

CURRICULUM VITAE
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EDUCATION

2011	PhD	Epidemiology, Johns Hopkins University
2003	SM	Epidemiology, Harvard University
2000	BS	Evolutionary Biology and Ecology, Tulane University

PROFESSIONAL EXPERIENCE

2023-	Professor, Department of Epidemiology, University of North Carolina Gillings School of Global Public Health
2022-	Cancer Epidemiology Program Co-Leader, UNC Lineberger Comprehensive Cancer Center
2022-	Director, Translational Research Support Core UNC Center for Environmental Health and Susceptibility
2019-2023	Associate Professor with tenure, Department of Epidemiology, UNC Gillings School of Global Public Health
2018-	Division Head, Cancer Survivors' Health Division UNC Institute of Environmental Health Solutions
2014-2019	Assistant Professor, Department of Epidemiology, University of North Carolina Gillings School of Global Public Health
2014-	Member, Lineberger Comprehensive Cancer Center University of North Carolina at Chapel Hill
2011-2013	Research Fellow, Epidemiology Branch, National Institute of Environmental Health Sciences (NIEHS), National Institutes of Health, Research Triangle Park, NC
2009-2010	Research Assistant, Department of Epidemiology, Johns Hopkins

Bloomberg School of Public Health, Baltimore, MD

- 2009-2010 Research Assistant, RTI International, Research Triangle Park, NC
- 2009 Summer Fellow, Radiation Epidemiology Branch, Division of Cancer Epidemiology & Genetics, National Cancer Institute (NCI), National Institutes of Health, Bethesda, MD
- 2006-2007 Associate Researcher, Cancer Epidemiology Group, University of Wisconsin Paul P. Carbone Comprehensive Cancer Center, Madison, WI
- 2003-2006 Assistant Researcher, Cancer Epidemiology Group, University of Wisconsin Paul P. Carbone Comprehensive Cancer Center, Madison, WI
- 2004-2005 Project Director, Survey Research Shared Service, University of Wisconsin Paul P. Carbone Comprehensive Cancer Center, Madison, WI
- 2000-2001 Research Associate, New England Centenarian Study, Beth Israel Deaconess Medical Center/Harvard Division on Aging, Boston, MA

HONORS

- 2014 Early Career Investigator Award, HMO Research Network Annual Conference, Phoenix, AZ
- 2013 Electra Paskett Annual Scholarship Award to participate in the 37th Annual Meeting of the American Society of Preventive Oncology, Memphis, TN
- 2010 AACR Translational Research Scholars scholarship to participate in the 33rd Annual CTSC-AACR San Antonio Breast Cancer Symposium
- 2010 Doctoral Thesis Research Fund Award
Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health
- 2010 Travel and registration award to participate in the New Investigators Workshop American Society of Preventive Oncology Annual Meeting, Bethesda, MD
- 2009-2011 Cancer Epidemiology, Prevention and Control Training Fellowship
Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health
- 2009 Cancer Research Training Award
National Cancer Institute, Division of Cancer Epidemiology and Genetics
- 2009 Carol Eliasberg Martin Scholarship in Cancer Prevention
Johns Hopkins Bloomberg School of Public Health

- 2009 Travel and registration award to participate in the Student Dissertation Workshop Society for Epidemiologic Research Annual Meeting, Anaheim, CA
- 2008 Harvey M. Meyerhoff Fellowship in Cancer Prevention
Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health
- 2007-2008 Mary B. Meyer Scholar, Department of Epidemiology
Johns Hopkins Bloomberg School of Public Health
- 2006 Professional Development and Recognition Grant to participate in the Annual Meeting of the American Society of Preventive Oncology, University of Wisconsin, Madison
- 2004 Executive Education Grant to enroll in the School of Business course, “Project Management: Planning, Scheduling and Control”
University of Wisconsin, Madison

MEMBERSHIPS

American Association for Cancer Research, Associate Member 2010-2013, Member 2021-
American College of Epidemiology, Associate Member 2009-2013
American Society of Clinical Oncology, Doctoral Scientist Membership 2015
American Society of Preventive Oncology, 2008-
Society for Epidemiologic Research, 2005-2017

BIBLIOGRAPHY

Original research papers * Denotes trainee work for which H. Nichols was the primary mentor
† Denotes authors who contributed equally as first or last authors

1. Brown JA*, Olshan AF, Bae-Jump VL, Ogunleye AA, Smith S, Black-Grant S, **Nichols HB**. Lymphedema self-assessment among endometrial cancer survivors. *Cancer Causes Control*. 2023 *In press*
2. Crawford B, Steck SE, Sandler DP, **Nichols HB**, Milne GL, Park YM. Association between healthy dietary patterns and markers of oxidative stress in the Sister Study *Eur J Nutrition*. 2023 *In press*
3. Yarosh R*, Jackson CL, Anderson C, **Nichols HB**, Sandler DP. Sleep disturbances among cancer survivors. *Cancer Causes Control*. 2023 *In press*
4. Timmins IR, Jones ME, O’Brien K, Adami H, Aune D, Baglietto L, Bertrand KA, Brantley KD, Chen Y, DeHart JC, Clendenen TV, Dossus L, Eliassen AH,

Fletcher O, Fournier A, Håkansson N, Hankinson SE, Houlston RS, Joshu CE, Kirsh VA, Kitahara CM, Koh W, Linet MS, Park HL, Lynch BM, May A, Mellekjær L, Milne RL, Palmer JR, Ricceri F, Rohan TE, Ruddy KJ, Sánchez M, Shu X, Smith-Byrne K, Steindorf K, Sund M, Vachon CM, Vatten LJ, Visvanathan K, Weiderpass E, Willett WC, Wolk A, Yuan J, Zheng W, Nichols HB†, Sandler DP †, Swerdlow AJ †, Schoemaker MJ †. An international pooled analysis of leisure-time physical activity and premenopausal breast cancer in 540,000 women from 19 cohorts. *J Clin Oncol*. 2023 *In press*

5. Waters AR, Kent EE, Meernik C, Getahun D, Laurent CA, Xu L, Mitra S, Kushi LH, Chao C, **Nichols HB**. Financial hardship differences by LGBTQ+ status among assigned female at birth adolescent and young adult cancer survivors: A mixed methods analysis. *Cancer Causes Control*. 2023 Nov;34(11):973-981. PMID: 37392265
6. Hoover RL, Xu J, Conklin J, Nichols HB, Smitherman A, Valle CG, Schwartz T, Mayer DK, Hirshey R. Physical activity intervention characteristics and effects on behavioral and health-related outcomes among adolescents and young adults living with and beyond cancer: A systematic review. *J Adolesc Young Adult Oncol*. 2023 Sep 8 PMID: 37682344
7. Anderson C, Peery A, Bae-Jump V, Brewster W, Lund JL, Olshan AF, **Nichols HB**. Gastrointestinal outcomes among older women with endometrial cancer. *Gynecol Oncol*. 2023 Aug;175:114-120 PMID: 37354788
8. Wong E, Lupo PJ, Desrosiers TA, **Nichols HB**, Smith SM, Poole C, Canfield M, Shumate C, Chambers TM, Schraw JM, Nembhard WN, Yazdy MM, Nestoridi E, Janitz AE, Olshan AF. Associations between birth defects with neural crest cell origins and pediatric embryonal tumors. *Cancer* 2023 Nov 15;129(22):3595-3602 PMID: 37432072 PMCID: PMC10615683
9. Meernik C, Dorfman C, Zullig LL, Lazard A, Fish L, **Nichols HB**, Oeffinger K, Akinyemiju T. Healthcare access barriers and self-reported health among adolescent and young adult cancer survivors. *J Adolesc Young Adult Oncol*. 2023 June 12. PMID: 37307018
10. Tan KR*, Meernik C, Anderson C, Deal AM, Engel S, Getahun D, Kent EE, Kirchhoff AC, Kwan ML, Mitra S, Park EM, Smitherman AS, Chao CR, Kushi L, **Nichols HB**. Caring for children in relation to financial hardship, advance care planning, and genetic testing among adolescent and young adult women with cancer. *J Adolesc Young Adult Oncol*. 2023 June 1. PMID: 37262185
11. **Nichols HB**, House MG, Yarosh R, Mitra S, Goldberg M, Bertrand KA, Eliassen AH, Giles GG, Jones M, Milne RL, O'Brien KM, Palmer JR, Sandin S, Willett WC, Yin W, Sandler D, Swerdlow AJ, Schoemaker MJ, Hypertensive conditions of pregnancy, preterm birth, and premenopausal breast cancer risk: A Premenopausal

