**CURRICULUM VITAE**

**Brian L. Sprague**

Associate Professor

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**EDUCATION**

2009-2010 **Postdoctoral Fellowship**, Cancer Epidemiology

University of Wisconsin Carbone Cancer Center, Madison, WI

*Mentors:* Drs. Amy Trentham-Dietz, Patrick Remington, and Lisa Colbert

2005-2009 **Ph.D.**, Population Health Sciences (Concentration in Epidemiology)

University of Wisconsin, Madison, Wisconsin

*Dissertation title*: “The epidemiology of breast carcinoma in situ”

*Advisor*: Dr. Amy Trentham-Dietz

1999-2002 **M.S.**, Biomedical Engineering

University of Minnesota, Twin Cities, Minnesota

*Thesis title*: “Mechanisms of microtubule-based kinetochore positioning in the yeast metaphase spindle assessed by model-convolution analysis”

*Advisor*: Dr. David Odde

1995-1999 **B.S.**, Agricultural and Biological Engineering

Cornell University, Ithaca, New York

**PROFESSIONAL APPOINTMENTS**

2016-present Associate Professor, Department of Surgery, University of Vermont College of Medicine, Burlington, Vermont

2016-present Associate Professor of Biochemistry (Secondary Appointment), University of Vermont, Burlington, Vermont

2016-present Associate Professor of Radiology (Tertiary Appointment), University of Vermont, Burlington, Vermont

2013-present Program co-leader, Cancer Control and Population Health Sciences, University of Vermont Cancer Center

2013-present Graduate Faculty, University of Vermont Graduate College, Burlington, Vermont

2012-present Director, Vermont Mammography Registry, Office of Health Promotion Research, University of Vermont, Burlington, Vermont

2014-2016 Assistant Professor of Biochemistry (Secondary Appointment), University of Vermont, Burlington, Vermont

2010-2016 Assistant Professor, Department of Surgery, University of Vermont College of Medicine, Burlington, Vermont

2009-2010 Postdoctoral Fellow, Paul P. Carbone Comprehensive Cancer Center, University of Wisconsin, Madison, Wisconsin

2008 Teaching Assistant, Department of Population Health Sciences, University of Wisconsin, Madison, Wisconsin

2005-2009 Research Assistant, Department of Population Health Sciences, University of Wisconsin, Madison, Wisconsin

2002-2005 Biologist, Lab of Receptor Biology and Gene Expression, National Cancer Institute, Bethesda, Maryland

2001-2002 Technical Aide, Biomaterials Technology Center, 3M Inc., St. Paul, Minnesota

2000-2002 Research Assistant, Department of Biomedical Engineering, University of Minnesota, Twin Cities, Minnesota

**HONORS AND AWARDS**

2016 Green and Gold Professorship in Surgical Research, University of Vermont College of Medicine, Burlington, Vermont

2015 Article of the Year, *American Journal of Epidemiology* (Sprague et al., “Variation in breast cancer–risk factor associations by method of detection: results from a series of case-control studies”; one of 10 selections for best of 2015)

2015 Outstanding manuscript reviewer recognition, *Annals of Internal Medicine*

2015 James E. Demeules Research Award for Dedication and Commitment to Excellence in Research, Department of Surgery, University of Vermont

2015 Gold-Merit Award for poster presentation (coauthor), Annual Meeting of the American College of Radiology

2013 James E. Demeules Research Award for Dedication and Commitment to Excellence in Research, Department of Surgery, University of Vermont

2012 1st Prize Poster (senior author), Vermont Cancer Center’s Clinical & Translational Research Symposium: Exercise, Nutrition, and Cancer

2012 1st Prize Poster (coauthor), Poster Session 1, Annual Meeting of the Society for Epidemiologic Research

2009 Scholar-in-Training Travel Award, American Association for Cancer Research

2009 Cancer Prevention Research Fellowship, American Society of Preventive Oncology co-sponsored by the Susan G. Komen Foundation and the Prevent Cancer Foundation

2008 Vilas Travel Grant, University of Wisconsin

2008 Presenter, National Institutes of Health National Graduate Student Research Festival

2007 Rankin-Skatrud Travel Award, Department of Population Health Sciences, University of Wisconsin

2006 1st Prize Poster, Poster Session II, Congress of Epidemiology

2006 Student Travel Award, Congress of Epidemiology

2005 Paper of the Year (coauthor), Molecular Biology of the Cell

1999 Graduate Research Fellowship, Department of Biomedical Engineering, University of Minnesota

1999 Alpha Epsilon National Honor Society

1997 Scholarship, Cornell Alumni Association of Rochester

**RESEARCH SUPPORT**

*Active*

P01 CA154292 (PI: Diana Miglioretti) 2017-2022

National Cancer Institute/National Institutes of Health $2,467,601 (Vermont)

Subcontract to Group Health Research Institute

*Risk-Based Breast Cancer Screening and Surveillance in Community Practice*

Role: Project leader, Registry lead, subcontract Principal Investigator

PCS-1504-30370 (PI Diana Miglioretti) 2016-2021

Patient Centered Outcomes Research Institute $646,549 (Vermont)

*Comparative Effectiveness of Breast Cancer Screening and Diagnostic Evaluation by Extent of Breast Density*

Role: Co-investigator, subcontract Principal Investigator

U01 CA196383 (co-PIs Janet Stein, Brian Sprague, & Donald Weaver) 2015-2020

National Cancer Institute/National Institutes of Health $3,702,380

*Vermont Breast Cancer Molecular Characterization Laboratory*

Role: Principal Investigator

R01 CA207361(PI: Dejana Braithwaite) 2017-2020

National Cancer Institute/National Institutes of Health $125,134

Subcontract to University of California-San Francisco

*Comorbidity and screening outcomes among older women undergoing mammography*

Role: Co-investigator, subcontract Principal Investigator

U54 CA163303 (co-PIs: Brian Sprague & Donald Weaver) 2011-2018

National Cancer Institute/National Institutes of Health $6,405,662

*Vermont PROSPR Research Center*

Role: Principal Investigator

P20 GM103644 (PI: Steve Higgins) 2016-2018

National Institute of General Medical Sciences/

National Institutes of Health $4,582,238

*Vermont Center on Behavior and Health*

Role: Co-investigator

*Completed*

P01 CA154292 (PI: Diana Miglioretti) 2011-2017

National Cancer Institute/National Institutes of Health $227,769 (Vermont)

Subcontract to Group Health Research Institute

*Risk-Based Breast Cancer Screening in Community Settings*

Role: Co-investigator, subcontract Principal Investigator

P20 GM103644 (PI: Steve Higgins) 2013-2016

National Institute of General Medical Sciences/

National Institutes of Health $6,873,357

*Vermont Center on Behavior and Health*

Project 5: Behaviors, Chronic Disease, and Quality of Life after Ductal Carcinoma in Situ

Role: Project Director

HHSN 261201100031C (PI: Diana Miglioretti) 2011-2016

National Cancer Institute/National Institutes of Health $336,933 (Vermont)

Subcontract to Group Health Research Institute

*Breast Cancer Surveillance Consortium Data Resource*

Role: Co-investigator, subcontract Principal Investigator

U01 CA152958 (PI: Jeanne Mandelblatt) 2010-2015

National Cancer Institute/National Institutes of Health $81,461 (Vermont)

Subcontract to University of Georgetown

*Comparative Modeling: Informing Breast Cancer Control Practice & Policy*

Role: Co-investigator, subcontract Principal Investigator

Faculty Practice Research Award (co-PIs: Brian Sprague & Marie Wood) 2012-2014

University of Vermont Medical Group Research Award Program $49,997

*The influence of inflammation on breast cancer risk*

Role: Co-Principal Investigator

BC102357 (PI: Amy Trentham-Dietz) 2011-2013

Department of Defense Breast Cancer Research Program $28,031 (Vermont)

Subcontract to University of Wisconsin

*Tumor microenvironment and progression to invasion after a diagnosis of DCIS*

Role: Co-investigator, subcontract Principal Investigator

R01CA067264 (PI: Amy Trentham-Dietz) 2013

National Cancer Institute/National Institutes of Health $31,665 (Vermont)

