washington Permanente Medical Group (WPMG)

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Date Prepared: 1/17/2022

Current Positions Years

Senior Investigator Kaiser Permanente Washington Health Research Institute, KPHRI 2018 - current

(Senior investigator 4yrs, Associate Investigator 5 yrs, Affiliate Investigator 6 yrs)

Family Physician Washington Permanente Medical Group (WPMG), Kaiser Permanente 1984 - current

Washington (KPWA, previously Group Health Cooperative).

Professor, Kaiser Permanente Bernard J Tyson School of Medicine Faculty, Department 2022

of Health System Science (Methods Mentor, FTE 0.20)

Education and Training

Degrees Awarded Year Issued

BA, American Studies with Honors, University of Michigan, Ann Arbor, WA, USA 1973 MD, Medical College of Ohio, Toledo, OH, USA 1977 MPH, Epidemiology, University of Washington (UW), School of Public Health, Seattle, WA 1984

Postdoctoral Training

Residency, Family Medicine, Oregon Health Sciences University, Portland, OR, USA 1977 - 1980 Preventive Medicine Residency, University of Washington, School of Medicine 1982 - 1984 Robert Wood Johnson Fellow, University of Washington, Dept of Family Medicine, WA, USA 1982 - 1984

Certificates Year Issued

Fellow of the American Association of Hypertension (FASH) 2010 Fellow of the American Association of Cardiology (FAHA) 2018 FDA License, US Government 1977 - 2018, currently inactive

Board Certified. Family Medicine 1980 - 2018, currenty inactive

Citi - CR #28062174 Biomedical Human Subjects Protection certification expires 7/13/2023

Citi - CR #28062172 Behavioral Intervention expires 3/24/2024

Citi - CR#38952594 Responsible Conduct of Research expires 4/24/2024

Academic Activities: Appointments and Educational Roles

Current Academic Appointments

Professor, Kaiser Permanente Bernard J Tyson School of Medicine Faculty, Department 2022 - current

of Population Health Sciences (Methods Mentor, FTE 0.20)

Clinical Professor, University of Washington School of Medicine (UWSOM), 2022 - current

Department of Family Medicine (clinical faculty since 2006)

Seattle, WA, USA

Prior Academic Appointments Years

Academic Committee Service

Advisory committee member for the Northwestern University-Patient-centered and 2016 - 2018

Engagement Training Program (Nu-Patient) K12 Faculty Scholars Training Program



| Search Committees, Faculty Equity and Inclusion Committee Multiple | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--|
| Teaching in Programs and Courses Instructor, Introduction to Clinical Medicine, UWSOM Seattle, WA, USA. | 1987 - 1988 | |
| Clinical Teaching and Supervision Preceptor, Maine-Dartmouth Family Practice Residency, Augusta, ME, USA Preceptor, University of Oregon Family Medicine Residency, Portland, OR, USA Preceptor, Group Health Family Medicine Residency, Seattle, WA, USA Clinical Instructor, University of Washington School of Medicine, Seattle, WA | 1980 - 1981 1981 - 1982 1982 - 1984 1994 - 1997 | |
| Advising and Mentoring Postdoctoral Trainees Katie O'Farell MD, MPH, UW Family Medicine Fellow | Years 2009 - 2012 | |
| SM. Van Brommel, Maastricht University, Netherlands Master's Thesis, systematic review home BP monitoring, patient and health professiona knowledge, beliefs, practices | 2009 - 2010 | |
| Sharon Laing PhD, UW, Health Promotion Research Center, Mentor Current Position: Adjunct Associate Professor, University of Washington, Tacoma | 2012 - 2014 | |
| Doctoral Trainees Christina Chun UW School of Human Centered Design and Engineering | 2015 - 2016 | |
| Faculty Karen Wernli PhD, KPWHRI, Primary Mentor Mentee's current position, Associate Investigator, KPHRI | 2019 - current | |
| Clarissa Hsu PhD, KPWHRI, Primary Mentor Mentees current position, Associate Investigator, KPHRI | 2021 - current | |
| Physicians Susan Powell, MD, MPH, Mentor, WPMG Mentees current position: primary care physician Assisted physician in obtaining funding, design, evaluation, and publishing results of a cimprovement project. | quality | |
| Medical Students Kaiser Permanente Bernard J Tyson School of Medicine Henry Dong Isabelle Franklin Kelly Shriver Iris Deng | 2022 - current | |
| Teaching Peers I have presented at KPWA conferences and virtual continuing education activities almost every year on the following topics: hypertension, colorectal and other cancer screening, healthy lifestyles, motivation interviewing skills training sessions. | | |
| Other Course: Introduction to Clinical Medicine (ICM-ii), UWSOM | 1995 - 1997 | |
| CME: Vietnam, CME Medical Exchange, Hue Medical College, Hue, Vietnam Content area, hypertension and prevention of cardiovascular disease | 2007 | |
| UW, Department of Industrial Engineering, required student project. Title: "Improving the Accuracy of BP measurement in the Clinic" product: thesis, poster | 2010 - 2011 | |



Clinical Activities

Licensure and Board Certification

State Medical Licenses: Washington state (active)

Oregon, Maine (inactive)

Specialty Certification, Family Medicine

1982 - current
1980 - 1982
Years: 1980, 1987, 1994, 2001, 2008 - 2015

Clinical Practice

Family Medicine physician at KPWA, practiced at least 0.50 to 0.70 FTE from 1984 to 2014, 0.30 2015 - 2017

Clinical Committee Service

| Chair of the Committee on Prevention, KPWA, Oversight for population based preventive guidelines and strategies for implementing these | 2001 - 2005 |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Chair, Breast Care Steering and Breast Executive Committees, KPWA | 2003 - 2005 |
| Obesity subcommittee member, CDC/Kaiser Care Management Institute | 2003 - 2006 |

Clinical Leadership and Administration

Associate Director of the Department of Preventive Medicine, KPWA, Seattle

1998 - 2005
Physician lead for population based screening programs and quality improvement initiatives, KPWA
Preventive health quality improvement activities

Professional Development Activities

| Meta-analysis Course Tufts University, Boston, MA | August 4 - 8, 2003 |
|----------------------------------------------------------------------------------------|--------------------|
| Leadership Training, WPMG, Seattle WA | 2005 |
| Meta-analysis Course, University of Oxford, Oxford Continuing Education, Oxford, UK | May 5 - 9, 2008 |
| Training Institute for Dissemination and Implementation, selected for a | July 9 - 13, 2013 |
| one-week intensive workshop, San Jose, CA | |
| Leadership Training, Kaiser Permanente Online Learning (workshop and other activities) | 2022 |

Professional Honors and Awards

| Award | Institution | Year |
|----------------------------------------------------------------------------------------|------------------------------------------------------|------|
| Magna Cum Laude; Honors Degree in American Studies | University of Michigan, Ann Arbor | 1973 |
| Angell Scholar | University of Michigan. Ann Arbor | 1973 |
| Alpha Omega Alpha Medical Honor Society, | Medical College of Ohio | 1978 |
| American Women's Association Scholastic Achievement award | Medical College of Ohio | 1978 |
| Glenn Hartquist Award for Outstanding Clinical Practice | WPMG | 1999 |
| Recognition award for participation as an active teacher | American Family Physicians | 2000 |
| Breast Cancer Screening Program 2004 GHP Annual Team Excellence Award | KPWA (previously Group Health Cooperative) | 2004 |
| Finalist for the Lifetime Achievement Award | WPMG | 2004 |
| Author in the Room | Institute for Healthcare Improvement & JAMA | 2008 |
| Short List Nominee British Medical Journal Group Award for Research Paper of the Year. | Green BB et al. JAMA. Jun 25, 2008;299(24):2857-2867 | 2008 |



| Birnbaum award for the e-BP study pharmacist's contribution to research | KPWA | 2009 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------|
| Top 10% of Reviewers | Journal of the American Board of Family Medicine | 2009, 2014 - 2020 |
| Fellow of the American Society for Hypertension (FASH) for contributions to hypertension research. | American Society of Hypertension | 2010 |
| Outstanding reviewer | American Journal of Preventive Medicine | 2017 |
| Associate Investigator Group – Most grant funding in 2017 | Kaiser Permanente Washington Health Research Institute | 2018 |
| Fellow of the American Heart Association (FAHA) recognition of outstanding research and professional accomplishments in the field of cardiovascular medicine | American Heart Association | 2018 |
| National Steering Committee member (an elected position) | National Colorectal Cancer Round Table | 2020 |
| Appointed as a member of the US Validated Bloof Pressure Device Listing, Independent Review Committee | American Medical Association | 2021 |
| Vice-chair of the Section on Hypertension of the Tele- Cardiology Working Group | International Society for Telemedicine and eHealth | 2021 |
| Appointed to the C | American Heart Association | 2022 |
| Appointed to the Target:BP Advisory Group. Two year term | American Heart Association and American Medical Association | 2022 |
| Abbreviations: WPMG, Washington Permanente Medical Group the American Medical Association; | o; KPWA, Kaiser Permanente Washington; JA | MA, Journal of |

