

Katherine Laughon Grantz, M.D., M.S.

Current Positions

Investigator
Epidemiology Branch, Division of Intramural Population Health Research
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Education

- 2011 Postdoctoral Fellow, Epidemiology Branch, Division of Epidemiology,
Statistics and Prevention Research, *Eunice Kennedy Shriver* National
Institute of Child Health & Human Development, National Institutes of
Health
- 2009 M.S., Clinical Research, Clinical Research Training Program,
University of Pittsburgh
- 2009 Maternal-Fetal Medicine Fellowship, University of Pittsburgh, Magee-
Womens Hospital
- 2004 Obstetrics and Gynecology Residency, University of North Carolina at
Chapel Hill
- 2000 M.D., Virginia Commonwealth University School of Medicine
- 1996 M.S., Anatomy, Virginia Commonwealth University School of Medicine
- 1995 B.S., Biology, Duke University

Academic and Professional Experience

2015 – Present	Adjunct Assistant Professor, Department of Family Science, School of Public Health and a Special Member of the Graduate Faculty in the University of Maryland Graduate School
2012 – Present	Tenure Track Investigator, Epidemiology Branch, DIPHR, NICHD, NIH
2010 – Present	Assistant Professor, Department of Obstetrics and Gynecology, Georgetown University School of Medicine
2009 – Present	Attending Physician, Maternal-Fetal Medicine, MedStar Washington Hospital Center
2011 – 2012	Research Fellow – Epidemiology Branch, Division of Epidemiology, Statistics and Prevention Research, <i>Eunice Kennedy Shriver</i> National Institute of Child Health & Human Development, National Institutes of Health
2006 – 2009	Clinical Instructor, Department of Obstetrics, Gynecology and Reproductive Sciences, University of Pittsburgh, Magee-Womens Hospital
2005 – 2006	Clinical Instructor, Department of Obstetrics and Gynecology, New York University Bellevue Hospital
2004 – 2006	Clinical Instructor, Department of Obstetrics and Gynecology, New York University Tisch Hospital

Board Certification

American Board of Obstetrics and Gynecology
11/10/2006 Date of Initial Certification
12/31/2015 Renewal/Expiration Date

Maternal-Fetal Medicine Subspecialty
04/18/2012 Date of Initial Certification
12/31/2015 Renewal/Expiration Date

Honors and Awards

2014 NICHD Group Performance Award in recognition for development of the concept review protocol, Division of Intramural Population Health Research *Ad hoc* Concept Review Committee

- 2009 First Place Fellow Poster Presentation, Elevated first trimester uric acid is associated with the development of gestational diabetes. Magee-Womens Hospital Research Day, Department of Obstetrics, Gynecology and Reproductive Sciences, University of Pittsburgh
- 2008 Irene McLenahan Young Investigator Award. Department of Obstetrics, Gynecology and Reproductive Sciences, University of Pittsburgh
- 2008 Summer Institute in Reproductive and Perinatal Epidemiology. Jointly sponsored by the *Eunice Kennedy Shriver* National Institute of Child Health & Human Development and the Canadian Institute for Health Research
- 2003 Second Place Poster Presentation for, Prior cesarean and the risk for placenta previa on second-trimester ultrasonography. American College of Obstetricians & Gynecologists District IV Meeting
- 2003 Organon Research Scholarship Award: Awarded for resident research presentation, Prior cesarean and the risk for placenta previa on second-trimester ultrasonography. University of North Carolina at Chapel Hill
- 2002 Honorary Emergency Medicine Resident Award: Selected by the emergency medicine residents as the best off-service resident rotating through the E.D. that year, University of North Carolina at Chapel Hill

Professional Societies

- 2011 – Present Society for Epidemiologic Research
- 2010 – Present Society for Pediatric and Perinatal Epidemiologic Research Member
- 2007 – Present Society for Maternal-Fetal Medicine
- 2005 – Present Association of Professors of Gynecology and Obstetrics
- 2001 – Present American College of Obstetricians and Gynecologists

Scientific Review Service

Poster Judge

Annual Society for Maternal-Fetal Medicine Annual Meeting, 2014-2015.

Women's Health Annual Congress, Washington, D.C. March, 2013.