Subcontract to University of Wisconsin

*Breast Carcinoma In situ: Predicting Risk and Outcomes*

Role: Co-investigator, subcontract Principal Investigator

PCF-0596 (PI: Brian Sprague) 2010-2012

American Society of Preventive Oncology Research Fellowship $80,000

Sponsored by Prevent Cancer Foundation and the Susan Komen Foundation

*Modifiable risk factors for second breast cancer events after a diagnosis of DCIS*

Role: Co-investigator, subcontract Principal Investigator

R03 CA139548 (PI: Amy Trentham-Dietz) 2012

National Cancer Institute/National Institutes of Health $17,829 (Vermont)

Subcontract to University of Wisconsin

*The Vitamin D Pathway and Mammographic Breast Density in Postmenopausal Women*

Role: Co-investigator, subcontract Principal Investigator

Educational Grant (PI: Brian Sprague) 2012

Vermont Department of Health $1792

*Annual Mammography Technologist Workshop 2012*

Role: Principal Investigator

BC062649 (PI: Amy Trentham-Dietz) 2010-2011

Department of Defense Breast Cancer Research Program $25,822 (Vermont)

Subcontract to University of Wisconsin

*Total Xenoestrogen Body Burden in Relation to Mammographic Density, A Marker of Breast Cancer Risk*

