

CURRICULUM VITAE

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PART I: GENERAL INFORMATION

Name Samantha F. Ehrlich

Address University of Tennessee Knoxville
1914 Andy Holt Ave
HPER Room 369
Knoxville, TN 37996

Phone (865) 974-4663

E-Mail sehrlic1@utk.edu

Education

2002 B.S. (with Honors, Biology and Women's Studies), College of Literature,
Science and the Arts, University of Michigan, Ann Arbor, MI

2005 M.P.H. (Maternal and Child Health), School of Public Health, University of
California Berkeley, Berkeley, CA

2011 Ph.D. (Epidemiology, Advisor Brenda Eskenazi PhD), School of Public
Health, University of California Berkeley, Berkeley, CA

Professional Positions

2005 Consultant Research Scientist, HIV/AIDS Epidemiology Branch, Office of
AIDS, California Department of Health Services

2006-2009 Research Project Coordinator, Kaiser Permanente Northern California
Division of Research

2010-2011 Research Project Manager, Kaiser Permanente Northern California Division
of Research

Postdoctoral Training

2012-2015 Postdoctoral Fellow, Kaiser Permanente Northern California Division of
Research, (Women's and Children's Health Research Section, Advisor
Assiamira Ferrara MD PhD, Section Chief)

Academic Appointments

8/2015-present Assistant Professor (tenure track), Department of Public Health, College of
Education Health and Human Sciences, University of Tennessee Knoxville

9/2015-present Affiliate Faculty, The Health Delivery Systems Center for Diabetes
Translational Research, National Institute of Diabetes and Digestive and
Kidney Diseases grant P30DK092924

11/2015-present Adjunct Investigator, Kaiser Permanente Northern California Division of
Research

3/2017-present Faculty, Intercollegiate Graduate Statistics Program, Haslam College of
Business, University of Tennessee Knoxville

Administrative Leadership

- 2017 Organizer, Responsible Conduct of Research Workshop, University of Tennessee Knoxville, Office of Research & Engagement
- 2019-present Co-Chair, Doctoral Committee, University of Tennessee Knoxville, Department of Public Health
- 2019-2020 Chair, Search Committee, Assistant/Associate Professor of Health Policy & Management, University of Tennessee Knoxville, Department of Public Health

Local Committee Service

- 2016 Search Committee, Assistant Professor of Epidemiology, University of Tennessee Knoxville, Department of Public Health
- 2016-2017 MPH Curriculum Committee, University of Tennessee Knoxville, Department of Public Health
- 2016-2018 Technology Committee, University of Tennessee Knoxville, Department of Public Health
- 2017 Search Committee, Assistant Research Integrity Office, University of Tennessee Knoxville, Office of Research & Engagement
- 2017-2019 DrPH Committee, University of Tennessee Knoxville, Department of Public Health
- 2018-present Organizing Committee, Responsible Conduct of Research Workshop, University of Tennessee Knoxville, Office of Research & Engagement
- 2020 Search Committee, Assistant Professors of Practice, University of Tennessee Knoxville, Department of Public Health

National Committee Service

- 2018- present Planning Subcommittee for the American Diabetes Association's Scientific Sessions, Pregnancy and Reproductive Health Interest Group

Professional Societies

- 2007- Society for Epidemiologic Research, Member
- 2010- Society for Pediatric and Perinatal Epidemiologic Research, Member
- 2012- American Public Health Association, Member
- 2013- American Diabetes Association, Member
- 2018- The Obesity Society, Member

Grant Review Activities

- 2015 Prenatal Substance Use Special Emphasis Panel, Centers for Disease Control and Prevention
- 2017 NIH R03 reviewer, BUILD EXITO Program, Portland State University
- 2019 UK-Canada Diabetes Research Team Grants reviewer, UK Medical Research Council, UK Economic and Social Research Council and Canadian Institutes of Health Research

Editorial Service

Ad-Hoc Reviewer for Journals

- 2007- AIDS and Behavior
- 2011- Diabetic Medicine
- 2012- American Journal of Epidemiology, Diabetes Care,

2013- Journal of Diabetes & Metabolism
 Environmental Health Perspectives, The Journal of Clinical Endocrinology & Metabolism, Paediatric and Perinatal Epidemiology
 2014- Obesity, BMC Pregnancy & Childbirth, Open Access Medical Statistics, New England Journal of Medicine, Medicine & Science in Sports & Exercise, Diabetology & Metabolic Syndrome, Pediatric Obesity
 2015- Obesity Research & Clinical Practice, Journal of Physical Activity & Health
 2016- British Journal of Obstetrics and Gynaecology, PLOS ONE, Primary Care Diabetes, Translational Behavioral Medicine
 2018- BMC Medicine
 2019- American Journal of Obstetrics and Gynecology