Scholarship and Research: Peer Reviewed Publications

- Soman MP, Green BB, Daling JR. Risk factors for early neonatal sepsis. Am J Epidemiol. 1985;121:712-9.
- 2. **Green BB**, Daling JR, Weiss NS, Liff JM, Koepsell T. Exercise as a risk factor for infertility with ovulatory infertility. Am J Public Health. 1986; 76:1432-1436. PMCID: PMC1646979.
- 3. **Green BB**, Weiss NS, Daling JR. Risk of ovulatory infertility in relation to body weight. Fertil Steril. 1988;50:721-6.
- 4. **Green BB**, McAfee T, Madsen L, Caplow M, Buist D. Effectiveness of telephone support in increasing physical activity levels in primary care patients. Am J Prev Med. 2002;22:177-83.
- 5. **Green BB**, Kaplan RC, Psaty BM. How minor changes in the definition of blood pressure control affect the reported success of hypertension treatment? Am J Manag Care. 2003;9:219-24. PMCID: 12643339.
- 6. Green BB, Taplin S. Breast cancer screening controversies. J Am Board Fam Pract. 2003;16:233-41.
- 7. Green BB. MyBP: Improving care of high blood pressure. Am J Hypertens. 2005;18:263A.
- 8. Scholes D, Grothaus L, McClure J, Reid R, Fishman P, Sisk C, Lindenbaum JE, **Green BB**, Grafton J, Thompson RS. A randomized trial of strategies to increase chlamydia screening in young women. Prev Med. 2006;43:343-50.
- 9. Glasgow RE, Nelson CC, Kearney MA, Reid R, Ritzwoller DP, Strecher VJ, Couper M, **Green BB**, Wildenhaus K. Reach, engagement, and retention in an internet-based weight loss program in a multi-site RCT. J Med Internet Res. 2007;9:e11. PMCID: PMC1874718.
- 10. **Green BB**, Ralston JD, Fishman PA, Catz SL, Cook A, Carlson J, Tyll L, Carrell D, Thompson RS. Electronic communications and home blood pressure monitoring (e-BP) study: design, delivery, and evaluation framework. Contemp Clin Trials. 2008; 29(3):376-95. PMCID: 2645352.
- 11. **Green BB**, Cheadle A, Pellegrini AS, Harris JR. Active for Life: a work-based physical activity program. Prev Chronic Dis. 2007;4:A63.



- 12. **Green BB**, Cook AJ, Ralston JD, Fishman PA, Catz SL, Carlson J, Carrell D, Tyll L, Larson EB, Thompson RS. Effectiveness of home blood pressure monitoring, Web communication, and pharmacist care on hypertension control: The e-BP randomized controlled trial. JAMA. 2008;299:2857-67. PMCID: PMC2715866. Cited by 696 articles. Short-listed by the British Medical Journal for article of the year.
- 13. **Green BB**, Cook AJ, Ralston JD, Carlson J. Patient use of and satisfaction with a Web-based pharmacist intervention (the e-BP trial) to improve hypertension control. J Clin Hypertens. 2009; 11(4s): A58.
- 14. **Green BB**, Wang CY, Horner K, Catz S, Meenan RT, Vernon SW, Carrell D, Chubak J, Ko C, Laing S, Bogart A. Systems of support to increase colorectal cancer screening and follow-up rates (SOS): Design, challenges, and baseline characteristics of trial participants. Contemp Clin Trials. 2010;31:589-603. PMCID: PMC2956868.
- 15. **Green BB**, Anderson ML, Ralston JD, Catz S, Fishman PA, Cook AJ. Patient ability and willingness to participate in a web-based intervention to improve hypertension control. J Med Internet Res. 2011;13:e1. PMCID: PMC3217242.
- 16. Fishman PA, Anderson ML, Cook AJ, Ralston JD, Catz SL, Carlson J, Larson EB, **Green BB**. Accuracy of blood pressure measurements reported in an electronic medical record during routine primary care visits. J Clin Hypertens (Greenwich). 2011;13:821-8. PMCID: PMC3211104.
- 17. **Green BB**, Estabrooks P. Assessing the scale-up of a weight loss program: narrowing the gap between research and practice. Am J Prev Med. 2011;41:548-9. PMCID: PMC3953454.
- 18. Carter BL, Bosworth HB, **Green BB**. The hypertension team: the role of the pharmacist, nurse and teamwork in hypertension therapy. J Clin Hypertens. 2012 Jan;14(1):51-65. PMCID: 3257828
- Green BB, Bogart A, Chubak J, Vernon SW, Morales LS, Meenan RT, Laing SS, Fuller S, Ko C, Wang CY. Nonparticipants in population-based trial to increase colorectal cancer screening rates. Am J Prev Med. 2012 Apr;42: 390-397. PMCID: 3549634
- 20. **Green BB**, Anderson ML, Cook AJ, Catz S, Fishman PA, McClure JB, Reid R. Using BMI data in the electronic health record to calculate cardiovascular risk. Am J Prev Med. 2012 Apr; 42(4):342-247. PMCID: 3308122
- 21. O'Farrell C, Baldwin LM, Reid R, **Green BB**, Bowen D. Physician-patient colorectal cancer screening discussions among physicians with high and low cancer screening rates. J Am Board Fam Med. 2012;25:771-81.
- 22. **Green BB**, Wang CY, Anderson ML, Chubak J, Meenan RT, Vernon SW, Fuller S. An automated intervention with stepped increases in support to increase uptake of colorectal cancer screening. A randomized controlled trial. Annals of Internal Medicine. 2013 Mar 5; 158(5 Pt 1):301-311. PMCID: 3953144
- 23. Magid D, **Green BB**. Take it to the Bank. Jul 3; 2013 310(1):40-1. doi: 10.1001/jama.2013.6550. PubMed PMID: 23821085.
- Green BB, Anderson ML, Ralston JD, Catz S, Fishman PA, Cook AJ. Blood Pressure One Year after Completion of Web-based Pharmacist Care. JAMA. Internal Medicine. 2013 Jul 8; 173(13):1250-2. PMID:23689927
- 25. Fishman PA, Cook AJ, Anderson MS, Ralston JD, Catz SL, Carlson J, **Green BB**. Improving BP Control through Electronic Communications: An Economic Evaluation. American Journal of Managed Care. 2013 Sep; 19(9):709-16. PMCID: 3938103
- 26. Robins LS, Jackson JE, **Green BB**, Korngiebel D, Force RW, Baldwin LM. Barriers and facilitators to evidence-based blood pressure control in community practice. J Am Board FAM Med. 2013 Sep-Oct; 26(5):539-57. PMCID: 3882900
- 27. **Green BB**. Caring for Patients with Multiple Chronic Conditions: Balancing Evidenced-based and Patient-centered Care. Journal of the American Board of Family Medicine. 2013 Sep-Oct;26(5):484-5PubMed PMID: 24004699
- 28. Chubak J, Bogart A, Fuller S, Laing SS, **Green BB**. Uptake and positive predictive value of fecal occult blood tests: A randomized controlled trial. Prev Med. 2013 Nov; 57(5):671-8. PMCID: 3856243
- 29. Murphy CC, Haddock NM, Anderson ML, Chubak J; Green BB. Longitudinal predictors of colorectal cancer