Role: Co-investigator, subcontract Principal Investigator

5U48DP001935 (PI: Berta Geller) 2010-2011

Centers for Disease Control and Prevention $128,764

*Journey Forward Cancer Survivor Care Planning in the Rural Northeast*

Role: Co-Investigator

Hologic Educational Grant (PI: Brian Sprague) 2011

Hologic, Inc. $500

*Radiology Technologist Workshop 2011*

Role: Principal Investigator

FAS0703857 (PI: Amy Trentham-Dietz) 2007-2010

Susan G. Komen for the Cure Breast Cancer Foundation $215,427

*Xenoestrogens, Sex Hormones, and Breast Density*

Role: Co-Investigator

**PEER-REVIEWED PUBLICATIONS** (\*denotes first author as student or trainee)

1. Engmann NJ, Golmakani MK, Miglioretti DL, **Sprague BL**, Kerlikowske K. Population-attributable risk proportion of clinical risk factors for breast cancer. *JAMA Oncology* (in press).
2. Gangnon RE, Stout NK, Alagoz O, Hampton JM, **Sprague BL**, Trentham-Dietz A. Contribution of breast cancer to overall mortality for U.S. women. *Medical Decision Making* (in press).
3. Lee JM, Ichikawa L, Valencia E, Miglioretti DL, Wernli K, Buist DSM, Kerlikowske K, Henderson LM, **Sprague BL**, Onega T, Rauscher GH, Lehman CD. Performance benchmarks for screening breast MRI in community practice. *Radiology* (in press).
4. Alagoz O, Ergun M, Cevik M, **Sprague BL**, Fryback D, Gangnon R, Hampton J, Stout N, Trentham-Dietz A. The University of Wisconsin breast cancer epidemiology simulation model: an update. *Medical Decision Making* (in press).
5. Wernli KJ, Arao RF, Hubbard RA, **Sprague BL**, Alford-Teaster J, Haas JS, Henderson L, Hill D, Lee CI, Tosteson ANA, Onega T. Change in breast cancer screening intervals since the 2009 USPSTF guideline. *Journal of Women’s Health* (in press).
6. Mandelblatt J, Near A; Miglioretti D, Munoz D, **Sprague BL**, Gangnon R, Kurian A, Weedon-Fekjar H, Cronin K, Plevritis S. Common model inputs used in CISNET collaborative breast cancer modeling. *Medical Decision Making* (in press).
7. Kerlikowske K, Ma L, Scott C, Mahmoudzadeh A, Jensen M, **Sprague BL**, Henderson L, Pankratz VS, Cummings S, Miglioretti DL, Vachon C, Shepherd J. Combining quantitative and qualitative breast density measures to assess breast cancer risk. *Breast Cancer Research* (in press).
8. **Sprague BL**, Arao R, Miglioretti DL, Henderson LM, Buist DSM, Onega T, Rauscher GH, Lee JM, Tosteson ANA, Kerlikowske K, Lehman CD. National performance benchmarks for modern diagnostic digital mammography: update from the Breast Cancer Surveillance Consortium. *Radiology* 283(1):59-69, 2017.
9. \*Veal CT, Hart V, Lakoski SG, Hampton JM, Gangnon RE, Newcomb PA, Higgins ST, Trentham-Dietz A, **Sprague BL**. Health-related behaviors and mortality outcomes in women diagnosed with ductal carcinoma in situ. *Journal of Cancer Survivorship* 11(3):320-328, 2017.
10. Ahern TP, **Sprague BL**, Bissell MCS, Miglioretti DL, Buist DSM, Braithwaite D, Kerlikowske K. Family history of breast cancer, breast density, and breast cancer risk in a U.S. breast cancer screening population. *Cancer Epidemiology Biomarkers & Prevention* 26(6):938-944, 2017.
11. Wood ME, **Sprague BL**, Oustimov A, Synnstvedt MB, Cuke M, Conant EF, Kontos D. Aspirin use is associated with lower mammographic density in a large screening cohort. *Breast Cancer Research and Treatment* 162(3):419-425, 2017.
12. Lehman CD, Arao RF, **Sprague BL**, Lee JM, Buist DSM, Kerlikowske K, Henderson LM, Onega T, Tosteson ANA, Rauscher GH, Miglioretti DL. National performance benchmarks for modern screening digital mammography: update from the Breast Cancer Surveillance Consortium. *Radiology* 283(1):49-58, 2017.
13. Ziv E, Tice J, **Sprague B**, Vachon CM, Cummings SR, Kerlikowske K. Optimal use of breast cancer risk associated polymorphisms to stratify women for breast cancer chemoprevention. *PLOS ONE* 12(1):e0168601, 2017.
14. Haas JS, Barlow WE, Schapira MM, MacLean CD, Klabunde CN, **Sprague BL**, Beaver EF, Chen JS, Bitton A, Onega T, Harris K, Tosteson ANA. Primary care providers' beliefs and recommendations and use of screening mammography by their patients. *Journal of General Internal Medicine* 32(4):449-457, 2017.
15. Yaghjyan L, Arao R, Brokamp C, O'Meara ES, **Sprague BL**, Ghita G, Ryan P. Association between air pollution and mammographic breast density in the Breast Cancer Surveillance Consortium. *Breast Cancer Research* 19(1):36, 2017.
16. Leopold RB, Thomas AW, Concannon KF, Correll AD, LaPenta CM, Maurer SM, **Sprague BL**, Herschorn SD, Verschraegen CF. Breast cancer screening in patients with cancers other than breast. *Breast Cancer Research & Treatment* 163(2):343-348, 2017.
17. **Sprague BL**, Conant EF, Onega T, Garcia MP, Beaber EF, Herschorn SD, Lehman CD, Tosteson ANA, Lacson R, Schnall MD, Kontos D, Haas JS, Weaver DL, Barlow WE, on behalf of the PROSPR consortium. Variation in mammographic breast density assessments across radiologists in clinical practice: a multicenter observational study. *Annals of Internal Medicine* 165(7):457-464, 2016.
18. \*Hart V, **Sprague BL**, Lakoski SG, Hampton JM, Newcomb PA, Gangnon RE, Trentham-Dietz A. Trends in health related quality of life following a diagnosis of ductal carcinoma in situ. *Journal of Clinical Oncology* 34(12):1323-1329, 2016.
19. \*Shiyanbola OO, **Sprague BL**, Hampton JM, Dittus K, James TA, Herschorn S, Gangnon RE, Weaver DL, Trentham-Dietz A. Emerging trends in surgical and adjuvant radiation therapies among women diagnosed with ductal carcinoma in situ. *Cancer* 122(18):2810-2818, 2016.
20. \*Khadanga S, Lakoski SG, Hart V, **Sprague BL**, Ba Y, Hampton JM, Higgins ST, Ades PA, Newcomb PA, Trentham-Dietz A. Partnership status and socioeconomic factors in relation to health behavior changes after a diagnosis of ductal carcinoma in situ. *Cancer Epidemiology Biomarkers & Prevention* 25(1):76-82, 2016*.*
21. Schapira MM, **Sprague BL**, Klabunde CN, Tosteson ANA, Bitton A, Chen JS, Beaber EF, Onega T, MacLean CD, Harris K, Howe K, Pearson L, Feldman S, Brawarsky P, Haas J, on behalf of the PROSPR consortium. Inadequate systems to support breast and cervical cancer screening in primary care practice. *Journal of General Internal Medicine* 31(10):1148-1155, 2016.
22. James TA, Wade JE, **Sprague BL**. The impact of mammographic screening on the surgical management of breast cancer. *Journal of Surgical Oncology* 113(5):496-500, 2016.
23. Haas JS, **Sprague BL**, Klabunde CN, Tosteson ANA, Chen J, Bitton A, Beaber EF, Onega T, Kim JJ, MacLean CD, Harris K, Yamartino P, Howe K, Pearson L, Feldman S, Brawarsky P, Schapira M. Provider attitudes and screening practices following changes in breast and cervical cancer screening guidelines. *Journal of General Internal Medicine* 31(1):52-59, 2016.
24. Chen JS, **Sprague BL**, Klabunde CN, Tosteston ANA, Bitton A, Onega T, MacLean CD, Harris K, Schapira M, Haas JS, on behalf of the PROSPR Consortium. Take the Money and Run? Redemption of a Gift Card Incentive in a Clinician Survey. *BMC Medical Research Methodology* 16(1):25-29, 2016.
25. Conant EF, Beaber EF, **Sprague BL**, Herschorn SD, Weaver DL, Onega T, Tosteson ANA, McCarthy AM, Poplack SP, Haas JS, Armstrong K, Schnall MD, Barlow WE. Breast cancer screening using tomosynthesis in combination with digital mammography compared to digital mammography alone within the PROSPR consortium. *Breast Cancer Research & Treatment* 156(1):109-116, 2016.
26. Trentham-Dietz A, Kerlikowske K, Stout NK, Milgioretti DL, Schechter CB, Ergun MA, van den Broek JJ, Alagoz O, **Sprague BL**, van Ravesteyn NT, Gangnon RE, Hampton JM, Chang Y, de Koning HJ, Mandelblatt JS, Tosteson ANA. Tailoring breast cancer screening intervals by breast density and risk for women 50 and older: Collaborative modeling of screening outcomes. *Annals of Internal Medicine* 165(10):700-712, 2016.
27. Beaber EF, Tosteston ANA, Haas JS, Onega T, **Sprague BL**, Weaver DL, McCarthy AM, Doubeni CA, Quinn VP, Skinner CS, Zauber AG, Barlow WE. Breast cancer screening initiation after turning 40 years of age within the PROSPR consortium. *Breast Cancer Research & Treatment* 160(2):323-331, 2016.
28. Johnson A, Shulman L, Kachajian J, **Sprague BL**, Khan F, James T, Cranmer D, Young P, Heimann R. Access to care in Vermont, factors linked with time to chemotherapy for women with breast cancer: a retrospective cohort study. *Journal of Oncology Practice* 12(9):e848-857, 2016.
29. Mandelblatt JS, Stout NK, Schechter CB, van den Broek JJ, Miglioretti D, Krapcho M, Trentham-Dietz A, Munoz D, Lee SJ, Berry DA, van Ravesteyn NT, Alagoz O, Kerlikowske K, Tosteson ANA, Near AM, Hoeffken A, Chang Y, Heijnsdijk EA, Chisholm G, Huang X, Huang H, Ergun MA, Gangnon R, **Sprague BL**, Plevritis S, Feuer E, de Koning HJ, Cronin KA. Collaborative modeling of the benefits and harms associated with different US breast cancer screening strategies. *Annals of Internal Medicine* 164(4):215-225, 2016.
30. Higgins ST, Kurti AN, Redner R, White TJ, Keith DR, Gaalema DE, **Sprague BL**, Stanton CA, Roberts ME, Doogan NJ, Priest JS. Co-occurring risk factors for current cigarette smoking in a U.S. nationally representative sample. *Preventive Medicine* 92:110-117, 2016.
31. Lee AY, Ichikawa L, Lee JM, Lee CI, DeMartini WB, Joe BN, Wernli KJ, **Sprague BL**, Herschorn SD, Lehman CD. Concordance of BI-RADS Assessments and Management Recommendations for Breast MRI in Community Practice. *American Journal of Roentgenology* 206:211-216, 2016.
