

## **CURRICULUM VITAE**

Deborah B. Ehrenthal, MD, MPH

5/8/2020

### **PERSONAL DATA**

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### **EDUCATION**

Undergraduate: BA, (Chemistry), Wesleyan University, Middletown, CT

Medical School: University of Massachusetts Medical School, Worcester, MA

Residency: Internal Medicine, Yale-New Haven Hospital, New Haven, CT

Fellowship: Hematology-Oncology, Hospital of the University of Pennsylvania, Philadelphia, PA (clinical investigator pathway, fellowship not completed)

Other: MPH, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

### **SPECIALTY CERTIFICATION AND LICENSURE**

American Board of Internal Medicine (126363), 9/12/1990

American Board of Internal Medicine (recertification), 5/2/2000

American Board of Internal Medicine (recertification, expires 2020), 4/29/2010

### **LICENSURE**

Pennsylvania (inactive) MD 041728E (7/12/88-12/31/1992)

Delaware (inactive) C1-0003976 (9/1/1992-3/31/2017)

Wisconsin (active) No. 62116-20 (4/8/2014-10/31/2019)

Federal DEA: BE1595303 (expires 8/31/2021)

### **PRESENT APPOINTMENT/POSITION**

Associate Professor (with tenure, Professor as of 7/1/2020), Obstetrics & Gynecology and Population Health Sciences, University of Wisconsin School of Medicine and Public Health

Director, Health Disparities Research Scholars (T32) Postdoctoral Training Program, Obstetrics and Gynecology, University of Wisconsin School of Medicine and Public Health

Director, Division of Reproductive and Population Health, Obstetrics and Gynecology, University of Wisconsin School of Medicine and Public Health

Director, University of Wisconsin-Madison Prevention Research Center, University of Wisconsin-Madison

### **PRESENT AFFILIATIONS**

Department of Medicine, University of Wisconsin School of Medicine and Public Health

Center for Demography and Ecology, College of Letters and Sciences, University of Wisconsin-Madison

Institute for Research on Poverty, College of Letters and Sciences, University of Wisconsin-Madison

La Follette School of Public Affairs, College of Letters and Sciences, University of Wisconsin-Madison

### **PAST APPOINTMENTS/POSITIONS**

- 1991-1992 Clinical Associate, Internal Medicine, Section of General Medicine, Hospital of the University of the Pennsylvania, Philadelphia, PA
- 1992-2014 Teaching faculty, Department of Medicine, Christiana Care Health System, Newark, DE
- 1995-2011 Clinical Assistant Professor in Medicine, Thomas Jefferson Medical College, Philadelphia, PA
- 2001-2014 Teaching faculty, Department of Obstetrics and Gynecology, Christiana Care Health System, Newark, DE
- 2009-2014 Senior Policy Analyst, Center for Community Research and Services, University of Delaware, Newark, DE
- 2012-2013 Adjunct Professor, College of Health Sciences, University of Delaware, Newark, DE
- 2012-2014 Associate Professor in Medicine, Thomas Jefferson Medical College, Philadelphia, PA
- 2012-2014 Associate Professor in Obstetrics and Gynecology, Thomas Jefferson Medical College, Philadelphia, PA
- 2013-2014 Adjunct Professor, Center for Bioinformatics and Computational Biology, University of Delaware, Newark, DE
- 2014-2015 Visiting Associate Professor, Obstetrics and Gynecology, University of Wisconsin School of Medicine and Public Health, Madison, WI
- 2014-2017 Faculty Director, Lifecourse Initiative for Healthy Families, University of Wisconsin School of Medicine and Public Health, Madison, WI
- 2015-2016 Associate Professor (CHS), Obstetrics and Gynecology, University of Wisconsin School of Medicine and Public Health, Madison, WI

## **PROFESSIONAL SOCIETY MEMBERSHIPS**

American College of Physicians  
American Public Health Association  
American Association of University Women  
Delta Omega Society, Alpha Chapter  
Population Association of America

## **HONORS AND AWARDS**

1980 Silverman Prize for Excellence in Chemistry, Wesleyan University  
1986 Janet M. Glasgow Memorial Achievement Citation, American Medical Women's Association  
1986 Hewlett Packard Top Medical Graduate Award  
2000 Fellow, American College of Physicians  
2012 Elected to Delta Omega Society, Alpha Chapter  
2012 MPH Capstone Award for Outstanding Achievement, Johns Hopkins Bloomberg School of Public Health  
2013 Distinguished Researcher Award, Christiana Care Health System  
2013 Rising Star Award, Christiana Care Health System  
2014 Health Equity Award, Delaware Healthy Mother and Infant Consortium  
2015-2019 Lifecourse Initiative for Healthy Families Chair, University of Wisconsin-Madison  
2018 Vilas Mid-Career Investigator Award, University of Wisconsin-Madison  
2018 Women's Health Champion, Wisconsin Women's Health Foundation

## **GRANT SUPPORT AT UW-MADISON**

### **ACTIVE AWARDS**

1R01HD102125-01 (Ehrenthal and Berger, MPI)

05/04/2020-04/30/2025

National Institutes of Health

Prenatal Opioid Exposure: Birth, health, socioeconomic, and educational outcomes of mothers and their children.

This study will evaluate the relationships between maternal opioid use and use disorder during the prenatal and postnatal periods with mother, child and family health and well-being and resource utilization using the existing, state-level "large data" from numerous sources, linked together on an individual-client level.

Role: MPI

1R01HD102207-01 (Nobles, PI)

04/15/2020-12/31/2024

National Institutes of Health

Conception Failure and Pregnancy Loss in the US

Conception failure and miscarriage affect millions of U.S. couples each year. This research uses new georeferenced data on pre-pregnancy and early pregnancy for 4 million U.S. women to provide the first evidence on individual, family, ecological, and policy factors that reduce the risk of early pregnancy failure.

Role: Co-I

UW2020 (Magnuson, PI)

05/01/2020-04/30/2022

University of Wisconsin-Madison

Building a Transformational Data Resource to Support Housing Research

The project will bring together faculty from across campus to identify strategic data resources needed to advance the field, complete two proof-of-concept research projects investigating links between housing assistance and children's health and education outcomes, and seek extramural funding to support new research. IRP will leverage existing relationships with local, state and national policymakers to acquire data, and IRP's programmers, with decades of experience linking administrative data, will create the resource.

Role: Co-I

Fall Competition Award (Ehrenthal, PI)

1/1/2020-12/31/2020

University of Wisconsin-Madison

Prenatal Opioid Exposure: Birth, health, social welfare, and educational outcomes of mothers and their children

Our team has developed a multi-source administrative data resource Big Data for Little Kids (BD4LK) and is thereby poised to make important contributions to understanding how a complex set of factors shape health and other outcomes of affected mothers and their children over many years.

Role: Co-I

1R03HD088619-01 (Rubenstein, PI)

07/01/2019-06/30/2021

National Institutes of Health

Pregnancy rates, risk factors, and child and mother outcomes for women with intellectual and developmental disabilities in Wisconsin.

The major goals of this project are 1) Estimate proportion of live births, examine demographic determinants of pregnancy, and calculate gross fertility rate in women with IDD in our BD4LK sample, comparing results to mothers without IDD; 2) Evaluate whether pregnant women with IDD are at greater risk for maternal pregnancy complications or poor neonatal outcomes in our BD4LK sample compared to pregnant women without IDD; and 3) Characterize post-pregnancy health outcomes and health service utilization for mothers with IDD and

their child using BD4LK data linkages and compare their outcomes to mothers without IDD.  
Role: Co-I

U48 DP006383-01 (Ehrenthal, PI)

09/30/2019-10/01/2024

US Centers for Disease Control and Prevention

Expanding the evidence-base for prevention strategies to improve the health of women, infants, and families

The major goal of this project is to improve the health of low-income women, infants and families through the conduct of high-quality applied health promotion and disease prevention research with a focus on achieving health equity.

Role: PI

R34 DA050270-01 (Zgierska, PI)

10/01/2019-03/31/2021

National Institutes of Health

Promoting Resilience in Children: Protocol Development for a Birth Cohort Study to Assess Factors Impacting Neurodevelopment.

The goal of this project is to develop protocols for a future birth cohort study to enhance understanding of child and brain development from pregnancy through age ten, including the potential impact a variety of factors may have on development.

Role: Co-I

2T32HD049302 (Ehrenthal, PI)

5/23/2017-4/30/2022

National Institutes of Health (NICHD)

Health Disparities Research Scholar (T32) Postdoctoral Training Program

This T32 training grant from the Population Dynamics Branch of the NICHD supports 5 postdoctoral scholars in interdisciplinary research that addresses disparities in health status and health outcomes among minority populations with an emphasis on maternal/child, adolescent and families, as well as to enhance recruitment of underrepresented minorities into academic research careers.

Role: PI

### **Completed Research Awards**

N/A (Halpern-Meehin, PI)

7/1/2016-6/30/2017

Graduate School Fall Competition

Prenatal Care, Father Involvement, And Intimate Partner Violence Screening

This study examined how prenatal care providers think about and logistically navigate the seemingly contradictory needs to involve fathers during prenatal care visits and to screen mothers—without fathers present—for intimate partner violence during these visits. This mixed methods project involved the analysis of national data from the CDC's Pregnancy Risk Assessment Monitoring System and interviews with prenatal care providers.

Role: Co-I

N/A (Ehrenthal, PI)

9/1/2015-2/28/2017

ICTR Clinical & Community Outcomes Research Pilot Grant Program

Big Data for Little Kids: Establishing Population Effectiveness of Maternal and Child Health Programs

The primary objective of this funding was to develop a pilot project that drew on extant data from multiple sources to create a data system with sufficient information about mothers and children to examine reach and estimate the variable causal impact of this early intervention program.

Role: PI

N/A (Ehrenthal and Grodsky, MPI)

7/1/2015-6/30/2016

Institute for Research on Poverty Small Research Grant

Big Data for Little Kids

The primary objective of this funding was to provide graduate assistant support to develop the pilot project that will draw on extant data from multiple sources to create a data system with sufficient information about mothers and children to examine reach and estimate the variable causal impact of this early intervention program.

### **Completed Awards Related to the Lifecourse Initiative for Healthy Families (LIHF)**

N/A (Ehrenthal)

11/1/2014-3/31/2019

Wisconsin Partnership Program

Lifecourse Initiative for Healthy Families (LIHF) Faculty Leader

This award, originally to Dr. Laurel Rice, was used to fund my recruitment to UW-Madison.

The funds were used to provide salary support, fund a portion of my start-up package, and support the LIHF administrative director throughout the course of the project.

Role: PI

N/A (Ehrenthal)

7/1/2015-7/31/2019

Wisconsin Partnership Program

Lifecourse Initiative for Healthy Families Pregnancy Risk Assessment and Monitoring System (PRAMS)

This provided funding for the PRAMS oversample to support the evaluation of the Lifecourse Initiative for Healthy Families.

Role: PI

N/A (Ehrenthal)

1/1/2015-3/31/2019

Wisconsin Partnership Program

Lifecourse Initiative for Healthy Families Evaluation

The main goals of the evaluation were to provide information and feedback to guide Lifecourse Initiative for Healthy Families (LIHF) and to demonstrate overall impact. I led the formative component of the evaluation. The summative component was completed by Dr. Paul Moberg.

Role: PI (new PI as of 1/1/2018)

N/A (Smeeding)

1/1/2017-6/30/2018

Herb Kohl Public Service Research Competition

Improving Contraceptive Choice and Improving Lives by Avoiding Unintended, Unplanned and Unwanted Pregnancies in Wisconsin

In this project we estimated both the costs and likely benefits of more widespread use of Long-acting Reversible Contraceptives (LARC) in Milwaukee and Dane counties, sharing this information with the public and potential sponsors. Second, we will compare and contrast the process of introducing and tracking the use of LARC between the two initial sites.

Role: Co-PI

### **RESEARCH GRANT SUPPORT PRIOR TO JOINING THE UW-MADISON FACULTY**

U10HL120034 (Wapner, PI)

8/2013-4/2017

National Institutes of Health, NHLBI and NICHD

Pregnancy as a Window to Future Cardiovascular Health

This is a follow-up of the multisite, 10,000 subject NuMom2b study designed to examine cardiovascular risk 2-3 years after pregnancy.

Role: Site PI and co-investigator; co-chair Cardiovascular Committee. Transitioned to another PI when I left the site.