Abstract Reviewer for Professional Meetings

2014, 2017,
 2018 Society for Reproductive and Perinatal Epidemiology Annual Meeting

Honors and Awards

2009 Outstanding Graduate Student Instructor Award, Graduate Student Instructor Teaching and Resource Center University of California Berkeley
 2010 Russell M. Grossman Endowment Awardee, University of California Berkeley
 2011 Reshetko Family Scholarship Awardee, University of California Berkeley
 2019 Women’s Interprofessional Network of the American Diabetes Association (WIN ADA) Behavioral Medicine, Nutrition, Education, & Exercise Abstract Award.

Current Research Support

2015-2020 *Physical Activity in Pregnancy for Intergenerational Obesity Prevention.*
 NIH/NIDDK - K01 DK105106
 Role: PI
 Research objectives are to investigate the impact of physical activity during pregnancy on infant growth and to evaluate a physician-initiated program of physical activity promotion for appropriate weight gain in pregnant women. Training objectives include obesity prevention, physical activity, and causal inference-based statistical analyses.

2019-2023 *Motivational Determinants of Postpartum Lifestyle Behaviors, Weight Retention, and Metabolic Syndrome.*
 NIH/NHLBI - R01 HL142996
 PI: Brown
 Role: Consultant
 Using a theory-driven mechanistic approach to behavior change, this longitudinal study will follow an existing pregnancy cohort to identify psychological influences on postpartum lifestyle behaviors, weight retention, and metabolic syndrome.

Completed Research Support

- 2004 *Investigating the Sexual & Reproductive Health of Adolescents in Bilwi, Puerto Cabezas, North Atlantic Autonomous Region, Nicaragua.*
Travel and Research funded by grants from the University of Michigan Population Fellows Program, the University of California Berkeley Bixby Center for Population, Health & Sustainability, and the University of California Berkeley Center for Latin American Studies.
Role: PI/Graduate Student Researcher
Original survey research investigating adolescents' knowledge of, access to, and self-efficacy to use modern contraception.
- 2005-2006 *Prevention of postpartum weight retention in patients with gestational diabetes mellitus (GDM).*
Garfield Foundation
PI: Ferrara
Role: Research Project Coordinator
Pilot trial exploring a weight management intervention of physical activity and diet for reducing postpartum weight retention in women with GDM.
- 2009 *Translational Diabetes Prevention in GDM.*
NIH/NIDDK - R18 DK067334
PI: Ferrara
Role: Research Project Coordinator
Feasibility of a pregnancy and postpartum lifestyle intervention of physical activity and diet for weight management in women with GDM.
- 2010-2013 *Comparative effectiveness of diabetes prevention strategies in women with GDM.*
USDHHS AHRQ - R01 HS019367
PI: Ferrara
Role: Collaborator
Pragmatic cluster randomized trial assessing a lifestyle intervention for weight management for women with GDM. Randomization to lifestyle intervention or usual care at the medical center level; trial conducted among 44 Kaiser Permanente Northern California medical centers and 2,300 women with GDM.
- 2010-2015 *Translational Diabetes Prevention in Gestational Diabetes (GDM).*
NIH/NIDDK - R18 DK067334 (Competing Renewal)
PI: Ferrara
Role: Collaborator
A randomized controlled clinical trial of 350 GDM patients investigating a lifestyle intervention of physical activity and diet for reducing levels of modifiable diabetes risk factors.
- 2012-2017 *Prenatal bisphenol A (BPA) exposure and risk of gestational diabetes.*
NIH/NIEHS - R01ES019196
PI: Ferrara
Role: Co-I

Cohort study addressing the hypotheses that: a) Higher urinary levels of BPA are associated with an increased risk of GDM; and b) Higher urinary levels of BPA are associated with adverse changes in insulin resistance, total and HMW adiponectin level; and the liver enzymes, GGT and ALT.

