

CURRICULUM VITAE

QUAKER ELIZABETH HARMON MD PhD

Education

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| 1992 | BSc | Biology, University of North Carolina at Chapel Hill, Chapel Hill, NC |
| 1997 | MD | School of Medicine, University of Toronto, Toronto, Ontario |
| 1999 | CCFP | Family Medicine, University of British Columbia, Vancouver, British Columbia |
| 2012 | PhD | Epidemiology, UNC Gillings School of Global Public Health, Chapel Hill, NC |

Employment

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| 1997-2000 | Family Medicine Residency, St. Paul's Hospital, Vancouver, British Columbia |
| 2000-2001 | Family Physician (Locum Tenens) Bayswater Family Practice, Vancouver, BC |
| 2007 | Teaching Assistant, Principles of Epidemiology Online, Schoenbach, Department of Epidemiology, UNC Gillings School of Global Public Health, Chapel Hill, NC |
| 2009 | Teaching Assistant, Introduction to Logic in Epidemiology, Poole, Department of Epidemiology, UNC Gillings School of Global Public Health, Chapel Hill, NC |
| 2009-2011 | Research Assistant (Savitz/Siege-Riz) Department of Epidemiology, UNC Gillings School of Global Public Health, Chapel Hill, NC |
| 2010 | Teaching Assistant, Theory and Quantitative Methods in Epidemiology, Poole Department of Epidemiology, UNC Gillings School of Global Public Health, Chapel Hill, NC |
| 2011-2012 | Research Assistant (Engel) Department of Epidemiology, UNC Gillings School of Global Public Health, Chapel Hill, NC |
| 2012-2016 | IRTA Postdoctoral Fellow, Epidemiology Branch, National Institute of Environmental Health Sciences |
| 2016-2017 | Research Fellow, PI Baird. Epidemiology Branch, National Institute of Environmental Health Sciences |
| 2017-present | Staff Scientist. Epidemiology Branch, National Institute of Environmental Health Sciences |

Teaching Activities

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| 2008-2010 | Guest Lecturer. Natural History of Disease and Screening. Schoenbach. UNC Gillings School of Global Public Health |
| 2013-present | Guest Lecturer. Introduction to Reproductive Epidemiology. Engel, Olshan, Desrosiers. UNC Gillings School of Global Public Health |
| 2017-present | Invited seminar speaker. Reproductive, Pediatric and Perinatal Epidemiology Seminar Series. Daniels, Engle. UNC Gillings School of Global Public Health |

Service Activities

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| 2012-present | External Manuscript Reviews: Fertility and Sterility, Human Reproduction, BMC Women's Health, American Journal of Epidemiology, PLOS ONE |
| 2012-present | Internal Manuscript Reviews (NIEHS): Epidemiology Branch, Biostatistics and Computational Biology Branch, National Toxicology Program |
| 2013 | Reproductive Epidemiology Journal Club, Organizer |
| 2014-present | NIEHS Representative to the NICHD PregSource Project |
| 2015-2016 | Vitamin D Journal Club, NIEHS, Organizer |
| 2016 | Environmental Health Science Fest, Volunteer |
| 2018 | NIEHS Representative to All of Us Planning Meeting |

Honors and Distinctions

Fellow of the Year, National Institute of Environmental Health Sciences, 2014
Student Paper Prize Award, Society for Pediatric and Perinatal Epidemiologic Research, 2014
Fellows Award for Excellence in Research, National Institutes of Health, 2014
Delta Omega, The Honorary Public Health Society, Theta Chapter, 2012
Medical Alumni Association Research Scholarship, University of Toronto, 1994
Morehead Scholar at the University of North Carolina at Chapel Hill, 1988-1992
Phi Beta Kappa University of North Carolina at Chapel Hill, 1992
The Robert E. Coker Award for Excellence in Organismal and Ecological Research, 1992
Order of the Golden Fleece; in recognition of outstanding contributions to UNC, 1991

Professional Membership

2008-present Society for Epidemiologic Research
Society for Pediatric and Perinatal Research

Invited Oral Presentations

Applying Inverse Probability Weighting to Estimate Risk Ratios when Genotyping Data are Available in a Subset, Society for Epidemiological Research, Minneapolis, MN 2012