8 P20 GM103446-13 (Steiner, PI)

3/2012-2/2014

National Institutes of Health, NIGMS

INBRE Pilot Grant: Cardiovascular Risk One Year Following a Pregnancy Complicated by Hypertension

The objective of this study was to explore the metabolic, inflammatory, vascular, and stress characteristics of women one year after a pregnancy complicated by hypertension and compare them to women after a healthy pregnancy.

Role: pilot grant PI

N/A (Ehrenthal, PI)

3/2011-12/2012

Cloutier Foundation

A Contemporary Picture of Teen Pregnancy in Delaware

The purpose of this study was to provide a contemporary picture of teen pregnancy in Delaware, explore the health and health care needs of teens following delivery, and explore barriers to reintegration into school and work.

Role: PI

N/A (Ehrenthal, PI)

1/2011-3/2012

CCHS Chairs Leadership Council

Christiana Care Mom's Study

This pilot project recruited postpartum women with chronic hypertension, gestational diabetes and hypertension during pregnancy to: 1) identify health care needs of women in our community during the post-partum period; 2) determine predictors of successful follow-up and care management; 3) estimate cardiovascular risk at the time of follow-up.

Role: PI

R01 HD058529 (Feinberg, PI)

1/2011-3/2013

National Institutes of Health, NICHD

Trial of Transition to Parenting Program for Couples

This was a randomized trial of a universal preventive intervention delivered to couples at the transition to parenthood, aimed at enhancing co-parental support and problem solving, decreasing inter-parental conflict and parental depression, and strengthening warm, engaged parenting among first-time parents.

Role: Co-investigator

N/A (Ehrenthal, PI)

11/2010-2/2012

Delaware Health Sciences Alliance

Novel Approaches to the Study of Determinants of Childhood Obesity Utilizing Health Information Systems

The purpose of the study was to demonstrate the ability to create a longitudinal cohort of mother-baby dyads using clinical data provided by delivery hospital before or during pregnancy and from pediatrician records for offspring followed from birth to age three. This data was used to examine the association of maternal factors with early childhood obesity.

Role: PI

N/A (Ehrenthal, PI)

10/2010-9/2014

Delaware Division of Public Health

Breastfeeding Peer Counselor Program

The funding was used to implement a peer-counseling program to increase rates of breastfeeding initiation and duration in a population of WIC eligible women within a resident faculty practice and hospital inpatient service.

Role: PI

N/A (Ehrenthal, PI)

9/2009-8/2015

Birth Defects and Autism Active Surveillance Services of Delaware

Delaware Division of Public Health

We developed an Active Surveillance Birth Defects and expanded to add an Autism Registry for all inborn Delaware residents.

Role: PI

HHSP 23320082207TC (Ehrenthal, PI)

9/2009-8/2010

Federal Office on Women's Health, DHHS

A Pilot Assessment of the Role of the Obstetrician/Gynecologist in the Prevention of Cardiovascular Disease in Women

The purpose of this project is to assess the attitudes and scope of practice of community obstetrician/gynecologists around cardiovascular disease prevention in order to improve care for women and determine the need for preventive cardiology training for obstetrician/gynecologists.

Role: PI

HHSP 23320082207TC (Ehrenthal, PI)

9/2008-1/2012

Federal Office on Women's Health, DHHS

Delaware Primary Care Partnership in Women's Health

The purpose of this project was to disseminate evidence-based guidelines using the Heart Truth Campaign to primary care providers across the state of Delaware to improve cardiovascular screening and outcomes for women.

Role: PI

N01-HD-70020 (Culhane, PI)

9/2007-8/2012

National Institutes of Health, NICHD

National Children's Study, New Castle County Option through the CHOP-Drexel Vanguard Center

The New Castle County site is one of 105 sites participating in this longitudinal observational study of the determinants of child health and development.

Role: Site PI and co-investigator

N/A (Ehrenthal, PI)

1/2007-6/2015

Delaware Division of Public Health

Implementation of Services to Reduce Infant Mortality in Delaware: The Healthy Beginnings Program

We developed and implemented a multidisciplinary team approach to providing evidence-based preconception and prenatal care to a high-risk population of women within the resident faculty practice.

Role: PI

N/A (Ehrenthal, PI)

04/2005-3/2006

CCHS Community Services and Education Grant

Women First Access to Care Program

We developed a pilot program designed to improve access to medical care for medically underserved women through a partnership with Friendship House, Inc, located a few blocks from Wilmington Hospital. Friendship House serves women who are homeless and/or living in emergency or temporary housing.

Role: PI

## PUBLICATIONS

### Refereed Articles (underlined indicates trainee)

1. **Ehrenthal DB**, Haeger L, Griffin T, Compton C. Familial pancreatic adenocarcinoma in three generations. A case report and a review of the literature. *Cancer*. 1987;59(9):1661-1664. PMID: 3828965.
2. Compton C, Wyatt R, Konugres A, **Ehrenthal DB**, Durda P. Immunohistochemical studies of blood group substance H in colorectal tumors using a monoclonal antibody. *Cancer*. 1987;59(1):118-127. PMID: 2431754.
3. **Ehrenthal DB**, Farber NJ, Collier VU, Aboff BM. Chaperone use by residents during pelvic, breast, testicular, and rectal exams. *J Gen Intern Med*. 2000;15(8):573-576. PMID: 10940150.
4. Aboff BM, Collier VU, Farber NJ, **Ehrenthal DB**. Residents' prescription writing for nonpatients. *JAMA*. 2002;288(3):381-385. PMID: 12117406.
5. Farber NJ, Friedland A, Aboff BM, **Ehrenthal DB**, Bianchetta T. Using patients with cancer to educate residents about giving bad news. *J Palliat Care*. 2003;19(1):54-57. PMID: 12710116.
6. **Ehrenthal DB**, Jurkovitz C, Hoffman M, Kroelinger C, Weintraub W. A population study of the contribution of medical comorbidity to the risk of prematurity in blacks. *Am J Obstet Gynecol*. 2007;197(4):409 e1-6. PMID: 17904981.
7. Carson MP, **Ehrenthal D**. Medical issues from preconception through delivery: a roadmap for the internist. *Med Clin North Am*. 2008;92(5):1193-1225. PMID: 18721658.
8. Kroelinger C, **Ehrenthal DB**. Translating policy to practice and back again: implementing a preconception program in Delaware. *Women's Health Issues*. 2008;18(6 Suppl):S74-80. PMID: 18848468.
9. Paul DA, Mackley A, Locke RG, **Ehrenthal DB**, Hoffman M, Kroelinger C. Increased preeclampsia in mothers delivering very low-birth-weight infants between 1994 and 2006. *Am J Perinatol*. 2009;26(6):467-472. PMID: 19399704.
10. **Ehrenthal DB**, Jiang X, Strobino DM. Labor induction and the risk of a cesarean delivery among nulliparous women at term. *Obstet Gynecol*. 2010;116(1):35-42. PMID: 20567165.
11. **Ehrenthal DB**, Wingate MS, Kirby RS. Variation by state in outcomes classification for deliveries less than 500 g in the United States. *Matern Child Health J*. 2011;15(1):42-48. PMID: 20111990.

12. **Ehrenthal DB**, Jurkovitz C, Hoffman M, Jiang X, Weintraub W. Prepregnancy body mass index as an independent risk factor for pregnancy induced hypertension. *J Womens Health*. 2011;20(1):67-72. PMID: 21194273.
13. Feinberg S, Maiden K, **Ehrenthal DB**. Awareness of the 5 A's and motivational interviewing among community primary care providers. *Del Med J*. 2011;83(1):17-21. PMID: 21466014.
14. **Ehrenthal DB**, Núñez A, O'Neill E, Robertson C, Feinberg S, Stewart A. The role of the obstetrician/gynecologist in the prevention of cardiovascular disease in women. *Women's Health Issues*. 2011;21(5):338-344. PMID: 21703866.
15. **Ehrenthal DB**, Hoffman M, Jiang X, Ostrum G. Neonatal outcomes after implementation of guidelines limiting elective delivery prior to 39 weeks. *Obstet Gynecol*. 2011;118(5):1047- 1055. PMID: 22015872.
16. Drees M, Johnson O, Wong E, Stewart A, Ferisin S, Silverman P, **Ehrenthal DB**. Acceptance of 2009 H1N1 influenza vaccine among pregnant women in Delaware. *Am J Perinatol*. 2012;29(04):289-294. PMID: 22147638.
17. Hermann JW, Rogers S, **Ehrenthal DB**. Centering Pregnancy helped me be a better mother: A focus group study. *MCN Am J Matern Child Nurs*. 2012;37(1):19-26. PMID: 22072019.
18. **Ehrenthal DB**, Chichester ML, Cole OS, Jiang X. Maternal risk factors for peripartum transfusion. *J Womens Health*. 2012;21(7):792-797. PMID: 22500552.
19. Rao A, Maiden K, Carterette B, **Ehrenthal DB**. Predicting Baby Feeding Method from Unstructured Electronic Health Record Data. In DTMBIO'12: ACM Sixth International Workshop on Data and Text Mining in Biomedical conference proceedings, Oct 2012.
20. Drees M, Tambourelli B, Denstman A, Zent R, McGraw M, Johnson O, **Ehrenthal DB**. Sustained high influenza vaccination rates and decreased safety concerns among pregnant women during the 2010-2011 influenza season. *Vaccine*. 2013;31(2):362-366. PMID: 23146674.
21. **Ehrenthal DB**, Maiden K, Rao A, West DW, Gidding SS, Bartoshesky L, Carterette B, Ross J, Strobino D. Independent relation of maternal prenatal factors to early childhood obesity in the offspring. *Obstet Gynecol*. 2013;121(1):115-121. PMID: 23262935.
22. **Ehrenthal DB**, Haynes SG, Martin KE, Hitch JA, Addo SF, O'Neill E, Pina IL, Taubenheim AM, Sloan NL. Evaluation of the Heart Truth professional education campaign on provider knowledge of women and heart disease. *Women's Health Issues*. 2013;23(2):e87-93. PMID: 23481694.
23. **Ehrenthal DB** and Catov J. Importance of engaging obstetrician/gynecologists in

cardiovascular disease prevention. *Curr Opin Cardiol*. 2013;28(5):547-553. PMID: 23928919. PMCID: PMC4019599.

24. Maiden K, Gunter WD, Martin SS, **Ehrenthal DB**. Teen mothers, unintended pregnancies, and costs across Delaware. *Del Med J*. 2014;86(4):109-116. PMID: 25000643.
25. Hoffman M, Miriam AA, **Ehrenthal DB**. Fetal outcomes following elective delivery. *Clin Obstet Gynecol*. 2014;57(2):401-414. PMID: 24709710.
26. **Ehrenthal DB**, Maiden K, Rogers S, Ball A. Postpartum health care after gestational diabetes and hypertension. *J Womens Health*. 2014;23(9):760-764. PMID: 25089915.
27. **Ehrenthal DB**, Goldstein ND, Wu P, Rogers S, Townsend RR, Edwards DG. Arterial stiffness and wave reflection one year after a pregnancy complicated by hypertension. *J Clin Hypertens*. 2014;16(10):695-699. PMID: 25116457.
28. **Ehrenthal DB**, Goldstein ND, Rogers S, Weintraub W. Cardiovascular risk factors one year after a hypertensive disorder of pregnancy. *J Womens Health*. 2015;24(1):23-29. PMID: 25247261.
29. Bhattacharya M, **Ehrenthal DB**, Shatkay H. Identifying growth-patterns in children by applying cluster analysis to electronic medical records. Proceedings of the IEEE International Conference on Bioinformatics and Biomedicine (BIBM), Belfast, Ireland, November, 2014.
30. Min CJ, **Ehrenthal DB**, Strobino DM. Investigating Racial Differences in Risk Factors for Primary Cesarean Delivery. *Am J Obstet Gynecol*. 2015;212(6):814.e1-814. PMID: 25637848.
31. Feinberg ME, Jones DE, Roettger ME, Hostetler ML, Sakuma KL, Paul IM, **Ehrenthal DB**. Preventive effects on birth outcomes: Buffering impact of maternal stress, depression, and anxiety. *Matern Child Health J*. 2016;20(1):56-65. PMID: 2619445.
32. Michelic B, Maiden K, Ortiz J, Bell A, **Ehrenthal DB**. Providers' perceptions of medical interpreter services and Limited English Proficiency (LEP) patients: understanding the "bigger picture". *J Appl Soc Sci*. 2015;9(2):156-169.
33. Haas DM, **Ehrenthal DB**, Koch MA, Catov JM, Barnes SE, Facco F, Parker CB, Mercer BM, Bairey-Merz CN, Silver RM, Wapner RJ, Simhan HN, Hoffman MK, Grobman WA, Greenland P, Wing DA, Saade GR, Parry S, Zee PC, Reddy UM, Pemberton VL, Burwen DR; National Heart, Lung, and Blood Institute nuMoM2b Heart Health Study Network. Pregnancy as a Window to Future Cardiovascular Health: Design and Implementation of the nuMoM2b Heart Health Study. *Am J Epidemiol*. 2016;183(6):519-530. PMID: 26825925.
34. **Ehrenthal DB**, Wu P, Trabulsi J. Differences in the Protective Effect of Exclusive