Breast Cancer Collaborative Group analysis. *Breast Cancer Res Treat.* 2023 Jun;199(2):323-334. PMID: 37020102

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13. Jorgensen K, Meernik C, Wu C, Murphy CC, Baker VL, Jarmon P, Brady PC, Nitecki R, **Nichols HB**, Rau-Hain JA. Disparities in fertility-sparing treatment and use of assisted reproductive technology after a diagnosis of cervical, ovarian, or endometrial cancer. *Obstet Gynecol.* 2023 Feb 1;141(2):341-352 PMID: 36649345 PMCID: PMC9858239
14. Meernik C*, Engel SM, Baggett CD, Wardell A, Zhou X, Ruddy KJ, Wantman E, Baker VL, Luke B, Mersereau JE, Cai J, Olshan AF, Smitherman AB, **Nichols HB**. Time to cancer treatment and reproductive outcomes after fertility preservation among adolescent and young adult women with cancer. *Cancer.* 2023 Jan 15;129(2):307-319. PMID: 36316813
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23. Gaber CE, Shaheen NJ, Sandler RS, Edwards JK, **Nichols HB**, Sanoff HK, Lund JL. Patterns of care amongst older adults diagnosed with locally advanced esophageal cancer: A cohort study. *J Geriatr Oncol*. 2022 Nov;13(8):1178-1187. PMID: 36008272
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pepsinogen. *Cancer Epidemiol Biomarkers Prev.* 2022 Apr 1;31(4):811-820.
PMID: 35131882 PMCID: PMC8983566

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hormone concentration in healthy premenopausal women. *J Clin Endocrinol Metab.* 2021 Oct 21;106(11):e4542-e4553. PMID: 34157104 PMCID: PMC8530718

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Sister Study. JNCI Cancer Spectr. 2021 Mar 17. PMID: 34104865 PMCID: PMC8178802

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160. Bradshaw PT, **Nichols HB**, Caan BJ. Re: Weight gain after breast cancer diagnosis and all-cause mortality: Systematic review and meta-analysis. *J Natl Cancer Inst.* 2016 Mar 1;108(4):djw023. PMID: 26933008 PMCID: PMC6281042
161. Ochs-Balcom HM, Phillips LS, **Nichols HB**, Martinez E, Thompson B, Ojeifo J, Rebbeck TR. Building a funded research program in cancer health disparities: Considerations for young investigators. *Cancer Epidemiol Biomarkers Prev.* 2015 May;24(5):882-885. PMID: 25934837 PMCID: PMC4418019
162. **Nichols HB**, Sprague BL, Buist DSM, Erwin DO, Leach CR, Patrick H. Careers in cancer prevention: What you may not see from inside your academic department- A report from the American Society of Preventive Oncology's Junior Members Interest Group. *Cancer Epidemiol Biomarkers Prev.* 2012 Aug;21(8):1393-1395. PMID: 22695736

In revision

Park J*, Lund JL, Kent E, Anderson C, Olshan A, Brewster W, **Nichols HB**. Adjuvant radiation therapy and mortality in older women with early-stage endometrial

cancer: A US population-based study using the SEER-Medicare linkage. *Pharmacoepidemiol Drug Saf*, 24 pages.

Lazard AJ, Vereen RN, Zhou J, **Nichols HB**, Pulido M, Swift C, Dasgupta N, Fredrickson BL. Positive psychology intervention messages adapted for social media are acceptable, feasible, and anticipated to raise positive emotions and feelings of social connection among young adults with cancer. *Journal of Medical Internet Research*, 20 pages.

Submitted

Figueroa Gray MS, Shapiro L, Dorsey CN, Randall S, Casperson M, Chawla N, Zebrack B, Fujii MM, Hahn EE, Keegan THM, Kirchhoff AC, Kushi LH, **Nichols HB**, Wernli KJ, Sauder CAM, Chubak J. A patient-centered conceptual model of AYA cancer survivorship care.

Rodriguez-Ormaza NP*, Delamater PL, Wheeler SB, Troester MA, Bagget CD, Meernik C, Mersereau JE, Wantman E, Baker VL, **Nichols HB**. Geographic access to fertility specialty care among adolescent and young adult women with cancer in North Carolina.

Mannion S, Higgins A, Larson N, Stewart EA, Khan Z, Shenoy C, **Nichols HB**, Su HI, Partridge AH, Loprinzi CL, Couch F, Olson JE, Ruddy KJ. Prevalence and impact of fertility concerns in young women with breast cancer.

Olsson LT, Hamilton AM, Van Alsten SC, Lund JL, Stürmer T, **Nichols HB**, Reeder-Hayes KE, Troester MA. Patterns of Chemotherapy Receipt among Patients with Hormone Receptor-Positive, HER2-Negative Breast Cancer

Invited talks

Reproductive health and cancer survivorship: Research approaches in AYA and gynecologic oncology. University of Chicago. Chicago, IL October 11, 2023

Cancer survivorship across the lifespan. Division of Cancer Epidemiology and Genetics Seminar Series, National Cancer Institute. May 4, 2023

The Carolina Endometrial Cancer Study. Approaches to Curtail Endometrial Cancer Incidence and Mortality Meeting, Memorial Sloan Kettering, NY, NY. April 24, 2023

Endometrial cancer survivorship. Epidemiology Seminar Series, University of Washington School of Public Health. April 11, 2023

Population science and cancer survivorship. Institute of Environmental Health Sciences (IEHS) and Center for Urban Responses to Environmental Stressors (CURES)

Seminar Series, Wayne State University, Detroit, MI. December 9, 2021

Pregnancy after cancer. O'Neal Comprehensive Cancer Center at the University of Alabama at Birmingham. October 21, 2020

Cancer and parenthood. National Cancer Institute Cancer Prevention Fellowship Program's Cancer Prevention and Control Colloquia Series. Rockville, MD, February 4, 2020

Breast cancer risk after childbirth. Annual Conference of the Foundation for Reproductive Medicine. New York, NY, Nov 22, 2019

Cancer at reproductive ages. Obstetrics & Gynecology Grand Rounds, University of Utah, Salt Lake City, UT, May 30, 2019

Breast cancer in reproductive age women. Memorial Sloan Kettering Cancer Center, New York, NY, May 23, 2019

Childbirth after adolescent and young adult cancer in North Carolina. Pediatrics Grand Rounds. University of Minnesota, Minneapolis, MN, February 27, 2019

Recent childbirth and breast cancer risk. The Center for Human Reproduction, New York, NY. February 5, 2019.

Fertility after cancer in a population-based study. Huntsman Cancer Institute, University of Utah, Salt Lake City, UT, May 8, 2018.