Ad Hoc Journal Reviewer

American Journal of Epidemiology
American Journal of Hypertension
American Journal of Obstetrics & Gynecology
American Journal of Perinatology
Archives of Gynecology and Obstetrics
BJOG: An International Journal of Obstetrics and Gynaecology
Epidemiology
Ethnicity and Disease
Fertility and Sterility
Journal of Perinatal Medicine
Obstetrics & Gynecology
Paediatric and Perinatal Epidemiology
Pediatrics
PLOS ONE
The Journal of Maternal-Fetal & Neonatal Medicine

Extramural Grant Review

NICHD Global Network for Women's and Children's Research, 2009

Meeting Abstract Reviewer

Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting, 2011-2014
Society for Epidemiologic Research Annual Meeting, 2012-2014
Society for Maternal-Fetal Medicine Annual Meeting, 2014-2015

Professional Service

2015 – Present	Liaison, Society for Maternal-Fetal Medicine and Society Epidemiologic Research
2015	Course Co-Director, Clinical Dilemmas, Annual Society for Maternal-Fetal Medicine Meeting Postgraduate Course, San Diego, CA
2014 – Present	Research Committee, Society of Maternal-Fetal Medicine
2014 – 2016	Membership Committee, Society for Epidemiologic Research
2014 – 2016	Program Committee, Symposia Sessions Subcommittee for the Epidemiology Congress of the Americas Meeting, June 2016 Miami, FL
2013 – Present	Liaison, Society for Maternal-Fetal Medicine and Society for Pediatric and Perinatal Epidemiologic Research

2013 Organizer, Innovative Design and Analysis Issues in Fetal Growth Studies Symposia, Annual Society for Epidemiologic Research Meeting, Boston, MA

Government Service

2015 – Present NICHD Human Placenta Project (HPP) Working Group

2014 Epidemiology Branch, DIPHR, Staff Scientist Search Committee

2014 Leader, Division of Intramural Population Health Research Big Science, Pregnancy Group Committee

2014 Division of Intramural Population Health Research Concept Review Committee

2013 Division of Intramural Population Health Research Mentoring Committee

University Service

2005 – 2006 Member, Bellevue Quality and Assurance Issues Committee, New York University

2005 – 2006 Mentor for Nurse Practitioner, New York University Tisch Hospital

2005 – 2006 Mentor, Dean's Committee on Women Mentoring Program, New York University School of Medicine

2005 – 2006 Member, Bellevue Pharmacy Committee, New York University

1999 – 2000 Student member, Virginia Commonwealth University School of Medicine Admissions Committee

Teaching Activities

Clerkship Directorship

2005 – 2006 Associate Director of Medical Student Clerkship, Department of Obstetrics and Gynecology, New York University, New York, NY. Number of students: 20-30 per rotation

Teaching Recognition/Awards

2006 Association of Professors of Gynecology and Obstetrics/Solvay Scholars Program

2002 Golden Tarheel Student Teaching Award, Department of Obstetrics and Gynecology, University of North Carolina at Chapel Hill, NC

Lectures

- 2015 Normal and Abnormal Labor: Is the Friedman Curve Obsolete, Residents and Medical Students, MedStar Washington Hospital Center, Washington D.C.
- 2015 Obstetrical Transport, Maternal-Fetal Medicine Fellows, MedStar Washington Hospital Center, Washington D.C.
- 2014 Defining Normal and Abnormal Fetal Growth: Individualized and Customized References Versus Standards. PhD graduate student lecture, University of Maryland, College Park, MD
- 2014 Decreasing the National Cesarean Delivery Rate, Maternal-Fetal Medicine Fellows, MedStar Washington Hospital Center, Washington D.C.
- 2014 Defining Normal and Abnormal Fetal Growth: Individualized and Customized References Versus Standards, DIPHR Summer Course
- 2014 Normal and Abnormal Labor, Residents and Medical Students, MedStar Washington Hospital Center, Washington D.C.
- 2013 Normal and Abnormal Labor, Residents and Medical Students, MedStar Washington Hospital Center, Washington D.C.
- 2012 Is the Friedman curve obsolete? DIPHR Summer Course
- 2012 Hematologic Disorders in Pregnancy, Maternal-Fetal Medicine Fellows, MedStar Washington Hospital Center, Washington D.C.
- 2011 Normal Labor, DIPHR Summer Course
- 2011 Hematologic Disorders in Pregnancy, Maternal-Fetal Medicine Fellows MedStar Washington Hospital Center, Washington D.C.
- 2011 Cervical Length Measurement. MedStar Washington Hospital Center Sonology Conference, Washington, D.C.
- 2010 Chorioamnionitis in Intact Membranes (Preterm Labor), Maternal-Fetal Medicine Fellows MedStar Washington Hospital Center, Washington D.C.
- 2010 Normal and Abnormal Labor, Residents and Medical Students, MedStar Washington Hospital Center, Washington D.C.
- 2009 Disorders of the Fetal Chest, Maternal-Fetal Medicine Fellows, MedStar Washington Hospital Center, Washington D.C.
- 2009 Intrauterine Growth Restriction, Residents and Medical Students, MedStar Washington Hospital Center, Washington D.C.
- 2006 Preterm Labor, Residents and Medical Students, New York University School of Medicine, New York, NY
- 2005 Benign Breast Disease, Residents and Medical Students, New York University School of Medicine, New York, NY
- 2005 Ectopic Pregnancy, Residents and Medical Students, New York University School of Medicine, New York, NY