- screening among participants in a randomized controlled trial. Prev Med. 2014 Jun 15; 66c:123-130. PMCID: 4209306
- 30. Laing SS, Bogart A, Chubak J, Fuller S, **Green BB**. Psychological Distress after a Positive Fecal Occult Blood Test Result among Members of an Integrated Healthcare Delivery System. Cancer Epidemiol Biomarkers Prev. 2014 Jan; 23(1):154-9. PMCID: 3947142
- 31. Woolf SH, Tracy Orleans C, **Green BB**, Curry S, Thompson RS, Bauman A, Wallace RB. Transforming preventive medicine science, practice, education, and policy: looking back at the last 20 years of the American Journal of Preventive Medicine. Am J Prev Med. 2013 Dec; 45(6):678-86. PMID: 24237909
- 32. Coronado G, Sanchez J, Devoe J, **Green BB**. Advantages of Wordless Instructions on how to Complete a Fecal Immunochemical Test: Lessons from Patient Advisory Council Members of a Federally Qualified Health Center. J Cancer Educ. 2014 Mar; 29(1):86-90. PMCID: 3946071
- 33. James D. Ralston MD MPH, Andrea J. Cook PhD, Melissa L. Anderson MS, Sheryl L. Catz PhD, Paul A Fishman PhD, James Carlson PharmD, Ron Johnson MA, Beverly B. **Green** MD MPH. Home blood pressure monitoring, secure electronic messaging and medication intensification for improving hypertension control: a mediation analysis. Applied Clinical Informatics. 2014 Mar 12; 5(1):232-48. PMCID: 3974258
- 34. Gupta S, Sussman D, Doubeni C, Anderson D, Day L, Deshpande A, Elmunzer B, Laiyemo A, Mendez J, Somsouk M, Allison J, Bhuket T, Geng Z, **Green BB**, Itzkowitz S, and Martinez M. Challenges and Possible Solutions to Colorectal Cancer Screening for the Underserved. J Natl Cancer Inst. 2014 April;106(4): dju032 PMCID: 3982886
- 35. **Green BB**, Anderson ML, Cook AJ, Catz S, Fishman PA, McClure JB, Reid R. e-Care for Heart Wellness. A Feasibility Trial to Decrease Blood Pressure and Cardiovascular Risk. Am J Prev Med. 2014 Apr; 46(4):368-77. Doi: 10.1016/j.amepre.2013.11.009. PMCID: 3978093
- 36. **Green BB**, Coronado GD, Devoe JE, Allison J. Navigating the Murky Waters of Colorectal Cancer Screening and Health Care Reform. Am J Public Health. 2014 Jun; 104(6):982-6. PMCID: 4062021
- 37. Coronado GD, Vollmer WM, Petrik A, Aquirre J, Kapka T, DeVoe J, Puro J, Miers T, Turner A, Sanchez J, Retecki S, Nelson C, **Green BB**. Strategies and Opportunities to STOP Colon Cancer in Priority Populations: Pragmatic Pilot Study Design and Outcomes. BMC Cancer. 2014 Feb 26; 14:55. PMCID: 3936821
- 38. Wernli KJ, Hubbard RA, Johnson E, Chubak J, Kamineni A, **Green BB**, Rutter CM. Patterns of colorectal cancer screening uptake in newly-eligible men and women. Cancer Epidemiol Biomarkers Prev. 2014 Jul; 23(7):1230-7. PMCID: 4082473
- 39. Coronado GD, Burdick T, Kapka T, Retecki S, **Green BB**. Using an automated data-driven EHR-embedded program for mailing FIT kits: Lessons from the STOP CRC pilot study. Journal of General Practice. 2014 Feb 26; 14:55. PMCID: 3936821
- 40. Wang VY, De Dieu Tapsoba J, Anderson M, Vernon S, Chubak J, Fuller S, **Green BB**. Time to Screening in the Systems of Support to Increase Colorectal Cancer Screening Trial. Cancer Epidemiol Biomarkers Prev. 2014 Aug; 23(8):1683-8. PMCID: 4119537
- 41. Coronado GD, Vollmer WM, Petrik A, Taplin S, Burdick T, Meenan RT, **Green BB**. Strategies and Opportunities to STOP Colon Cancer in Priority Populations, Methods. Contemporary Trials. BMC Cancer. 2014 Feb 26; 14:55. PMCID: 3936821
- 42. Coronado GD, Schneider JL, Sanchez JJ, Petrik AF. **Green BB**. Reasons for non-response to a direct-mailed FIT program: lessons learned from a pragmatic colorectal cancer screening study in a federally sponsored health center. Transl Behav Med. 2015 Mar; 5(1):60-7. PMCID: 4332898
- 43. **Green BB**, Anderson ML, Wang CY, Vernon SW, Chubak J, Meenan RT, Fuller S. A Randomized Trial to Evaluate Nurse Navigation Follow-Up after a Positive Fecal Occult Blood Test or Sigmoidoscopy on Complete Diagnostic Testing in an Integrated Health Care System. J Am Board Fam Med. 2014 Nov-Dec; 27(6):789-95. PMCID: 4278960.
- 44. **Green BB**, Coronado GD. "BeneFITs" to increase colorectal cancer screening in priority populations. JAMA Intern Med. 2014 Aug; 174(8):1242-3. PMCID: 4217574
- 45. Meenan RT, Anderson ML, Chubak J, Vernon SW, Fuller S, Wang CT, **Green BB**. An economic evaluation of colorectal cancer screening in primary care practice. Am J Prev Med. 2015 Jun; 48(6):714-21. doi:



- PMC4217574. 10.1016/j.amepre.2014.12.016. PMCID: 4441758
- 46. **Green BB**. BP Here, There, and Everywhere. Mobile Health Applications (Apps) and HTN Care. J Am Soc Hypertens, Accepted 12-15-2014. J Am Soc Hypertens. 2015 Feb; 9(2):137-9. doi: 10.1016/j.jash.2014.12.010. Epub 2014 Dec 24. PMID: 25660365.
- 47. Hamine S, Gerth-Guyette E, Faulx F, **Green BB**, Ginsburg AS. "m-Adherence" and Chronic Diseases Management: A Systematic Review. J Med Internet Res. 2015 Feb 24;17(2):e52.
- 48. Margolis KL, Asche SE, Bergdall AR, Dehmer SP, Maciosek MV, Nyboer Resorcinol PJ, Pawloski PA, Sperl-Hillen JM, Trower NK, Tucker AD, **Green BB**. A Successful Multifaceted Trial to Improve Hypertension Control in Primary Care: Why Did It Work? J Gen Intern Med. 2015 Nov; 30(11):1665-72. PMCID: 4617923
- 49. Gordon Nancy P, **Green** Beverly B. Factors Associated with Use and Non-use of the Fecal Immunochemical Test (FIT) Kit for Colorectal Cancer Screening in Response to a 2012 Outreach Screening Program: A Survey Study. BMC Public Health 2015; 15: 546. PMCID: 4462185
- 50. Reid RJ, Anderson ML, Fishman PA, McClure JB, Johnson RL, Catz SL, **Green BB**. Relationship between cardiovascular risk and lipid testing in one health care system: a retrospective cohort study. BMC Health Serv Res. 2015 Jul 23; 15(1): 281. PubMed PMID: 26201968. PMCID: 4511977
- 51. James Sheppard, Katherine Tucker, Richard Stevens, Hayden Bosworth, Ilkka Kantola, Sally Kerry, Marshall Godwin, **Beverly Green**, David Magid, Karen Margolis, Brian McKinstry, Stefano Omboni, Gianfranco Parati, Nashat Qamar, Willem Verberk, Richard Hobbs, Richard McManus. Individual patient data meta-analysis of self-monitoring of blood pressure (BP-SMART) Journal of the American Society of Hypertension 04/2015; 9(4): e47. DOI: 10.1016/j.jash.2015.03.108
- 52. Volmer WM, Coronado GD, **Green BB**. Analytic Challenges Arising from the STOP CRC Trial: Pragmatic Solutions for Pragmatic Problems" eGEMs (Generating Evidence & Methods to improve patient outcomes) accepted 11-16-15, 2015 Dec 9; 3(1):1200. PMCID: 470809
- 53. Gloria D Coronado, Sally Retecki, Jennifer Schneider, Stephen H Taplin, Tim Burdick, Beverly B **Green**. Recruiting community health centers into pragmatic research: Findings from STOP CRC. 2016 Apr:13(2):214-22. PMCID: 4785071.
- 54. **Green BB**, Anderson ML, Chubak J, Fuller S, Meenan RT, Vernon SW. Impact of continued mailed fecal tests in the patient-centered medical home: Year 3 of the Systems of Support to Increase Colon Cancer Screening and Follow-Up randomized trial. Cancer. 2016 Jan 15; 122(2):312-21. PMCID: 4868396
- 55. Jessica Chubak, Michael P Garcia, Andrea Burnett-Hartman, Yingye Zheng, Douglas A Corley, Ethan A. Halm, Amit G. Singal, Carrie N. Klabunde, Chyke A. Doubeni, Aruna Kamineni, Theodore R. Levin, Joanne E Schottinger, Beverly B. **Green,** Virginia P Quinn, and Carolyn Rutter. Time to colonoscopy after positive fecal blood test in four US healthcare systems. Cancer Epidemiol Biomarkers Prev. 2016 Feb; 25(2):344-50. doi: 10.1158/1055-9965.EPI-15-0470. PMCID: 4767632.
- 56. **Green BB**, Anderson ML, Chubak J, Baldwin LM, Tuzzio L, Catz S, Cole A, Vernon SW. Colorectal Cancer Screening Rates Increased after Exposure to the Patient-Centered Medical Home (PCMH). J Am Board Fam Med. 2016 Mar-Apr; 29(2):191-200. doi: 10.3122/jabfm.2016.02.150290. PMCID: 4868497
- 57. Fung KW, Richesson R, Smerek M, Pereira KC, **Green BB**, Patkar A, Clowse M, Bauck A, Bodenreider O. Preparing for the ICD-10-CM Transition: Automated Methods for Translating ICD Codes in Clinical Phenotype Definitions. EGEMS (Wash DC). 2016 Apr 12;4(1):1211. PMCID: 4862764.
- 58. McCarthy AM, Kim JJ, Beaber EF, Zheng Y, Burnett-Hartman A, Chubak J, Ghai NR, McLerran D, Breen N, Conant EF, Geller BM, **Green BB**, Klabunde CN, Inrig S, Skinner CS, Quinn VP, Haas JS, Schnall M, Rutter CM, Barlow WE, Corley DA, Armstrong K, Doubeni CA; PROSPR consortium. Follow-Up of Abnormal Breast and Colorectal Cancer Screening by Race/Ethnicity. Am J Prev Med. 2016 Oct; 51(4):507-12. PMCID: 5030116.
- 59. Chung CF, Munson SA, Thompson MJ, Baldwin LM, Kaplan J, Cline R, **Green BB**. Implementation of a new kiosk technology for blood pressure management in a community-based clinic: facilitators and barriers. J Am Board Fam Med. 2016 Sep-Oct; 29(5):620-629. PMCID: 5065060.
- 60. Petrik AF, **Green BB**, Vollmer WM, Le T, Bachman B, Keast E, Rivelli J, Coronado GD. The validation of electronic health records in accurately identifying patients eligible for colorectal cancer screening in safety