Reproductive health after Adolescent and Young Adult (AYA) Cancer. Columbia University, New York, NY, April 20, 2018.

Cancer and pregnancy. North Carolina State University. Raleigh, NC, February 7, 2017.

Breast cancer and women's reproductive health. National Institute of Environmental Health Sciences. Research Triangle Park, NC, June 22, 2015.

Breast cancer and the reproductive lifespan. Obstetrics & Gynecology Grand Rounds, University of North Carolina Chapel Hill, NC, February 18, 2015.

Breast cancer prevention among high-risk women. University of Wisconsin-Madison, February 17, 2014.

Cancer risk reduction strategies and long-term health. University of North Carolina Chapel Hill, NC, February 13, 2013.

Premenopausal hormonal exposures and breast cancer. National Institute of Child Health & Human Development, Rockville, MD, March 5, 2012.

Bilateral oophorectomy, estrogen therapy and postmenopausal breast cancer. National Institute of Environmental Health Sciences, Research Triangle Park, NC, April 27, 2011.

Gynecologic surgery, estrogen therapy, and postmenopausal breast cancer. Morgan State University, Baltimore, MD, February 9, 2011.

Select oral presentations from submitted abstracts

Meernik C, Poole C, Engel S, Peavey M, Luke B, **Nichols HB**. Outcomes after controlled ovarian stimulation and embryo transfer in women with cancer: A systematic review and meta-analysis. Society for Pediatric and Perinatal Epidemiologic Research (SPER) Annual Meeting, Jun 2021.

Meernik C*, Sandler DP, Peipins LA, Hodgson ME, Wheeler SB, Weinberg CR, **Nichols HB**. Employment disruption after breast cancer diagnosis and financial burden in the Sister and Two Sister Studies. Annual meeting of the American Society of Preventive Oncology, March 2020.

Anderson C, **Nichols HB**. Trends in late mortality among adolescent and young adult cancer survivors. Annual meeting of the American Society of Preventive Oncology, March 2020.

Luke B, Brown MB, Wantman E, Meyer RE, Foresteri N, Watkins S, Yazdy M, Browne M, Fisher S, Canfield MA, Ethen M, **Nichols HB**, Oehninger S, Doody K. Risk of birth defects by method of conception: A U.S. study in four states. Annual meeting of the American Society for Reproductive Medicine; Denver, CO; 2018 Oct.

Anderson C*, Smitherman AB, **Nichols HB**. Mortality disparities after adolescent and young adult cancer. Annual Meeting of the American Society of Preventive Oncology. New York, NY 2018 Cancer Epidemiol Biomarkers Prev.

Nichols HB, Anderson C, Black KZ, Engel S, Mersereau J. Birth rates after adolescent and young adult cancer in North Carolina, 2000-2014. **Nichols HB**, Anderson C, Black KZ, Engel S, Mersereau J. Annual Meeting of the American Society of Preventive Oncology. Seattle, WA 2017 Cancer Epidemiol Biomarkers Prev.

Anderson C*, Engel S, Black KZ, Mersereau J, **Nichols HB**. Birth outcomes after AYA cancer diagnosis. Global AYA Cancer Congress. Edinburgh, Scotland; 2016 Dec.

White AJ, D'Aloisio AA, **Nichols HB**, DeRoo LA, Sandler DP. Active smoking and environmental tobacco smoke exposure during potential windows of susceptibility in relation to breast cancer. Annual Meeting of the American Society of Preventive Oncology. Memphis, TN; 2016 Cancer Epidemiol Biomarkers Prev.

Nichols HB, Baird DD, Stanczyk FZ, Steiner AZ, Troester MA, Whitworth KW, Sandler DP. Anti-Müllerian hormone concentrations in premenopausal women and breast cancer risk. Annual Meeting of the Society for Epidemiologic Research. Denver, CO; 2015 Jun 17.

Nichols HB, Bowles EA, Tran D, Buist DS. Trends in estrogen receptor testing and tamoxifen initiation after ductal carcinoma *in situ* (DCIS) during 1996-2011. Annual Meeting of the HMO Research Network. Long Beach, CA; 2015 Mar 13.

Nichols HB, DeRoo L, Scharf D, Sandler DP. Discontinuation of tamoxifen for primary prevention of breast cancer in the Sister Study observational cohort. Annual Meeting of the HMO Research Network. Phoenix, AZ; 2014 Apr 1.

Nichols HB, Sandler DP, DeRoo L, Xu Z, Taylor J. Hormonal risk factors for breast cancer and DNA methylation. Annual Meeting of the American Society of Preventive Oncology. Memphis, TN; 2013 March 11. Abstract published in: *Cancer Epidemiol Biomarkers Prev.* 22(3): 471-2.

Nichols HB, DeRoo LA, Sandler DP. Characteristics associated with tamoxifen use for chemoprevention after age 50: Results from the Sister Study. Annual Meeting of the Society for Epidemiologic Research. Minneapolis, MN 2012 June 28. Abstract published in: *Am J Epidemiol.* 175(11): S45.

Nichols HB, Visvanathan K, Newcomb PA, Hampton JM, Egan KM, Titus-Ernstoff L, Trentham-Dietz A. Bilateral oophorectomy and ductal carcinoma *in situ*. Annual Meeting of the American Society of Preventive Oncology. Las Vegas, NV; 2011 March 8.

Nichols HB, Trentham-Dietz A, Egan KM, Titus-Ernstoff L, Holmes MD, Bersch AJ, Holick CN, Hampton JM, Stampfer MJ, Willett WC, Newcomb PA. Body mass index before and after breast cancer diagnosis: Associations with all-cause, breast cancer, and cardiovascular disease mortality. Best of Cancer Epidemiology, Biomarkers and Prevention (CEBP) session of the Annual Meeting of the American Society of Preventive Oncology. Las Vegas, NV; 2011 March 7.

Nichols HB, Trentham-Dietz A, Hampton J, Titus-Ernstoff L, Egan K, Newcomb P. From menarche to menopause: Trends among US women born 1908-1976. Annual Meeting of the Society for Epidemiologic Research. Salt Lake City, UT; 2004 June. Abstract published in: *Am J Epidemiol.* 159(11): S75.

Select poster presentations

Waters A, Kent EE, Meernik C, Getahun D, Laurent CA, Xu L, Mitra S, Kushi LH, Chao C, **Nichols HB**. Financial Hardship Differences by LGBTQ+ Status among Assigned Female at Birth Adolescent and Young Adult Cancer Survivors: A Mixed Methods Analysis. 5th Global Adolescent and Young Adult Cancer

Congress; Long Beach, California, June 20-23, 2023.

Hoover R, Xu J, Conklin J, **Nichols HB**, Smitherman A, Valle CG, Schwartz T, Mayer DK, Hirschey R. Physical Activity Intervention Characteristics and Effects on Behavioral and Health-Related Outcomes among Adolescent and Young Adults Living with Cancer: A Systematic Review. Oncology Nursing Society 48th Annual Congress, 2023, Apr 26-30 San Antonio, TX

Brown JA, Olshan AF, Peery AF, Bae-Jump VL, **Nichols HB**. Self-Collection of Microbiome Samples and Leg Circumference Measurements among Endometrial Cancer Survivors: A Pilot Study. American Society of Preventive Oncology Annual Meeting, 2023 Mar 12-14; San Diego, CA

Nichols HB, Wardell A, Deal A, Wantman E, Mersereau J, Spandorfer S, Murugappan G, Baker V, Anders C, Mitra S, Green L, Cai J, Luke B. Fertility treatment involving gestational carriers after cancer. American Society of Preventive Oncology Annual Meeting, 2023 Mar 12-14; San Diego, CA

Anderson C*, Olshan AF, Park J, Bae-Jump V, Brewster WR, Lund JL, **Nichols HB**. Adverse urinary system outcomes among older women with endometrial cancer. American Society of Preventive Oncology Annual Meeting, 2022 Mar 13-15; Tucson, AZ

Anderson C*, Bae-Jump VL, Broaddus RR, Olshan AF, **Nichols HB**. Long-term patterns of excess mortality among endometrial cancer survivors. American Society of Preventive Oncology Annual Meeting; 2021 July 16-18

Yarosh R*, Jackson C, Anderson C, Sandler DP, **Nichols HB**. Sleep Disturbances Among Cancer Survivors. Society of Epidemiologic Research Annual Meeting; 2022 June 14-17.