32. Hubbard RA, O’Meara ES, Henderson LM, Hill D, Braithwaite D, Haas JS, Lee CI, **Sprague BL**, Alford-Teaster J, Tosteson ANA, Wernli KJ, Onega T. Multilevel factors associated with long-term adherence to screening mammography guidelines in older women. *Preventive Medicine* 89:169-177, 2016.
33. Fenton JJ, Onega T, Zhu W, Balch S, Smith-Bindman R, Henderson L, **Sprague BL**, Kerlikowske K, Hubbard RA. Validation of a Medicare claims-based algorithm for identifying breast cancers detected at screening mammography. *Medical Care* 54(3):e15-22, 2016.
34. Gierach GL, Patel DA, Pfeiffer RM, Figueroa JD, Linville L, Papathomas D, Johnson JM, Chicoine RE, Herschorn SD, Shepherd JA, Wang J, Malkov S, Vacek PM, Weaver DL, Fan B, Mahmoudzadeh AP, Palakal M, Xiang J, Oh H, Horne HN, **Sprague BL**, Hewitt SM, Brinton LA, Sherman ME. Relationship of terminal duct lobular unit involution of the breast with area and volume mammographic densities. *Cancer Prevention Research* 9(2):149-158, 2016*.*
35. Kurti A, Keith DR, Noble A, Priest JS, **Sprague B**, Higgins ST. Characterizing the intersection of co-occurring risk factors for illicit drug abuse and dependence in a U.S. nationally representative sample. *Preventive Medicine* 92:118-125, 2016.
36. **Sprague BL**, Gangnon RE, Hampton JM, Egan KM, Titus LJ, Kerlikowske K, Remington PL, Newcomb PA, Trentham-Dietz A. Variation in breast cancer risk factor associations by method of detection. *American Journal of Epidemiology* 181(12):956-959, 2015.
37. **Sprague BL**, Stout NK, Schechter C, van Ravesteyn NT, Cevik M, Alagoz O, Lee CI, van den Broek JJ, Miglioretti DL, Mandelblatt JS, de Koning H.J., Kerlikowske K, Lehman CD, Tosteson ANA. Benefits, harms, and cost-effectiveness of supplemental ultrasonography screening for women with dense breasts. *Annals of Internal Medicine* 162(3):157-166, 2015.
38. \*Berkman AB, Trentham-Dietz A, Dittus K, Hart V, Vatovec CM, King JG, James TA, Lakoski SG, **Sprague BL**. Health behavior change following a DCIS diagnosis: an opportunity to improve health outcomes. *Preventive Medicine* 80:53-59, 2015.
39. \*Hart V, Reeves KW, Sturgeon SR, Reich NG, Sievert LL, Kerlikowske K, Ma L, Shepherd J, Tice JA, Mahmoudzadeh AP, Malkov S, **Sprague BL**. The effect of change in body mass index on volumetric measures of mammographic density. *Cancer Epidemiology Biomarkers & Prevention* 24(11):1724-1730, 2015*.* PMCID: PMC4633314.
40. \*Persing S, Jerome M, James TA, Callas P, Mace J, Sowden M, Goodwin A, Weaver DL, **Sprague BL**. Surgical margin reporting in breast conserving surgery: does compliance with guidelines affect re-excision and mastectomy rates? *The Breast* 24(5):618-622, 2015.
41. \*Othman E, Wang J, **Sprague BL**, Rounds T, Ji Y, Herschorn SD, Wood M. Comparison of false positive rates for screening breast magnetic resonance imaging (MRI) in high risk women performed on stacked versus alternating schedules. *SpringerPlus* 4:77-82, 2015.
42. \*Hanley JP, Jackson E, Morrissey LA, Rizzo DM, **Sprague BL**, Sarkar IN, Carr FE. Geospatial and Temporal Analysis of Thyroid Cancer Incidence in a Rural Population. *Thyroid* 25(7):812-822, 2015.
43. Gangnon RE, **Sprague BL**, Stout NK, Alagoz O, Weedon-Fekjar H, Holford TR, Trentham-Dietz A. The contribution of mammography screening to breast cancer incidence trends in the United States: an updated age-period-cohort model. *Cancer Epidemiology Biomarkers & Prevention* 24(6):905-912, 2015.
44. Kerlikowske K, Gard CC, **Sprague BL**, Tice JA, Miglioretti DL, Breast Cancer Surveillance Consortium. One versus two breast density measures to predict 5- and 10-year breast cancer risk. *Cancer Epidemiology Biomarkers & Prevention* 24(6):889-897, 2015.
45. Henderson LM, Hubbard RA, **Sprague BL**, Zhu W, Kerlikowske K. Increased risk of developing breast cancer after a false-positive screening mammogram. *Cancer Epidemiology Biomarkers & Prevention* 24(12):1882-1889, 2015*.*
46. Miglioretti DL, Zhu W, Kerlikowske K, **Sprague BL**, Onega T, Buist DSM, Henderson LM, Smith R.A., for the Breast Cancer Surveillance Consortium. Breast tumor prognostic characteristics and biennial vs. annual mammography, age, and menopausal status. *JAMA Oncology* 1(8):1069-1077, 2015.
47. Scheel J, Lee JM, **Sprague BL**, Lee CI, Lehman CD. Screening ultrasound as an adjunct to mammography in women with mammographically dense breasts. *American Journal of Obstetrics & Gynecology* 212(1):9-17, 2015.
48. Kerlikowske K, Zhu W, Tosteson AN, **Sprague BL**, Tice JA, Lehman CD, Miglioretti DL, Breast Cancer Surveillance Consortium. Identifying women with dense breasts at high risk for interval cancer: a cohort study. *Annals of Internal Medicine* 162(10):673-681, 2015.
49. Lee CI, Cevik M, Alagoz O, **Sprague BL**, Tosteson ANA, Miglioretti DL, Kerlikowske K, Stout NK, Jarvik JG, Ramsey SD, Lehman CD. Comparative effectiveness of combined digital mammography and tomosynthesis screening for women with dense breasts. *Radiology* 274(3):772-780, 2015.
50. Kim JJ, Tosteson ANA, Zauber AG, **Sprague BL**, Stout NK, Alagoz O, Trentham-Dietz A, Armstrong K, Pruitt SL, Rutter CM. Cancer models and real-world data: Better together. *Journal of the National Cancer Institute* 108(2):djv316, 2015.
51. Henderson LM, Miglioretti DL, Kerlikowske K, Wernli KJ, **Sprague BL**, Lehman CM. Breast cancer characteristics associated with digital versus screen-film mammography for screen-detected and interval cancers. *American Journal of Roentgenology* 205(3):676-684, 2015.
52. Jacobsen KK, Abraham L, Buist DSM, Hubbard RA, O’Meara ES, **Sprague BL**, Kerlikowske K, Vejborg I, von Euler-Chelpin M, Njor S. Comparison of Cumulative False-Positive Risk of Screening Mammography in the United States and Denmark. *Cancer Epidemiology* 39(4):656-663, 2015.
53. Lee CI, Bogart A, Hubbard RA, Obadina ET, Hill DA, Haas JS, Tosteson ANA, Alford-Teaster JA, **Sprague BL**, DeMartini WB, Lehman CD, Onega TL. Advanced breast imaging availability by screening facility characteristics. *Academic Radiology* 22(7):846-852, 2015.
54. Jacobsen KK, O’Meara ES, Key D, Buist DSM, Kerlikowske K, Vejborg I, **Sprague BL**, Lynge E, von Euler-Chelpin M. Comparing sensitivity and specificity of screening mammography in the United States and Denmark. *International Journal of Cancer* 137(9):2198-2207, 2015.
55. **Sprague BL**, Gangnon R, Burt V, Trentham-Dietz A, Hampton JM, Kerlikowske K, Miglioretti DL. Prevalence of mammographically dense breasts in the United States. *Journal of the National Cancer Institute* 106(10):dju255, 2014.
56. **Sprague BL**, Bolton KC, Mace JL, Herschorn SD, James TA, Vacek PM, Weaver DL, Geller BM. Trends in breast cancer screening mammography before and after the 2009 USPSTF recommendations. *Radiology* 270(2):354-361, 2014.
57. \*Bolton KC, Mace JL, Vacek PM, Herschorn SD, James TA, Tice JA, Kerlikowske K, Geller BM, Weaver DL, **Sprague BL**. Changes in the breast cancer risk distribution among Vermont women utilizing screening mammography. *Journal of the National Cancer Institute* 106(4):dju157, 2014.
58. \*McLaughlin VH, Trentham-Dietz A, Hampton JM, Newcomb PA, **Sprague BL**. Lifestyle factors and the risk of a second breast cancer after ductal carcinoma in situ. *Cancer Epidemiology Biomarkers & Prevention* 23(3):450-460, 2014. PMCID: PMC3951673.
59. \*Jewett PI, Trentham-Dietz A, Gangnon R, **Sprague BL**. Trends of postmenopausal estrogen plus progestin prevalence in the United States between 1970 and 2010. *Obstetrics & Gynecology* 124(4):727-733, 2014.
60. \*Berkman A, Cole B, Ades PA, Dickey S, Higgins ST, Trentham-Dietz A, **Sprague BL**, Lakoski SG. Racial differences in breast cancer, cardiovascular disease, and all-cause mortality among women with ductal carcinoma in situ of the breast. *Breast Cancer Research & Treatment* 148(2):407-413, 2014.
61. Vatovec CV, Erten MZ, Kolodinsky J, Brown P, Wood M, James T, **Sprague BL**. Ductal carcinoma in situ: a brief review of treatment variation and impacts on patients and society. *Critical Reviews in Eukaryotic Gene Expression* 24(4):281-286, 2014.
62. Trentham-Dietz A, **Sprague BL**, Hampton JM, Miglioretti DL, Nelson HD, Titus LJ, Egan KM, Remington PL, Newcomb PA. Modification of breast cancer risk according to age and menopausal status: A combined analysis of five population-based case-control studies. *Breast Cancer Research and Treatment* 145(1):165-175, 2014*.* PMCID: PMC4112552.
63. Munsell MF, **Sprague BL**, Berry DA, Chisholm G, Trentham-Dietz A. Meta-analysis of body mass index and breast cancer risk according to postmenopausal estrogen-progestin use and hormone receptor status. *Epidemiologic Reviews* 36:114-136, 2014. PMCID: PMC3873844.
64. Dittus KL, **Sprague BL**, Pace CM, Dulko DA, Pollack LA, Hawkins NA, Geller BM. Primary care provider evaluation of cancer survivorship care plans developed for patients in their practice. *Journal of General Practice* 2(4):163, 2014.
65. Onega T, Beaber EF, **Sprague BL**, Barlow WE, Haas JS, Tosteson AN, Schnall M, Armstrong K, Schapira MM, Geller B, Weaver DL, Conant EF. Breast Cancer Screening in an Era of Personalized Regimens: A Conceptual Model and NCI Initiative for Risk- and Preference-based Screening at a Population Level. *Cancer* 120(19):2955-2964, 2014.
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**MANUSCRIPTS SUBMITTED FOR PUBLICATION**