- net clinics. Fam Pract. 2016 Dec; 33(6):639-643. PMCID: 5161488.
- 61. Pawloski PA, Asche SE, Trower NK, Bergdall AR, Dehmer SP, Maciosek MV, Nyboer RA, O'Connor PJ, Sperl-Hillen JM, **Green BB**, Margolis KL. A sub-study evaluating treatment intensification on medication adherence among hypertensive patients receiving home blood pressure telemonitoring and pharmacist management. J Clin Pharm Ther. 2016 Oct; 41(5):493-8. PMCID: 5644343.
- 62. Asche SE, O'Connor PJ, Dehmer SP, **Green BB**, Bergdall AR, Maciosek MV, Nyboer RA, Pawloski PA, Sperl-Hillen JM, Trower NK, Margolis KL. Patient characteristics associated with greater blood pressure control in a randomized trial of home blood pressure telemonitoring and pharmacist management. J Am Soc Hypertens. 2016 Nov;10(11):873-880. doi: 10.1016/j.jash.2016.09.004. PMCID: PMC5107124.
- 63. Ritvo P, Myers RE, Serenity M, Gupta S, Inadomi JM, **Green BB**, Jerant A, Tinmouth J, Paszat L, Pirbaglou M, Rabeneck L. Taxonomy for colorectal cancer screening promotion: Lessons from recent randomized controlled trials. Prev Med. 2017 Aug; 101:229-234. PMID: 28024865.
- 64. Coronado GD, Schneider JL, Petrik AF, Rivelli J, Taplin SH, **Green BB**. Implementation successes and challenges in participating in a pragmatic study to improve colon cancer screening: Perspectives of health center leaders. Transl Behav Med. 2017 Sep; 7(3):557-566. PMC: 5645273.
- 65. Richesson RL, **Green BB**, Laws R, Puro J, Kahn MG, Bauck M, Smerek M, Van Eaton EG, Zozus M, Hammond WE, Stephens KA, Simon G. Pragmatic (Trial) Informatics: A Perspective from the NIH Health Care Systems Research Collaboratory. Journal of the American Informatics Association, accepted 2-10-17. J Am Med Inform Assoc. 2017 Sep 1; 24(5):996-1001. PMID: 28340241.
- 66. Coronado, GD, Retecki S, Petrik F, Coury J, Aquirre J, Taplin SH, Burdick T, **Green BB**. Mapping Multi-Site Clinic Workflows to Design Systems-Enabled Interventions. eGEMs (Generating Evidence & Methods to improve patient outcomes): Vol. 5: Iss. 1, Article 13. DOI: https://doi.org/10.13063/2327-9214.1273
- 67. **Green BB**, Fuller S, Mahoney C, Anderson ML, Mendy P, Powell S. A Quality Improvement Initiative to Increase CRC Screening in a Primary Care Medical Center: Collaboration between a Clinic and Research Team. J Fam Med. 2017; 4(3). Pii: 1115. PMCID: 5792079.
- 68. **Green BB**, BlueSpruce J, Tuzzio L, Vernon SW, Shay A, Catz SL. Reasons for Never and Intermittent Completion of Colorectal Cancer Screening after Receiving Multiple Rounds of Mailed Fecal Tests. Accepted 5-22-17. BMC Public Health. 2017 May 30:17(1):531. doi: 10.1186/s12889-017-4458-6. PMCID: 5450259.
- 69. Coury J, Schneider JL, Rivelli JS, Petrik AF, Seibel E, D'Agostini B, Taplin SH, **Green BB**, Coronado GD. Applying the Plan-Do-Study-Act (PDSA) approach to a large pragmatic study involving safety net clinics. BMC Health Serv Res. 2017 Jun 19;17(1):411. PubMed Central PMCID: 5477281.
- 70. Petrik AF, Le T, Keast E, Rivelli J, Bigler K, **Green B**, Vollmer WM, Coronado G. Predictors of Colorectal Cancer Screening Prior to Implementation of a Large Pragmatic Trial in Federally Qualified Health Centers. J Community Health. 2018 Feb; 43(1):128-136. PMCID: 5767531.
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BOOK CHAPTERS

 McAfee TA, Green BB. Chapter 7: Health Promotion. Current Care of Women: Diagnosis and Treatment. 2nd ed: McGraw Hill; 2004.

OTHER PUBLICATIONS

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- NIH Collaboratory Phenotypes, Data Standards, and Data Quality Core. Assessing data quality for healthcare systems data used in clinical research. Rethinking Clinical Trials: Duke University; 2015; Available from: https://sites.duke.edu/rethinkingclinicaltrials/assessing-data-quality/.



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Kaiser Permanente Washington (previously Group Health Cooperative, GHC) publications

- 1. Group Health Cooperative patient education pamphlets. Topics include: nutrition, hypertension, cholesterol, folate, calcium, exercise, asthma, obesity and osteoporosis. 1994—2005
- 2. Writer and editor for Group Health Cooperative <u>MY.GHC</u> web pages. Including the Health Risk Assessment Tool, 1999-2005.
- 3. Breast Cancer Screening Guideline, GHC, Revised Clinical Practice Guidelines, 2001, 2004.
- 4. <u>Colorectal Cancer Screening Guideline</u>, GHC, Revised Clinical Practice Guidelines, 2001, 2004, 2010, 2013, 2019.
- 5. <u>Chlamydia Guideline</u>, GHC Web page, Clinical Practice Guidelines and other related GHC publications, 2000, 2002.
- 6. <u>Pneumococcal Vaccine Guideline for Adults and Children</u> GHC Clinical Practice Guidelines, and other related GHC publications, 2000.
- 7. <u>Elevated Blood Pressure Guideline</u> GHC Web page, Clinical Practice Guidelines, and other related GHC publications, 2000, 2004.
- 8. White Paper on Strategies to Address Obesity. Report to the GHC Quality Committee on current resources, gaps and recommendations to prevent and treat obesity, 2004
- 9. Recommendations for Weight Management and Morbid Obesity Surgery, GHC Web page, 1999, 2004.



- 10. <u>Nutrition Guideline for Ages 2 to Adult</u>, GHC Clinical Practice Guidelines, and other related GHC publications, 1995.
- 11. <u>Prostate Specific Antigen (PSA) Screening Test for Prostate Cancer</u>, GHC Web page, Clinical Practice Guidelines, GHC Forum Magazine, and other GHC publications, 1993.
- 12. <u>Recommendations for Routine Urinalysis Screening</u>, Report to the GHC Urinalysis Subcommittee of the Committee on Prevention. Related article in GHC Forum Magazine, 1991.

Other Publications

1. Network for Excellence in Health Innovation. <u>Addressing Persistent Disparities in Colorectal Cancer Screening Among Racially and Ethnically Diverse Populations</u>. NEHI Report. August 2023, Contributor

Grant Activities

Grant Funding

Current

Agency: NHLBI, RO1

9/1/2023 - 8/31/2028

Title: Evaluation of Telemedicine for diabetes and hypertension care in Latinos (E-Treat)

Using a multilevel framework, assess the impact of individual- and community-level social determinants of health on the effectiveness of telemedicine in mitigating disparities in diabetes and hypertension care between Latino populations and non-Hispanic

Agency: National Heart, Lung, and Blood Institute (NHLBI), RO1HL159372, Lyles 9/20/2021–8/31/2026
Title: Remote monitoring for Equity in Advancing Control of Hypertension (REACH)

To adapt a hypertension management program that has been shown to work in integrated delivery systems and implement it in a safety net healthcare system (San Francisco Health Network) with diverse minoritized patients randomized and test its effectiveness in a pragmatic randomized controlled trial.

Level of funding: \$348,881

Role: Co-investigator, Effort 10%

Agency: National Cancer Institute (NCI), R01CA262015, Wernli

7/15/2021 - 6/30/2026

Title: Multilevel Interventions to Increase Adherence to Lung Cancer Screening (LARCH)

A pragmatic randomized controlled trial to test different strategies for increasing adherence to lung cancer screening.

Level of funding: \$3,299,124 Role: Co-investigator, Effort 8%

Agency: Patient Centered Outcomes Research Institute (PCORI), CER-1511032979, Hsu 8/1/2021 - 8/31/2025 Title: Engaging Staff to Improve COVID-19 Vaccination Rates at Long-Term Care Facilities (ENSPIRE)

A comparative cluster randomized effectiveness trial comparing different communication strategies for decreasing COVID-19 vaccine hesitancy among long-term care facility health care workers.

Level of funding: \$3,528,429 Role: Co-investigator, Effort 10%

Agency: Center for Disease and Infection Control (CDC), U48 DP001911, Ko

9/30/2019 - 9/29/2024

Title: Alliance for Reducing Cancer, Northwest (ARCNW)

This Seattle-based site for the Cancer Prevention and Control Research Network, which aims to facilitate and conduct community-based cancer prevention and control research that will build upon existing knowledge of cancer prevention and control and lead to the adoption, implementation, and dissemination of successful programs in communities.

Level of funding: \$52,367

Role: Co-investigator, Effort 5%



Agency: National Cancer Institute (NCI), R01CA249375, Green, Winer 7/1/2019 - 12/31/2024

Title: Self-Testing options in the Era of Primary HPV screening for cervical cancer (STEP) trial

A pragmatic randomized controlled trial among women aged 30-65 overdue for cervical cancer screening comparing: 1. direct mailing of home HPV kits, 2. opt-in strategies for providing home HPV, to 3. usual care on completion of cervical cancer screening.