Meernik C*, Poole C, Engel S, Peavey M, Luke B, **Nichols HB**. Outcomes after controlled ovarian stimulation and embryo transfer in women with cancer: A systematic review and meta-analysis. Society for Epidemiologic Research Annual Meeting; 2021 Jun 22-25

Anderson C, Mayer DK, **Nichols HB**. Trends in the proportion of second or higher-order primaries among all newly diagnosed malignant cancers. Cancer Center Survivorship Research Forum, Annual Meeting; 2021 Apr 15-16

Meernik C*, Mersereau J, Baggett C, Engel S, Moy L, Cannizarro N, Peavey M, Kushi L, Chao C, **Nichols HB**. Fertility preservation and financial hardship among female adolescent and young adult cancer survivors. Cancer Center Survivorship Research Forum; 2021 Apr 15-16

Dejene SZ, Park J, Mayer SE, Kinlaw A, **Nichols HB**, Jonsson Funk M, Virginia Pate V,

- Park EM, Reeder-Hayes KE, Lund JL. Antidepressant use and adherence among breast cancer patients using tamoxifen. International Conference on Pharmacoepidemiology & Therapeutic Risk Management; 2020, September 16-17
- Park J, Dejene SZ, Mayer SE, Kinlaw A, **Nichols HB**, Jonsson Funk M, Pate V, Park EM, Reeder-Hayes KE, Lund JL. Antidepressant dispensing among women with breast cancer, United States, 2001-2018. International Conference on Pharmacoepidemiology & Therapeutic Risk Management; 2020, September 16-17
- Meernik C*, Kirchoff A, Anderson C, Edward TP, Deal A, Baggett C, Kushi L, Chao C, **Nichols HB**. Disruption of employment due to cancer leads to adverse financial outcomes for female young adult cancer survivors. Preliminary analysis presented at the Annual meeting of the Society of Epidemiologic Research, Minneapolis, MN; June 2019; Subsequent analysis presented at the American Public Health Association Annual Meeting; 2019 Nov 2-6; Philadelphia, PA.
- Anderson C*, Baggett C, Radhakrishnan S, Rao C, Kushi L, Chao C, **Nichols HB**. Validity of state cancer registry treatment information for adolescent and young adult women. North American Association of Central Cancer Registries (NAACCR)-International Association of Cancer Registries (IACR) conference, Vancouver, British Columbia, Canada; June 8-13, 2019
- Hsu C, Lund JL, **Nichols HB**. Polypharmacy risk among five-year cancer survivors. American Society of Clinical Oncology Annual Meeting, Chicago, IL; May 31-June 4, 2019.
- Anderson C*, **Nichols HB**, House M, Sandler DP. Pily history of breast cancer. Annual Meeting of the American Society of Preventive Oncology. Tampa, FL; 2019 Mar.
- Luke B, Brown MB, Wantman E, Meyer RE, Foresteri N, Watkins S, Yazdy M, Browne M, Fisher S, Canfield MA, Ethen M, **Nichols HB**, Oehninger S, Doody K. Risk of cancer in children with birth defects and effect of IVF contraception. Annual meeting of the American Society for Reproductive Medicine; Denver, CO; 2018 Oct.
- Luke B, Brown MB, Wantman E, Meyer RE, Foresteri N, Watkins S, Yazdy M, Browne M, Fisher S, Canfield A, Ethen M, **Nichols HB**, Oehninger S, Doody K. Risk of blastogenesis birth defects in IVF, non-IVF ART, and fertile births. Annual meeting of the American Society for Reproductive Medicine; Denver, CO; 2018 Oct.
- Niehoff NM, **Nichols HB**, Zhao S, White AJ, Sandler DP. Impact of family history risk score on associations between breast cancer and physical activity in adulthood. Annual Meeting of the American Society of Preventive Oncology. New York, NY; 2018 Mar.

Nichols HB, Graff M, Bensen J, O'Brien KM, Troester M, Williams LA, Young K, Hong C, Yao S, Haiman C, Lunetta K, Ruiz-Narváez EA, Palmer J, Ambrosone C, Olshan A. Genetic variants in anti-Müllerian hormone-related genes and breast cancer risk: Results from the AMBER consortium. Annual Meeting of the Society for Epidemiologic Research. Seattle, WA; 2017 June.

C Anderson*, AB Smitherman, SM Engel, **HB Nichols**. Preterm birth among survivors of adolescent and young adult cancers compared to the general population: An evaluation of effect modification. Annual Meeting of the Society for Epidemiologic Research. Seattle, WA; 2017 June.

Rodriguez JL, Peipins L, Weinberg C, Hawkins NA, DeRoo L, **Nichols HB**, Hodgson E, White M, Sandler DP. Factors associated with utilization of genetic counseling and *BRCA 1/2* testing among women with a family history of breast cancer: Results from the Sister Study. Annual Meeting of the American Public Health Associations. Atlanta, GA; 2017

White AJ, Weinberg CR, Park Y, D'Aloisio AA, Vogtman E, Halverson S, **Nichols HB**, Sandler DP. Sleep characteristics and breast cancer risk in a prospective cohort. Annual Meeting of the American Society of Preventive Oncology. Seattle, WA; 2017 Mar.

Smitherman AB, Mohabir D, Wilkins TM, Blatt J, **Nichols HB**, Dusetzina S. Early post-therapy prescription drug usage among survivors of childhood cancers. Cancer Survivorship Symposium: Advancing Care and Research. San Diego, CA; 2017 Jan.

Smitherman A*, Anderson C, Benson JT, Lux L, **Nichols HB**. Comorbidity burden among AYAs in the University of North Carolina Cancer Survivorship Cohort. Global Adolescent and Young Adult Cancer Congress. Edinburgh, Scotland; 2016 Dec.

Landi SN*, Doll KM, Bensen JT, Hendrix L, Anders CK, Wu JM, **Nichols HB**. Urogenital and Sexual Side Effects of Endocrine Therapy among Women with a Breast Cancer Diagnosis. 8th Biennial Cancer Survivorship Research Conference; Washington, DC; 2016 June.

Park YM, White AJ, **Nichols HB**, Sandler DP. The association between metabolic health and the risk of breast cancer differs by menopausal status at diagnosis. Epidemiology Congress of the Americas. Miami, FL; 2016 June.

Black KZ, **Nichols HB**, Rowley DL. Risk of preterm and low birthweight delivery after diagnosis among young breast cancer survivors. Epidemiology Congress of the Americas. Miami, FL; 2016 June.

Black KZ, **Nichols HB**, Rowley DL. The prevalence of adverse birth outcomes among

premenopausal breast cancer survivors Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research. Miami, FL; 2016 June

Nichols HB, Stürmer T, Roh JM, Lee JX, Visvanathan K, Anderson C, Lee VS, Kushi LH. Breast cancer chemoprevention in an integrated healthcare setting. Annual Meeting of the American Society of Preventive Oncology. Columbus, OH; 2016 March.