- 2013-2014 *A Health IT Investigation of Clinical Action and Health System Resource Utilization for Inadequate Exercise in Relation to Gestational Diabetes Risk and Glycemic Control in Women with Gestational and Pregravid Diabetes.* Health Delivery Systems Center for Diabetes Translational Research Pilot and Feasibility Project, NIH/NIDDK - P30DK092094
Role: Awardee
Cohort study to determine the availability of electronic 'exercise as a vital sign' data before, during and after pregnancy, and qualitative research to identify health system resources for physical activity promotion in this population.
- 2013-2018 *Appropriate Gestational Weight Gain in Overweight/Obese Women.* NIH/NICHD - R01 HD07357
PI: Ferrara
Role: Co-I
A randomized controlled trial investigating a lifestyle intervention of physical activity and healthy diet for appropriate gestational weight gain in 396 women with clinic measured prepregnancy overweight or obesity.
- 2014 *Physical Activity and Glycemic Control in Women with Gestational Diabetes.* Kaiser Permanente Community Benefits Research Fund Grant.
Role: PI
Cohort study investigating the association of physical activity in pregnancy with capillary blood glucose levels and glycemic control in women with gestational diabetes.
- 2015 *Effects of pregnancy glycemia and treatment for pregnancy hyperglycemia on childhood overweight/obesity.* Kaiser Permanente Community Benefits Research Fund Grant.
Role: PI
Cohort study investigating the impact of maternal pregnancy hyperglycemia, including recently proposed clinical thresholds for diagnosing and treating GDM, on obesity in the child at 5 to 7 years of age.
- 2016-2017 *Early Life Exposure to Endocrine Disrupting Chemicals and Child Growth, Adiposity, and Neurodevelopment: Environmental Influences on Child Health Outcomes (ECHO)*
NIH/OD - 1UG3OD023289
Co-PIs: Ferrara, Croen
Role: Consultant
First phase of study extending follow up for two existing cohorts (e.g., re-contacting and consenting participants and protocol development) to investigate the association of in-utero exposure to endocrine-disrupting chemicals – perfluoroalkyl substances (PFAs), polybrominated ethers

(PBDEs), and organophosphate flame retardants (OPFRs) – with childhood obesity and neurodevelopmental disorders in children.

Teaching

2008	Public Health 250A Epidemiological Methods I, University of California Berkeley, graduate level course, Graduate Student Instructor
2009	Public Health 250B Epidemiological Methods II, University of California Berkeley, graduate level course, Graduate Student Instructor
2015-2017	Public Health 530 Biostatistics, University of Tennessee Knoxville, graduate level course, Faculty Instructor
2018-2019	Public Health 640 Advanced Epidemiology, University of Tennessee Knoxville, graduate level course, Faculty Instructor
2018-2019	Public Health 580 Special Topics in Epidemiology: Measuring free-living Physical Activity, University of Tennessee Knoxville, graduate level course, Faculty Instructor

Supervised Trainees

Primary Faculty Mentor

2016-2018	Amanda Casteel MPH, DrPH student Focus areas: Mental health, concurrent Masters in Statistics
2017-2018	Pragya Poudel MPH, DrPH student Focus areas: Adverse childhood experiences
2017-2019	Jonathan Thomas, College Scholars Program, undergraduate student <i>Mineral resource dependency and under-5 mortality</i> (College Scholars Thesis)
2019-present	Ashlyn Hodges, College Scholars Program, undergraduate student
2019-present	Maggie Pepper, College Scholars Program, undergraduate student

PhD Dissertation Committees

2016-2017	William Boyer, Department of Kinesiology, Recreation, and Sports Studies <i>The effect modification of race-ethnicity on aerobic physical activity and diabetes-related mortality: a population-based prospective study using NHANES III and 1999-2006 NHANES</i>
2017-2019	Lindsay Toth, Department of Kinesiology, Recreation, and Sports Studies <i>A Two-Part Study of Step Counter Accuracy and Ecological Momentary Assessment of Correlates to Total Physical Activity in Phase II Cardiac Rehabilitation Patients</i>
2017-2019	Tyler Kybartas, Department of Kinesiology, Recreation, and Sports Studies <i>Children's Motivation for Physical Activity</i>
2018-2019	Joanne Patterson, Department of Public Health <i>Patterns, Prevalence, and Determinants of Chronic Disease Disparities in Sexual Minority Women and Men</i>
2017-present	Grace Njau, Comparative & Experimental Medicine
2019-present	Elizabeth Hall, Department of Nutrition

Master's Dissertation Committees

- 2016-2019 Courtney Wright, Public Health Nutrition
Using phenomenological methods to describe maternal perceptions of worksite breastfeeding support across various industries
- 2017-2018 Susan Park, Department of Kinesiology, Recreation, and Sports Studies
Effects of Placement on Step Count and Step Count Accuracy of 10 Wearable Monitors in a Free-Living Environment