Level of funding: \$2,858,550

Role: Principle Investigator, Effort 15%

Under Review

Agency: Patient Centered Outcome Research Institute (PCORI)

Title: BP-ACTION: Acting Together to Improve Hypertension Diagnosis

11/1/2024 - 4/30/2030

In this pragmatic comparative effectiveness trial we will in a 2x2 factorial design study randomize individuals ages 18-90 with high blood pressure (BP) at their last clinic visit and no hypertension diagnosis or medications to either: 1. Basic – a systems level intervention for obtaining home BP measurements. 2. Basic plus a Patient educational and engagement intervention; 3. Basic plus BP-Team, collaborative team care for diagnosing hypertension and follow up of high BP; or 4 Combine Basic + Patient + Team

Level of funding: \$11,957,984

Role: Co-Principal Investigator, Effort 40%

Agency: National Cancer Institute (NCI)

4/1/2024 - 3/31/2030

Title: Self-Testing HPV Screening for Cervical Cancer in Priority Populations: The STEP-2 Trial

Racial/ethnic minority and uninsured populations experience persistent cervical cancer disparities due to underscreening. HPV self-sampling, a new screening option, could transform and increase access if implemented by federally qualified health centers (FQHCs) who serve these vulnerable populations. Our large pragmatic trial will test strategies for offering HPV kits during clinic encounters and by mail to speed implementation efforts in low resource healthcare settings.

Level of funding: \$1,161,843 KPWA, overall budget \$6,423,774.

Role: Site Principal Investigator, Effort 15%

Completed

Agency: National Heart, Lung, and Blood Institute (NHLBI), RO1HL136575, Devoe 4/1/2018 - 3/31/2023 Title: Evaluating Control of Hypertension - Effect of Social Determinants (ECHOES)

This study will use electronic health record (EHR) data from the ADVANCE clinical data research network of PCORnet to compare hypertension control outcomes and moderators among 2,000,000 patients receiving care from 376 Community Health Centers (CHCs) in 14 states with expanded Medicaid to 224 CHCs that did not expand Medicaid.

Level of funding: \$115,899 Role: Co-investigator, Effort 10%

Agency: National Heart, Lung, and Blood Institute (NHLBI), Rosenberg 6/1/2018 - 3/31/2023

Title: Healthy Aging Resources to Thrive (HART, R01HL132880, Rosenberg)

Randomized trial of wrist activity monitor plus behavioral intervention to reduce sitting time. Primary outcomes sedentary time, blood pressure.

Level of funding: \$3,290,139 Role: Co-investigator, Effort 5%

Agency: National Cancer Institute (NCI), U54CA163261, Corley

4/15/2018 - 3/31/2023

Title: Population-based Research to Optimize the Screening Process (PROSPR)

To conduct well-powered observational studies (8,900,000 patients) to close evidence gaps regarding in *whom* and *when* colorectal cancer screening and surveillance should be performed, *why* failures occur, and *how* to improve test effectiveness.

Level of funding: \$4,404,170 Role: Co-investigator, Effort 5%



Agency: Kaiser Permanente Washington Health Research Institute (Green)

8/1/22 - 12/31/2022

<u>Title: Blood Pressure Checks for Improving Hypertension Diagnosis V2.</u>

Quality improvement project for increasing patient engagement in home BP monitoring

Role: Principal Investigator, Innovation Effort 5%

Agency: Patient Centered Outcomes Research Institute, IHS1507-31146 (Margolis) 2016 - 2021

<u>Title: Pragmatic Trial Comparing Telehealth Care and Optimized Clinic-Based Care for Uncontrolled High Blood</u> Pressure (HyperLink 3)

Pragmatic cluster randomized trial included over 3000 patients with uncontrolled hypertension and compared best-practice clinic based hypertension care to pharmacist led home BP telemonitoring. The primary outcomes were change in BP over 12 months and patient reported outcomes.

Role: Co-Investigator

Agency: Amgen, Inc., Chubak

2019 - 2021

Title: Heart Failure Algorithm

Heart Failure Algorithm is an industry-funded study awarded to the Kaiser Foundation Health Plan of Washington to evaluate the accuracy of using electronic health record data to identify individuals with reduced ejection fraction heart failure.

Role: Co-Investigator

Agency: Patient Centered Outcomes Research Institute, CER-1511-32979

2016 - 2021

Title: Blood Pressure Checks for Diagnosing Hypertension (BP-CHECK)

A randomized controlled diagnostic that included 510 patients aged 18-85 with high BP and no diagnosis of hypertension and not on hypertension medications to 1 of 3 protocols for diagnosing hypertension: (1) Clinic BPs; (2) Home BPs; and (3) Kiosk BPs. All completed 24-hour ambulatory BP monitoring.

Role: Principal Investigator

Agency: NHLBI, R01 HL-125440 (Klasnja)

2014 - 2019

<u>Title: Heart Steps: Adaptive mHealth intervention for physical activity maintenance</u>

The goals of this project are to develop and pilot test a mobile adaptive just-in-time intervention for physical-activity maintenance after cardiac rehabilitation. The project is also developing a new trial design—microrandomized trials—and related statistical analyses for early-stage efficacy testing of mHealth interventions. Role: Site Principal Investigator

Agency: CDC, U48 DP-14-0012 (Baldwin, Coronado, Green)

2015 - 2019

Title: BeneFITs to Increase Colorectal Cancer Screening (BeneFITs)

A hybrid implementation-effectiveness two Medicaid health plan mailed fecal immunochemical test (FIT) programs, among 20,000 Medicaid enrollees.

Role: Co-Principal Investigator

Agency: NCI, R01CA121125, Disparities Supplement

2016 - 2019

Title: Systems of Support (SOS) to Increase Colon Cancer Screening, Disparities Supplement

Randomized trial of 838 adults (predominantly people of color or Medicaid insurance) overdue for colorectal cancer screening were randomized to receive either mailed fecal immunochemical test kits only, or either 2) \$10 incentive, or 3) 1 in 10 chance of \$50 lottery incentive for completing colorectal screening.

Total Directs: \$90,000 Role: Principal Investigator

Agency: NCI, 2R-R01CA121125, Continuation

2013 - 2019

Title: Systems of Support (SOS) to Increase Colon Cancer Screening, Continuation

Role: Principle Investigator (4.2 calendar months per year)

SOS interventions were continued up to 9 years, with adherence to screening (covered time) persisting long-term.

Role: Principal Investigator

Agency: Kaiser Permanente Washington Health Research Institute Development Fund Award 2017 - 2018 Title: BP-CHECK and Automated Office BP Measurements



The goal of this study is to determine the comparability of automated BP measurements and 24-hour ambulatory BP measurements, the impact of rest time, attendance, and their accuracy in diagnosing hypertension.

Role: Principal Investigator

Role: Principal Investigator

Agency: National Institutes of Health UH2 AT0077882 (Coronado, Green)

2012 - 2018

Title: Strategies and Opportunities to Stop Colon Cancer in Priority Populations

STOP CRC was a pragmatic cluster randomized trial that randomized 26 federally qualified health center clinics to either usual care or an electronic health record embedded tools to identify individuals overdue for CRC screening and facilitate stepwise implementation of a mailed fecal immunochemical program.

Role: Co-Principle Investigator

Agency: National Heart, Lunch, and Blood Institute, R01 HL090965 (Margolis)

2013 - 2016

<u>Title: Home Blood Pressure Telemonitoring and Case Management to Control Hypertension (Hyperlink 2)</u> Competitive continuation of a telemonitoring grant to improve hypertension control in a primary care using a collaborative care team model.

Role: Co-investigator

Agency: National Cancer Institute, R01CA121125

2007 - 2013

Title: Systems of Support (SOS) to Increase Colon Cancer Screening

This pragmatic randomized controlled trial enrolled 4675 patients aged 50-79 overdue for colorectal cancer screening to either usual care, mailed fecal tests, mailed fecal tests plus medical assistant brief assistance, or mailed, assistance, plus nurse navigation. The primary outcome was adherence to colorectal cancer screening over two years.

Level of Funding

Role: Principal Investigator

Agency: Agency Healthcare Research and Quality 18HS018461-02 (Saver)

2011 - 2014

Title: Controlling Disease Using Inexpensive IT Hypertension in Diabetes: Conduit-HID

Patients with diabetes will be randomized to receive an automated BP monitor, instructions for uploading this to their existing personal health record (linked to an EMR), and phone-based nurse management or usual care. Primary outcome was changed in BP at 12 months and percent with controlled hypertension.

Role: Consultant

Agency: National Cancer Institute, R01CA121125, Competitive Revision

2011 - 2013

Title: Systems of Support (SOS) to Increase Colon Cancer Screening, Competitive Revision

For this Competitive Revision, we proposed two new ancillary aims to answer the following questions: 1) Does a medical home model modify (i.e. enhance or reduce) the effectiveness of the SOS intervention? 2) Is a continued systems-level intervention required to maintain increases in CRCS for those choosing annual FOBT? Role: Principal Investigator

Agency: PharmaSmart VEN-AC721331-2001 (Green)

2012 - 2013

Title: PharmaSmart Tacoma

We placed a validated Web-enhanced BP Kiosk in a pharmacy. Patients using the pharmacy or who receive care in a nearby clinic with hypertension will be encouraged to get a smart card that can be used to track and average BPs in safety net clinic.

Agency: NHLBI, 1RC1HL100590

2009 - 2012

Title: Collaborative Behavioral e-Care to Decrease Cardiovascular Risk (e-Care of Heart Wellness)

Using EHR records we identified at moderate risk for cardiovascular disease and uncontrolled hypertension to participate in a randomized controlled study of Web-based patient portal collaborative care delivered by dietitians to decrease CVD risk.