- Breastfeeding on Child Overweight and Obesity by Mother's Race. *Matern Child Health J.* 2016;20(9):1971-1979. PMID: 27178429.
35. Männistö T, Mendola P, Kiely M, O'Loughlin J, Werder E, Chen Z, **Ehrental DB**, Grantz, KL. Maternal psychiatric disorders and risk of preterm birth. *Ann of Epi.* 2016;26(1):14-20. PMID: 26586549.
  36. Goldstein N, Rogers S, **Ehrental DB**. The impact of psychosocial stressors on postpartum weight retention. *Arch Womens Ment Health.* 2016;19(4):691-694. PMID: 26907459.
  37. Feinberg ME, Jones DE, Hostetler ML, Roettger ME, Paul IM, **Ehrental DB**. Couple-focused prevention at the transition to parenthood, a randomized trial: Effects on coparenting, parenting, family violence, and parent and child adjustment. *Prev Sci.* 2016;17(6):751-764. PMID: 27334116.
  38. Paul DA, Agiro A, Hoffman M, Denmark C, Brazen A, Pollack M, Boehmer C, **Ehrental DB**. Factors Associated with Hospital Readmission and Emergency Department Utilization in a Newborn Medicaid Population. *Hosp Ped.* 2016;6(10):587-594. PMID: 27635388.
  39. Acheson A, Vaidy A, Stomieroski K, Thompson DR, Maiden KM, **Ehrental DB**, Yezdani S, Bhat M, Locke R, Bartoshesky LE. Surveillance of ventricular septal defects in Delaware. *Birth Defects Res A Clin Mol Teratol* 2016;106(11):888-893. PMID: 27891775.
  40. Gregor L, Remington PL, Lindberg S, **Ehrental D**. Prevalence of Pre-pregnancy Obesity, 2011-2014. *WMJ.* 2016;115(5):228. PMID: 28190954.
  41. Antony K, **Ehrental DB**, Iruretagoyena JI, Evensen AR. Travel During Pregnancy: Considerations for the Obstetric Provider. *Obstet Gynecol Surv.* 2017;72(2):97-115. PMID: 28218771.
  42. **Ehrental DB**, Gelinas K, Paul DA, Agiro A, Denmark C, Brazen AJ, Pollack M, Hoffman M. Postpartum Emergency Department Visits and Inpatient Readmissions in a Medicaid Population of Mothers. *J Womens Health (Larchmt).* 2017;26(9):984-991. PMID: 28691865.
  43. Bergmans RS, Berger L, Palta M, Robert S, **Ehrental DB**, Malecki K. Participation in the Supplemental Nutrition Assistance Program and maternal depressive symptoms: Moderation by program perception. *Soc Sci Med.* 2018;197:1-8. PMID: 29197704. PMCID: PMC5763005.
  44. Kramer R, Higgins J, Godecker A, **Ehrental DB**. Racial and ethnic differences in patterns of long-acting reversible contraceptive use in the United States, 2011-2015. *Contraception.* 2018;97(5):399-404. PMID: 29355492.

45. Bergmans RS, Palta M, Robert SA, Berger LM, **Ehrenthal DB**, Malecki KM. Associations between Food Security Status and Dietary Inflammatory Potential within Lower-Income Adults from the United States National Health and Nutrition Examination Survey, Cycles 2007 to 2014. *J Acad Nutr Diet*. 2018;118(6):994-1005. PMID: 29452975.
46. Jones DE, Feinberg ME, Hostetler ML, Roettger ME, Paul IM, **Ehrenthal DB**. Family and Child Outcomes 2 Years After a Transition to Parenthood Intervention. *Fam Relat*. 2018;67(2):270-286. PMID: 30140113. PMCID: PMC6101046.
47. Guerrero N, Gangnon R, Curtis M, Valdez C, **Ehrenthal D**, Jacobs E. The impact of maternal depression on future child problem behavior. *J Investig Med*. 2018;66(4):830-831.
48. Catov JM, Parker CB, Gibbs BB, Bann CM, Carper B, Silver RM, Simhan HN, Parry S, Chung JH, Haas DM, Wapner RJ, Saade GR, Mercer BM, Bairey-Merz CN, Greenland P, **Ehrenthal DB**, Barnes SE, Shanks AL, Reddy UM, Grobman WA; NICHD NuMoM2b and NHLBI NuMoM2b Heart Health Study Network. Patterns of leisure-time physical activity across pregnancy and adverse pregnancy outcomes. *Int J Behav Nutr Phys Act*. 2018;15(1):68. PMID: 29996930. PMCID: PMC6042402.
49. Larson A, Berger LM, Mallinson D, Grodsky E, **Ehrenthal DB**. Variable Uptake of Medicaid-Covered Prenatal Care Coordination: The Relevance of Treatment Level and Service Context. *J Community Health*. 2019;44(1):32-43. PMID: 30022418. PMCID: PMC6330123.
50. Olson E, Kramer R, Anderson C, Gibson C, Schmuhl N, **Ehrenthal DB**. Health care barriers to provision of long-acting reversible contraception in Wisconsin. *WMJ*. 2018;117(4):149-155.
51. Halpern-Meekin S, Costanzo M, **Ehrenthal DB**, Rhoades G. Intimate partner violence screening in the prenatal period: variation by state, insurance, and patient characteristics. *Matern Child Health J*. 2019;23(6):756-767.
52. Mohamoud Y, Kirby R, **Ehrenthal DB**. Contextual poverty, urban-rural classification and term infant mortality: A population-based multilevel analysis. *BMC Pregnancy Childbirth*. 2019;19(1):40. PMID: 30669972. PMCID: PMC6343321
53. Monk C, Webster RS, McNeil RB, Parker CB, Catov JM, Greenland P, Merz CN, Silver RM, Simhan HN, **Ehrenthal DB**, Chung JH. Associations of Perceived Prenatal Stress and Adverse Pregnancy Outcomes with Perceived Stress Years After Delivery. *Arch Womens Ment Health*. 2019:1-9. PMID: 31256258
54. Mallinson D, **Ehrenthal DB**. Classification of Medicaid Coverage on Birth Records in Wisconsin. *Public Health Rep*. 2019;134(5):542-551. PMID: 31269411

55. Koning SM, **Ehrenthal DB**. Stressor Landscapes and Perinatal Health in the United States: Using Cluster Analysis to Look at Patterned Maternal Life Events and Adverse Birth Outcomes at the Intersection of Race and Poverty. *SSM Popul Health*. 2019 Aug 1;8:100460.
56. Mallinson D, Grodsky E, **Ehrenthal DB**. Gestational age, kindergarten-level literacy, and effect modification by maternal socio-economic and demographic factors. *Paediatr Perinat Epidemiol*. 2019;33(6):467-479. PMID: 31503367
57. Haas DM, Parker CB, Marsh D, Grobman WA, **Ehrenthal DB**, Greenland P, Bairey-Merz CN, et al and the National Heart, Lung, and Blood Institute nuMoM2b Heart Health Study Network. Pregnancy as a Window to Future Cardiovascular Health: association of adverse pregnancy outcomes with cardiovascular risk factors several years postpartum in the nuMoM2b-Heart Health Study. *J Am Heart Assoc*. 2019 Oct 1;8(19):e013092. PMID: 31564189
58. Cotton Q, Green-Harris G, **Ehrenthal D**, Smith P, Parry S, Kind M. A Case Study on a University-Community Partnership to Eliminate Racial Disparities in Infant Mortality: Effective Strategies and Lessons Learned. *Soc Work Public Health*. 2019;34(8):673-685. PMID: 31578940
59. Hoppe K, Kramer RD, Ha B, Rohan A, Aeschbach C, **Ehrenthal DB**. Progesterone Supplementation for the Prevention of Preterm Birth: Provider Practice in Wisconsin. *WMJ*. 2019;118(3):126-31. PMID: 31682748
60. Harville EW, Mishra GD, Yeung E, Mumford SL, Schisterman EF, Jukic AM, Hatch EE, Mikkelsen EM, Jiang H, Qu X, **Ehrenthal DB**, Porucznik CA, Stanford JB, Wen SW, Harvey A, Downs DS, Yajnik C, Santillan M, McElrath TF, Woo JG, Urbina EM, Chavarro JE, Sotres-Alvarez D, Bazzano L, Gunderson EP, Wise LA. The Preconception Period Analysis of Risks and Exposures Influencing Health and Development (PrePARED) Consortium. *Paediatr Perinat Epidemiol*. 2019;33(6):490-502. PMID: 31659792
61. Mallinson D, Larson A, Berger LM, Grodsky E, **Ehrenthal DB**. Estimating the Effect of Prenatal Care Coordination on Birth Outcomes: A Sibling Fixed Effects Analysis. *Health Serv Res*. 2020;55(1):82-93. PMID: 31701531
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63. Hartenbach EM, Kuo HH, Greene MZ, Shrider EA, Antony KM, **Ehrenthal DB**. Peripartum Blood Transfusion Among Rural Women in the United States. *Obstet Gynecol*. 2020 Mar 1;135(3):685-95. PMID: 32028506

64. Guerrero N, Wagner KM, Gangnon R, Valdez CR, Curtis MA, **Ehrenthal DB**, Jacobs EA. Food Insecurity and Housing Instability Partially Mediate the Association Between Maternal Depression and Child Problem Behavior. *J Prim Prev*. 2020;41(3):245-259. PMID:32347430

### Invited Articles

1. Weintraub WS, **Ehrenthal DB**. Establishing the effectiveness of coronary intervention for acute myocardial infarction. *Am Heart J*. 2008;155(1):6-8. PMID: 18082482.
2. **Ehrenthal DB**, Hoffman M. In reply, *Obstet Gynecol*. 2012;119(3): 657.
3. **Ehrenthal DB**, Hoffman M, Ostrum G. In reply, *Obstet Gynecol*. 2012;119(4): 870-871.
4. Bradley SL, **Ehrenthal DB**. Commentary on Beigi paper. *Hum Vaccin Immunother*. 2014;10(9):2574-2575. PMID: 25483475.
5. Bohrer J, **Ehrenthal DB**. Other adverse pregnancy outcomes and future chronic disease. *Semin Perinatol*. 2015;39(4):259-263. PMID: 26093519.
6. Kirby R, **Ehrenthal DB**. Reporting of Infant Mortality and Birth Outcomes Prior to Viability. *Paediatr Perinat Epidemiol*. 2018;32(1):129. PMID: 29076537.

### Chapters in Books

1. LeClair C, **Ehrenthal DB**, Hillard P. Amenorrhea. In: *Menstrual Disorders: A Practical Guide*. Philadelphia, PA: American College of Physicians Women's Health Series, American College of Physicians; 2006.
2. **Ehrenthal DB**, Kottenhahn R. Menstrual and Reproductive Issues in Women with Chronic Medical Problems. In: *Menstrual Disorders: A Practical Guide*. Philadelphia, PA: American College of Physicians Women's Health Series, American College of Physicians; 2006.
3. Nevin J, **Ehrenthal DB**. Menopause. In: *Women's Health in Clinical Practice*. Humana Press; 2006.
4. **Ehrenthal DB**, Carney P, Kottenhahn R, Charney P. Women's Health. In: *Andreoli and Carpenter's Cecil's Essentials of Medicine, VIII*. Saunders; 2011.
5. Kottenhahn R, **Ehrenthal DB**. Amenorrhea. In: Schwartz MW (Chief Ed), Bell LM, Bingham PM, Chung EK, Friedman DF, Loomes KM, Mamula P, Mascarenhas MR, Tanel RE (Assoc Eds.), *The 5-Minute Pediatric Consult. 6th Edition*. Philadelphia, PA: Wolters Kluwer - Lippincott Williams and Wilkins; 2012.