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**OTHER PUBLICATIONS (NON-PEER REVIEWED)**

1. Conant EF, **Sprague BL**, Kontos D. Beyond BI-RADS density: a call for quantification in the breast imaging clinic [Editorial]. *Radiology* (in press).
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**BOOK CHAPTERS**

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**ABSTRACTS PRESENTED AT NATIONAL MEETINGS** (\* denotes first author as student or trainee)

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48. \*McLaughlin V, Trentham-Dietz A, Hampton JM, Newcomb PA, **Sprague BL**. Lifestyle factors and the risk of a second breast diagnosis after DCIS in the Wisconsin In Situ Cohort. Annual Meeting of the American Society of Preventive Oncology, 2013; Memphis, TN. Cancer Epidemiology Biomarkers & Prevention 22:472. *Cancer Epidemiology Biomarkers & Prevention* 22(3): 472, 2013.
49. \*Othman E, Wang J, **Sprague B**, Ji Y, Herschorn SD, Wood M. Comparison of false positive rates for screening breast MRI in high risk women when studies are done stacked versus alternating. American Society of Clinical Oncology Annual Meeting, 2013; Chicago, IL. *Journal of Clinical Oncology* 31(15 supplement):1512, 2013.
50. Rochelle MC, Lee CI, Ichikawa L, Joe BN, **Sprague B**, Wernli K, DeMartini WB, Lehman CD. Variation in Breast MR Imaging BI-RADS assessment by clinical indication in U.S. Community Settings. Association of University Radiologists Annual Meeting, 2013; Los Angeles, CA.
51. Wernli KJ, O’Meara ES, Kerlikowske K, Miglioretti D, Muller CY, Onega T, **Sprague B**, Yankaskas B, Brandzel S, Cohen-Cline H, Buist DSM. Is mammographic breast density a biomarker exposure for ovarian cancer? Biennial Marsha Rivkin Foundation Ovarian Cancer Research Symposium, 2012; Seattle, WA.
52. **Sprague B**, Trentham-Dietz A, Cronin K. A sustained decline in postmenopausal hormone use: results from NHANES 1999-2010. Annual Meeting of the Society of Epidemiologic Research, 2012; Minneapolis, MN. *American Journal of Epidemiology* 175:S135.
53. Gangnon RE, **Sprague B**, Stout N, Alagoz A, Trentham-Dietz A. Age-period-cohort analysis of invasive breast cancer incidence in the United States, 1935-2008. Annual Meeting of the Society of Epidemiologic Research, 2012; Minneapolis, MN. *American Journal of Epidemiology* 175:S6.
54. **Sprague B**, Herchorn S, James T, Geller B. Trends in breast cancer screening following the 2009 USPSTF recommendations. Annual Meeting of the Society of Epidemiologic Research, 2012; Minneapolis, MN. *American Journal of Epidemiology* 175:S45.
55. Geller BM, Dittus KL, **Sprague BL**, Pace CM, Dulko D. Implementing care plans within a rural and urban clinical community setting. Centers for Disease Control and Prevention National Cancer Conference, 2012; Washington, DC.
56. O'Meara ES, Marcus PM, Ichikawa L, Buist DSM, Geller BM, Henderson L, Hill DA, Kerlikowske K, Onega T, **Sprague BL**, Rozjabek H, Miglioretti DL. The Breast Cancer Surveillance Consortium (BCSC) Research Resource. Centers for Disease Control and Prevention National Cancer Conference, 2012; Washington, DC.
57. Dulko D, Pace CM, Dittus KL, **Sprague BL**, Geller BM. Barriers and facilitators to implementing survivorship care plans. American Cancer Society Biennial Cancer Survivorship Research Conference, 2012; Arlington, VA.
58. \*Theiler SK, Khan FB, Thompson CA, **Sprague BL**, Dittus K, Sussman BL, Wood ME. Correlations of serum vitamin D levels and changes in breast density. *Annual Meeting of the American Association for Cancer Research*; 2012 March 31-April 4, 2012; Chicago, IL.
59. **Sprague BL**, Dittus KL, Pace CM, Dulko D, Geller BM. Patient satisfaction with breast and colorectal cancer survivorship care plans. Annual Meeting of the American Society of Preventive Oncology, 2012; Washington, DC.
60. Ditus KL, **Sprague BL**, Pace CM, Dulko D, Geller BM. Primary care provider evaluation of cancer survivorship care plans. Annual Meeting of the American Society of Preventive Oncology, 2012; Washington, DC.
61. Wernli KJ, O’Meara ES, Kerlikowske K, Miglioretti D, Muller CY, Onega T, **Sprague B**, Yankaskas B, Cohen-Cline H, Buist DSM. Mammographic breast density and risk of incidence ovarian cancer. Annual Meeting of the American Society of Preventive Oncology, 2012; Washington, DC.
62. Trentham-Dietz A, **Sprague BL**, Hampton JM, Buist DSM, Aiello Bowles EJ, Sisney G, Burnside E, Hemming J, Hedman C. Phenol xenoestrogens and mammographic breast density. Annual Meeting of the American Society of Preventive Oncology, 2012; Washington, DC. *Cancer Epidemiology Biomarkers & Prevention* 21:561.
63. \*McLaughlin V, **Sprague BL**, Hampton JM, Newcomb PA, Trentham-Dietz A. DCIS disease-free survival in the population-based Wisconsin In Situ Cohort. Tenth Annual AACR Frontiers in Cancer Prevention Research, 2011; Boston, Massachusetts.
64. Trentham-Dietz A, **Sprague BL,** Hedman C, Hemming J, Hampton J, Aiello Bowles EJ, Burnside ES, Sisney GS, Buist DSM. The association of serum phytoestrogens with mammographic density. Era of Hope: the Department of Defense Breast Cancer Research Meeting, 2011; Orlando, Florida.
65. **Sprague BL**, Trentham-Dietz A, Hampton JM, Egan KM, Titus-Ernstoff L, Remington PL, Newcomb PA. Variation in breast cancer risk factors by mode of detection. Annual Meeting of the Society of Epidemiologic Research, 2011; Montreal, Canada. *American Journal of Epidemiology* 173:S251.
66. Trentham-Dietz A, **Sprague B**, Hampton J, Miglioretti D, Nelson H, Titus-Ernstoff L, Egan K, Remington P, Newcomb P. Are risk factors for breast cancer in women <50 years of age different than for women over 50? Annual Meeting of the Society of Epidemiologic Research, 2011; Montreal, Canada. *American Journal of Epidemiology* 173:S256.
67. **Sprague BL**, Trentham-Dietz A, Hedman C, Hemming J, Hampton J, Buist DSM, Aiello Bowles EJ, Burnside ES, Sisney GS. The association of serum phthalates and parabens with mammographic breast density. Annual Meeting of the American Society of Preventive Oncology, 2011; Las Vegas, Nevada. *Cancer Epidemiology, Biomarkers & Prevention* 20(4):715.
68. Trentham-Dietz A, **Sprague BL,** Alagoz O, Reaidi P, Rosenberg M, Gangnon RE, Stout NK. The impact of detection and treatment of carcinoma in situ on breast cancer mortality.Annual Meeting of the American Society of Preventive Oncology, 2011; Las Vegas, Nevada. *Cancer Epidemiology, Biomarkers & Prevention* 20(4):720.
69. **Sprague BL**, Trentham-Dietz A, Gangnon RE, Buist DSM, Burnside ES, Aiello Bowles EJ, Sisney GS. Circulating sex hormones and mammographic breast density among postmenopausal women. Annual Meeting of the Society for Epidemiologic Research, 2010; Seattle, Washington. *American Journal of Epidemiology* 171:S1, 2010.
70. **Sprague BL**, Ramchandani R, Trentham-Dietz A, Newcomb P, Gangnon R, Remington P, Hampton J. Socioeconomic status and survival after an invasive breast cancer diagnosis. Annual Meeting of the American Society of Preventive Oncology, 2010; Bethesda, Maryland. *Cancer Epidemiology, Biomarkers & Prevention* 19:892, 2010.
71. **Sprague BL**, Trentham-Dietz A, Skinner HG, Buist DSM, Burnside ES, Aiello Bowles EJ, Gangnon RE, Sisney GS. The vitamin D pathway and mammographic breast density. Annual Meeting of the American Society of Preventive Oncology, 2010; Bethesda, Maryland.
72. **Sprague BL**, Trentham-Dietz A, Remington PL. Declining incidence of breast cancer since 2002 in the United States: How much is explained by the decrease in postmenopausal hormone use? American Association for Cancer Prevention Frontiers in Cancer Prevention Meeting, 2009; Houston, Texas.
73. **Sprague BL**, Trentham-Dietz A, Nichols HB, Hampton JM, Newcomb PA. Health related behaviors before and after a diagnosis of breast carcinoma *in situ*. Annual Meeting of the American Society of Preventive Oncology, 2009; Tampa, Florida.
74. **Sprague BL**, Trentham-Dietz A, Klein BEK, Klein R, Cruickshanks KJ, Lee KE, Hampton JM. Physical activity, white blood cell count, and lung cancer risk in a prospective cohort study. Annual Meeting of the American Society of Preventive Oncology, 2008; Bethesda, Maryland. *Cancer Epidemiology, Biomarkers & Prevention* 17:461, 2008.
75. **Sprague BL,** Trentham-Dietz A, Sisney GA, Hemming J, Buist DSM. Total xenoestrogen body burden in relation to mammographic breast density, a marker of breast cancer risk. Era of Hope Department of Defense Breast Cancer Research Program Meeting, 2008, Baltimore, Maryland.
76. **Sprague BL**, Trentham-Dietz A, Newcomb PA, Hampton JM, Titus-Ernstoff L, Egan KM. Population attributable fraction of breast cancer in postmenopausal women. Annual Meeting of the Society for Epidemiologic Research, 2007; Boston, Massachusetts.  *American Journal of Epidemiology* 165:S59, 2007.
77. Trentham-Dietz A, Garcia-Closas M, **Sprague BL**, Newcomb PA, Titus-Ernstoff L, Hampton JM, Chanock S, Egan KM. Genetic variation in TP53 and risk of breast cancer in a population-based case-control study. Annual Meeting of the American Association for Cancer Research, 2006; Washington, D.C. *Proceedings of the American Association for Cancer Research* 47:5391, 2006.
78. **Sprague BL**, Trentham-Dietz A, Egan KM, Hampton JM, Titus-Ernstoff L, Newcomb PA. Lifetime recreational physical activity and breast cancer risk. Second North American Congress of Epidemiology, 2006; Seattle, Washington.  *American Journal of Epidemiology* 163:S95, 2006.
79. Trentham-Dietz A, **Sprague BL**, Klein R, Klein BEK, Cruickshanks KJ, Fryback DG, Hampton JM, Moss S, Knudtson M, Lee KE. Quality of life before and after a breast cancer diagnosis. Annual Meeting of the American Society of Preventive Oncology, 2006; Bethesda, Maryland. *Cancer Epidemiology, Biomarkers & Prevention* 15:411, 2006.
80. **Sprague BL**, Gardner MK, Pearson CG, Maddox PS, Bloom K, Salmon ED, Odde DJ. Model- convolution approach to modeling protein dynamics. Annual Asilomar Conference on Signals, Systems, and Computers, 2004; Pacific Grove, California. *Conference Record of the Thirty-Eighth Asilomar Conference on Signals, Systems and Computers* 2:1821-1825, 2004.
81. Gardner MK, Pearson CG, **Sprague BL**, Bloom K, Salmon ED, Odde DJ. Tension at the kinetochore acts as a microtubule polymerase to promote metaphase congression. Annual Meeting of the Biomedical Engineering Society, 2004; Philadelphia, Pennsylvania.
82. **Sprague BL**, Pearson CG, Maddox PS, Salmon ED, Odde DJ. Integrated modeling of yeast kinetochore microtubule dynamics and the imaging thereof by fluorescence microscopy. The 2nd Joint Engineering in Medicine and Biology/Biomedical Engineering Society Conference, 2002; Houston, Texas. *Proceedings of the 2nd Joint EMBS/BMES Conference* 1:596-597, 2002.
83. Odde DJ, **Sprague BL**, Pearson CG, Maddox PS, Salmon ED. Model-convolution approach to hypothesis testing in cell biology. Annual Meeting of the American Society for Cell Biology, 2002; San Francisco, California.
84. **Sprague BL**, Maddox PS, Pearson CG, Salmon ED, Odde DJ. Linking microscopy and modeling in the yeast metaphase spindle. Annual Meeting of the Biomedical Engineering Society, 2001; Durham, North Carolina. *Annals of Biomedical Engineering* 29:85s, 2001.
85. **Sprague BL**, Pearson CG, Maddox PS, Salmon ED, Odde DJ. Modeling microtubule dynamics in the yeast metaphase spindle. Annual Meeting of the American Society for Cell Biology, 2001; Washington, D.C. *Molecular Biology of the Cell* 12:174a, 2001.