Polymorphisms in Genes Associated with Natural Killer Cells are Associated with Preterm Birth, Society for Epidemiological Research, Minneapolis, MN 2012

Association between Depo-Provera and Prevalent Fibroids in Young African American Women, Triangle Reproductive Biology Consortium, Durham, NC 2013

Preeclampsia and the Risk of Fetal Death, Society for Perinatal and Pediatric Epidemiologic Research, Seattle, WA, 2014

Use of Estrogen-Containing Contraception is Associated with Increased Levels of Serum 25-hydroxyvitamin D, Society for Perinatal and Pediatric Epidemiologic Research, Denver, CO, 2015

Two denominators for one numerator: The case of neonatal mortality, Society for Perinatal and Pediatric Epidemiologic Research, Epidemiology Congress of the Americas, Miami, FL, 2016

Poster Presentation

Integrated assessment of behavioral, nutritional, and psychosocial risk factors for preterm birth, Society for Perinatal and Paediatric Epidemiologic Research, Anaheim, CA 2009

Keloids Are Not Associated with Fibroids in African American Women, Society for Epidemiological Research, Boston, MA 2013

Association between Depo-Provera and Prevalent Fibroids in Young African American Women, Society for Epidemiological Research, Seattle, WA, 2014

Use of estrogen-containing contraception is associated with increased levels of serum 25-hydroxyvitamin D, Society for Epidemiologic Research, Denver, CO, 2015

Menstrual cycle estradiol is associated with vitamin D status, Society for Perinatal and Paediatric Epidemiologic Research, Seattle, WA 2017

Publications

1. Savitz D. A., **Harmon Q.**, Siega-Riz A. M., Herring A. H., Dole N., Thorp J. M., Jr. Behavioral influences on preterm birth: integrated analysis of the pregnancy, infection, and nutrition study. *Maternal and child health journal*. 2012; Aug 16(6):1151-63.
2. **Harmon Q. E.**, Laughlin S. K., Baird D. D. Keloids and ultrasound detected fibroids in young African American women. *PloS One*. 2013; 8(12):e84737.
3. **Harmon Q. E.**, Engel S. M., Olshan A. F., Moran T., Stuebe A. M., Luo J., Wu M. C., Avery C. L. Association of polymorphisms in natural killer cell-related genes with preterm birth. *American journal of epidemiology*. 2013; Oct 15 178(8):1208-18.
4. Wu M. C., Maity A., Lee S., Simmons E. M., **Harmon Q. E.**, Lin X., Engel S. M., Molldrem J. J., Armistead P. M. Kernel machine SNP-set testing under multiple candidate kernels. *Genetic epidemiology*. 2013; Apr 37(3):267-75.
5. Starling A. P., Engel S. M., Richardson D. B., Baird D. D., Haug L. S., Stuebe A. M., Klungsoyr K., **Harmon Q.**, Becher G., Thomsen C., Sabaredzovic A., Eggesbo M., Hoppin J. A., Travlos G. S., Wilson R. E., Trogstad L. I., Magnus P., Longnecker M. P. Perfluoroalkyl substances during pregnancy and validated preeclampsia among nulliparous women in the Norwegian Mother and Child Cohort Study. *American journal of epidemiology*. 2014; Apr 01 179(7):824-33.
6. Klungsoyr K., **Harmon Q. E.**, Skard L. B., Simonsen I., Austvoll E. T., Alsaker E. R., Starling A., Trogstad L., Magnus P., Engel S. M. Validity of pre-eclampsia registration in the medical birth registry of Norway for women participating in the Norwegian mother and child cohort study, 1999-2010. *Paediatr Perinat Epidemiol*. 2014; Sep 28(5):362-71.
7. Hillesund E. R., Overby N. C., Engel S. M., Klungsoyr K., **Harmon Q. E.**, Haugen M., Bere E. Associations of adherence to the New Nordic Diet with risk of preeclampsia and preterm delivery in the Norwegian Mother and Child Cohort Study (MoBa). *Eur J Epidemiol*. 2014; Oct 29(10):753-65.
8. **Harmon Q. E.**, Engel S. M., Wu M. C., Moran T. M., Luo J., Stuebe A. M., Avery C. L., Olshan A. F. Polymorphisms in inflammatory genes are associated with term small for gestational age and preeclampsia. *American journal of reproductive immunology*. 2014; May 71(5):472-84.
9. **Harmon Q. E.**, Baird D. D. Use of depot medroxyprogesterone acetate and prevalent leiomyoma in young African American women. *Human reproduction*. 2015; Jun 30(6):1499-504.
10. Wilcox A. J., Weinberg C. R., Basso O., **Harmon Q. E.** Re: "Analyzing risks of adverse pregnancy outcomes". *American journal of epidemiology*. 2015; Feb 01 181(3):218.
11. **Harmon Q. E.**, Huang L., Umbach D. M., Klungsoyr K., Engel S. M., Magnus P., Skjaerven R., Zhang J., Wilcox A. J. Risk of fetal death with preeclampsia. *Obstetrics and gynecology*. 2015; Mar 125(3):628-35.
12. Baird D. D., **Harmon Q. E.**, Upson K., Moore K. R., Barker-Cummings C., Baker S., Cooper T., Wegienka G. A Prospective, Ultrasound-Based Study to Evaluate Risk Factors for Uterine Fibroid Incidence and Growth: Methods and Results of Recruitment. *Journal of women's health*. 2015; Nov 24(11):907-15.