6. **Ehrenthal DB**, Strobino D, Minkovitz C. Maternal Obesity, Gestational Weight Gain and Early Childhood Growth. In: Nicholson W and Baptiste-Roberts K (Eds), *Obesity during Pregnancy in Clinical Practice*. Springer; 2014.
7. Kottenhahn R, **Ehrenthal DB**. Amenorrhea. In: Cabana MD (Chief Ed), Curran M, Dimeglio LA, Golden WC, Kind T, Sabella C, Tanel RE (Assoc Eds.), *The 5-Minute Pediatric Consult. 7th Edition*. Philadelphia, PA: Wolters Kluwer - Lippincott Williams and Wilkins; 2015.
8. Kottenhahn R, **Ehrenthal DB**. Amenorrhea. In: Cabana MD (Chief Ed), Curran M, Dimeglio LA, Golden WC, Kind T, Sabella C, Tanel RE (Assoc Eds.), *The 5-Minute Pediatric Consult. 8th Edition*. Philadelphia, PA: Wolters Kluwer - Lippincott Williams and Wilkins; 2018.
9. Malin C, Smulian EA, **Ehrenthal DB**, Belinda Pettiford B. Putting Life Course Into Practice. In: Verbiest S (Ed), *Translating Life Course Theory into Practice: Improving Health and Well-Being Across Generations*. APHA Press; 2018.
10. **Ehrenthal DB**, Daley E, Gillespie KH. Women's Health. In: Verbiest S and Kirby R (Eds), *Maternal and Child Health: Programs, Problems and Policy, 4th Edition*. Jones & Bartlett Learning; to be published 2020.

## Books

Senior Editor, with co-editors Paula Adams Hillard and Matthew Hoffman, *Menstrual Disorders: A Practical Guide*, American College of Physicians Women's Health Series, American College of Physicians, Philadelphia, 2006.

## Enduring Materials

1. Bennett S, Briseno K, Campbell S, Chapin J, Charney P, Cook N, **Ehrenthal DB**, Ernst D, Foody J, Haynes S, Hitch J, Johnson A, Koob S, Lazarous DF, Lewis JF, Mauery R, May K, McNellis RJ, Michos ED, Mitchell MF, Núñez AE, Pavlik L, Pearson TA, Piña IL, Pregler J, Ranck J, Roberts ME, Ruhl C, Sears V, Skarlatos S, Tate L, Taubenheim A, Wood S, Wright J, Young HF. Related Resources—New Guidelines on the Prevention of Heart Disease in Women: The Heart Truth. Medscape Education Internal Medicine, CME modules, 2011.
2. **Ehrenthal DB**. Infant Health and Wellness in Wisconsin: Improving Birth Outcomes: Clinic-Based Interventions. (Module 2) Continuing Medical Education On-Line Course, Wisconsin Medical Society, 2015

## Technical Reports (underlined indicates trainee)

1. Aeschbach C and **Ehrenthal DB**. Progesterone: A Way to Reduce Preterm Birth in Wisconsin, 2015.

2. Tou L and **Ehrenthal D**. Early Home Visiting Overview: Dane, Kenosha, Milwaukee, Racine and Rock Counties, 2016.
3. Kramer R and **Ehrenthal DB**. Provision of Long-Acting Reversible Contraceptives (LARC) in Wisconsin: Descriptive Findings from the 2015 Statewide Provider Survey, 2016.
4. Larson T, Williamson A, **Ehrenthal D**. "It's a Process." Accessing IUDs and Contraceptive Implants in Dane and Milwaukee County Outpatient Clinics, 2019.
5. Larson T, Williamson A, **Ehrenthal D**. Availability of Immediate Postpartum IUDs and Contraceptive Implants in Dane and Milwaukee County Birthing Facilities, 2019.
6. Larson T, Williamson A, **Ehrenthal D**. Access to IUDs and Contraceptive Implants in Rural Wisconsin Outpatient Clinics and Birthing Hospitals, 2019.
7. Larson T, Williamson A, **Ehrenthal D**. Access to IUDs and Contraceptive Implants in Wisconsin. Available at wisconsincan.info, 2019.

**Abstracts** (underlined indicates trainee)

1. **Ehrenthal DB**, Leuzzi R, Farber N. Preventive Health Care for Women in the Resident Continuity Clinic. Oral presentation presented at: 14th Mid-Atlantic Regional Meeting of the Society for General Internal Medicine; February 1994; Philadelphia, PA.
2. **Ehrenthal DB**, Kaminski PF, Ekbladh LE. Teaching medicine within ObGyn improved CREOG scores in primary and preventive ambulatory health care. Poster presentation at: Association of Professors of Gynecology and Obstetrics/ Council of Resident Education in Obstetrics and Gynecology Annual Meeting; March 2003; Dallas, TX.
3. **Ehrenthal DB**, Ewen EF, Maxwell LC. Low rates of obesity screening and diagnosis in high risk urban women. Poster presentation at: American Heart Association 7th Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke; April 2006 Washington, DC. (Circulation; vol. 113, no. 21, 2).
4. **Ehrenthal DB**, Kolb K, O'Neill EA, O'Neill JN, Hallman C. Short-term success of a weight management program for urban minority women. Poster presentation at: American Heart Association 7th Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke; April 2006; Washington, DC. (Circulation; vol. 113, no. 21, 25-26).
5. **Ehrenthal DB**, Jurkovitz C, Hoffman M et al. Impact of Obesity on the Risk of Pregnancy-Induced Hypertension. Oral presentation at: Renal Week of the American Society of Nephrology; 2006; San Diego, CA. (J Am Soc Nephrol; vol. 17, 101A).
6. **Ehrenthal DB**, Jurkovitz C, Hoffman M, Bowen J, Temple B, Weintraub MGW. Pre-

pregnancy body mass index modifies the risk of prematurity associated with pregnancy induced hypertension. Poster presentation at: Society of Maternal Fetal Medicine Pregnancy Meeting; 2006; San Francisco, CA (Am J Obstet Gynecology; vol. 195, Supplement 6, S221).

7. Kolm P, **Ehrenthal D**, Jurkovitz C, Hoffman M, Bowen J. Logistic Regression, Classification Tree, and Boosted Regression: A Comparison of Models in the Prediction of Pregnancy-Induced Hypertension. Poster presentation at: JSM 2007, American Statistical Association; 2007; Salt Lake City, UT.
8. **Ehrenthal DB**, Jurkovitz C, Hoffman M, Weintraub W. More common than we think: Chronic medical risks in a representative obstetrical population. Presentation at: Society for General Internal Medicine Annual Meeting; 2007; Toronto, Canada. (JGIM; vol. 22, Supplement 1, 53).
9. **Ehrenthal DB**. A multidisciplinary program providing preconception care to high risk urban women. Oral presentation at: Second National Summit on Preconception Health and Health Care; October 2007; Oakland, CA.
10. Castagnola D, Hoffman M, **Ehrenthal D**, Sciscione A, Locke R. Impact of maternal depression on perinatal outcomes. Poster presentation at: Society of Maternal Fetal Medicine Pregnancy Meeting; 2007; San Francisco, CA. (Am J Obstet Gynecol; vol. 197, no. 6, S192).
11. Castagnola D, Hoffman M, **Ehrenthal D**. Elevated prepregnancy body mass index increases the risk of cesarean delivery following labor induction at term. Poster presentation at: Society of Maternal Fetal Medicine Pregnancy Meeting; 2007; San Francisco, CA. (Am J Obstet Gynecol; vol. 197, no. 6, S102).
12. **Ehrenthal DB**. Potential impact of differential classification of low birthweight infant deaths by state. Society for Epidemiologic Research, not presented. (Amer J Epi; vol. 167 no. 11).
13. Chichester M, Records A, **Ehrenthal D**, Hoffman M. Preconception counseling after a perinatal loss. Oral presentation at: AWHONN Conference; 2008; Los Angeles, CA.
14. **Ehrenthal DB**, Wingate MS, Kirby R. Variation by state in outcomes classification for deliveries less than 500 grams in the US. Poster presentation at: Maternal Child Health Epidemiology Conference; 2008; Atlanta, GA.
15. Cole S, **Ehrenthal D**. Prenatal anemia as a risk factor for peripartum transfusion and the potential impact of antenatal intervention. Poster presentation at: American College of Obstetrics and Gynecology Annual Meeting; 2009; Chicago, IL.
16. **Ehrenthal D**, Rogers S. Status of preconception indicators in an urban population of low income women at entry to prenatal care. Oral presentation at: Maternal Child Health

Epidemiology Conference; 2009; Tampa, FL.

17. **Ehrenthal D**. Using electronic medical records to evaluate the impact of a targeted prenatal care intervention using a population effectiveness approach. Poster presentation at: Maternal Child Health Epidemiology Conference; 2009; Tampa, FL.
18. **Ehrenthal DB**, Chichester M, Cole S, Jiang X. Perinatal transfusion at a regional hospital over the past decade. Oral presentation at: Maternal Child Health Epidemiology Conference; 2010; San Antonio, TX.
19. Johnson O, **Ehrenthal DB**, Wong E, Stewart A, Ferisin A, Drees M. Receipt of H1N1 vaccine by mothers and others caring for newborns in 2009. Oral presentation at: Maternal Child Health Epidemiology Conference; 2010; San Antonio, TX.
20. Maiden KM, Bartoshesky L, Kirby R, **Ehrenthal DB**. Case validation for a statewide birth defects registry. Poster presentation at: Maternal Child Health Epidemiology Conference; 2010; San Antonio, TX.
21. **Ehrenthal DB**, Hoffman M, Ostrum G, Jiang, X. The effectiveness of guidelines limiting elective delivery prior to 39 weeks at lowering rates of NICU admission. Poster presentation at: Society of Maternal Fetal Medicine; 2011; San Francisco, CA.
22. **Ehrenthal DB**, Hoffman M, Ostrum G. The impact of guidelines limiting elective delivery prior to 39 weeks on rates of elective induction and cesarean delivery. Poster presentation at: Society of Maternal Fetal Medicine; 2011; San Francisco, CA.
23. Maiden K, Stomieroski K, Acheson A, Bartoshesky L, **Ehrenthal DB**. Birth defect case ascertainment utilizing state collaboration to obtain stillbirth data. Poster presentation at: National Birth Defects Prevention Network Meeting; 2011; Orlando, FL.
24. Morrone D, Bradley E, **Ehrenthal D**. Inclusion of pregnancy history in cardiovascular risk screening for women. Poster presentation at: American Heart Association 12th Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke; 2011; Washington, DC.
25. **Ehrenthal DB**, Maiden K, West D. Utilizing Data linkage techniques to create a longitudinal cohort to study maternal risk factors for childhood obesity. Poster presentation at: Maternal Child Health Epidemiology Conference; 2011; New Orleans, LA.
26. Rogers S, Maiden K, **Ehrenthal DB**. Examining the relationship between preconception and pregnancy complications and breastfeeding practices. Poster presentation at: Maternal Child Health Epidemiology Conference; 2011; New Orleans, LA.
27. **Ehrenthal D**, Tambourelli B, Denstman A, Zent R, McGraw M, Johnson O, Drees M. Influenza vaccination rates among pregnant women during and after the H1N1 influenza

season. Oral presentation at: Maternal Child Health Epidemiology Conference; 2011; New Orleans, LA.

28. Maiden K, Stomieroski K, Bartoshesky L, Acheson A, **Ehrental DB**. Reporting of ventricular septal defects by state birth defect registries. Poster presentation at: National Birth Defects Prevention Network Meeting; 2012; Arlington, VA. **Winner Best Poster in Case Ascertainment.**
29. **Ehrental DB**. Maternal determinants of childhood obesity. Oral presentation at: Society for General Internal Medicine Mid-Atlantic Meeting; March 2012; Newark, DE. **Winner, Best Faculty Oral Presentation.**
30. **Ehrental DB**, Maiden K, Gidding S, Ross J. The relationship of fetal and early child growth to obesity risk at four years of age. Poster presentation at: Pediatric Academic Society; April 2012; Boston, MA.
31. Cho B, Maiden K, **Ehrental DB**. Effect of spontaneous labor on neonatal respiratory morbidity at term planned caesarean delivery. Poster presentation at: American Congress of Obstetricians and Gynecologists (ACOG) Annual Clinical Meeting; 2012; San Diego, CA.
32. **Ehrental DB**, Carterette B, Rao A, Maiden K, West D, Gidding S, Ross J, Bartoshesky L. Preconception and perinatal maternal factors associated with early childhood obesity. Poster presentation at: NISBRE Conference; June 2012; Washington, DC.
33. Jiang L, O'Neill E, Rogers S, **Ehrental DB**. Using *Photovoice* to involve, engage, and empower teens in Wilmington. Screening at the Film Festival, American Public Health Association (APHA) Annual Meeting; October 2012; San Francisco, CA.
34. Rao A, Maiden K, Carterette B, **Ehrental D**. Predicting baby feeding method from unstructured electronic health record data. DTMBIO'12: ACM Sixth International Workshop on Data and Text Mining in Biomedical conference proceedings; October 2012; Maui, HI.
35. **Ehrental DB**, Maiden K, Bartoshesky L, Gidding S. The contribution of maternal medical factors to the risk of SGA in a diverse community practice-based sample. Poster presentation at: Society of Maternal Fetal Medicine; 2013 San Francisco; CA.
36. **Ehrental DB**, Maiden K, Bartoshesky L, Gidding S. Early childhood overweight and obesity among children born low birth weight or small for gestational age. Poster presentation at: Society of Maternal Fetal Medicine; 2013; San Francisco, CA.
37. Maiden K, Daniel L, **Ehrental DB**. Emergency care and readmission during the postpartum period. Poster presentation at: Society of Maternal Fetal Medicine; 2013; San Francisco, CA.