Role: Principal Investigator

Agency: National Heart, Lunch, and Blood Institute, 2R-01HL075263

2009 - 2013

Title: Long-Term Outcomes and Costs of Web-Based Hypertension Care (e-BPLT)



The e-BP study showed that HTN control was improved with home BP monitors, patient web-portal communications, and pharmacist assistance. We studied the long-term effects of a Web-based HTN intervention on BP and health care costs.

Role: Principal Investigator

Agency: Group Health Research Institute Directors Fund

2011

Title: Communications and Improving Hypertension Control in Community Practice (e-CHIP)

Qualitative assessment of Hispanic individuals use of telehealth resources and home BP monitoring.

Role: Principal Investigator

Agency: National Cancer Institute, R01CA121125S

2010 - 2012

Title: Systems of Support (SOS) to Increase Colon Cancer, Administrative Supplement

For this Administrative, we proposed three new ancillary aims: 1) Comparative adherence to a one sample fecal immunochemical fecal test (FIT), two sample FIT, and 3 sample stool guaiac test and the positive predictive value of each for CRC and advanced adenomas; 2)Time to completion of fecal testing, analyzing the time taken to complete stool testing in years 1 and 2 of the main trial; 3) Distress related to a positive fecal test.

Role: Principal Investigator

Agency: National Heart Lung Blood Institute, 5 R01 HL075263, Green

2004 - 2009

Title: Electronic Communications & Home BP Monitoring (e-BP)

Randomized controlled trial testing test the use of home BP monitoring, patient portal communication, and pharmacist collaborative care to improve hypertension control.

Level of Funding: \$3,600,000 Role: Principal Investigator

Agency: Robert Wood Johnson Foundation, None, Glasgow

2003 - 2007

Title: Effectiveness of Web-based Tailored Weight Management Program (TheME)

To test effectiveness of tailored we- based weight management program with and without nutrition and goal setting support.

Role: Co-Investigator

Agency: CDC, Harris, None

2005 - 2007

Title: Surveillance of Screening for Colon and Prostate Cancer in Washington State

To establish baseline of colorectal and prostate cancer screening levels in Washington state.

Role: Site Principal Investigator

Agency: Group Health Research Institute mid-Year Requests

2006 - 2007

Title: Elevated Blood Pressure in the Electronic Medical Record (Embers)

This analysis will ascertain the completeness of BP data and diagnoses captured in the EHR

Role: Principal Investigator

Agency: National Cancer Institute, CA 78424-01A1, Lewis

2000 - 2005

Agency: National Cancer Institute

Title: Helping the Mother with Breast Cancer Support Her Children

A randomized trial to evaluate the impact of a multi-component in-home educational counseling program on the quality of the mother-child relationship and the child's behavioral-emotional adjustment to the acute phase of the mother's breast cancer treatment.

Role: Site Principal Investigator

Agency: National Cancer Institute, U01 CA63731, Buist

2000 - 2005

Title: Breast Cancer Surveillance in a Defined Population

The goal of this study is to continue multidisciplinary collaboration using carefully designed prospective observational and evaluative studies to contribute to improvements in breast cancer screening and the understanding of breast cancer biology. Dr. Green is the liaison physician between the surveillance team and the GHC Breast Cancer Screening Program.

Role: Co-investigator

Agency: Group Health Foundation, Reid

2003 - 2004



Title: Patterns in the Use of the Adult "Periodic Health Examination"

Retrospective analysis of utilization, costs, and co-factors related to screening examinations and tests of Group Health Patients.

Role: Co-investigator

Agency: Agency for Health Research and Quality, RO1HS10514, Thompson

1999 - 2003

Title: Translating Chlamydia Guidelines into Practice (TRIP)

The goal of the study is to evaluate the effectiveness of several multi-faceted strategies for Chlamydia screening quideline implementation.

Role: Co-investigator

Agency: Spacelabs, HS-00-097, Green

2000 - 2001

Title: Validation of a Blood Pressure Kiosk

The goal of this project was to test the accuracy and utility of the Vitastat BP monitor computer-based kiosk.

Role: Principal Investigator

Current Unfunded Projects

Title: Kaiser Permanente Washington Hypertension Steering Committee:

Remote Patient BP telemonitoring program with patient portal phone app and BPs integrated into the EHR integrated into primary care, and population based care programs (nursing/pharmacy).

| Grant Review Activities Years | |
|------------------------------------------------------------------------------------------|--------|
| Reviewer, NHLBI contract proposals for SPRINT, Washington DC | 2008 |
| NIH Challenge Grants, NHLBI Grand Opportunity Grants, Washington DC | 2009 |
| Reviewer for AHRQ Comparative Effectiveness Grants | 2010 |
| Reviewer, Study Section for NIH PAR-10-133. Understanding and Promoting Health Literacy | 2012 |
| Reviewer, PCORI, disparities comparative effectiveness proposals | 2012 |
| Reviewer, ad hoc, HSOD study section, NIH grant proposals | 2012 |
| Reviewer, PCORI, obesity treatment options in underserved patients proposals | 2014 |
| Reviewer, PCORI, disparities comparative effectiveness proposals | 2015 |
| Reviewer, NIH Small Business Translation and Innovation Studies, RFA | 2015 |
| Reviewer, CDC Heart Disease and Stroke Prevention Division | 2018 |
| "Using the Pharmacists' Care Process to Improve BP Management" exemplary programs nomina | tions. |
| Reviewer, PCORI, COVID-19 comparative effectiveness study proposals. | 2020 |
| Reviewer, PCORI, Hypertensive Disease of Pregnancy Comparative Effectiveness | 2021 |
| Reviewer, PCORI, Health System Strategies to Address Disparities in Hypertension Control | 2022 |
| Reviewer. PCORI, Phased Large Comparative Effectiveness Studies | 2024 |

Conference Review Activities

| Reviewer, Health Care Systems Research Network Annual Meeting | annually |
|--------------------------------------------------------------------------------|----------|
| Reviewer, American Heart Association Hypertension Annual Meeting | annually |
| Reviewer, Annual Conference on the Science of Dissemination and Implementation | annually |

Academic and KPWA Presentations

Oral Presentations

- 2008 "<u>Electronic Communications and Home Blood Pressure Monitoring: The e-BP Trial":</u> Oral Presentation American Society of Hypertension Meeting, May 20, 2008, San Francisco, CA
- 2010 "Innovative Models of Health Care Delivery", Idaho State University, Department of Family Medicine, May 13, 2010, Pocatello, ID



<u>"Innovative Roles of Pharmacists in Health Service Delivery"</u>, Agency for Health Research and Quality Innovations Exchange, Webinar May 11, 2010.

2011 "Improving Cardiovascular Disease Care Delivery" Innovators Stories, AHRQ Annual Meeting. Bethesda, Maryland; September 20, 2011.

HMO Research Network Annual Meeting, "<u>Hard to Reach People: People Not Up-to-Date for Colorectal Cancer Testing and Unwilling to Participate in a Study to Increase Screening Rates</u>" and "<u>Electronic Health Record-Based Cardiovascular Risk Assessment and the Use of BMI When Laboratory Data is Not Available</u>" Boston, MA February 8, 2011

<u>"Translating Research Advances for Health Care Providers and Patients: The Knowledge-to-Action Process: Translating Evidence into Clinical Practice."</u> NIH Staff Training in Extramural Programs (STEP) Symposium Bethesda, Maryland

2012 <u>Fit for Use. Uptake and Positive Predictive Values of Three Different Stool Tests, Cancer Prevention and Control Network.</u>, University of Washington Health Promotion Center, Seattle, Washington March 8, 2012. <u>e-Care for Heart Wellness</u>, invited presentation for HMO Research Network Meeting, Seattle, WA; May 2, 2012

<u>Assessing Readiness for Team Care in Community-Based Clinics: Barriers and Facilitators to Implementing an Evidence-Based Intervention to Improve BP Control.</u> Poster Session HMRON Annual Meeting May 2012, Seattle

<u>Preliminary Results from the SOS Study.</u> Cancer Researchers Group Meeting July 23, 2012 GHRI Seattle, WA

2013 Systems-based Strategies for Increasing Colorectal Cancer Screening and Follow-Up, Invited Lecture, Grand Rounds, Oregon Health and Science University Grand Rounds, February 20, 2013, Portland, OR Leveraging Technology to Deliver Team-Based Care for Hypertension and Cardiovascular Risk, OCHIN (Oregon Community Health Information Network) Lecturer Series, February 20, 2013, Portland, OR Northwestern Medical School, Systems of Support to Increase Colorectal Cancer Screen, Grand Rounds, Chicago, IL, March 22, 2013.