Nichols HB, Anderson C, White AJ, Milne GL, Sandler DP. Oxidative stress and premenopausal breast cancer. Annual Meeting of the American Society of Preventive Oncology. Columbus, OH; 2016 March.

Nichols HB, Schoemaker M, Sandler D, Swerdlow A. Premenopausal Breast Cancer Collaborative Group. Annual Meeting of the NCI Cohort Consortium. Bethesda, MD; 2015 November.

Nichols HB, Visvanathan K, Lee VS, Roh JM, Lee JX, Stürmer T, Kushi LH Validation of endocrine therapy indication to identify breast cancer chemoprevention: A feasibility study. International Conference on Pharmacoepidemiology & Therapeutic Risk Management (ICPE). Boston, MA; 2015 August.

Nichols HB, Rodriguez J, Hawkins N, Sabatino S, Lee C, Sandler DP. Mastectomy and reconstruction after breast cancer diagnosis among women with a family history of breast cancer. Biennial Cancer Survivorship Research Conference. Atlanta, GA; 2014 June.

Nichols HB, DeRoo LA, Kissling GE, Baird DD, Sandler DP. Does tubal ligation alter ovarian function and impact breast cancer risk? Annual Meeting of the American Society of Preventive Oncology. Washington, DC; 2012 March.

Nichols HB, Trentham-Dietz A, Newcomb P, Egan K, Titus-Ernstoff L, Hampton J, Visvanathan K. Prediagnosis hysterectomy and estrogen therapy in relation to mortality after breast cancer. Annual CTRC-AACR San Antonio Breast Cancer Symposium. San Antonio, TX; 2010 December. Abstract published in: Cancer Res. 70(24 Suppl.):278s.

Nichols HB, Trentham-Dietz A, Newcomb P, Titus-Ernstoff L, Egan K, Hampton J, Remington P, Visvanathan K. Breast cancer risk according to estrogen use after complete hysterectomy. Annual Meeting of the Society for Epidemiologic Research. Anaheim, CA; 2010 June. Abstract published in: Am J Epidemiol. 171: S23.

Nichols HB, Trentham-Dietz A, Newcomb P, Titus-Ernstoff L, Egan K, Hampton J, Remington P, Visvanathan K. Breast cancer risk according to estrogen use after complete hysterectomy. Johns Hopkins University School of Medicine and Sidney Kimmel Comprehensive Cancer Center Fellow Research Day. Baltimore, MD;

2010 May. Awarded Honorable Mention for Clinical/Translational Research.

Nichols HB, Visvanathan K, Newcomb PA, Hampton JM, Egan KM, Titus-Ernstoff L, Trentham-Dietz A. Bilateral oophorectomy and breast cancer: Confounding by non-malignant indications for surgery? Annual Meeting of the American Association for Cancer Research. Washington, DC; 2010 April.

Nichols HB, Berrington de Gonzalez A, Rosenberg P, Lacey JV, Anderson WF. Temporal trends in contralateral breast cancer among U.S. women, 1973-2006. Annual Meeting of the American Society of Preventive Oncology. Bethesda, MD; 2010 March.

Nichols HB, Berrington de Gonzalez A, Lacey J, Rosenberg P, Anderson W. Contralateral breast cancer in the Surveillance, Epidemiology and End Results database, 1973-2006. National Institutes of Health Summer Research Program Poster Day. Bethesda, MD; 2009 August.

Sprague BL, Trentham-Dietz A, Newcomb PA, **Nichols HB**, Hampton JM. Health-related behaviors before and after a diagnosis of breast carcinoma *in situ*. Annual Meeting of the American Society of Preventive Oncology. Tampa, FL; 2009 March.

Nichols HB, Trentham-Dietz A, Newcomb PA, Titus-Ernstoff L, Holick C, Egan K. Post-diagnosis weight change, body mass index, and breast cancer survival. Annual Frontiers in Cancer Prevention Research Meeting of the American Association for Cancer Research. Philadelphia, PA; 2007 December.

Shadman M, Newcomb PA, Wernli K, Hampton JM, **Nichols HB**, Trentham-Dietz A. Statins, NSAIDs and Colorectal Cancer Risk in Women Annual Frontiers in Cancer Prevention Research Meeting of the American Association for Cancer Research. Philadelphia, PA; 2007 December.

Nichols HB, Trentham-Dietz A, Egan KM, Titus-Ernstoff L, Hampton JM, Newcomb PA. Oral contraceptive use and risk of breast carcinoma *in situ*. Annual Meeting of the American Society of Preventive Oncology. Houston, TX; 2007 March.

Kirchhoff AC, Newcomb PA, Trentham-Dietz A, Hampton JM, **Nichols HB**. Family history and colorectal cancer survival in women. Annual Meeting of the American Society of Preventive Oncology. Houston, TX; 2007 March.

Nichols HB, Trentham-Dietz A, Hampton JM, Newcomb PA. Birth order, maternal age and breast cancer risk among breastfed women. Annual Meeting of the Society for Epidemiologic Research. Seattle, WA; 2006 June. Abstract published in: *Am J Epidemiol.* 163(11): S100.

Nichols HB, Trentham-Dietz A, Egan K, Hampton JM, Newcomb PA. First-degree family history of cancer in relation to ovarian cancer risk. 29th Annual Meeting of the

American Society of Preventive Oncology. San Francisco, CA; 2005 March.

Nichols HB, Trentham-Dietz A, Hampton J, Newcomb P. Oral contraceptive use, reproductive factors, and colorectal cancer risk: Findings from Wisconsin. 28th Annual Meeting of the American Society of Preventive Oncology. Bethesda, MD; 2004 March.

Bogan H, Vlahos K, Terry D, Perls T. Age-related disease prevalence is low among centenarians. Annual Meeting of the Gerontological Society of America. Chicago; 2001 November.

Trentham-Dietz A, Newcomb PA, **Nichols HB**, Hampton JM. Risk of second breast cancer according to hormone therapy use among women with carcinoma *in situ* of the breast. Annual Meeting of the American Society of Preventive Oncology. Bethesda, MD; 2008 March.

Terry D, McCormick M, **Bogan H**, Perls T. Familial traits of longevity in children of centenarians: Preliminary findings. Annual Meeting of the American Geriatrics Society. Chicago; 2001 May.

TEACHING RECORD

Courses

- 2021 Co-Instructor, Epidemiologic Research Methods (EPID726)
Department of Epidemiology, UNC Gillings School of Global Public Health
Enrolled students: 33
- 2019 Co-Instructor, Advanced Cancer Epidemiology (EPID775)
Department of Epidemiology, UNC Gillings School of Public Health
Enrolled students: 30
- 2015- Lead Instructor, Cancer Epidemiology: Survivorship and Outcomes (EPID771)
Department of Epidemiology, UNC Gillings School of Public Health
Enrolled students: 12-24

Short courses

- 2016 Lead Instructor, Cancer Epidemiology (No course number)
27th International Summer School of Epidemiology
Institute of Epidemiology and Medical Biometry, Ulm University, Germany
Number of students per section: 12