38. **Ehrenthal DB**, Chichester M, Hoffman M. Outcomes at a regional obstetrical hospital four years after implementation of the “39 week rule”. Poster presentation at: Society of Maternal Fetal Medicine; 2013; San Francisco, CA.
39. Maiden K, Stomieroski K, Bartoshesky L, Acheson A, **Ehrenthal DB**. A rational approach to inclusion of renal collecting system abnormalities. Poster presentation at: National Birth Defects Prevention Network Meeting; 2013; Atlanta, GA.
40. **Ehrenthal DB**, et al. Breastfeeding, Infant Weight Gain, and Early Childhood Obesity. Oral presentation at: Pediatric Academic Society; May 2013; Washington DC.
41. Slack M, McGlaughlin K, Maiden K, **Ehrenthal DB**. Contraceptive use among female college students reporting prior use of emergency contraception. Poster presentation at: Pediatric Academic Society; May 2013; Washington DC.
42. O'Loughlin JA, Laughon SK, Mendola P, Männistö T, Xie Y, Chen Z, Werder E, **Ehrenthal D**, Kiely M. The effect of maternal psychiatric illness on length of gestation. Poster presentation at: 26th Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research (SPER); June 2013; Boston, MA.
43. Maiden K, Ortiz J, Joseph J, Murphy O, **Ehrenthal DB**. Hospital staff use of interpreter services for patients with limited English proficiency. Poster presentation at: American Public Health Association (APHA) Annual Meeting; November 2013; Boston, MA.
44. Maiden K, Rogers S, Kopec V, **Ehrenthal DB**. Health care of women before, during, and after a pregnancy complicated by gestational diabetes or hypertension. Poster presentation at: American Public Health Association (APHA) Annual Meeting; November 2013; Boston, MA.
45. Joseph J, Maiden K, Ortiz J, Acero C, **Ehrenthal DB**. Language needs and health literacy for post-partum mothers. Oral presentation at: American Public Health Association (APHA) Annual Meeting; November 2013; Boston, MA.
46. Michelic B, Maiden K, Ortiz J, Bell A, **Ehrenthal DB**. Expanding the discussion on medical interpreters in the inpatient setting. Oral presentation at: American Sociological Society; August 2014; San Francisco, CA.
47. Thomas MA, Chichester M, Thompson D, **Ehrenthal D**. Readmission for hypertension in postpartum women over a five year period at a tertiary care facility. Poster presentation at: Society for Maternal Fetal Medicine; 2015; San Diego, CA. (*Am J Obstet Gyn*; vol. 212, no. 1, S193).
48. Paul D, Agiro A, Hoffman M, Denmark C, Brazen A, Pollack M, **Ehrenthal DB**. Factors Associated with Hospital Readmission and Emergency Department (ED) Utilization in a Newborn Medicaid Population. Oral presentation at: Pediatric Academic Societies; 2015; San Diego, CA.

49. Agiro A, Hoffman M, **Ehrenthal DB**, Denmark C, Brazen A, Pollack M, Paul D, Boehmer C, Barron J. Insights on Factors Associated with Post-Delivery Readmission and Emergency Department (ED) Utilization in a Population of Medicaid Mothers to Benefit Case Management Development. Oral presentation at: Academy Health; 2015; Minneapolis, MN.
50. McClure SK, Patel NR, Hoffman MK, **Ehrenthal DB**. Effect of Unplanned Pregnancy on Contraceptive Method Selection: Are Long-Acting Reversible Contraceptives Underutilized? Poster presentation at: American Congress of Obstetricians and Gynecologists (ACOG) meeting; 2015; San Francisco, CA. (Obstet Gynecol; vol. 125, 68S).
51. Rohan A, Aeschbach C, Hoppe K, Kramer R, **Ehrenthal DB**. Progesterone Supplementation for the Prevention of Preterm Birth: Provider Practice in Wisconsin. Oral presentation at: Maternal and Child Health Epidemiology Conference; 2016; Philadelphia, PA.
52. Kramer R, Higgins J, Godecker A, **Ehrenthal DB**. Differences in Determinants of Long-Acting Reversible Contraceptive Use by Race in the United States.” Poster presentation at: Maternal and Child Health Epidemiology Meeting; 2016; Philadelphia, PA.
53. McWilliams C, **Ehrenthal DB**. Understanding concordance of reported contraceptive use among partners.” Poster presentation at: Maternal and Child Health Epidemiology Meeting; 2016; Philadelphia, PA.
54. Mohamoud Y, Nobles J, Godecker A, **Ehrenthal DB**. Understanding the Declining Infant Mortality Rate in the United States. Poster presentation at: Maternal and Child Health Epidemiology Meeting; 2016; Philadelphia, PA.
55. Bergmans R, Berger L, Palta M, Robert S, **Ehrenthal D**, Malecki K. Enrollment in the Supplemental Nutrition Assistance Program, depressive symptoms, and modification by program perception: Findings from the Fragile Families and Child Wellbeing Study. Poster presentation at: American Public Health Association (APHA) Annual Meeting; 2016; Denver, CO.
56. Mohamoud Y, **Ehrenthal DB**, Nobles J. Poverty and Infant Mortality among Term Newborns in the United States. Poster presentation at: American Public Health Association (APHA) Annual Meeting; 2016; Denver, CO.
57. Olson E, Schmuhl N, Anderson C, **Ehrenthal D**. Healthcare provider concerns about immediate postpartum long-acting reversible contraception (LARC). Roundtable at: American Public Health Association (APHA) Annual Meeting; 2016; Denver, CO.

58. **Ehrenthal DB**, Gibson C, Olson E, Lauer J, Schmuhl N. Opportunities to expand access to long acting reversible methods: gaps in provider practice. Roundtable at: American Public Health Association (APHA) Annual Meeting; 2016; Denver, CO.
59. Godecker A, Corbett M, Smulian E, McWilliams C, **Ehrenthal DB**. Evaluation of a Multi-level Initiative to Improve Healthy Birth Outcomes Among African American Women in Wisconsin. Poster presentation at: Association of Maternal and Child Health Programs, March 2017; Kansas City, MO.
60. Smith P, Smulian E, Rohan A, **Ehrenthal DB**. Academic, Public Health, and Community Collaboration for PRAMS Data-to-Action in Wisconsin. Workshop at: Association of Maternal and Child Health Programs; March 2017; Kansas City, MO.
61. Allen C, McNeely C, **Ehrenthal D**. Can Screening for Self-Rated Health Improve Prediction of Whether Adolescent Patients Will Be Diagnosed With a Chronic Disease in Young Adulthood? A Longitudinal Cohort Study. Poster presentation at: Society for Adolescent Health and Medicine; 2017; New Orleans, LA.
62. Mallinson D, **Ehrenthal DB**. Misclassification of Medicaid coverage on birth records in Wisconsin, 2011-2012: Characteristics and implications. Poster presentation at: Society for Epidemiologic Research; June 2017; Seattle, WA.
63. Mohamoud Y, Nobles J, **Ehrenthal DB**. Effect of Contextual Poverty on Term Newborn Survival. Poster presentation at: Society for Epidemiologic Research; June 2017; Seattle, WA.
64. Koning S, McCarty A, **Ehrenthal DB**. Underlying Social Determinants of Perinatal Health: A Closer Look at Low Birthweight Risk at the Intersection of Race and Socioeconomic Disadvantage. Poster presentation at: Society for Epidemiologic Research; June 2017; Seattle, WA.
65. McWilliams C, **Ehrenthal DB**. Future Orientation and Contraceptive Use in Adolescents. Poster presentation at: Society for Epidemiologic Research; June 2017; Seattle, WA.
66. Catov JM, McNeil RB, Greenland P, Bairey Merz N, **Ehrenthal DB**, Parker CB, Grobman W, for the NICHD NuMoM2b and NHLBI NuMoM2b Heart Health Study Networks, Ten year predicted cardiovascular disease risk in young women with adverse pregnancy outcomes. Poster presentation at: AHA Epi/Lifestyle Meeting; 2018; New Orleans, LA.
67. Koning S, **Ehrenthal DB**. Using an Intersectionality-Based Approach to Investigate Social Patterns of Perinatal Risk at the Intersection of Race and Poverty. Poster presentation at: Population Association of America; April 2018; Denver, CO.

68. Larson A, Mallinson D, Berger LM, Grodsky E, **Ehrenthal DB**. Variable Uptake of Medicaid-Covered Prenatal Care Coordination: The Relevance of Treatment Level and Service Context. Poster presentation at: Academy Health; 2018; Seattle, WA.
69. Mallinson D, **Ehrenthal DB**. Classification of Medicaid Coverage on Birth Records in Wisconsin. Poster presentation at: Academy Health; 2018; Seattle, WA.
70. **Ehrenthal DB**, Larson A, Mallinson D, Berger LM, Grodsky E. Integrating Data Systems to Expand the Evidence-Base for Maternal and Child Health Interventions. Oral presentation at: Academy Health; 2018; Seattle, WA.
71. **Ehrenthal DB**, Kuo D, Mohamoud Y. Linked Birth-Infant Death Files: Period? Cohort? What's all the fuss? Oral presentation at: Maternal and Child Health Epidemiology Meeting; 2018; Portland, OR.
72. **Ehrenthal DB**, Kuo D, Godecker A, Mohamoud Y. Why is African American Infant Mortality in Wisconsin the Worst Among US states? Oral presentation at: Maternal and Child Health Epidemiology Meeting; 2018; Portland, OR.
73. Williamson A, **Ehrenthal DB**, Lankton R. The Evidence Base for Maternal and Infant Health: Moving Down the Health Impact Pyramid. Poster presentation at: Maternal and Child Health Epidemiology Meeting; 2018; Portland, OR.
74. Kramer R, **Ehrenthal DB**. Understanding Variation in Extremely Short Inter-Pregnancy Intervals in the United States. Oral presentation at: Maternal and Child Health Epidemiology Meeting; 2018; Portland, OR.
75. Mohamoud Y, **Ehrenthal DB**. Area Poverty and the Leading Causes of Term Infant Death: United States 2013. Poster presentation at: Maternal and Child Health Epidemiology Meeting; 2018; Portland, OR.
76. Curtis E, Taboada M, Raymo N, **Ehrenthal DB**. Health Professionals' Attitudes and Barriers Around the Implementation of Evidence-based Preconception Care. Oral presentation at: American Public Health Association (APHA) Annual Meeting; 2018; San Diego, CA.
77. Shrider E, Kuo D, Kirby R, Godecker A, **Ehrenthal D**. Infant Mortality across the Rural-Urban Gradient in the United States. Oral presentation at: Population Association of America Annual Meeting; April 2019; Austin, TX.
78. Greene M, Hartenbach E, Kuo D, Shrider E, **Ehrenthal D**. Adverse Maternal Outcomes across the Rural-Urban Gradient in the United States. Oral presentation at: Population Association of America Annual Meeting; April 2019; Austin, TX.
79. Kramer R, **Ehrenthal DB**. Understanding Associations Between State-Level Policy Factors and Very Short Inter- Pregnancy Intervals in the United States: The Role of

County Urban-Rural Status. Population Association of America Annual Meeting; April 2019; Austin, TX. **Best Poster Award**