Mentoring

- 2015 – 2016 Sarah Pugh, PhD, University of Pittsburgh Graduate School of Public Health
NIH IRTA Postdoctoral Fellow

- 2014 – 2015 Melissa Smarr, PhD, Department of Environmental Health, University of Michigan School of Public Health
NIH IRTA Postdoctoral Fellow (Co-mentored)
- 2014 – 2015 Sung Soo Kim, PhD, Seoul National University, Graduate School of Public Health (Co-mentored)
Korean Visiting Scientist Training Award (VSTA)
- 2014 - 2015 Katheryne Downes, BS, University of Maryland School of Public Health.
NIH Special Volunteer, Predoctoral Fellowship (Dissertation Committee Member, School of Public Health, University of Maryland, College Park, MD)
- 2014 – 2015 Nikira Epps, BA, Pennsylvania State University
NIH IRTA Postbaccalaureate Fellow (Co-mentored)
- 2014 - 2015 Tavor Sondheimer, MD, Sidney Kimmel Medical College of Thomas Jefferson University
Obstetrics and Gynecology Resident, MedStar Washington Hospital Center, Washington D.C.
- 2012 - 2015 Stefanie Hinkle, PhD, Department of Global Health, Rollins School of Public Health, Emory University
NIH IRTA Postdoctoral Fellow
- 2014 - 2015 Tetsuya Kawakita, MD, Kanazawa University, Japan
NIH Special Volunteer and Obstetrics and Gynecology Resident, MedStar Washington Hospital Center, Washington D.C.
- 2013 – 2014 Cecily Clark-Ganheart, MD, Michigan State University College of Human Medicine.
Maternal-Fetal Medicine Subspecialty Fellows, MedStar Washington Hospital Center, Washington D.C.
- 2013 Katheryne Downes, PhD student, University of Maryland School of Public Health.
NIH Summer Student IRTA Fellowship
- 2012 - 2013 Lindsey Sjaarda, PhD, Department of Animal Sciences, University of Wyoming
NIH IRTA Postdoctoral Fellow (Co-mentored). Subsequent position: Staff Scientist, Epidemiology Branch, DIPHR.
- 2012 – 2013 Julia Timofeev, MD, University of Florida, Gainesville.
Maternal-Fetal Medicine Subspecialty Fellows, MedStar Washington Hospital Center, Washington D.C.
Subsequent position: Assistant Clinical Professor of Gynecology & Obstetrics, Johns Hopkins University

- 2012 - 2013 Jasbir Singh, MD, University of Texas Southwestern in Dallas.
Maternal-Fetal Medicine Subspecialty Fellows, MedStar Washington Hospital Center, Washington D.C.
Subsequent position: Staff Physician, North Austin Maternal Fetal Medicine.
- 2012 - 2013 Laura Parikh, MD, University of Medicine and Dentistry of New Jersey – Robert Wood Johnson Medical School (RWJMS) at Cooper University Hospital.
NIH Special Volunteer and Obstetrics and Gynecology Resident, MedStar Washington Hospital Center, Washington D.C.
- 2012 Jennifer O’Loughlin, MD student, The Commonwealth Medical College.
NIH Summer Student IRTA Fellowship
- 2011 – 2012 Gaurav Ghosh, BS, Department of Zoology, University of Oklahoma
NIH IRTA Post-Baccalaureate Fellow. Subsequent position: Medical student, Weill Cornell Medical College, Cornell University.
- 2011 Sahel Hazrati, MPH student, George Mason University.
NIH Summer Student IRTA Fellowship
- 2009 Roberto Aguila Ceron, guest intern from the American Fellows Program (co-mentored)
- 2008 Traci Provins, college student intern, Magee-Womens
Research Institute High School Summer Program (co-mentored)
- 2008 Anne McGinty, high school student intern, Magee-Womens
Research Institute High School Summer Program (co-mentored)
- 2008 Valerie Alstadt, high school student intern, Magee-Womens
Research Institute High School Summer Program (co-mentored)

Awards Received by IRTA Fellows

Stefanie N. Hinkle, PhD (*IRTA Postdoctoral Fellow*), Nominee for the CDC William H. Dietz Nutrition Award for excellence in improving public health through nutrition, Atlanta, GA, 2014.