Presentations

- 2014 'Exercise as a Vital Sign' screening before, during, and after pregnancy at Kaiser Permanente Northern California; Diabetes & Obesity Prevention Special Interest Group Quarterly Webinar, Center for Diabetes Translational Research (NIDDK, P30 DK092924, Sub-Project ID 5497).
- 2015 A Life Course Approach to Chronic Disease: The Prevention of Diabetes; John New Memorial Epidemiologist Forum and the Graduate Seminar in Public Health (PUBH 509), University of Tennessee Knoxville.
- 2017 Diabetes & Obesity Prevention in Pregnancy and the Postpartum Period; Graduate Seminar in Exercise and Applied Physiology (KNS 661), University of Tennessee Knoxville.
- 2018 Moderate to vigorous intensity sports and exercise activity during pregnancy and infant size at birth. Special Interest Group Quarterly Webinar, Center for Diabetes Translational Research (NIDDK, P30 DK092924, Sub-Project ID 5497).
- 2018 Diabetes & Obesity Prevention in Pregnancy and the Postpartum Period; The Department of Obstetrics & Gynecology, Graduate School of Medicine, University of Tennessee Medical Center Knoxville.
- 2019 Exercise During Pregnancy for the Prevention of Gestational Diabetes Mellitus; Graduate Seminar in Exercise and Applied Physiology (KNS 661), University of Tennessee Knoxville.

Community Service Related to Professional Work

- 2005 Outreach and grant writing for *Camino al Cambio*, a nongovernmental organization working to improve the health of street youth in Ecuador
- 2005 Grant writing for the STOP AIDS Project in San Francisco, California
- 2015 Analyst for the University of Tennessee Knoxville team contributing to the Tennessee Department of Health, Division of Health Planning, Regional Population Health Improvement Plan
- 2015-2019 Disease Detectives Event Coordinator for the Tennessee Science Olympiad State Tournament

PART II: BIBLIOGRAPHY

Original Articles (* indicates student mentee)

1. Ehrlich SF, Organista K, Oman D. Migrant Latino Day Laborers and Intentions to Test for HIV. *AIDS Behav.* 2007,11(5):743-52. PMID: 17086437.

2. Organista K, **Ehrlich SF**. Predictors of Condom Use in Latino Migrant Day Laborers. *Hispanic J Behav Sci*. 2008,30(3):379-96. DOI:10.1177/0739986308320881.
3. **Ehrlich SF**, Quesenberry CP, Van Den Eeden SK, Shan J, Ferrara A. Patients diagnosed with diabetes are at increased risk for asthma, chronic obstructive pulmonary disease, pulmonary fibrosis, and pneumonia but not lung cancer. *Diabetes Care*. 2010,33(1): 55-60. PMID: 19808918.
4. **Ehrlich SF**, Hedderson MM, Feng J, Davenport ER, Gunderson EP, Ferrara A. Change in body mass index between pregnancies and the risk of gestational diabetes in a second pregnancy. *Obstet Gynecol*. 2011,117(6):1323-30. PMID: 21606742.
5. **Ehrlich SF**, Crites Y, Hedderson MM, Darbinian JA, Ferrara A. The risk of large for gestational age across increasing categories of pregnancy glycemia. *Am J Obstet Gynecol*. 2011,204(3):240.e1-6. PMID: 21247550.
6. Ferrara A, **Ehrlich SF**. Strategies for diabetes prevention before and after pregnancy in women with GDM. *Curr Diabetes Rev*. 2011,7(2):75-83. PMID: 21222619.
7. Ferrara A, Hedderson MM, Albright CL, **Ehrlich SF**, Quesenberry CP Jr, Peng T, Feng J, Ching J, Crites Y. A pregnancy and postpartum lifestyle intervention in women with gestational diabetes mellitus reduces diabetes risk factors: a feasibility randomized control trial. *Diabetes Care*. 2011,34(7):1519-25. PMID: 21540430.
8. Ferrara A, Lewis JD, Quesenberry CP Jr, Peng T, Strom BL, Van Den Eeden SK, **Ehrlich SF**, Habel LA. Cohort study of pioglitazone and cancer incidence in patients with diabetes. *Diabetes Care*. 2011,34(4):923-9. PMID: 21447664.
9. **Ehrlich SF**, Eskenazi B, Hedderson MM, Ferrara A. Sex ratio variations among the offspring of women with diabetes in pregnancy. *Diabet Med*. 2012,29:e273-e278. PMID: 22443388.
10. **Ehrlich SF**, Rosas LG, Ferrara A, King JC, Abrams B, Harley KG, Hedderson MM, Eskenazi B. Pregnancy glucose levels in women without diabetes or gestational diabetes and childhood cardiometabolic risk at 7 years of age. *J Pediatr*. 2012,161(6):1016-21. PMID: 22790183.
11. Hedderson MM, **Ehrlich SF**, Sridhar S, Darbinian JA, Moore SD, Ferrara A. Racial-ethnic disparities in the prevalence of gestational diabetes by body mass index. *Diabetes Care*. 2012,35(7):1492-8. PMID: 22619080.
12. **Ehrlich SF**, Rosas LG, Ferrara A, King JC, Abrams B, Harley KG, Hedderson MM, Eskenazi B. Pregnancy glycemia in Mexican-American women without diabetes or gestational diabetes and programming for childhood obesity. *Am J Epidemiol*. 2013,177(8):768-75. PMID: 23504745.
13. Sridhar SB, Ferrara A, **Ehrlich SF**, Brown SD, Hedderson MM. Risk of Large-for-Gestational-Age Infants in Women With Gestational Diabetes by Race and Ethnicity and Body Mass Index Categories. *Obstet Gynecol*. 2013,121(6):1255-62. PMID: 23812460.
14. Hedderson MM, Darbinian J, Havel PJ, Quesenberry CP, Sridhar SB, **Ehrlich SF**, Ferrara A. Low Pregnancy Adiponectin Concentrations Are Associated with a Marked Increase in Risk for