13. **Harmon Q. E.**, Umbach D. M., Baird D. D. Use of Estrogen-Containing Contraception Is Associated With Increased Concentrations of 25-Hydroxy Vitamin D. *The Journal of clinical endocrinology and metabolism*. 2016; Sep 101(9):3370-7.
14. Upson K., **Harmon Q. E.**, Baird D. D. Soy-Based Infant Formula Feeding and Ultrasound-Detected Uterine Fibroids among Young African-American Women with No Prior Clinical Diagnosis of Fibroids. *Environmental health perspectives*. 2016; Jun 124(6):769-75.
15. Upson K., **Harmon Q. E.**, Laughlin-Tommaso S. K., Umbach D. M., Baird D. D. Soy-based Infant Formula Feeding and Heavy Menstrual Bleeding Among Young African American Women. *Epidemiology*. 2016; Sep 27(5):716-25.
16. Jukic A. M., Upson K., **Harmon Q. E.**, Baird D. D. Increasing serum 25-hydroxyvitamin D is associated with reduced odds of long menstrual cycles in a cross-sectional study of African American women. *Fertility and sterility*. 2016; Jul 106(1):172-9 e2.
17. He Q., Cai T., Liu Y., Zhao N., **Harmon Q. E.**, Almli L. M., Binder E. B., Engel S. M., Ressler K. J., Conneely K. N., Lin X., Wu M. C. Prioritizing individual genetic variants after kernel machine testing using variable selection. *Genetic epidemiology*. 2016; Dec 40(8):722-31.
18. Weinberg C. R., Shi M., Basso O., DeRoo L. A., **Harmon Q. E.**, Wilcox A. J., Skjaerven R. Season of Conception, Smoking, and Preeclampsia in Norway. *Environmental health perspectives*. 2017; Jun 29 125(6):067022.
19. Bauer A. E., Avery C. L., Shi M, Weinberg C. R., Olshan A. F., **Harmon Q. E.**, Luo J, Yang J, Manuck T. A., Wu M. C., et al. A Family Based Study of Carbon Monoxide and Nitric Oxide Signalling Genes and Preeclampsia. *Paediatr Perinat Epidemiol*. 2018 Jan;32(1):1-12.
20. O'Brien K. M., Sandler D. P., Shi M, **Harmon Q. E.**, Taylor J. A., Weinberg C. R. Genome-Wide Association Study of Serum 25-Hydroxyvitamin D in US Women. *Frontier Genetics* 2018; 9:67.
21. **Harmon Q. E.**, Basso O, Weinberg C. R., Wilcox A. J. Two denominators for one numerator: the example of neonatal mortality. *European Journal of Epidemiology* 2018; Mar 7 Epub ahead of print.