Stefanie N. Hinkle, PhD (*IRTA Postdoctoral Fellow*), *Fellows Award for Research Excellence (FARE)*, National Institutes of Health. The association between parity and birthweight in a longitudinal consecutive pregnancy cohort, 2013.

Stefanie N. Hinkle, PhD (*IRTA Postdoctoral Fellow*), Society for Epidemiologic Research, Student-Postdoc Travel Scholarship. Boston, MA, 2013.

Invited Talks by IRTA Fellows

Hinkle SN, Albert P, Sjaarda LA, Mendola P, Boghossian N, Yeung E, **Laughon SK**. Parity and birth weight in a longitudinal consecutive pregnancy cohort. National Institutes of Health Research Festival, Symposia on Mothers and Their Babies, November 7, 2013, Bethesda, MD.

Intramural Research Studies

- 2015 – 2017 Fetal Body Composition and Organ Growth in Pregnancy Complications.
Role: PI
Approved amount \$2,863,193
- 2014 – 2015 Exposome in Relation to Birth Weight and Maternal Obesity.
Role: PI
Approved amount \$495,792
- 2012 – 2014 Measurement of Biospecimens in the Effects of Aspirin in Gestation and Reproduction (EAGeR) Trial.
Role: Co-PI with Mumford
Total contract amount \$2,102,020
- 2012 – 2014 Pregnancy Exposome Proof-of-Concept Study
Role: Co-Investigator; PI: Buck Louis (Chemical); Zhang (Biomedical)
Total contract amount: \$419,816 (Chemical); \$545,592 (Biomedical)
- 2008 – 2014 NICHD Fetal Growth Studies – Singletons and Twins
Role: Co-Investigator (no COR activities), PI: Buck Louis (2011 – present);
previous PI: J. Zhang (2008-2011)
Total contract amount 2008 – 2014, \$35,828,561 (R&D funding originally under J. Zhang)
- 2011 – 2013 Reproductive effects of in utero exposure to Chernobyl fallout in an iodine deficient region of Ukraine.
Role: Co-Investigator (no COR activities), PI: Hatch.
Total contract amount \$120,550
- 2013 – 2018 B-WELL-Mom Study
Role: Co-Investigator (no COR activities), PI: Mendola.
Total estimated cost \$11,000,000
- 2011 Air Quality and Women’s Reproductive Health.
Role: Co-Investigator (no COR activities), PI: Mendola.
Total contract amount \$494,458
- 2006 – 2010 Consortium on Safe Labor.
Role: Co-PI with Grewal (2012 – present) (no COR activities)
Previous role: Co-Investigator (2009 – 2012)

Previous PI: Grewal (2011 – 2012), J. Zhang (2006-2011)
Total contract amount \$3,279,991 (R&D funding originally under J. Zhang)

2009 – 2010 A Database to Examine the Association of the Occurrence and Timing of Adverse Pregnancy Outcomes among Consecutive Pregnancies.
Role: Co-Investigator, PI: Albert.
Total contract amount \$451,000

Grants

2015 – 2016 Bill & Melinda Gates Foundation Grand Challenges Explorations Grant
Latent Variable Approaches for Estimating Gestational Age
Role on Project: Co-Investigator, PI: Albert.
Total Dollar Amount: \$100,000

2005-2006 NTD Laboratories Clinical Research Grant
Association between pregnancy-associated plasma protein A, free-beta subunit human chorionic gonadotropin and adverse pregnancy outcomes in twin gestations.
Role on Project: Principal Investigator
Total Dollar Amount: \$2500

Invited Talks and Seminars

Clinical Systems for Research: Advantages and Pitfalls. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Denver, CO, June 2015

Valid use of Big Data for Pediatric or Perinatal Research, Panelist Discussant, Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Denver, CO, June 2015

Racial/ethnic differences in fetal growth: The NICHD Fetal Growth Studies. Fetal Imaging Workshop – 2, Fetal Growth Restriction: Diagnosis and Management Co-sponsored by SMFM, NICHD, AIUM, ACOG, ACR, SRU, Washington D.C., April 2015.