Guest lecturer

- 2020 Cancer Prevention and Control Seminar (EPID 772), Department of Epidemiology
University of North Carolina Gillings School of Global Public Health
Title: “Family building and financial burden after cancer”
- 2016-2019 Design of Clinical Research Studies (EPID 804), Department of Epidemiology
University of North Carolina Gillings School of Global Public Health
Title: “Case-control studies”
- 2015 Grand Rounds, Department of Obstetrics & Gynecology,
University of North Carolina School of Medicine
Title: “Breast cancer and the reproductive lifespan”
- 2014-2016 Cancer Pathobiology (PATH 725), Department of Pathology & Laboratory
Medicine, University of North Carolina School of Medicine
Title: “Cancer Epidemiology”
- 2014-2017 Cancer Epidemiology and Pathogenesis (EPID 770), Department of Epidemiology
University of North Carolina Gillings School of Global Public Health
Title: “Cancer Screening”
- 2011 Clinical Aspects of Reproductive Health, Department of Population, Family, and
Reproductive Health, Johns Hopkins University
Title: “Epidemiology of Endometrial and Ovarian Cancers”
- 2010 Clinical Aspects of Reproductive Health, Department of Population, Family, and
Reproductive Health, Johns Hopkins University
Title: “Breast Cancer Epidemiology”

Teaching Assistant

- 2010 Teaching Assistant, Methodologic Challenges in Epidemiologic Research (340.754)
Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health
Instructors: M. Daniele Fallin, PhD; Thomas Glass, PhD
Number of students per section: 50+
- 2009 Lead Teaching Assistant, Epidemiologic Methods 2 (340.754)
Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health
Instructors: Eliseo Guallar, DrPH; Lisa Jacobson, ScD
Number of students per section: 90+
- 2009 Teaching Assistant, Epidemiologic Methods 3 (340.753)
Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health
Instructors: Stephen Gange, PhD; Shruti Mehta, PhD
Number of students per section: 30+
- 2008 Teaching Assistant, Epidemiologic Methods 2 (340.752)

Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health
Instructors: Eliseo Guallar, DrPH; Lisa Jacobson, ScD
Number of students per section: 30+

2008 Teaching Assistant, Epidemiologic Methods 1 (340.751)
Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health
Instructors: Jon Samet, MD; Elizabeth Platz, PhD
Number of students per section: 30+

Advising/Mentoring

Summer student

Nicole M. Niehoff; Summer Internship Co-Mentor, NIEHS (Cornell undergraduate) 2013

Epidemiology Master's students

Andrew Smitherman, MD; MSCR Advisor

Completion date: May 2017

Thesis title: Early post-therapy prescription drug usage among childhood and adolescent cancer survivors

Victoria Fitz, MD; MSCR Advisor

Completion date: May 2020

Thesis title: Sexual function among adolescent and young adult cancer survivors

Anna (Caroline) Cochrane, MD; MSCR Advisor

Completion date: May 2022

Thesis title: Patterns in diagnosis, treatment, and birth outcomes observed after cancer diagnosis during pregnancy in a North Carolina cohort.

Meredith Wise, MD, MSCR Advisor

Completion date: May 2023

Thesis title: Pre-diagnosis symptoms reported among endometrial cancer survivors

Christopher Jensen, MD, MSCR Advisor

Completion date: May 2023

Mofi Obadina, MD, MSCR Advisor, 2022-

Master's Committee

Patricia Casbas Hernandez (Epidemiology) 2014

Mya Roberson (Epidemiology) 2018

Epidemiology PhD students

Jordyn Brown; PhD Advisor, UNC 2022-

Taylor Ellington; PhD Advisor, UNC 2023-

Mu Jin; PhD Advisor, UNC 2023-

Doctoral Dissertation Chair

Dongyu Zhang (Epidemiology)

Completion date: August 2018

Thesis title: Tea consumption, oxidative stress, and breast cancer risk

Chelsea Anderson (Epidemiology)

Completion date: May 2019

Thesis title: Noncancer mortality among adolescents and young adults with cancer

Clare Meernik (Epidemiology)

Completion date: August 2022

Thesis title: Assisted reproductive technology use after adolescent and young adult cancer in North Carolina

Jihye Park (Epidemiology)

Completion date: May 2022

Thesis title: Adjuvant radiation therapy and outcomes among older women with early-stage endometrial cancer

Marina Sweeney (Epidemiology)

Completion date: August 2022

Thesis title: Indoor and outdoor light at night: Associations with breast cancer and sleep health

Nidia Rodriguez-Ormaza (Epidemiology)

Completion date: August 2022

Thesis title: Geographic access to fertility specialty care among female adolescent and young adult cancer survivors in North Carolina

Doctoral Dissertation Co-Chair

Lindsay Williams (Epidemiology)

Completion date: August 2017

Thesis title: Integrated molecular and histologic subtypes in breast cancer risk and survival

Doctoral Dissertation Committee Member

Xuezheng (Amy) Sun (Epidemiology) 2015

Kyla Taylor (Epidemiology) 2016

Kristen Zene Black (Maternal and Child Health) 2016

Lynn Suzanne Chollet Hinton (Epidemiology) 2016

Carmen Cuthbertson (Epidemiology) 2019

Nicole M. Niehoff (Epidemiology) 2019

Tengteng Wang (Epidemiology) 2019

Halei Benefield (Epidemiology) 2019

Gieira Jones (Epidemiology) 2019

Adane Wogu (Biostatistics) 2020

Sanah Vohra (Epidemiology) 2021
Mya Roberson (Epidemiology) 2021
Jack Murphy (Epidemiology) 2021
Joyce Rhoden (Epidemiology) 2022
Charley Gaber (Epidemiology) 2022
Achal Patel (Epidemiology) 2022
Linnea Olsson (Epidemiology) 2023
Eugene Wong (Epidemiology) 2023
Rina Yarosh (Epidemiology) 2019-
Matthew Dunn (Epidemiology) 2023-

Postdoctoral fellows

Chelsea Anderson, PhD 2020-2022
Kelly Tan, PhD 2021-2023

GRANTS

Submitted

NIH P01CA285228 (Bae-Jump, Keku, and Olshan) 9/1/2023-8/31/2028
“Program on Translational Research in Endometrial Cancer Disparities (UNC TREND)”

To comprehensively address racial disparities in endometrial cancer outcomes, the UNC Program for Translational Research of Endometrial cancer Disparities (UNC TREND) is comprised of three integrated projects supported by four cores. The overall mission of UNC TREND is to define endometrial cancer molecular alterations that may drive more aggressive tumor behavior or lead to worse outcomes in racially diverse populations.

Role: Contact Core Lead for the Patient Engagement Core

Pending

NIH U01CA281026 (Nichols and Olshan) 4/1/2023-3/31/2028
“The Carolina Endometrial Cancer Study: A population-based survivor cohort”

More than 890,000 U.S. women have an endometrial cancer history, making it the second largest cancer survivor group among women. Racial disparities have been reported across the endometrial cancer continuum—from recognition of symptoms leading to diagnosis through receipt of guideline recommended cancer therapy and survivorship care. The Carolina Endometrial Cancer Study is a diverse, population-based cancer epidemiology survivor cohort that collects detailed information on novel molecular characteristics; medical history; cancer treatment and follow-up care; individual- and contextual-level social determinants of health; and behavioral and lifestyle factors to advance our understanding of endometrial cancer survivorship.

Role: MPI; Contact PI

Active

NIH R03CA267327 1/1/2023-11/30/2024
“Claims-based measures of care coordination and long-term health among older women with

endometrial cancer”

Endometrial cancer survivors are a rapidly growing population with complex healthcare needs. Coordination of care between oncologists, gynecologists, primary care physicians, and other specialists may help to ensure that survivors receive the appropriate healthcare services to improve their long-term health. Our study will investigate whether greater care coordination after endometrial cancer is associated with several critical health outcomes and will inform the development of interventions that seek to enhance the delivery of survivorship care.