**INVITED ORAL PRESENTATIONS**

1. The Vermont PROSPR Research Center: Breast cancer screening research highlights from the University of Vermont. Semi-Annual Meeting of the National Cancer Institute’s consortium for Population-based Research Optimizing Screening through Personalized Regimens (PROSPR). Kaiser Permanente Division of Research, Oakland, CA, March 9, 2017.
2. The Vermont PROSPR Research Center: Lessons learned and next steps for optimizing the breast cancer screening process. Semi-Annual Meeting of the National Cancer Institute’s consortium for Population-based Research Optimizing Screening through Personalized Regimens (PROSPR). Fred Hutchinson Cancer Center, Seattle, WA, March 21, 2016.
3. Research for Screening and Prevention: the Vermont Breast Cancer Surveillance System. University of Vermont Cancer Center Community Clerkship sponsored by the University of Vermont Medical Center Foundation and University of Vermont Foundation, University of Vermont Medical Center, Burlington, VT, November 10, 2015.
4. Variation in mammographic breast density assessment across radiologists. Semi-Annual Meeting of the National Cancer Institute’s consortium for Population-based Research Optimizing Screening through Personalized Regimens (PROSPR). Alexandria, VA, October 25, 2015.
5. Breast Cancer Screening for Women with Dense Breasts. Northeastern Breast Cancer Conference, Darmouth-Hitchcock Medical Center and Norris Cotton Cancer Center, Lebanon, NH, May 8, 2015.
6. Breast Cancer Screening for Women with Dense Breasts. Annual meeting of the American Society of Preventive Oncology, Birmingham, AL, March 17, 2015.
7. Trends in Breast Cancer Screening in Vermont and Beyond. Clinical and Translational Science Seminar, University of Vermont, Burlington, VT, January 16, 2015.
8. Risk-based breast cancer screening for the general population: are we getting there? University of Vermont Cancer Center Clinical & Translational Research Symposium, Burlington, VT, November 21, 2014.
9. The Vermont Breast Cancer Surveillance System: Studying Breast Cancer Screening in Community Practice. Biostatistics and Epidemiology Seminar Series, University of Massachusetts School of Public Health and Health Sciences, Amherst, MA, February 6, 2014.
10. Variation in breast cancer risk factors by mode of detection. Semi-Annual Meeting of the Cancer Intervention and Surveillance Modeling Network, National Institutes of Health, Bethesda, MD, December 3, 2013.
11. The Vermont Breast Cancer Surveillance System. Annual Research Symposium of the Department of Obstetrics, Gynecology, and Reproductive Sciences, University of Vermont, Burlington, VT, November 21, 2013.
12. Modeling the comparative effectiveness of screening ultrasound for women with dense breasts. Annual Meeting of the Breast Cancer Surveillance Consortium, San Francisco, CA, June 5, 2013.
13. Research at the Vermont Breast Cancer Surveillance System. Lake Champlain Cancer Research Organization Board of Directors meeting, Saratoga Springs, New York, May 17, 2013.
14. Modeling the impact of mammographic breast density legislation. The National Cancer Institute’s Cancer Intervention and Surveillance Modeling Network 2013 Mid-Year Meeting, Ann Arbor, Michigan, May 9, 2013.
15. The Breast Cancer Surveillance Consortium: A Research Resource. Annual Meeting of the American Society of Preventive Oncology, Memphis, Tennessee, March 10, 2013.
16. Modeling for comparative effectiveness research in breast cancer screening. 3rd Scientific Meeting of the National Cancer Institute’s PROSPR (Population-based Research Optimizing Screening through Personalized Regimens) Initiative, Dallas, Texas, February 28, 2013.
17. Improving breast cancer screening by developing prognostic markers for early stage breast cancer. Center for Clinical and Translational Sciences seminar, University of Vermont, Burlington, Vermont, March 30, 2012.
18. Candidates for DCIS prognostic markers in the tumor microenvironment. Vermont Cancer Center Clinical & Translational Research Retreat, Burlington, Vermont, January 28, 2012.
19. The epidemiology of in situ breast cancer. Vermont Cancer Center Grand Rounds, Burlington, Vermont, November 22, 2011.
20. Lifestyle factors and disease-free survival after a ductal carcinoma in situ diagnosis. Annual Meeting of the American Society of Preventive Oncology, Las Vegas, Nevada, March 7, 2011.
21. The epidemiology of ductal carcinoma in situ. Special seminar, University of Vermont, College of Medicine, Burlington, Vermont, May 17, 2010.
22. The epidemiology of in situ breast cancer: a risk and benefit of screening mammography. Special seminar, University of Michigan, Department of Epidemiology, Ann Arbor, Michigan, February 22, 2010.
23. Disparities in the recent decline in breast cancer incidence: What can they tell us about the role of HRT and screening in breast cancer trends? Cancer Control Research Group Meeting, University of Wisconsin Carbone Cancer Center, Madison, Wisconsin, September 18, 2009.
24. The proportion of breast cancer cases attributable to modifiable risk factors. Department of Population Health Sciences 50th Anniversary Symposium, 2009; University of Wisconsin, Madison, Wisconsin, August 29, 2009.
25. Serum calcium and breast cancer risk in the Beaver Dam Eye Study. Department of Ophthalmology Epidemiology Group Meeting, University of Wisconsin, Madison, Wisconsin, June 10, 2009.
26. Total xenoestrogen body burden and mammographic breast density, a marker of breast cancer risk. Annual Meeting of the American Society of Preventive Oncology New Investigators Workshop, 2008; Bethesda, Maryland.
27. A case-control study of physical activity and breast cancer. Department of Population Health Sciences Seminar, University of Wisconsin, Madison, Wisconsin, January 2007.