80. Hartenbach E, Kuo HD, Greene M, Shrider E, Antony K, **Ehrenthal D**. More Blood Transfusions for Rural Women Delivering Low Risk Infants in the United States. Poster presentation at: ACOG Annual Clinical and Scientific Meeting; May 2019; Nashville, TN.
81. Antony KM, HD Kuo, Greene M, Hartenbach E, **Ehrenthal D**. Primary Cesarean Birth Rates among Women with Obesity Delivering at Urban and Rural Hospitals in the USA. Poster presentation at: ACOG Annual Clinical and Scientific Meeting; May 2019; Nashville, TN.
82. Greene M, Hsiang-Hui DK, Hartenbach E, Shrider E, Ehrenthal D. Attempted and Successful VBAC Across Geographic Areas in the United States. Poster presentation at: ACOG Annual Clinical and Scientific Meeting; May 2019; Nashville, TN.
83. Mallinson D, Grodsky E, Berger L, **Ehrenthal DB**. Gestational Age, Early Literacy, and Modification by Maternal Socioeconomic or Demographic Factors. Poster presentation at: Society for Epidemiologic Research and Society for Pediatric and Perinatal Epidemiology, June 2019; Seattle, WA.
84. **Ehrenthal DB**, Taboada M. Long-Acting Reversible Contraceptives (LARCs) at the Nexus of Medicine, Public Health, and Social Policy. American Public Health Association (APHA) Annual Meeting; November 2019; Philadelphia, PA.
85. Mallinson DC, **Ehrenthal DB**. Prenatal Care Coordination and birth spacing among Medicaid beneficiaries in Wisconsin. Population Association of America Annual Meeting (2020), Washington, DC. Poster presentation. [Accepted — conference canceled due to 2020 COVID-19 disease outbreak.]
86. **Ehrenthal DB**, Berger L. Using Linked Multi-Source Administrative Data To Study Prenatal Opioid Exposure Across A Population Of Mothers And Their Children. Population Association of America Annual Meeting (2020), Washington, DC. Oral presentation. [Accepted — conference canceled due to 2020 COVID-19 disease outbreak.]
87. DeBoth A, **Ehrenthal DB**. Urban-rural, regional, and cause-specific infant mortality disparities among the American Indian and Alaska Native population in the United States, 2011-2014, Population Association of America Annual Meeting (2020), Washington, DC. Oral presentation. [Accepted — conference canceled due to 2020 COVID-19 disease outbreak.]

## INVITED RESEARCH PRESENTATIONS

### Local

“Obesity in Women”. Center for Outcomes Research Lunch and Learn Series, Christiana Care Health System; June 2006.

“Study of Program Implementation: Healthy Beginnings”. Center for Outcomes Research Lunch and Learn Series, Christiana Care Health System; 2007.

“Perinatal Outcomes in Delaware”. Christiana Center for Outcomes Research Lunchtime Symposium, Christiana Care Health System; June 2010.

“Neonatal Outcomes after Implementation of the 39 Week Rule”. Department of Obstetrics and Gynecology Grand Rounds, Christiana Care Health System; March 2011.

“Women’s Health Research”. Institutional Review Board Annual Retreat, Christiana Care Health System; March 2012.

“Comparison of Robotic and Abdominal Hysterectomy for Benign Disease”. Department of Obstetrics and Gynecology Grand Rounds, Christiana Care Health System; July 2012.

“Using Electronic Health Record Data to Study Maternal and Child Health”. Population Health Seminar, University of Wisconsin School of Medicine and Public Health; November 2014.

“Using Electronic Health Record Data to Study Maternal and Child Health: A focus on the early life course”. Institute for Research on Poverty Seminar Series, University of Wisconsin-Madison; September 2015.

“Studying Obstetrical Outcomes Using Electronic Health Record Data”. Department of Obstetrics and Gynecology Grand Rounds, University of Wisconsin School of Medicine and Public Health; October 2015.

“Population Health”. Panel discussant, Robert Wood Johnson Health & Society Scholars Program Scholarpalooza, University of Wisconsin-Madison; June 2016.

“Big Data for Little Kids: Studying the Impact of Prenatal Interventions on Birth Outcomes and School Readiness”. Obstetrics and Gynecology Research Day, University of Wisconsin School of Medicine and Public Health; May 2017.

“Using Linked Multisource Administrative Data to Study Women’s and Children’s Health”. Department of Population Health Sciences, University of Wisconsin School of Medicine and Public Health; November 2019.

## **Regional**

“Using Clinical Data to Study Women’s Health”. Plenary presenter, Women’s and Children’s Health Research Conference, Delaware Health Science Alliance, University of Delaware; December 2010.

“Teen Births in Delaware: Context, Correlates, Consequences and Costs”. Presentation to the Delaware Kids Caucus; November 2011.

“Teen Births in Delaware: Context, Correlates, Consequences and Costs”. Delaware Teen Pregnancy Prevention Advisory Board; September 2012

“Maternal Health and the Postnatal Environment: Impacts on Childhood Obesity”. Katherine L. Esterly Childhood Development Conference, Delaware Academy of Medicine, Delaware; April 2013.

“Big Data for Little Kids”. Presentation to the Office of Health Informatics, Wisconsin DHS; December 2016.

“Big Data for Little Kids”. Presentation to the Department of Public Instruction, Race to the Top Team, Wisconsin; January 2017.

“Adverse Birth Outcomes: Determinants, Effects, and Potential Solutions”. Wisconsin DCF/IRP Learning Exchange, Wisconsin; March 2017.

## **National**

“Using Community Resources to Teach Women’s Health”. A workshop presentation with Drs. Christine Oman, Montez Mutzig and Virginia Collier, Society for General Internal Medicine 21st Annual Meeting, Chicago, IL; April 1998.

“Community Based Adolescent Medicine, Geriatrics and Women’s Health”. A workshop presentation with Drs. Renee Kottenhahn, Alfred Bacon, Patricia Curtin and Virginia Collier, Association of Program Directors in Internal Medicine Annual Meeting, Chicago, IL; September 1998.

“Preconception Health Care: the Internist’s Role”. A workshop presented with J Silverstein, M Hoffman and M Phillips at the Society for General Internal Medicine 2007 Annual Meeting, Toronto; 2007.

“CVD Prevention and the Primary Care Partnership: Unique Opportunities to Address CVD Risk in Women”. 17th Annual Congress on Women’s Health, Williamsburg, VA; 2009.

“Change of Heart: Motivating Patient Change”. 6th Annual HeartCaring Conference, sponsored by the Spirit of Women and the Federal Office on Women’s Health; May 2010.

“Reducing Elective Early Term Delivery: Strategies and Outcomes”. MCH Epidemiology Grand Rounds, CDC; October 2010.

“Scientific writing for peer-reviewed publications for public health professionals”. A workshop for faculty, American Public Health Association Annual Meeting, Boston, MA; 2013.

“Gestational Diabetes and Vascular Risk”. Featured speaker, National Artery Association Sixth Annual Meeting, University of Illinois at Chicago; September 2016.

“Reducing Adverse Birth Outcomes”. National Webinar, Institute for Research on Poverty; February 2018.

“Postpartum health care after GDM and hypertension”. Invited speaker, 16th Biennial Meeting, Diabetes in Pregnancy Study Group of North America, Washington, DC; November 2019.

“Mining the “Data Landfill” Using Linked Multisource Administrative Data to Study Women’s and Children’s Health”. Distinguished Seminar, Center for Bioinformatics & Computational Biology (CBCB) and the Data Science Institute (DSI), University of Delaware, Newark, DE; October 2019.

“Using Multisource Administrative Data to Study the Health of Women and their Children” Distinguished Lecturer, Penn State College of Medicine, Hershey, PA; February 2020.

## **SERVICE ACTIVITIES**

### ***Departmental at Christiana Care Health System***

- 2008-2014 Member, Member, Human Resources Advisory Committee, Christiana Care Health System
- 2008-2014 Member, Department of Medicine Clinical Research Committee, Christiana Care Health System
- 2008-2014 Co-chair, Perinatal Behavioral Health Steering Committee, Christiana Care Health System
- 2009-2014 Member, Health Equity Committee, Christiana Care Health System
- 2010-2014 Member, Wellness Council, Christiana Care Health System
- 2011-2013 Chair, Data Safety and Monitoring Board, Team UF, PI M Salzberg, Christiana Care Health System
- 2013-2014 Co-chair, Health Equity Committee, Christiana Care Health System

### ***Departmental at UW School of Medicine and Public Health***

- 2014-2016 Member, Research and Development Committee, Department of Obstetrics and Gynecology
- 2014-2016 Member, Faculty Mentoring Committee, Department of Obstetrics and Gynecology
- 2016-present Member, Research Advisory Committee, Department of Obstetrics and Gynecology

- 2019-present Member, Chair's Research Leadership Team, Department of Obstetrics and Gynecology
- 2018-present Preventive Medicine Residence Evaluation Committee
- 2018-present Epidemiology and Population Health Curriculum Committee

***University of Wisconsin-Madison***

- 2014-2016 Member, MPH Curriculum Committee, Department of Population Health Sciences
- 2014-2017 Member, Executive Committee, Building Interdisciplinary Research Careers in Women's Health (BIRCWH)
- 2015 Pilot Grant Reviewer, Institute for Clinical and Translational Research
- 2015-2016 Member, Advisory Committee, Center for Urban and Population Health
- 2016-2017 Review Committee, Building Interdisciplinary Research Careers in Women's Health (BIRCWH)
- 2016-2019 Member and Institutional Contact, UW-Madison Big Ten Academic Alliance "Provosts" Health Equity Team
- 2017 & 2018 Grant reviewer, Wisconsin Partnership Program Collaborative Health Sciences Program Grants
- 2017-present Co-Chair, co-chair the Steering Committee for the UW Health Community Health Implementation of the Dane County Initiative to Reduce AA Preterm Birth
- 2018-2019 Coordinator, Reproductive Equity Cluster Hire Initiative
- 2019 Fellowship Review Committee, SciMed GMS
- 2019 Grant reviewer, Contemporary Social Problems
- 2020 Member, UW Building Interdisciplinary Research Careers in Women's Health (BIRCWH) Interdisciplinary Advisory Committee (IAC)

***Community***

- 2007-2014 Member, Delaware Healthy Mother and Infant Consortium, Data and Science sub-committee
- 2009-2014 Member, Home Visiting Community Advisory Board, Delaware
- 2009-2014 Member, Birth Defects and Autism Registry Advisory Committee, Delaware Division of Public Health
- 2010-2014 Member, Advisory Board, Delaware Prostitution Diversion Program Coalition and Office on Women's Health Coalition for a Healthier Community
- 2010-2014 Member, Community Engagement Task Force of the Delaware Health Science Alliance

- 2012-2014 Member, Delaware Maternal Mortality Review
- 2011-2014 Member, Institutional Review Board, University of Delaware
- 2014-2016 Member, Council on Health Care Quality and Population Health, Wisconsin Medical Society
- 2015-present Founding member, Wisconsin Perinatal Quality Collaborative (2015) and the Wisconsin Child Health Quality Collaborative (2017)
- 2016 Co-founder, Wisconsin Contraceptive Access Network (WI-CAN)
- 2017-2018 Evaluation committee member, Northeast Early Childhood Zone, Rennebohm Foundation
- 2017-present Member, Pregnancy Risk Assessment and Monitoring System (PRAMS) Advisory Committee, Wisconsin Department of Health
- 2018-present Member, Maternal Mortality Review Team, State of Wisconsin

***Regional***

**Organizing roles in scientific meetings**

- 2000 Co-chair, program committee, Annual Meeting of the Delaware Chapter of the American College of Physicians
- 2001 Chair, program committee, Annual Meeting of the Delaware Chapter of the American College of Physicians
- 2002 Course director, "Women and Heart Disease", a professional conference for Christiana Care Health System
- 2010 Member, Program committee, Delaware Health Sciences Alliance, Conference on Research in Women's and Children's Health
- 2012 Member, Program committee, Delaware Health Sciences Alliance, Community Engagement
- 2013 Chair, abstract committee, Society of General Internal Medicine, Mid-Atlantic Regional Meeting
- 2014 Co-chair, abstract committee, Society of General Internal Medicine, Mid-Atlantic Regional Meeting
- 2018-2019 Member, Planning Committee, Wisconsin Contraceptive Access Network (WI-CAN) Contraceptive Care Summit

***National/International***

**Ad hoc reviewer**

- American Journal of Obstetrics and Gynecology
- Annals of Internal Medicine
- BMC Research Notes
- BMC Pediatrics

BMC Public Health  
 British Journal of Obstetrics and Gynecology  
 British Medical Journal  
 Health Services Research  
 JAMA  
 Journal of Applied Social Sciences  
 Journal of Clinical Hypertension  
 Journal of the American College of Cardiology  
 Journal of Pediatrics  
 Journal of Perinatology  
 Journal of Women's Health  
 Maternal and Child Health Journal  
 Pediatrics  
 Pharmacoepidemiology and Drug Safety  
 PLOS One  
 Social Science & Medicine  
 SSM-Population Health  
 Wisconsin Medical Journal