Defining Normal and Abnormal Fetal Growth: Is the Hadlock reference obsolete? MedStar Georgetown University Hospital Obstetrics and Gynecology Grand Rounds, Washington, D.C., April 2015.

Distinguishing pathologic fetal growth restriction from constitutional small-for-gestational-age: Is the Hadlock reference obsolete?" Clinical Dilemmas: What the Literature Didn't Tell You, Annual Society for Maternal-Fetal Medicine Meeting, San Diego, CA, February 2015.

Fetal Growth Restriction. Roundtable Session, Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Seattle, WA, June, 2014.

Defining Normal and Abnormal Fetal Growth: Individualized and Customized References Versus Standards. Magee-Womens Research Institute Work-in-Progress Research Conference, University of Pittsburgh, Pittsburgh, PA, May 20, 2014.

Timing of Delivery and Associated Neonatal Morbidity: Current Practice and Existing Data Gaps. Prince George's Hospital Center Continuing Medical Education Lecture, Cheverly, MD, April 22, 2014.

Establishing Standards for Optimal Fetal Growth: Study Designs and Practical Considerations. University of North Carolina at Chapel Hill Department of OB-GYN's Grand Rounds, Chapel Hill, NC, April 16, 2014.

Is the Friedman Curve Obsolete? Department of Obstetrics & Gynecology, University of Calgary Grand Rounds Presentation, Calgary, AB, Canada, April 4, 2014.

Timing of Delivery and Associated Neonatal Morbidity: Current Practice and Existing Data Gaps. Department of Obstetrics & Gynecology, University of Calgary, Calgary, Alberta, Canada, April 3, 2014.

Timing of Delivery and Associated Neonatal Morbidity in Pregnancies With Diabetes: Current Practice and Existing Data Gaps. Annual Meeting of the Diabetes in Pregnancy Study Group of North America Associated Postgraduate Course, Washington, DC, October 2013.

Panel Discussant, "Pearls of the Day" Growth Delay and Adverse Outcome Roundtable and Open Forum, 2nd International Fetal Growth Conference, Baltimore, MD, September 2013.

Establishing standards for optimal fetal growth: Study designs and practical considerations. Laughon SK on behalf of the NICHD Fetal Growth Study. 2nd International Conference on Fetal Growth, Baltimore, MD, September 2013.

Study Design and Clinical Implications of the NICHD Fetal Growth Study, Annual Society for Epidemiologic Research Meeting, Boston, MA, June 2013.

Is the Friedman Curve Obsolete? University of Maryland Ground Rounds, Baltimore, MD, May 2013.

Is the Friedman Curve Obsolete? Recent Advances in Obstetrical Care Conference, MedStar Harbor Hospital, Baltimore, MD, March 2013.

Study Design and Clinical Implications of the NICHD Fetal Growth Study, Eastern North American Region/International Biometric Society meeting, Tampa, FL, March 2013.

Is the Friedman Curve Obsolete? Prince George's Hospital Center Continuing Medical Education Lecture, Cheverly, MD, December 2012.

Is the Friedman Curve Obsolete? The 25th Annual Rochester Regional Perinatal Conference, Rochester Academy of Medicine, Rochester, New York, May 2012.

Timing of Delivery: Current Practice and Existing Data Gaps. The 25th Annual Rochester Regional Perinatal Conference, Rochester Academy of Medicine, Rochester, New York, May 2012.

Is the Friedman Curve Obsolete? North Carolina Obstetrical and Gynecological Society, Charlotte, North Carolina, April 2012.

Caffeine and Pregnancy. Washington Hospital Center and Georgetown University Grand Rounds, Washington, D.C., May 2011.

Caffeine and Pregnancy. Wake Forest University Grand Rounds, Winston-Salem, North Carolina, May 2008.

Media Images of Ob-Gyns: Where are Medical Students Getting their Cues for Professional Behavior? (Chuang AW, Laughon SK, Manriquez M), Association of Professors of Gynecology and Obstetrics Faculty Development Seminar, Maui, Hawaii, January 2008.

Teamwork in Medicine: Lessons Learned from the Business World. (Buckley A, Laughon SK, Tasillo D), Association of Professors of Gynecology and Obstetrics Faculty Development Seminar, Maui, Hawaii, January 2008.

What You Always Wanted to Ask Your Gynecologist But Never Did. Initiative for Women with Disabilities, New York University Hospital for Joint Diseases, New York, New York, November 2005.

Presentations at Scientific Meetings (Underlined denotes mentored project.)