**TEACHING/MENTORING**

**Classroom Teaching**

*Course Director - Continuing Medical Education, University of Vermont College of Medicine*

Fall 2016 Vermont Mammography Registry Mammography Technologist Meeting, October 2016, Central Vermont Medical Center, Barre, VT. Organized 1-day educational program including lectures by guest speakers for 3.5 continuing education credits. Attended by 49 mammography technologists and breast sonographers from around the state of Vermont.

Spring 2016 Co-leader of four-lecture series on epidemiology and biostatistics. Research curriculum for research year surgery residents, Department of Surgery, University of Vermont (3 residents).

Fall 2015 Vermont Mammography Registry Mammography Technologist Meeting, September 2015, Rutland Regional Medical Center, Rutland, VT. Obtained funding from the National Cancer Institute and organized 1-day educational program including lectures by guest speakers for 3 continuing education credits. Attended by 42 mammography technologists from around the state of Vermont.

Fall 2014 Vermont Mammography Registry Mammography Technologist Meeting, October 2014, Central Vermont Medical Center, Berlin, VT. Obtained funding from the National Cancer Institute and organized 1-day educational program including lectures by guest speakers for 3 continuing education credits. Attended by 45 mammography technologists from around the state of Vermont.

Fall 2013 Vermont Mammography Registry Mammography Technologist Meeting, September 2013, University of Vermont, Burlington, VT. Obtained funding from the National Cancer Institute and organized 1-day educational program including lectures by guest speakers for 3 continuing education credits. Attended by 50 mammography technologists from around the state of Vermont.

Fall 2012 Vermont Mammography Registry Mammography Technologist Meeting, September 2012, Gifford Memorial Hospital, Randolph, VT. Obtained funding from Vermont Department of Health and organized 1-day educational program including lectures by guest speakers for 3 continuing education credits. Attended by 49 mammography technologists from around the state of Vermont.

Fall 2011 Vermont Mammography Registry Mammography Technologist Meeting, September 2011, Barre, VT. Obtained funding from Hologic, Inc., and organized 1-day educational program including lectures by guest speakers for 3 continuing education credits. Attended by 35 mammography technologists from around the state of Vermont.

*Lectures – Undergraduate, Graduate, and Medical College curriculum*

Spring 2017 Interpreting and critiquing epidemiologic studies. Research curriculum for surgery residents, Department of Surgery, University of Vermont (23 residents)

Fall 2016 Fundamentals of Epidemiology 1: Defining epidemiology, measures of frequency, and measures of association. Research curriculum for surgery residents, Department of Surgery, University of Vermont (23 residents)

Spring 2015 Interpreting and critiquing epidemiologic studies. Research curriculum for research year surgery residents, Department of Surgery, University of Vermont (5 residents).

Summer 2013Breast cancer epidemiology and medical audits for mammography. Breast imaging curriculum for radiology residents and fellows, Department of Radiology, University of Vermont (25 residents and fellows).

Fall 2011 Epidemiologic Studies on Physical Activity and Cancer. Psychology 380: Special Topics in Behaviors, Neurobiology, and Health, University of Vermont (15 graduate students).

Fall 2008 Cancer Epidemiology. Population Health Sciences 797: Introduction to Epidemiology, University of Wisconsin (81 graduate students).

Fall 2008 Choosing an Appropriate Study Design: Asthma as a Case Study. Population Health Sciences 802: Advanced Epidemiology – Etiology & Prevention, University of Wisconsin (16 graduate students).

*Lectures – Continuing Medical Education, University of Vermont College of Medicine*

Fall 2016 Research update from the Vermont Mammography Registry. Vermont Mammography Registry Mammography Technologist Meeting, Central Vermont Medical Center, Barre, VT.

Fall 2015 Predictors of recurrence after a DCIS diagnosis. The University of Vermont Cancer Center’s 18th Annual Women’s Health and Breast Cancer Conference, Burlington, Vermont.

Fall 2014 Predictors of recurrence after a DCIS diagnosis. Vermont Cancer Center 17th Annual Breast Cancer Conference, Burlington, Vermont.

Fall 2013 Predictors of recurrence after a DCIS diagnosis. Vermont Cancer Center 16th Annual Breast Cancer Conference, Burlington, Vermont.

Fall 2013 Trends in Screening Mammography in Vermont: Who isn’t getting screened as much as they used to? Vermont Mammography Registry Mammography Technologist Meeting, Burlington, VT.

Fall 2012 Predictors of recurrence after a DCIS diagnosis. Vermont Cancer Center 15th Annual Breast Cancer Conference, Burlington, Vermont.

Fall 2012 Trends in Breast Cancer Screening Following the 2009 USPSTF Recommendations. Vermont Mammography Registry Mammography Technologist Meeting, Randolph, VT.

Spring 2012 VT PROSPR: Improving Breast Cancer Screening by Developing DCIS Prognostic Markers. Surgical Grand Rounds, Fletcher Allen Health Care, Burlington, VT.

Fall 2011 Predictors of Recurrence after a DCIS Diagnosis: Results from a Large Cohort Study. Vermont Mammography Registry Radiology Technologist Meeting, Barre, VT.

Spring 2011 Screening Mammography for Breast Cancer – Current Recommendations. Women’s Health Conference, Burlington, VT.

*Teaching assistant*

Fall 2008 Population Health Sciences 797: Introduction to Epidemiology, University of Wisconsin (81 graduate students; led 4 discussion sections)

**Student and Trainee Mentoring**

*Current trainees*

Soraiya Thura (Medical student), independent research, University of Vermont; Spring 2017 – present

Patrick Silveira (Medical student), independent research, University of Vermont; Spring 2016 – present

Katherine Lantz (Medical student), independent research, University of Vermont; Spring 2016 – present

Tessa Barclay (Medical student), independent research, University of Vermont; Spring 2016 – present

Mayo Fujii (Surgery resident), independent research, University of Vermont, Summer 2015 – present

Jacqueline Wade (Medical student), independent research, University of Vermont College of Medicine; Summer 2014 – present

Oyewale Shiyanbola (PhD student), PhD Dissertation Committee Member, University of Wisconsin; Spring 2014 – present

*Former trainees*

Robin Leopold (Medical student), independent research, University of Vermont; Spring 2016 – Fall 2016

Mucahit Cevik (PhD student), PhD Dissertation committee member, University of Wisconsin; Spring 2015 – Fall 2016

Christopher Veal (Post-baccalaureate pre-medical trainee), University of Vermont; Spring 2015 – Summer 2016