### **National Scientific Panels**

2010-2011 Member, Heart Truth Expert Panel, Federal Office on Women's Health, Health Resources and Services Administration  
 2009-2010 Member, Core State Preconception Health Surveillance Indicators Working Group, Centers for Disease Control and Prevention  
 2012 Member, Subject Matter Expert Panel, review of State Infant Mortality Toolkit, Centers for Disease Control and Prevention, AMCHP, and the March of Dimes  
 2013-2015 Co-chair, Cardiovascular Committee, NuMoM2b Heart Health Study, National Heart, Lung and Blood Institute, National Institutes of Health  
 2016 Participant, Nursing Science Roundtable at Islandwood, University of Southern California School of Social Work  
 2014-present The Leaders Empowering the Advancement of Diversity in Education Research and Science (LEADERS) in Women's Health Committee

### **Federal Grant Review Activities**

2006 Reviewer, Special Emphasis Panel/Scientific Review Group, National Institutes of Health  
 2011 Reviewer, Special Emphasis Panel/Scientific Review Group, Centers for Disease Control and Prevention  
 2013 Reviewer, Smart Health and Wellbeing, National Science Foundation  
 2014 Reviewer, Smart Health and Wellbeing, National Science Foundation

- 2015 Reviewer, R40 MCH Research Program, Maternal and Child Health Bureau, DHHS
- 2015 Reviewer, Center for Scientific Review Special Emphasis Panel, National Institutes of Health
- 2015 Reviewer, Center for Scientific Review, Special Emphasis Panel/Scientific Review Group, National Institutes of Health
- 2016 Reviewer, R40 MCH Research Program, Maternal and Child Health Bureau, DHHS
- 2016 Reviewer, National Center for Chronic Disease Prevention and Health Promotion Special Emphasis Panel, Centers for Disease Control and Prevention
- 2016 Reviewer, National Institute for Nursing Research Special Emphasis Panel, Special Emphasis Panel/Scientific Review Group, National Institutes of Health
- 2017 Reviewer, *Eunice Kennedy Shriver* National Institute for Child Health and Human Development, Special Emphasis Panel/Scientific Review Group, National Institutes of Health
- 2018 Reviewer, Research Networks (HRSA), Maternal and Child Health Bureau, DHHS
- 2018 Reviewer, Center for Scientific Review, DIRH Study Section (ad hoc member), National Institutes of Health
- 2018 Reviewer, *Eunice Kennedy Shriver* National Institute for Child Health and Human Development, Special Emphasis Panel/Scientific Review Group, National Institutes of Health

**Organizing roles in scientific meetings**

- 2009-current Abstract reviewer, Maternal Child Health Epidemiology Annual Meeting
- 2013-current Abstract Reviewer, Medical Care Section, American Public Health Association
- 2015-2016 Planning Committee, CityMatCH Leadership and Maternal and Child Health (MCH) Epidemiology 2016 Conference

**EDUCATIONAL ACTIVITIES AND PRESENTATIONS IN WISCONSIN**

***Major Teaching Responsibilities in Wisconsin***

PI and Director, Health Disparities Research Scholar Program (T32), School of Medicine and Public Health, University of Wisconsin-Madison, 2014-current.

Faculty, Graduate Programs in Epidemiology and Population Health, University of Wisconsin School of Medicine and Public Health.

Faculty, Master of Public Health Program, University of Wisconsin School of Medicine and Public Health.

Faculty, Preventive Medicine Residency Program, University of Wisconsin School of Medicine and Public Health.

Course director, Reproductive and Perinatal Epidemiology, (PHS 699 (now PHS 807); 2 credit class, Fall 2015 and Fall 2019.

Course co-director, PHS 820, Graduate Student Seminar. Predoctoral students. Fall 2019.

### ***Classroom Teaching***

Lecturer, “Menopause”, Topics in Women’s Health. Departments of Women’s Studies and Sociology, University of Delaware, October 1998 and 1999. Undergraduates.

Lecturer, “Sorting Through the Confusion Over Estrogen”. Frontiers of Biology, Academy of Lifelong Learning, University of Delaware, November 2002. Adult continuing education.

Lecturer, Leadership in Medicine and Public Health (PHS 712), Department of Population Health Sciences, University of Wisconsin School of Medicine and Public Health, 2015, 2016, 2017, 2018, 2019. Medical students.

Lecturer, AHEC Women’s Health Course: Wisconsin Express – Women’s Health in Wisconsin, University of Wisconsin School of Medicine and Public Health, January 2016 and March 2018. Undergraduates.

Lecturer, “Maternal and Child Health”. Preventive Medicine Grand Rounds, University of Wisconsin School of Medicine and Public Health, Spring 2017.

Lecturer, “Public Health Surveillance Systems”. Preventive Medicine Grand Rounds, University of Wisconsin School of Medicine and Public Health, Fall 2017.

Lecturer, “Early Life Determinants of Chronic Disease”. Introduction to Public Health (PHS 370), Department of Population Health Sciences, University of Wisconsin School of Medicine and Public Health, Winter 2018.

Lecturer, “Determinants of Health Across the Lifecourse”. Principles of Population Health Science (PHS 795), Department of Population Health Sciences, University of Wisconsin School of Medicine and Public Health, 2015, 2016, 2017, 2018, 2019.

Lecturer, “Data Linkages”. Monitoring Population Health (PHS 803), Department of Population Health Sciences, University of Wisconsin School of Medicine and Public Health, 2016, 2017, 2018, 2020.

### ***CME Presentations***

#### **Departmental**

“The One Minute Preceptor”. With J Jordan as part of the Christiana Care Department of Medicine Faculty Development Seminar Series for Community Based Preceptors; January 2001.

“Office Management of Hypertension: Goals for 2002”. Obstetrics and Gynecology Grand Rounds, Christiana Care Health System; March 2002.

“Contraception in the Medically Complex Patient”. Obstetrics and Gynecology Grand Rounds, Christiana Care Health System; May 2003.

“Preconception Care”. Pediatric Grand Rounds, Christiana Care Health System; February 2007.

“Heart Disease and Stroke in Women”. Panelist, Christiana Care Health System; 2007.

"Centering Pregnancy". Department of Obstetrics and Gynecology Grand Rounds, Christiana Care Health System; January 2013.

“Keeping it Real: What Do We Know About Reproductive Health Care Across Wisconsin?”. Department of Obstetrics and Gynecology Grand Rounds, University of Wisconsin School of Medicine and Public Health; June 2018.

### **State & Regional**

"The Clinical Breast Exam". A workshop with J Jordan, Delaware Chapter American College of Physicians Annual Scientific Meeting; February 2000.

“Estrogen Replacement Therapy in the New Era: Pros and Cons”. Lecture for the Delaware Academy of Family Physicians Winter Course; March 2003.

“Is There a Role for Estrogen in the Middle-aged and Older Woman?”. Lecturer and panel discussant, Annual Breast Cancer Update, Delaware Breast Cancer Coalition; April 2003.

“Why Every Internist Needs to Know About Contraception: Contraception for the Medically Complex Patient”. A workshop with R Kottenhahn and A Smalls, Society for General Internal Medicine Mid-Atlantic Meeting, Philadelphia, PA; February 2004.

“Obesity in Women: Current projects”. Welch Center for Prevention, Epidemiology and Clinical Research, Johns Hopkins University; May 2006.

“Preconception Care, the Critical Role of the Primary Care Physician”. Keynote speaker, Pursuing Motherhood Preconception Care Conference, Wilmington, DE; May 2007.

“Preconception Care”. Medicine Grand Rounds, St Peter’s Hospital, New Brunswick; October 2007.

“Providing Preconception Care to High Risk Women in Delaware”. 3<sup>rd</sup> Annual Summit on Maternal Child Health; June 2008.

“Update on Women’s Health”. Clinical Pearls, sponsored by the Delaware Academy of Medicine; October 2010.

“Evidence-Based Guidelines to Prevent Heart Disease in Women”. Veterans Administration Hospital, Delaware; February 2011.

“What’s New in Women’s Health?”. Medical Society of Delaware Annual Meeting; March 2012.

“Life Course Concepts: Implications for Improving Birth Outcomes”. Council on Health Care Quality and Population Health, Wisconsin Medical Society; December 2014.

“Addressing Maternal & Infant Mortality & Morbidity”. Keynote speaker, The American Congress of Obstetricians and Gynecologists (WI-ACOG), Kohler, WI; 2015.

“PRAMS: An Investment in Reducing the Black - White Gap in Infant Mortality”. CDC PRAMS Wisconsin Site Visit, Wisconsin; August 2016.

“Adverse Birth Outcomes: Determinants, Effects, and Potential Solutions”. 9<sup>th</sup> Annual Innovations in Women’s Health, Madison, WI; November 2017.

“Why Does Wisconsin Continue to Have Wide Racial Disparities in Birth Outcomes?”. 10<sup>th</sup> Annual Innovations in Women’s Health, Madison, WI; November 2018.

“Public Health Updates and Initiatives in Wisconsin”. Invited speaker, The American Congress of Obstetricians and Gynecologists (WI-ACOG), Sheboygan, WI; October 2018.

“Immediate Postpartum Contraception: Moving from Recommendation to Action”. With Bennett, Larson, Rivas, Wautlet, Wisconsin Association for Perinatal Care Annual Meeting, Wisconsin; 2018.

“Contraception for Complex Patients: the CDC Medical Eligibility Criteria”. Workshop at the Wisconsin Contraceptive Care Summit, Madison, WI; March 2019.

### ***Clinical Teaching***

1992 – 1994 Preceptor for 4<sup>th</sup> year medical students from Thomas Jefferson Medical College  
1994 – 1996 Preceptor for 3<sup>rd</sup> year medical students from Thomas Jefferson Medical College  
1992 – 2001 Preceptor, Adult Medicine Office, the medicine resident outpatient continuity clinic at Christiana Care Health System  
1994 – 2001 Attending Physician, Ward Medicine Teaching Service, Wilmington Hospital,  
1996 – 2000 Elective course director, Women’s Health Elective, Department of Medicine CCHS  
2001 – 2011 Preceptor, Wilmington Women's Health Group, (ob-gyn resident outpatient continuity clinic at CCHS) Department of Obstetrics and Gynecology

### ***Mentoring***

#### **Faculty Mentored**

Cynthia Wautlet, MD, MPH, Associate Professor (CHS) of Obstetrics and Gynecology, Generalist Division. Research mentor, current.

Kara Hoppe, DO, Assistant Professor of Obstetrics and Gynecology (CT), Division of Maternal Fetal Medicine. Departmental mentoring committee member, research mentor, current.

Kathleen Antony, MD, MSCI, Assistant Professor (CHS) of Obstetrics and Gynecology, Division of Maternal Fetal Medicine. Departmental mentoring committee chair, research mentor, current.

Jacob Lauer, MD, Assistant Professor (CT) of Obstetrics and Gynecology, Generalist Division. Practicum Preceptor for MPH, Hopkins Bloomberg School of Public Health.

Kristen Sharp, MD, Assistant Professor (CT) of Obstetrics and Gynecology, Generalist Division, research mentor.

Ellen Hartenbach, MD, Professor (TT), of Obstetrics and Gynecology, Gynecologic Oncology Division, research mentor.

Tiffany Green, PhD, Assistant Professor of Population Health Sciences, Departmental mentoring committee chair, research mentor, current.

Jessica Pac, PhD, Assistant Professor of Social Work, research mentor.

Madelyne Greene, RN, PhD, Assistant Professor, School of Nursing, research mentor.

#### **Postdoctoral Fellows Mentored**

Teresa Ngyuen, PhD, Health Disparities Research Scholars T32 Program, 2014-2015  
Current position: Academic Advisor, Department of Statistics, University of Wisconsin-Madison

Chioun Lee, PhD, Health Disparities Research Scholars T32 Program, 2014-2016 and K99/R00 2016-2017  
Current position: Assistant Professor at University of California Riverside

Sheryl Coley, DrPH, Health Disparities Research Scholars T32 Program, 2014-2017  
Current position: Assistant Research Scientist, University of Wisconsin-Madison

Edward Vargas, PhD, Health Disparities Research Scholars T32 Program, 2014-2017  
Current position: Assistant Professor at Arizona State University

Alyn McCarty, PhD, Health Disparities Research Scholars T32 Program, 2014-2017  
Current position: Director of Research, Research For Action, Philadelphia, PA

Meghan Zuelsdorf, PhD, Health Disparities Research Scholars T32 Program, 2016-2017  
Current position: Assistant Professor, School of Nursing, University of Wisconsin-Madison

Chenoa Allen, PhD, Health Disparities Research Scholars T32 Program, 2016-2019  
Current position: Assistant Professor at the University of Missouri

Andrea Larson, PhD, Postdoctoral Research Scholar, BD4LK, 2017-2018

Madelyne Green, RN, PhD, Health Disparities Research Scholars T32 Program, 2017-2019

Current position: Assistant Professor, School of Nursing, University of Wisconsin-Madison

Emily Hendrick, PhD, Health Disparities Research Scholars T32 Program, 2017-2019

Current position: Teaching Assistant Professor, University of Nevada-Reno School of Community Health Sciences

Emily Shrider, PhD, Postdoctoral Research Scholar, 2018-2019.