<u>Leveraging EHRs to Increase Colorectal Cancer Screening</u>, NIH Collaboratory National Webinar March 29, 2013

Oral and poster presentations HMORN Network Annual Meeting (SOS study) April 16, 2013. Seattle Implementation Research Institute Conference, poster presentation (STOP study) May 16, 2013

2014 <u>Longitudinal Predictors of Colorectal Screening in a Randomized Controlled Trial</u>, HMO Research Network Meeting, April 2, 2014, Phoenix, AZ

<u>Healthcare Policies and Disparities in Colorectal Screening</u>, World Endoscopy Meeting, April 16, 2014, Chicago, IL

<u>Web-based Pharmacist Team Care and Long-Term BP Outcomes</u>, Oral Presentation American Society of Hypertension Annual Meeting, May 19, 2014, New York, NY

- 2015 <u>Year 3 of the Systems of Support to Increase Colorectal Cancer Trial,</u> Oral Presentation, HMO Research Network Meeting, March 11, 2015, Long Beach, CA
 - <u>Year 3 of the Systems of Support to Increase Colorectal Cancer Trial</u>, Oral Presentation, International Cancer Screening Network Meeting, Rotterdam, Holland, June 2, 2015

<u>An Economic Evaluation of Colorectal Cancer Screening in Primary Care Practice</u>, Poster, International Cancer Screening Network Meeting, Rotterdam, Holland June 3, 2015

Ethical Issues in Research for the Underserved, Oral Presentation, NCI special emphasis meeting July 14, 2015 Bethesda, MD

2016 Addressing Colon Cancer Screening in Primary Care: An Update on the STOP CRC Trial. Collaboratory Grand Rounds: "Rethinking Clinical Research". November 4, 2016, National Webinar

<u>Blood Pressure Checks and Diagnosing Hypertension (BP-CHECK) a new PCORI funded trial</u>. Clinical Prevention Workgroup, November 1, 2016 Seattle, WA



How Health Systems Can Help Improve Colorectal Cancer Screening Compliance, The Collaborative Group of Americas on Inherited Colorectal Cancer (GCA), October 3, 2016, Seattle, WA

<u>Breakthroughs in Screening: What Research Tells Us,</u> Washington Colorectal Cancer Round Table, March 25, 2016, Seattle, WA

<u>BP-CHECK, Blood Pressure Checks and Improving Hypertension Diagnosis</u>, Group Health Research Institute Faculty Meeting, January 19, 2016, Seattle, WA

<u>BeneFITs to Increase Colorectal Cancer Screening in Priority Populations</u>, Alliance for Reducing Cancer meeting, Health Promotion Center University of Washington, January 14, 2016, Seattle, WA

2017 <u>A Centralized Mailed Program and Stepped Increases of Support Increases Time in Compliance with Colorectal Cancer Screening Guidelines over 5 Years: A Randomized Trial</u>. Selected as outstanding abstract and for oral presentation at the American Society of Preventive Oncology annual meeting, March 11, 2017, Seattle WA

<u>The Research to Practice Pipeline: Evidence-Based Cancer Screening Guidelines Putting them into Practice and Scaling Them Up.</u> Panel presentation lead and presenter, Health Care Systems Research Network annual meeting, San Diego, CA March 23, 2017

<u>Getting it published: Weathering Rejection and the Path to Success</u>. Webinar for the CTSA Rising Stars Program March 17, 2017

A Centralized Mailed Program and Stepped Increases of Support Increases Time in Compliance with Colorectal Cancer Screening Guidelines over 5 Years: A Randomized Trial. Keynote speech at World Endoscopy Organization, Chicago, IL, May 5, 2017

<u>Patient generated biometric data, BP monitoring and other self-monitoring activities.</u> Workshop at the Washington Academy of Family Physicians meeting, Skamania Lodge, May 6, 2017.

A Centralized Mailed Program and Stepped Increases of Support Increases Time in Compliance with Colorectal Cancer Screening Guidelines over 5 Years: A Randomized Trial. CDC Cancer Conference Atlanta, August 15, 2017

<u>Update and Thoughts from the Phenotypes, Data Standards, and Data Quality Core of the NIH HCS</u>

<u>Research Collaboratory</u> National Collaboratory Webinar, August 25, 2017 – Dr. Beverly Green, presenter

The Research to Practice Pipeline: Evidence-Based Cancer Screening Guidelines Putting them into Practice and Scaling Them Up. Oral Presentation, 10th Annual Dissemination and Implementation Conference, December 6th, 2017, Crystal City, Virginia.

- 2018 Workshop on Embedded Pragmatic Clinical Trials of Therapeutic A vs. B Interventions. Moderated Panel Discussion Examples in Action. Bethesda, Maryland, May 16, 2018
 <u>Direct Mail Programs Work... But Will Health Centers Implement Them?</u> Findings from STOP CRC. Collaboratory Webinar. February 23, 2018
- 2019 <u>Colorectal Cancer Screening Continuing Medical Education Webinar</u>. CME Webinar for Kaiser Network physicians. November 13, 2019

<u>Financial Incentives and Increasing Colorectal Cancer Screening in Disparity Populations</u>. Invited oral presentation. National Colorectal Cancer Screening Round Table, Baltimore, MD, November 21, 2019

<u>Mailed FIT Summit: Mailed Outreach Reminders: Which Reminders are Most Effective?</u> Invited Presentation Centers for Disease Control, Atlanta GA; June 29, 2019

<u>BeneFITs to Increase Colorectal Cancer Screening in Priority Populations</u>. Invited Presentation Centers for Disease Control, Atlanta GA; June 28, 2019

<u>The Systems of Support to Increase Colorectal Cancer Screening Trial (SOS).</u> 9-year Adherence and <u>Outcomes.</u> Oral presentation, International Cancer Screening Network Conference, Rotterdam, Netherlands, June 3, 2019



<u>Financial Incentives and Increasing Colorectal Cancer Screening in Disparity Populations</u>. Oral presentation. Oral presentation, International Cancer Screening Network Conference, Rotterdam, Netherlands, June 5, 2019

Accuracy of Clinic, Home, and Kiosk BP measurements compared to Ambulatory BP Monitoring for Diagnosing Hypertension. The BP-CHECK Randomized Controlled Diagnostic Trial. Oral presentation. Health Care Systems Research Network. Oral Presentation, Radcliff College, Oxford, UK; May 29, 2019

<u>The Systems of Support to Increase Colorectal Cancer Screening Trial (SOS).</u> 9-year Adherence and <u>Outcomes.</u> Oral presentation. World Endoscopy Meeting, San Diego, California, May 17, 2019

<u>Financial Incentives and Increasing Colorectal Cancer Screening in Disparity Populations.</u> Oral presentation. World Endoscopy Meeting, San Diego, California, May 17, 2019

<u>Partnering in Washington State to Decrease Medicaid Colorectal Cancer Screening Rate Disparities.</u> Oral presentation. Washington State Colorectal Cancer Round Table. Seattle, Washington, May 13, 2019

<u>Design and Analysis of Embedded Pragmatic Research.</u> Panel presentation, NIH Collaboratory, Bethesda, MD, May 2, 2019.

<u>Financial Incentives and Increasing Colorectal Cancer Screening in Disparity Populations.</u> Oral presentation. Health Care Systems Research Network. Portland, Oregon; April 10, 2019

Accuracy of Clinic, Home, and Kiosk BP measurements compared to Ambulatory BP Monitoring for Diagnosing Hypertension. The BP-CHECK Randomized Controlled Diagnostic Trial. Oral presentation. Health Care Systems Research Network. Portland, Oregon; April 9, 2019

2020 <u>Blood Pressure Checks for Diagnosing Hypertension. Comparative Accuracy of Clinic, Home, and Kiosk BP for making a New Diagnosis of Hypertension.</u> Oral presentation and award for best abstract. North American Primary Care Research Group Meeting Annual Meeting (Webinar). November 26, 2020

BeneFITs for Increasing Colorectal Cancer Screening. Two-year outcomes in a Washington State Medicaid/Medicare Health Plan. Oral presentation North American Primary Care Research Group Meeting Annual Meeting (Webinar). November 25, 2020

<u>Transforming research findings into action: Building a strategy to decrease disparities in colorectal cancer screening at the local, regional, and state level</u>. Conference paper presented at the: Annual Conference on the Science of Dissemination and Implementation in Health (D&I); December 2019; Arlington, VA.

<u>Using Research to Identify Racism</u>, Kaiser Permanent Washington Health Research Institute August 11. Webinar <u>Automated Office Blood Pressure and the Impact of Attendance and Rest Time</u>. Moderated Poster Award. American Heart Association Hypertension Meeting, Webinar presented 9-20-20

2021 <u>Transforming Research Findings into Action: Advocating for a Medicaid Colorectal Cancer Screening</u> Performance Metric. Western Colorectal Cancer Consortium Conference October 15, 2021. Webinar

Blood Pressure Checks for Diagnosing Hypertension, Comparative Adherence to and Acceptability of Clinic, Home, Kiosk, and 24-hour Ambulatory Blood Pressure Monitoring. Oral presentation. American Heart Association Annual Conference. September 29, 2021.

<u>Colorectal Cancer Screening: Where Have We Been and Where Should We Go Next?</u> Bree Collaborative Presentation and presentation of workgroup recommendations (state of Washington, governor appointed advisory board, meetings open to the public) May 14, 2021, Webinar

Advocating for a Medicaid Colorectal Cancer Screening Performance Metric -Lessons Learned and Progress to Date. World Endoscopy Organization Coalition to Reduce Inequities in CRC Screening Expert Working Group, WEO Meeting. May 6, 2021. Webinar

<u>Financial Incentives and Increasing Colorectal Cancer Screening in Disparity Populations</u>. Invited oral presentation. KPWHRI Scientific Meeting Webinar, May 11, 2021



Blood Pressure Checks for Diagnosing Hypertension. Comparative Accuracy of Clinic, Home, and Kiosk BP for making a New Diagnosis of Hypertension. Health Care Systems Research Network Annual Meeting, oral presentation, Webinar. April 2021.