Vicki McLaughlin Hart (Postdoctoral researcher, PhD student), Postdoctoral supervisor and PhD Dissertation Committee Member, University of Vermont and University of Massachusetts; Summer 2011 – Spring 2016

Samir Ambrale (Medicine fellow), independent research, University of Vermont; Fall 2014 – Fall 2015

Kenyan Bolton (post-baccalaureate pre-medical trainee, Medical student), independent research, University of Vermont; Summer 2012 – Spring 2014, Summer 2015

Kathleen Olson (Medical student), summer research fellowship, University of Vermont; Summer 2015

Xiaoyu Lu (Medical student), summer research fellowship, University of Vermont; Summer 2015

Amy Berkman, (Post-baccalaureate pre-medical trainee), independent research, University of Vermont; Spring 2014 – Summer 2015

Sarah Persing (Medical student/resident), independent research, University of Vermont; Spring 2013 – Summer 2015

Ogheneruona Apoe (Hem/Onc Research Fellow), University of Vermont College of Medicine; Summer 2014 – Summer 2015

Mairin Jerome (Medical student), independent research, University of Vermont College of Medicine; Summer 2013 – Summer 2015

Sherrie Khadanga (Medicine resident), independent research, University of Vermont College of Medicine; Fall 2014 – Summer 2015

John Hanley (PhD student), independent research, University of Vermont College of Medicine and College of Engineering; Summer 2013 – Spring 2015

Patricia Jewett (PhD student), independent research, University of Wisconsin; Fall 2012 – Fall 2014

Leanne Shulman (Master’s student), independent research, University of Vermont; Summer 2013 – Spring 2014

Robin Megill (Post-baccalaureate pre-medical trainee), independent research, University of Vermont; Summer 2013 – Spring 2014

Samuel Raszka (Undergraduate), Honors College project mentor, University of Vermont; Fall 2013

Thomas Odde (Undergraduate), independent research, University of Minnesota; Summer 2013

Shana Wolfstein (Undergraduate), summer internship, Yeshiva University (New York City); Summer 2013

Priyanka Chilakamarri (Medical student), independent research, University of Vermont; Fall 2012 – Summer 2013

Edress Othman (Hem/Onc Research Fellow), independent research, University of Vermont; Fall 2011 – Summer 2013

Shaleen Theiler (Postdoctoral Research Associate), independent research, University of Vermont; Fall 2011 – Summer 2013

Jue Wang (MS student), independent research, University of Vermont; Fall 2011 – Spring 2013

Erin Jackson (Undergraduate), Honor’s thesis committee, University of Vermont; Spring 2012

Sarah Lowry (PhD student), independent research, University of Washington; Summer 2011 – Summer 2012

Francesca Boulos (Medical student), independent research, University of Vermont; Spring 2011 – Fall 2011

Nicole Storniolo (Undergraduate), Capstone project in Population Health Sciences, University of Wisconsin; Spring 2010

Ritesh Ramchandani (Undergraduate), Integrated Biological Sciences Summer Research Program, University of Wisconsin; Summer 2009

**PROFESSIONAL SOCIETIES AND MEMBERSHIPS**

University of Vermont Cancer Center (2010-present)

American Society of Preventive Oncology (2008-present)

Society for Epidemiologic Research (2007-present)

**JOURNAL EDITORIAL SERVICE**

*Ad-hoc reviewer*

Journal of the American Medical Association (2014-2017)

Annals of Internal Medicine (2014, 2015, 2017)

Journal of the National Cancer Institute (2015, 2016)

Cancer Epidemiology Biomarkers & Prevention (2009, 2014-2016)

Cancer (2016)

Cancer Causes & Control (2009, 2012-2015)

American Journal of Epidemiology (2010-2012, 2014)

Breast Cancer Research & Treatment (2010, 2011, 2014)

Women & Health (2014)

British Medical Journal (2013)

International Journal of Public Health (2012)

Breast Cancer Research (2010)

Canadian Medical Association Journal (2010)

BMC Public Health (2009)

Carcinogenesis (2009)

European Journal of Cancer (2009)

International Journal of Cancer (2009)

Journal of Clinical Epidemiology (2008)

Quality of Life Research (2008)

**OTHER SERVICE**

*National*

2015-present Steering Committee, National Cancer Institute’s Consortium for Molecular Characterization of Screen-Detected Lesions

2012-present Steering Committee, National Cancer Institute’s PROSPR consortium (Population-based Research to Optimize Screening with Personalized Regimens)

2011-present Steering Committee, Breast Cancer Surveillance Consortium

2016 Poster judge, 2016 Annual Meeting of the American Society of Preventive Oncology

2014-2016 Executive committee, American Society of Preventive Oncology

2014-2016 Chair, Junior Members Interest Group, American Society of Preventive Oncology

2015 Annual meeting abstract reviewer, Society for Epidemiologic Research

2014 Planning Committee, spring and fall 2014 meetings of the National Cancer Institute’s PROSPR consortium (Population-based Research to Optimize Screening with Personalized Regimens)

2014 Poster judge, 2014 Annual Meeting of the American Society of Preventive Oncology

2013 Program Committee, 2013 Annual Meeting of the American Society of Preventive Oncology

2013 Vice-Chair, Junior Members Interest Group, American Society of Preventive Oncology

2013 Poster judge, 2013 Annual Meeting of the American Society of Preventive Oncology

2013 Planning Committee, spring 2013 semi-annual meeting of the National Cancer Institute’s PROSPR consortium (Population-based Research to Optimize Screening with Personalized Regimens)

2012 Chair, Junior Members Career Panel: “Careers in Cancer Prevention: What you may not see from inside your academic department”, American Society of Preventive Oncology Annual Meeting

2008-2012 Annual meeting abstract reviewer, Society for Epidemiologic Research

2011 Co-chair, Junior Members Career Panel: “The Business of Research: Budgets, Personnel, Planning and Pitfalls”, American Society of Preventive Oncology Annual Meeting

2010 Co-chair, Junior Members Career Development Seminar: “Keys to Success in Finding and Negotiating a Position in Preventive Oncology”, American Society of Preventive Oncology Annual Meeting

*Regional*

2016-present Member, Advisory Committee, National Cancer Institute’s Geographic Management of Cancer Health Disparities Program, Region 1 North.

2012-present Director, Vermont Mammography Registry, University of Vermont

2013-2016 Member, Access to Care Task Force, Vermonters Taking Action Against Cancer

*University*

2016-present Member, Health Services Research Working Group, Larner College of Medicine, University of Vermont

2016-present Radiology Research Committee, Department of Radiology, University of Vermont

2016-present Surgical Senior Majors Research Committee, Department of Surgery, Univeristy of Vermont

2013-present Program co-leader, Cancer Control and Population Health Sciences, University of Vermont Cancer Center

2013-present Member, Vermont Cancer Center/Lake Champlain Cancer Research Organization Scientific Review Committee

2011-present Surgical Research Committee, Department of Surgery, University of Vermont

2017 Member, Strategic Faculty Committee for Academic Structure & Funding of Basic Science Research, Larner College of Medicine, University of Vermont

2016-2017 Member, Surgical Oncologist Tenure-Track Professor Search Committee, Department of Surgery, University of Vermont

2016-2017 Member, Breast Imaging Specialist Clinical Scholar Professor Search Committee, Department of Radiology, University of Vermont

2016 Member, Molecular Epidemiologist Tenure-Track Professor Search Committee, Department of Surgery, University of Vermont

2014-2016 Faculty Senate, University of Vermont

2014-2016 Scientific Advisory Committee, University of Vermont Clinical Research Center

2013 Chair, Molecular Epidemiologist Research Professor Search Committee, Department of Surgery, University of Vermont

2010 Co-leader, Cancer Control Research Group Weekly Meeting, University of Wisconsin Carbone Cancer Center

2008-2009 Curriculum Committee Student Representative, Department of Population Health Sciences, University of Wisconsin

2008 Graduate Luncheon Planning Committee, Department of Population Health Sciences, University of Wisconsin

2007 Poster Session Planning Committee, Department of Population Health Sciences, University of Wisconsin

2006-2007 New student mentor, Department of Population Health Sciences, University of Wisconsin