Development of Gestational Diabetes Mellitus. *Diabetes Care*. 2013,36(12):3930-7. PMID: 23990523.

15. Ferrara A, Hedderson MM, Albright CL, Brown SD, **Ehrlich SF**, Caan BJ, Sternfeld B, Gordon NP, Schmittiel JA, Gunderson EP, Mevi A, Tsai A, Ching J, Crites Y, Quesenberry CP. A pragmatic cluster randomized clinical trial of diabetes prevention strategies for women with gestational diabetes: design and rationale of the Gestational Diabetes' Effects on Moms (GEM) study. *BMC Pregnancy Childbirth*. 2014,14:21. PMID: 24423410.
16. **Ehrlich SF**, Hedderson MM, Quesenberry CP, Feng J, Brown SD, Crites Y, Ferrara A. Postpartum Weight Loss and Glucose Metabolism in Women with Gestational Diabetes: the DEBI Study. *Diabet Med*. 2014,31(7):862-7. PMID: 24597974.
17. Sridhar SB, Darbinian J, **Ehrlich SF**, Markman MA, Gunderson EP, Ferrara A, Hedderson MM. Maternal gestational weight gain and offspring risk for childhood overweight or obesity. *Am J Obstet Gynecol*. 2014, 211(3):259.e1-8. PMID: 24735804.
18. Sakoda LC, Ferrara A, Achacoso NS, Peng T, **Ehrlich SF**, Quesenberry CP, Habel LA. Metformin use and lung cancer in patients with diabetes. *Cancer Prev Res*. 2015, 8 (2):174-9. PMID: 25644512.
19. Lewis JD, Habel LA, Quesenberry CP Jr, Strom BL, Peng T, Hedderson MM, **Ehrlich SF**, Mamtani R, Bilker W, Vaughn, DJ, Nessel L, Van Den Eeden SK, Ferrara A. Pioglitazone Use and Risk of Bladder Cancer and Other Common Cancers in Patients with Diabetes. *JAMA*. 2015, Jul 21;314(3):265-77. PMID: 26197187.
20. Ferrara A, Hedderson MM, Brown SD, Albright CL, **Ehrlich SF**, Cann BJ, Sternfeld B, Tsai A, Mevi AA, Ching J, Crites Y, Quesenberry CP. The comparative effectiveness of diabetes prevention strategies to reduce postpartum weight retention in women with gestational diabetes: The Gestational Diabetes' Effects on Moms (GEM) cluster randomized controlled trial. *Diabetes Care*. 2016 Jan;39(1):65-74. PMID: 26657945.
21. Brown SD, **Ehrlich SF**, Kubo A, Tsai A, Hedderson MM, Quesenberry CP, Ferrara A. Lifestyle Behaviors and Ethnic Identity Among Diverse Women at High Risk for Type 2 Diabetes. *Soc Sci Med*. 2016 Jul;160:87-93. PMID: 27214712.
22. **Ehrlich SF**, Sternfeld B, Krefman AE, Hedderson MM, Brown SB, Mevi A, Chasan-Taber L, Quesenberry CP, Ferrara A. Moderate and Vigorous Intensity Exercise and Gestational Weight Gain in Women with Gestational Diabetes, Gestational Diabetes Effects on Moms (GEM). *Matern Child Health J*. 2016 Jun;20(6):1247-57. PMID: 26955997.
23. Peng T, **Ehrlich SF**, Crites Y, Kitzmiller JL, Kuzniewicz MW, Hedderson MM, Ferrara A. Trends and Racial and Ethnic Disparities in the Prevalence of Pregestational Type 1 and Type 2 Diabetes in Northern California, USA: 1996-2014. *Am J Obstet Gynecol*. 2017 Feb;216(2):177.e1-177.e8. PMID: 27751798.
24. Erwin PC, Meschke LL, **Ehrlich SF**, Moran JW. A Population Health Driver Diagram to Address Neonatal Abstinence Syndrome. *J Public Health Manag Pract*. 2017 Nov/Dec;23(6):e21-e24. PMID: 28181969.