Role: PI

NIH P01CA233432 (Kushi, Chubak, Hahn, Keegan, and Nichols) 9/15/2020-11/30/2026
“Clinical care gaps and unmet needs in adolescent and young adult cancer survivors”

This program of research is focused on the cancer care experience of adolescents and young adults (AYAs). It involves three research projects, focusing on different aspects of care relevant to AYAs: timing of cancer treatment in relation to fertility preservation; coordination of care among multiple providers; and late effects that AYA cancer survivors may experience. These projects are supported by three cores that provide biostatistical, survey, and administrative support to program activities.

Role: MPI, Project Lead

NIH R01CA211093 (Nichols and Luke) 8/5/2019-6/30/2024
“In vitro fertilization outcomes after cancer”

Evidence of the success of fertility preservation procedures is critical for informed decision-making before and after cancer treatment. The proposed research addresses the small numbers; heterogeneous cancer groupings; and failure to separate IVF initiated before versus after cancer treatment that are prevalent in existing studies. Our study will enhance a critical component of guideline-concordant cancer care by investigating the success of fertility preservation.

Role: MPI; Contact PI

NIH R01CA204258 (Nichols) 7/1/2017-6/30/2024
“Clinical pregnancy outcomes in adolescent and young adult female cancer survivors”

This project investigates pregnancy outcomes among female AYA survivors of lymphoma, breast, melanoma, thyroid, and gynecologic cancers living in the U.S. compared to women without a cancer diagnosis and among survivors.

Role: PI

NIH P30CA01608 (Earp) 12/1/2022-11/30/2025
UNC Lineberger Comprehensive Cancer Center (LCCC) Core Support

The LCCC forms the nexus for researchers focused on understanding and identifying the mechanisms leading to, the prevention of, and treatments for cancer. LCCC is an integral component of the research mission at The University of North Carolina (UNC) at Chapel Hill, coalescing the cancer research capabilities of the Schools of Medicine, Public Health, Pharmacy, and Nursing, and the College of Arts and Sciences. The LCCC strives to reduce cancer incidence, morbidity, and mortality in North Carolina, the United States and across the globe through innovative research, cutting-edge treatments, multi-disciplinary training, education and outreach.

Role: Cancer Epidemiology Program Leader

NIH P30ES010126 (Troester) 4/1/2021-2/28/2026

UNC Center for Environmental Health and Susceptibility

The theme of the UNC Center for Environmental Health and Susceptibility (UNC-CEHS) is translating interdisciplinary research on environmental susceptibility to improve public health in North Carolina. The CEHS provides infrastructure and resources to support members in conducting interdisciplinary research and works with communities to identify environmental health susceptibilities and improve the health of North Carolinians. Our scientific and public health discoveries will be disseminated to advance national priorities in preventing environmental disease.

Role: Translational Research Support Core Director

NIH R01MD017999 (Rauh-Hain) 6/28/2023-12/31/2027

“Health equity in fertility specialty care among cancer survivors”

Fertility is extremely important to many young women diagnosed with cancer. The deleterious effects of cancer treatments on fertility among medically underserved cancer survivors has emerged as an important area of widening disparity in health care. Study findings should reveal the mechanisms underlying disparities in access to assisted reproductive technologies (ARTs); these much-needed findings could be used by policymakers to improve access to ARTs for vulnerable populations.

Role: Co-I

NIH R01DK132050 (Peery) 4/1/2022-3/31/2027

“A prospective cohort study to determine the role of obesity in diverticulitis”

Diverticulitis is a poorly studied but common and costly gastrointestinal disease with no definitive cure or identified means of prevention. Determining the factors driving the association between obesity and diverticulitis risk will allow for new approaches to the prevention and treatment of diverticulitis.

Role: Co-I

UNC Center for Environmental Health and Susceptibility Pilot Award 2/1/2023-1/31/2024

“Gut and vaginal microbiome profiles of endometrial cancer survivors”

Role: PI

RFA-EMOT-ECON-50P-22-002 (Nichols) 2023-2024

“A cross-sectional study of LGBTQ+ cancer caregivers’ experiences of financial burden and emotional well-being”

Role: Contact PI on behalf of postdoctoral fellow Kelly Tan, Mentor

Past

UNC School of Medicine Core Voucher Program 2022

“Vaginal and gut microbiome pilot in the Carolina Endometrial Cancer Study”

Role: PI

Administrative Supplement (NOT-CA-20-030) to R01CA204258 7/1/2020-6/30/2022

“Pregnancy complications and premenopausal breast cancer risk”

Breast cancer is the most common cancer diagnosis among adolescent and young adult women but can be difficult to study due to the smaller numbers of women who are diagnosed at young ages. For this research, we propose to combine information from five cohort studies around the world to investigate preterm birth, high blood pressure during pregnancy, and a related condition, preeclampsia, as factors that may contribute uniquely to breast cancer risk among young women.
Role: PI

NIH R01HD084377 (Luke) 7/1/2017-5/31/2021
“Assisted reproduction and child health: Risk of birth defects, mortality, and effect on grade school performance”

The purpose of this study is to evaluate the risk of mortality, birth defects, and effect on grade school performance among children conceived through IVF and ART, their siblings, and non-IVF controls. This study will be based on births from 2004-18, and will include an estimated 163,000 IVF children, 41,000 IVF siblings, and 1,250,000 non-IVF control children.

Role: Co-I

St. Baldrick’s Foundation Scholar Award 523803 (Nichols) 7/1/2017-6/30/2020
“Reproductive Health after Adolescent and Young Adult Cancer”

This study investigates the use of fertility preservation after an adolescent or young adult cancer diagnosis in North Carolina.

Role: PI

UNC IEHS (Rager) 4/1/2019-3/31/2020
“Endocrine disrupting chemicals in the household environment: Implications for breast cancer survivors”

This study aims to characterize known and unknown chemicals in house dust that may impact breast cancer risk and survivorship through disruption of the endocrine system.

Role: Co-I

UNC Lineberger Comprehensive Cancer Center Innovation Award 7/1/2017-6/30/2019
“Reproductive Outcomes among Adolescent and Young Adult (AYA) Cancer survivors”

The purpose of this study is to develop an online survey for women diagnosed with cancer as adolescents or young adults to query reproductive experiences and other salient concerns.

Role: PI

UNC Center for Women’s Health Research Pilot Grant (Nichols) 11/1/2018-5/31/2019
“Mitochondrial DNA copy number as a measure of biologic aging in women with and without a breast cancer diagnosis”

The proposed pilot work will provide preliminary data for an investigation of long-term changes in biomarkers of aging after breast cancer treatment in the Sister Study cohort.

Role: PI

02-2014-080 (Nichols) 1/1/2015-12/31/2017
Avon Foundation

“Pregnancy Associated Breast Cancer: A pooled analysis of 18 prospective cohorts”

The goal of the research is to study pregnancy and breast cancer with pooled data from

participating cohorts within the NCI Cohort Consortium.
Role: PI

NIH KL2TR001109 (Buse) 5/1/2014-4/30/2017
NC TraCS: North Carolina Translational & Clinical Sciences Institute
Project title: “Endocrine therapy for prevention of invasive breast cancer among high-risk women”
Selected to participate in the University of North Carolina CTSA KL2 career development program for junior investigators to develop and conduct interdisciplinary translational research.
Role: KL2 Scholar

Junior Faculty Development Award (Nichols) 1/1/2016-12/31/2016
Office of the Provost, University of North Carolina at Chapel Hill
“Fertility rates, contraceptive practices and birth outcomes among female adolescent and young adult cancer survivors in North Carolina”
Role: PI

CRN 14013 (Nichols) 8/1/2014-7/31/2015
Cancer Research Network Pilot Grant
“Identifying a cohort of women who use breast cancer chemoprevention”
This pilot research will be conducted at Kaiser Permanente Northern California to validate breast cancer chemoprevention use among 500 members, examine risk-benefit profiles, and collect preliminary data on medication adherence and discontinuation.
Role: PI