Blood Pressure Checks for Diagnosing Hypertension. Comparative Accuracy of Clinic, Home, and Kiosk BP for making a New Diagnosis of Hypertension. Webinar presentation Grand Rounds Department of Family Medicine University of Washington School of Medicine, February 2, 2021.

2022 <u>Which Approach to Blood Pressure Measurement and Diagnosis is Most Accurate?</u> 32nd Annual Vascular Biology and Hypertension Symposium, Birgmingham, Alabama, April 28, 2022

Blood Pressure Control and Clinician Diagnosis of Hypertension in a Hypertension Diagnostic Study. Hypertension 2022, American Heart Association, Oral Presentation, San Diego, CA September 12, 2022

2023 <u>Transforming Research Into Action.</u> Western Colorectal Cancer Consortium Conference. Portland, OR, March 7, 2023

<u>Engaging Patients in Home Blood Pressure Monitoring. From Research to Implementation.</u> Kaiser Permanente Washington Hypertension Steering Committee Meeting. May 24, 2023. Webinar

Increasing Patient Portal Enrollment and Use in Safety Net Systems: Lessons from Providing Remote versus In-Person Support. AMIA Annual Meeting 2023, May 25. Chicago, IL

<u>Self-Monitored Blood Pressure and Innovations in Digital Health:</u> Invited presentation. American Heart Association Hypertension 2023 Scientific Sessions, Boston, MA; September 10,2023

<u>The Colorectal Cancer Policy Landscape.</u> Panel Moderator. 2023 American Cancer Soiciety National Colorectal Cancer Round Table, Houston, TX, November 17, 2023

2024 <u>Blood Pressure Checks and Diagnosing Hypertension.</u> Invited presentation. Kaiser Permanente Bernard J Tysoc School of Medicine, Health Systems Science Department Meeting, Webinar, March 13,

Posters

Multiple, not systematically tracked

Abstracts published in journals that have abstract sections

Several, not systematically tracked

Community Activities

Community-Based Presentations

The Obesity Epidemic. KCTS Connects Television Show, panel discussant, March 21, 2004 Seattle, WA

<u>Is it Baby Fat - or Cause for Parent Concern?</u> Community Health Forum sponsored by Group Health, the YMCA, and Bellevue School District, November 19, 2005, Bellevue, WA

Community Leadership and Administration

National Colorectal Cancer Roundtable, Steering Committee, Health Policy Committee 2020 - current Sponsored by the American Cancer Society and the Centers for Disease and Infection Control My main interest has been in policy change to decrease disparities in screening and cancer outcomes

US Blood Pressure Validated Device Listing, independent review committee

2021 - present

Independent Review Committee member

Technical expertise in validation of BP (BP) monitoring devices

American Heart Association Commission Primary Care Committee Council on Quality of Care and Outcomes Research (QCOR)

2022 - present



| Community Health Committee Services Prevention Subcommittee, American Association of Health Plans | 2001 - 2006 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Comprehensive Cancer Control Committee Member, Washington State Department of Health | 2005 - 2010 |
| Self-Measured BP Monitoring, AHRQ technical review advisory group, systematic review | 2010 - 2011 |
| Invited panelist for creation of a PCORI request for applications for increasing hypertension control in disparity populations. | 2013 |
| Invited member of the Washington State Health Care Authority, Prevention Measures Technical Workgroup to develop a common cores set of Medicaid performance measures | 2014 |
| Primary Care Innovation Laboratory Advisory Board, UW | 2016 - 2017 |
| Million Hearts initiative, sponsored by the CDC and National Association of Community Health Centers to develop a roadmap for self-measured BP monitoring. | 2017 |
| Participant in a National Institute of Aging Workshop: Opportunities for Trials on Effect of Statins in primary prevention of cardiovascular disease in older adults, led to a RFA | 2017 |
| NHLBI working group on BP Assessment of Adults in Clinical Practice and Clinic-based Research, resulted in a white paper and journal publication on standards for BP measurement | 2017 |
| CDC sponsored expert panel on mailed fecal testing programs resulted in a white paper and publication | 2019 |
| Bree Committee (a committee appointed by the Washington state governor) member on an initiative to decrease disparities in colorectal cancer screening in Washington State. | 2018 - 2020 |
| Physicians for Social Responsibility (member during residency, and more recently) | 2020 - current |
| National Hypertension Control Roundtable | 2023 - present |
| Other Community Services: Medical volunteer, New Delhi and Kasganj, India | 1981 |
| Medical volunteer, Ometeppe, Nicaragua | 1994 |
| Assisting with COVID-19 vaccination clinics in King and Kitsap County, WA | 2020 – 2021 |

Kaiser Permanente Washington Health Research Institute Service (recent activities only)

Search committee for senior or associate investigator with interest in dementia and to lead the ACT study 2022

Kaiser Permanente Washington Service (recent activities only)

Hypertension Steering Committee – population based care for hypertension, including population-based outreach via secure e-mail, telemonitoring.

2020 – present

HPV Self-sampling cervical cancer screening program – translating trial interventions into routine practice 2022 to present.



Professional Association Activities

Professional Memberships

Alpha Omega Alpha Honor Medical Society Washington State Association of Physicians American Heart Association

| Editorial Board Service | | Years |
|----------------------------------------------------------------|-------------|----------------|
| Associate Editor American Journal of Preventive Medicine | 2008 - 2013 | |
| Editor American Journal of Preventive Medicine | | 2014 - current |
| Editor Journal of the Board of Family Medicine | | 2007 - current |
| Associate Editor Connect (an international telehealth journal) | | 2021 - current |

Journal Review Activities In addition to the journals where I am an editor, I generally review one – two journal articles per month, journals include: JAMA (most recently 2023), JAMA internal medicine (most recently 2022), JAMA Open (most recently 2023), JAMA Cardiology, New England Journal of Medicine (most recently 2021), Annals of Internal Medicine, Hypertension (most recently 2023), Journal of General Internal Medicine (most recently 2022), Journal of the American Heart Association (most recently 2022), Journal of Human Hypertension (most recently 2021), American Journal of Hypertension (most recently 2023), Journal of Hypertension, Journal of the National Cancer Institute, Cancer (most recently 2023), Cancer Epidemiology, Biomarkers, and Prevention; Lancet Gastroenterology (most recently 2021), Journal of Medical Internet Research (most recently 2023), Journal of the American Informatics Association, Preventing Chronic Disease (most recently 2023), Preventive Medicine (most recently 2022), Annals of Family Medicine, Journal of Community Health and Primary Care (most recently 2021), BMC Cancer (most recently 2021), BMC Family Medicine, BMC Medical Informatics, PLOS One, Contemporary Clinical Trials (most recently 2023), Nature, Applied Clinical Informatics

Data Safety Monitoring Board Member

<u>Promoting Adherence to Improve Effectiveness of Cardiovascular Disease Therapies (PATIENT).</u> (R01HS019341, Vollmer PI), 2010-2014.

<u>Addressing Social Deterimants to Prevent Hypertension (RESTORE)</u>; Health Equity Research Network on Prevention of Hypertension (American Heart Association, Ogedegbe PI), 2022 – 2025.

<u>Comparing Hypertension Remote Monitoring Evaluation Redesign (CHARMED)</u>: (PCORI, Sarkar/Lyles), 2024-2029.

Advisory Committee Member

- 1. Applying Population Management Best Practices to Preventive Genomic Medicine. Sara Kerr (NCI Award number Pending). 2023-2028.
- 2. Increasing Colorectal Cancer Screening in Priority Populations (Coronado, multiple studies). 2018-current.

Scholarship - Public Impact and Media in Medicine, Science, or Health

Letters to the Editor and Opinion Pieces (Non-Academic Publications)

- 1. Schooling children in healthy eating, invited commentary Seattle Times, August 15, 2003
- 2. <u>Not taking hypertension medications can make you "suddenly sick", Opinion commentary, Seattle Times, July 14, 2005, Seattle, WA</u>

Blogs



Health Affairs, From Research to Action Advocating for a Medicaid Colorectal Cancer Screening Quality Performance Measure, August 31, 2021 https://www.healthaffairs.org/do/10.1377/forefront.20210827.643528

Podcasts/ Videos

- 1. JAMA: 2008-6-25, Author in the Room Audio Interview https://edhub.ama-assn.org/jn-learning/audio-player/1916998
- 2. <u>Is blood pressure reading more accurate at home or clinic? Video Recording;</u> March 3, 2022; <u>https://www.kpwashingtonresearch.org/news-and-events/recent-news/news-2022/blood-pressure-reading-more-accurate-home-or-clinic</u>

Press Releases - News Stories

- 1. <u>Is blood pressure reading more accurate at home or clinc;</u> Kaiser Permanente News; March 3, 2022; https://about.kaiserpermanente.org/health-and-wellness/health-research/news/is-blood-pressure-reading-more-accurate-at-home-or-clinic
- 2. <u>Home blood pressure monitoring: From study to clinic:</u> Kaiser Permanente News; November 22, 2022; https://www.kpwashingtonresearch.org/news-and-events/recent-news/news-2022/home-blood-pressure-monitoring-study-clinic
- 3. <u>HPV home-testing research supports better cervical cancer prevention and screening;</u> Permanente Medicine News; January 11, 2023; https://permanente.org/hpv-home-testing-research-supports-better-cervical-cancer-prevention-and-screening/
- 4. <u>Live Healthy with Monitoring Blood Pressure at Home, January 9, 2024;</u> KPWHRI newsletter.