25. **Ehrlich SF**, Brown SD, Sternfeld B, Feng J, Adams J, Hedderson MM, Ching J, Crites Y, Quesenberry CP, Ferrara A. Moderate Intensity Sports and Exercise is Associated with Glycemic Control in Women with Gestational Diabetes. *Diabetes Metab.* 2017 Oct;43(5):416-423. PMID: 28238600.
26. Kubo A, Ferrara A, Brown SD, **Ehrlich SF**, Quesenberry CP, Crites Y, Hedderson MM. Perceived psychosocial stress and gestational weight gain among women with gestational diabetes. *PLoS One.* 2017 Mar 28;12(3):e0174290. PMID: 28350836.
27. Erwin PC, Lindley L, Meschke LL, **Ehrlich SF**. Neonatal Abstinence Syndrome in East Tennessee: Characteristics and Risk Factors among Mothers and Infants in one area of Appalachia. *J Health Care Poor Underserved.* 2017;28(4):1393-1408. PMID: 29176103.
28. Boyer WR*, Churilla JR, **Ehrlich SF**, Crouter SE, Hornbuckle LM, Fitzhugh EC. Protective role of physical activity on type 2 diabetes: analysis of effect modification by race-ethnicity. *J Diabetes.* 2018 Feb;10(2):166-178. PMID: 28544478.
29. Bradley MC, Ferrara A, Achacoso N, **Ehrlich SF**, Quesenberry CP, Habel LA. A Cohort Study of Metformin and Colorectal Cancer Risk among Patients with Diabetes Mellitus. *Cancer Epidemiol Biomarkers Prev.* 2018 May;27(5):525-530. PMID: 29716927.
30. Hedderson MM & Brown SD (co-first authors), **Ehrlich SF**, Tsai A, Zhu Y, Quesenberry C, Crites Y, Ferrara A. A Tailored Letter Based on Electronic Health Record Data Improves Gestational Weight Gain Among Women with Gestational Diabetes: The Gestational Diabetes' Effects on Mom (GEM) Cluster-Randomized Controlled Trial. *Diabetes Care.* 2018 Jul;41(7):1370-1377. PMID: 29669736.
31. Badon S, Zhu Y, Sridhar SB, Xu F, Lee C, **Ehrlich SF**, Quesenberry CP, Hedderson MM. A pre-pregnancy biomarker risk score improves prediction of future gestational diabetes. *J Endocr Soc.* 2018 Sep 13;2(10):1158-1169. PMID: 30302420.
32. Gadgil MD, **Ehrlich SF**, Brown SD, Hedderson MM, Crites Y, Ferrara A. Dietary Quality and Glycemic Control among Women with Gestational Diabetes Mellitus. *J Womens Health.* 2019 Feb;28(2): 178-184. PMID:30376391.
33. Brown SD, Hedderson MM, **Ehrlich SF**, Galarce MN, Tsai A, Quesenberry CP, Ferrara A. Gestational Weight Gain and Optimal Wellness (GLOW): Rationale and Methods for a Randomized Clinical Trial of a Lifestyle Intervention among Pregnant Women with Overweight or Obesity. *BMC Pregnancy Childbirth.* 2019 Apr 30;19(1):145. PMID: 31039753.
34. **Ehrlich SF**, Hedderson MM, Xu F, Ferrara A. Diagnostic thresholds for pregnancy hyperglycemia, maternal weight status and the risk of childhood obesity in a diverse Northern California cohort using health care delivery system data. *PLoS One.* 2019 May 10;14(5):e0216897. PMID: 31075132.
35. **Ehrlich SF**, Neugebauer R, Feng J, Hedderson MM, Ferrara A. Exercise During the First Trimester and Infant Size at Birth: Targeted Maximum Likelihood Estimation of the Causal Risk Difference. *American Journal of Epidemiology*, Accepted August 28, 2019.