UNC LCCC Developmental Award (Nichols) 8/1/2014-7/31/2015
“Pilot study of breast cancer chemoprevention use and adherence in a large integrated healthcare setting”
The goals of this research are to assess the feasibility of identifying breast cancer chemoprevention users from a large integrated healthcare plan, to calculate a risk-benefit index using data from electronic medical record abstraction, and to collect preliminary information on medication adherence and discontinuation.
Role: PI

NIH U24CA171524 (Kushi) 4/1/2013-5/31/2015
CRN4: Cancer Research Resources & Collaboration in Integrated Health Care Systems
Project title: “Breast cancer prevention among premenopausal and high-risk women”
The Cancer Research Network (CRN) enhances the ability for investigators to conduct impactful, relevant cancer research in integrated health care systems and includes the CRN Scholars Program, a mentored two-year program that provides training and support for junior investigators to develop independent research using CRN resources to conduct population-based multi-site and multi-disciplinary studies.
Role: CRN Scholar

AVON 02-2012-085 (Nichols) 1/1/2013-12/31/2014
“Reproductive hormones, central adiposity, and oxidative stress in premenopausal women”
The goals of the research are to investigate the differential roles of anti-Müllerian hormone

(AMH), adiposity, and oxidative stress as risk factors for breast cancer to advance understanding of etiologic heterogeneity between pre- and post-menopausal breast cancer.

Role: PI

Epidemiology Branch, NIEHS (Nichols) 1/1/2013-12/31/2013

“Reproductive hormones, central adiposity, and oxidative stress in premenopausal women”

Role: PI

NIH T32CA009314 (Platz) 7/1/2009-5/31/2011

Cancer Epidemiology, Prevention and Control Training Fellowship, Johns Hopkins University
The T32 National Research Service Award Institutional Training Grant supports training at the pre- and post-doctoral levels in the etiology and prevention of cancer, the genetic epidemiology of cancer, and cancer control.

Role: Predoctoral Student

PROFESSIONAL SERVICE

Department of Epidemiology

UNC Department of Epidemiology Applied Epidemiology Admissions Committee, 2020-2023,
Co-Chair, 2024-

UNC Tenure-track Epidemiology Search Committee, 2019-2020

UNC Department of Epidemiology MPH Graduate Studies Committee, 2018-2020

UNC Department of Epidemiology Admissions Committee, 2015-2018

UNC Tenure-track Ophthalmic Epidemiology Search Committee, 2016

University of North Carolina (UNC)

Director, Cancer Survivorship Research, UNC Lineberger Comprehensive Cancer Center, 2021-
Co-Chair, Research and Recruitment Subcommittee, UNC Lineberger Equity Council, 2021-2023

Co-Director, Cancer Survivorship Research, UNC Lineberger Comprehensive Cancer Center,
2020-2021

UNC Institute for Environmental Health Solutions Search Committee, 2018

UNC Lineberger Comprehensive Cancer Center Protocol Review Committee, 2016-2018

State

NC Women’s Health Report Card Advisory Board member, 2017-

National

NIH Grant Review

Temporary Member, Special Emphasis Panel/Scientific Review Group for RFA-CA-22-027,
“Research to Understand and Address the Survivorship Needs of Individuals Living with
Advanced Cancer” Jan 12 teleconference, 2023

Temporary Member, Fellowship Special Emphasis Panel/Scientific Review Group 2022/01 ZRG1
F16-L (20) L, Oct 25-26 teleconference, 2021

Temporary Member, Career Development Study Section (J), National Cancer Institute Initial Review Group, June 24-25 teleconference, 2021

Temporary Member, Special Emphasis Panel/Scientific Review Group for RFA-CA-20-034 and RFA-CA-20-041, “NCI Pediatric In Vivo Testing Program (U01) and NCI Pediatric In Vivo Testing Program Coordinating Center (U24)” 05 ZCA1 GRB-I (M1) R, Study section, Jan 26 teleconference, 2021

Reviewer, Special Emphasis Panel for RFA-RM-20-014 and RFA-RM-20-021, “NIH Director’s Early Independence Award Review” ZRG1 PSE-H (70) R, 2020

Temporary Member, Special Emphasis Panel for RFA HD-20-021, “Fertility and Fertility Preservation for Patients with Diseases that Previously Precluded Reproduction” ZHD1 DSR-M (50): Study section, Apr 15 teleconference, 2020

Temporary Member, Special Emphasis Panel for RFA CA-19-033, “Improving outcomes for pediatric, adolescent and young adult cancer survivors (U01 Clinical Trial Required)” Study section, June 7 teleconference, 2019

Temporary Member, Cancer, Heart, and Sleep Epidemiology Study Section B (CHSB) Study section, Oct 25-26, Washington, DC 2018

Temporary Member, Special Emphasis Panel for NCI Clinical and Translational R21 & Omnibus R03 applications:
ZCA1 TCRB-Q (J2): Study section, November 3 teleconference, 2020
ZCA1 TCRB-Q (M2): Study section, April 11 teleconference, 2019
ZCA1 SRB-5 (J1): Study section, October 12-13, Bethesda, MD 2017
ZCA1 SRB-P (01): Study section, June 5, Bethesda, MD 2017
ZCA1 SRB-5 (M1): Study section, March 2-3, Bethesda, MD 2017

St. Baldrick’s Foundation Grant Review
Fellow applications, 2018, 2019

Cancer Research UK Grant Review, 2020

Cancer Research Trust New Zealand Grant Review, 2019

Department of Defense Breast Cancer Research Program Grant Review
Breakthrough Award Levels 1 and 2 (BCRP-BTA12-2) Epidemiology-2 (EPI-2) peer review panel, 2019

NCI Cohort Consortium

Survivorship and Second Cancers Interest Group Co-Chair, 2021-2023

Premenopausal Breast Cancer Collaborative Group Co-Chair, 2013-

Steering Committee Member, 2019-2021; Annual Meeting Subcommittee, 2019; Working Group subcommittee, 2020-2021

American Society of Preventive Oncology

New Investigators Workshop Faculty Member, 2022-2023

Executive Committee Member, 2016-2019

Early Career Special Interest Group (SIG) Chair, 2016-2018

Program Committee Co-Chair, 2019; Cancer Survivorship and Caregiver Health Concurrent Contributed Session Chair, 2019; Early Career SIG Vice-Chair, 2015; Program Committee Member, Junior Members SIG Session Chair, 2013; Junior Members SIG Session Co-Chair, 2012

Society for Epidemiologic Research

Cancer Survivorship Concurrent Contributed Session Chair, 2018

Editorial Board

Senior Editor, Cancer Epidemiology Biomarkers & Prevention

Editorial Board Member, Journal of the National Cancer Institute

Associate Editor, Cancer Causes Control

Journal peer review activities

American Journal of Epidemiology

American Journal of Public Health

BMC Cancer

Breast Cancer Research

Breast Cancer Research and Treatment

British Journal of Cancer

Cancer

Cancer Causes Control

Cancer Epidemiology Biomarkers & Prevention

Circulation

Contraception

Epidemiology

European Journal of Obstetrics & Gynecology and Reproductive Biology

Gynecologic Oncology

International Journal of Cancer

International Journal of Epidemiology

JAMA Network Open

JNCI Cancer Spectrum

Journal of Cancer Survivorship

Journal of Clinical Oncology

Journal of the American Medical Association

Journal of the National Cancer Institute

Journal of the National Comprehensive Cancer Network

Journal of Women's Health

Maturitas

New England Journal of Medicine

North Carolina Medical Journal