Current position: Scientist at the US Census Bureau

Linnea Evans, PhD, Health Disparities Research Scholars T32 Program, 2017-current

Sherry Zhang, PhD, Health Disparities Research Scholars T32 Program, 2018-current

Kierra Sattler, PhD, Health Disparities Research Scholars T32 Program, 2019-current

Vivian Tamkin, PhD, Health Disparities Research Scholars T32 Program, 2019-current

Leigh Senderowicz, ScD, Health Disparities Research Scholars T32 Program, 2019-current

## **Students Mentored**

### **Doctoral Students, primary advisor**

Yousra Ali Mohamoud, MSc, Department of Population Health Sciences, University of Wisconsin School of Medicine and Public Health. Primary advisor, 2015-2019. “Area level drivers of term infant mortality: poverty, rurality, economic and racialized-economic spatial polarization”. PhD in Epidemiology received 2019.

Current position: ORISE Fellow, Division of Reproductive Health, US Centers for Disease Control and Prevention.

David Mallinson, MS, doctoral candidate and dissertator, Department of Population Health Sciences, University of Wisconsin School of Medicine and Public Health. Primary advisor, 2017-current.

Melissa Marver, MS, doctoral candidate, Department of Population Health Sciences, University of Wisconsin School of Medicine and Public Health. Primary advisor, 2018-current.

### **Master’s Students, primary advisor**

Jennifer Valdivia, Department of Population Health Sciences, University of Wisconsin School of Medicine and Public Health. “Community-Based Restaurant Interventions To Promote Healthy Eating: A Systematic Review & Addendum”. MS in Population Health Sciences received 2016.

Current position: Coordinator for Student Affairs at the Graduate Program in Public Health, School of Medicine at Mount Sinai

Laura Gregor, Department of Population Health Sciences, University of Wisconsin School of Medicine and Public Health. “The relationship between women’s aspirations and contraceptive use: a descriptive analysis”. MS in Population Health Sciences received 2017.

Current position: Project assistant, UW Population Health Institute

### **Doctoral Degree Dissertation Committees**

Caroline Min, MPH, Department of Population, Family, and Reproductive Health, Bloomberg School of Public Health of the Johns Hopkins University. DrPH received 2012.

Deanna Wagner, MPH, Department of Population, Family, and Reproductive Health, Bloomberg School of Public Health of the Johns Hopkins University. Degree received 2014.

Rachel Bergmans, MPH, Department of Population Health Sciences, University of Wisconsin School of Medicine and Public Health. “A multidimensional approach to the link between food insecurity and depression: The role of dietary inflammatory potential and participation in food assistance”. PhD in Population Health Sciences received 2017.

Current position: Postdoctoral Fellow at Northwestern University

Stephanie Koning, Department of Population Health Sciences, University of Wisconsin School of Medicine and Public Health. “Structural violence, life stressors and maternal and child health at the Thai-Myanmar border”. PhD in Population Health Sciences received 2018.

Current position: Postdoctoral Fellow at Northwestern University

Natalie Guerrero, Department of Population Health Sciences and medical student, University of Wisconsin School of Medicine and Public Health. Committee co-chair. “Child Problem Behavior and the Role of Gender, Race/Ethnicity, and Maternal Depression”. PhD in Population Health Sciences and MD received 2019.

Lenora Felder, doctoral candidate, Department of Public Policy, University of Delaware, current.

Wengora Thompson, MPH, doctoral candidate, Jackson State University, current.

### **Master’s Degree Dissertation Committees**

Tiffany Reed, School of Urban Affairs and Public Policy, University of Delaware. Committee member. MS received 2008.

Stephanie Ferisin, Health Behavior and Nutrition, University of Delaware. Committee member. MS received 2010.

Moumita Bhattacharya, Department of Computer and Information Sciences, University of Delaware. Committee member. MS received 2014.

Jennifer Valdivia, Department of Population Health Sciences, University of Wisconsin School of Medicine and Public Health. “Community-Based Restaurant Interventions to Promote Healthy Eating: A Systematic Review & Addendum”. Committee chair. MS in Population Health Sciences received 2016.

Laura Gregor, Department of Population Health Sciences, University of Wisconsin School of Medicine and Public Health. “The relationship between women’s aspirations and contraceptive use: a descriptive analysis”. Committee chair. MS in Population Health Sciences received 2017.

Melissa Marver, Department of Population Health Sciences, University of Wisconsin School of Medicine and Public Health. “I was scared: Fear and Limited English Proficient Hmong- and Spanish-Speaking Patients’ Experiences in Health Care”. Committee member. MS in Population Health Sciences received 2017.

Kara Vande Walle, MD, Department of Population Health Sciences, University of Wisconsin School of Medicine and Public Health. “Effective Surgical Coaches: Measurement, Selection, & Training”. Committee member. MS in Population Health Sciences completed 2019.

### **Master’s Degree in Public Health Capstone Committees**

John Domingos, Drexel University School of Public Health. Site preceptor and thesis committee member for MPH Community Based Master’s Project. MPH received 2008.

Janielle Williams, Drexel University School of Public Health. Site preceptor and thesis committee member for MPH Community Based Master’s Project. MPH received 2008.

Linda Jiang, Acadia University. Committee member. MPH and PA received 2012.

Chelsea Zess Aeschbach, University of Wisconsin School of Medicine and Public Health. “Improving the Communication between Adolescents and their Healthcare Providers: Evaluation of a Peer-to-Peer Educational Workshop”. Capstone committee chair. MPH received 2016.

Renee Kramer, University of Wisconsin School of Medicine and Public Health. “An Investigation of Black-White Disparities in Long-Acting Reversible Contraceptive Use in the United States”. Mentor and capstone committee chair. MPH received 2016.

Edward Vargas, PHD, University of Wisconsin School of Medicine and Public Health. “Deportations are Linked to Developmental Disorders in Latina/o Children”. Capstone committee chair. MPH received 2017.

Kallie Waro, MD-MPH candidate, University of Wisconsin School of Medicine and Public Health. “Bridging Communication Between WIC Pilots and Adjacent Hospitals for the Wisconsin-Coeffective Initiative”. Capstone committee chair. 2017.

Abbey Hargreaves, MD-MPH candidate, University of Wisconsin School of Medicine and Public Health. “Addressing Advanced Gynecological Care Needs for Southeastern Wisconsin's Uninsured Women”. Capstone committee member. 2017.

Katie Gelinas, University of Wisconsin School of Medicine and Public Health. “Assessing Patient and Provider Perceived Barriers to Enrolling and Retaining Patients in CenteringPregnancy® Group Prenatal Care: A Qualitative Analysis”. Capstone committee member. MPH and MD received 2018.

Jacob Lauer, MD, Assistant Professor (CT) of Obstetrics and Gynecology, Generalist Division. Johns Hopkins Bloomberg School of Public Health. “Postpartum HPV Vaccination: Designing Quality Improvement Strategies to Improve HPV Vaccination at UW Health”. Practicum preceptor. MPH received 2018.

Courtney Maxcy, University of Wisconsin School of Medicine and Public Health. “Examining Wisconsin Women’s Well-Being at the County Level”. Capstone committee chair. MPH received 2018.

Renee Sullender, MD-MPH candidate, University of Wisconsin School of Medicine and Public Health. “Impact of Immediate Postpartum IUD Placement on Rapid Repeat Pregnancy”. Capstone committee member, 2019.

Alexa Deboth, School of Medicine and Public Health and La Follette School of Public Affairs, University of Wisconsin-Madison. “Urban-rural, regional, and cause-specific infant mortality disparities among the American Indian and Alaska Native population in the United States, 2011-2014”. Capstone committee chair. MPH and MPA received 2019.

Sarah Todd Curley, MPH, University of Wisconsin-Madison. “Identifying Barriers in Reproductive Care among LGBTQ+ Individuals”. Capstone committee chair, 2020.

Amy Perkins, MPH, University of Wisconsin-Madison. “Comparing cesarean delivery rates in rural hospitals based on maternal care team composition”. Capstone committee chair, 2020.

### **Medical Students:**

Emily Olson, Shapiro Scholar 2015 and Pathway of Distinction in Public Health. Advisor. Shapiro Project: “Healthcare Provider Knowledge, Attitudes and Practices Surrounding Long-Acting Reversible Contraception in Wisconsin,” *Winner, 2016 Population, Reproductive and Sexual Health (APHA) Student Scholarship Award.*

Erin Curtis, Shapiro Scholar 2017: “Health Professionals' Attitudes and Barriers Around the Implementation of Evidence-based Preconception Care”. *APHA Annual Meeting Oral Presentation, San Diego, 2018.*

Mireya P. Taboada, Shapiro Scholar 2017: “Health Professionals' Attitudes and Barriers Around the Implementation of Evidence-based Preconception Care”. *APHA Annual Meeting Oral Presentation, San Diego, 2018.*

Gabrielle M. Quiggle, Shapiro Scholar 2017: “Investigating Drivers of Disparities in Perinatal Outcomes in Wisconsin”.

David Glaubke, Shapiro Scholar 2018: “Policies Related to Maternal and Child Health”.

### **Residents:**

Karen Tapley, MD, Christiana Care Department of Obstetrics and Gynecology, “Risk Factors for Teenage Primary Cesarean Delivery in a Delaware Tertiary Center”. Winner, Resident Research Award, Department of Obstetrics and Gynecology, Christiana Care Health System, 2009.

Suzanne Cole, MD, Christiana Care Department of Obstetrics and Gynecology, “Prenatal anemia as a risk factor for peripartum transfusion and the potential impact of antenatal intervention”. Presented at ACOG Annual Meeting, 2009.

Oluakemi Johnson, MD, Christiana Care Department of Obstetrics and Gynecology, “H1N1 vaccination during pregnancy”. Oral presentation at: National MCH Epidemiology Meeting; 2010.

Jessica Apel, DO, Christiana Care Department of Obstetrics and Gynecology, “After Sexual Assault who seeks treatment from Medical Professionals?”. 2011.

Vonne Gretch-Jones, MD, Christiana Care Department of Obstetrics and Gynecology, “What factors contribute to the prevalence of fibroids?”. 2011.

Bonnie Cho, MD, Christiana Care Department of Obstetrics and Gynecology, “Does spontaneous labor effect neonatal respiratory morbidity at term planned Caesarean delivery?”. Boggs Award of the Philadelphia OBGYN Society, 2nd runner up, 2012. Presented at: ACOG Annual Meeting; 2012.

Melanie Slack, MD, Christiana Care Department of Family and Community Medicine, “Contraceptive use among female college students reporting prior use of emergency contraception”. Poster presentation at: Pediatric Academic Societies’ Annual Meeting; 2013; Washington, DC.

Kelly McGlaughlin, MD, Christiana Care Department of Family and Community Medicine, “Contraceptive use among female college students reporting prior use of emergency contraception”. Poster presentation at: Pediatric Academic Societies’ Annual Meeting; 2013; Washington, DC.

Kali Rivas, MD, Department of Obstetrics & Gynecology, University of Wisconsin. Research mentor.

Laura McDowell, MD, Department of Obstetrics & Gynecology, University of Wisconsin. Research mentor.

### **Undergraduates:**

Jessica Johnson, University of Delaware, 2010-2012.

Samir Yezdani, University of Delaware, 2011 and 2012.

Anika Vaidy, University of Delaware, 2012.

Victoria Kopec, University of Delaware, 2012-2013.

Jacob Joseph, University of Delaware, 2012-2014.

Kerith Wang, Princeton University, summer 2013.

Lauren Szeto, University of Richmond, summer 2013.

Alex Charland, University of Wisconsin-Madison, 2017.

Nina Raymo, Colby College, 2017.

Hanna Barton, University of Wisconsin-Madison, summer 2018.

Michelle Ubah, McNair Scholar, University of Wisconsin-Madison, 2019-2020.