36. **Ehrlich SF**, Casteel AJ*, Crouter SE, Hibbing PR*, Hedderson MM, Brown SD, Galarce M, Coe DP, Bassett DR, Ferrara A. Alternative Wear-time Estimation Methods Compared to Traditional Diary Logs for Wrist-Worn ActiGraph Accelerometers in Pregnant Women. *Journal for the Measurement of Physical Behaviour*, Accepted December 7, 2019.

Short Communications

Brown SD, Partee PN, Feng J, Quesenberry CP, Hedderson MM, **Ehrlich SF**, Kiernan M, Ferrara A. Outreach to Diversify Clinical Trial Participation: A Randomized Recruitment Study. *Clin Trials*. 2015: 1-7. DOI: 10.1177/1740774514568125

Reports

1. **Ehrlich SF**, Tholandi M, Martinez S. HIV Risk Assessment of Migrant Latino Day Laborers. California Department of Health Services, Office of AIDS, HIV/AIDS Epidemiology Branch. April 2006.
2. Erwin P, Meschke LL, **Ehrlich SF**. Regional Population Health Improvement Plan, Department of Public Health, University of Tennessee Knoxville for the Tennessee Department of Health, Division of Health Planning: Neonatal Abstinence Syndrome and Perinatal Health in Eastern Tennessee. January 2016.

Book Chapter

Ferrara A, **Ehrlich SF**. Diabetes prevention interventions for women with a history of GDM, In Kim C. & Ferrara A. (Eds.), *Gestational Diabetes During and After Pregnancy* (pp. 361-372). London: Springer-Verlag, 2010.

Thesis

Ehrlich SF. Periconceptional and prenatal maternal glucose levels: immediate and long-term effects on offspring [dissertation]. Berkeley, CA: University of California Berkeley; 2011.

Abstracts & Presentations (* indicates student mentee)

1. **Ehrlich SF**, Tholandi M, Martinez S. HIV Risk Assessment of Latino Day Laborers in the Berkeley/Oakland Area. The 133rd meeting of the American Public Health Association, Philadelphia, PA, 2006.
2. Ferrara A, **Ehrlich SF**, Hedderson MM, Peng T. Body weight change between pregnancies is associated with the risk of gestational diabetes in the subsequent pregnancy. The 44th Annual Meeting of the European Association for the Study of Diabetes, Rome, Italy, 2008.
3. **Ehrlich SF**, Feng J, Darbinian J, Ferrara A. Change in Body Mass Index between Pregnancies is associated with the risk of GDM. The GDM Pasadena II Conference, Pasadena, CA, 2010,

and the 23rd Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Seattle, WA, 2010.

4. **Ehrlich SF**, Rosas LG, Ferrara A, King JC, Abrams B, Harley KG, Hedderson MM, Eskenazi B. Pregnancy glucose tolerance and childhood obesity in a Mexican-American cohort. The 24th Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Montreal, Canada, 2011, and the 140th Annual Meeting of the American Public Health Association (Oral Presentation), San Francisco, CA, 2012.
5. Ferrara A, **Ehrlich SF**, Feng J, Quesenberry C, Brown SD, Hedderson M. Postpartum weight loss is associated with improved glucose and insulin homeostasis in women with a history of gestational diabetes. 72nd Scientific Sessions of the American Diabetes Association, Philadelphia, PA, 2012, and the 7th World Congress on Prevention of Diabetes and its Complications, Madrid, Spain, 2012.
6. Mevi A, Unger Hu K, **Ehrlich SF**, Brown SD, Ferrara A. Survey Modality Preference in a Diverse Pregnant Population with Gestational Diabetes Mellitus. The 34th Annual Meeting and Scientific Sessions of the Society of Behavioral Medicine, San Francisco, CA, 2013.
7. **Ehrlich SF**, Sternfeld B, Unger Hu K, Hedderson MM, Mevi A, Brown SD, Kubo A, Ferrara A. Physical Activity and Gestational Weight Gain in Women with GDM. Bay Area Symposium on Clinical Research, San Francisco, CA, 2012; the 19th Annual HMO Research Network Conference (Oral Presentation), San Francisco, CA, 2013; and the American Diabetes Association's 73rd Scientific Sessions (Oral Presentation), Chicago, IL, 2013.
8. Ferrara A, Brown SD, Unger Hu K, Hedderson MM, **Ehrlich SF**, Crites Y. Diabetes Risk Perception and Gestational Weight Gain in Women with GDM. The American Diabetes Association's 73rd Scientific Sessions, Chicago, IL, 2013.
9. Peng TY, Kitzmiller J, Crites Y, **Ehrlich SF**, Hedderson M, Ferrara A. Trends in the Prevalence of Preexisting Type 1 and Type 2 Diabetes and Quality of Care: Northern California, USA: 1996-2011. The American Diabetes Association's 73rd Scientific Sessions, Chicago, IL, 2013.
10. Hedderson M, **Ehrlich SF**, Tsai A, Brown SD, Mevi A, Ferrara A. Gestational Weight Gain in Women with Gestational Diabetes and Risk of Perinatal Complications. The American Diabetes Association's 73rd Scientific Sessions, Chicago, IL, 2013.
11. Brown SD, Tsai A, Hedderson M, **Ehrlich SF**, Crites Y, Ferrara A. Perceived Risk for Diabetes Predicts Postpartum Hyperglycemia in Women with GDM. The American Diabetes Association's 74th Scientific Sessions, San Francisco, CA, 2014.
12. Ferrara A, Hedderson M, Albright CL, Brown SD, **Ehrlich SF**, Mevi A, Tsai A, Ching J, Crites Y, Quesenberry C. Reduced Postpartum Weight Retention with a DPP-derived Lifestyle Intervention: The Gestational Diabetes' Effects on Moms (GEM) Cluster Randomized Trial. The American Diabetes Association's 74th Scientific Sessions, San Francisco, CA, 2014.
13. **Ehrlich SF**, Hedderson M, Feng J, Crites Y, Quesenberry C, Ferrara A. Lifestyle Intervention Improves Postpartum Fasting Glucose Levels in Women with Gestational Diabetes. The American Diabetes Association's 74th Scientific Sessions (Oral Presentation), San Francisco,

CA, 2014; the 27th Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Seattle, WA, 2014; and the 47th Annual Meeting of the Society for Epidemiologic Research, Seattle, WA, 2014.

14. Brown SD, **Ehrlich SF**, Kubo A, Tsai A, Hedderson MM, Quesenberry CP, Ferrara A. Ethnic Identity and Lifestyle Behaviors among Women at High Risk For Diabetes. The University of California San Francisco Health Disparities Research Symposium VIII, San Francisco, CA, 2014, and the 36th Annual Meeting & Scientific Sessions of the Society of Behavioral Medicine, San Antonio, TX, 2015.
15. Ferrara A, Hedderson MM, Brown SD, **Ehrlich SF**, Albright, CL. Reducing postpartum weight retention in women with gestational diabetes: Results of a cluster randomized trial. Obesity Mini-Symposium at the University of Hawaii's John A. Burns School of Medicine and the Endocrine Society's Visiting Professor Program in Obesity. Honolulu, HI, 2015.
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PART III: NARRATIVE

My research interests center on the importance of the prenatal and postpartum periods for later life maternal and child health, particularly programming for chronic disease and chronic disease risk factors. While in graduate school and during my postdoctoral fellowship, I focused on metabolic complications of pregnancy, specifically gestational diabetes and the effects of *in utero* exposure to elevated maternal glucose levels on the children.

My current research focuses on physical activity during pregnancy, which is regarded as safe for women free of medical and obstetrical complications, as well as health system-based interventions for physical activity promotion targeting pregnant and reproductive age women. Pregnant women are in frequent contact with the healthcare system and demonstrate increased motivation for health behavior change, thus physical activity promotion delivered at the health system level is uniquely promising. Evidence suggests that a healthy metabolic profile achieved through physical activity before and during pregnancy may reduce the risk of several pregnancy complications, thereby reducing later life disease risk for both the mother and child. Physical activity may be an effective supporting therapy for the treatment of gestational diabetes and reduce the need for insulin therapy during pregnancy, a predictor of heightened maternal diabetes risk in the postpartum and the offspring's future risk of obesity and diabetes.

Prior to my doctoral studies, I received my MPH in Maternal and Child Health from the University of California, Berkeley, during which time I worked as a graduate student researcher at the California Department of Health Services, Office of AIDS, HIV/AIDS Epidemiology Branch and conducted original survey research on safe sex practices among indigenous youth in Northeastern Nicaragua.