Oral Presentations

1. Smarr MM, **Grantz KL**, Zhang C, Sundaram R, Maisog J, Barr DB, Buck Louis GM. Pre-Pregnancy Low Level Exposures to Persistent Organic Pollutants and Gravid Conditions: The LIFE Study. International Society for Environmental Epidemiology Annual Meeting, Sao Paulo, Brazil, August 2015.
2. Smarr MM, **Grantz KL**, Sundaram R, Maisog J, Kannan K, Buck Louis GM. Parental preconception exposure to non-persistent endocrine disrupting chemicals and birth outcomes: the LIFE study. Annual Society for Epidemiologic Research Meeting, Denver, CO, June 2015.
3. **Grantz KL**, Grewal J, Albert PS, Wapner RJ, D'Alton ME, Sciscione AC, Grobman WA, Owens J, Newman R, Wing DA, Chien EK, Kim S, Zhang C, Buck Louis GM,

Hediger ML. The NICHD Fetal Growth Studies: Twin Trajectories. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Denver, CO, June 2015.

4. **Grantz KL**, Sundaram R, Hinkle SN, Berghella V, Hoffman MK, Lu Z, Reddy UM. Reassessing duration of the second stage of labor. Annual Society for Maternal-Fetal Medicine Meeting, San Francisco, CA, February 2015.
5. **Grantz KL**. (Buck Louis GM, Grewal J, Albert PS, Sciscione A, Nageotte MP, Grobman W, Newman R, Wapner RJ, D'Alton ME, Skupski D, Wing DA, Ranzini A, Owen J, Chien EK, Craigo S, Hediger ML, Kim S, Zhang C, Grantz KL). Racial/Ethnic Differences in Fetal Growth, the NICHD Fetal Growth Studies. Annual Society for Maternal-Fetal Medicine Meeting, San Francisco, CA, February 2015.
6. Mendola, P. Wallace, M. Hwang, B.S. Liu, D. **Grantz, KL**. Peak air pollution in the first weeks of pregnancy and preterm delivery risk. American Society for Reproductive Medicine annual meeting, Honolulu, HI, October 2014.
7. **Grantz KL**, Hinkle SN, Johns AM, Kim S, Albert PS. Longitudinal changes in maternal weight gain and intrauterine fetal growth. 3rd International Conference on Fetal Growth, Oxford, UK, October 2014.
8. **Grantz KL**, Hinkle SN, Mendola P, Sjaarda LA, Leishear K, Albert PS. Differences in risk factors for recurrent versus incident preterm delivery. Concurrent Contributed Session: Aspects of timing in perinatal and pediatric epidemiologic research, Annual Society for Epidemiologic Research Meeting, Seattle, WA, June 2014.
9. Hinkle SN, Johns AM, Kim S, Albert PS, **Grantz KL**. Longitudinal changes in maternal weight gain and intrauterine fetal growth. Concurrent Contributed Session: Aspects of timing in perinatal and pediatric epidemiologic research, Annual Society for Epidemiologic Research Meeting, Seattle, WA, June 2014.
10. Hinkle SN, Albert PS, Sjaarda LA, Grewal U, **Grantz KL**. The association between trajectories of pregnancy gestational weight gain and child IQ at 5 years of age. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Seattle, WA, June, 2014.
11. Wallace M, Mendola P, Chen Z, Hwang BS, **Grantz KL**. Preterm birth in the context of increasing income inequality. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Seattle, WA, June, 2014.
12. Hinkle SN, Albert PS, Mendola P, Sjaarda LA, Boghossian N, Yeung E, **Laughon SK**. Differences in risk factors for recurrent and incident small-for-gestational-age among parous women. 2nd International Conference on Fetal Growth, Baltimore, MD, September 2013.

13. Sjaarda LA, Albert PS, Hinkle SN, Mumford SL, **Laughon SK**. Assessing variance assumptions in the customization of birthweight percentiles. 2nd International Conference on Fetal Growth, Baltimore, MD, September 2013.
14. Mendola P, Robledo CA, Yeung E, Leishear K, Liu D, Männistö T, Sherman S, **Laughon SK**. First trimester air pollution exposure and risk of small for gestational age infants born to mothers with asthma. 2nd International Conference on Fetal Growth, Baltimore, MD, September 2013.
15. Boghossian N, Yeung E, Mendola P, **Laughon SK**, Hinkle S, Zhang C, Albert P. Recurrence of hypertensive disorders and subsequent fetal growth restriction. 2nd International Conference on Fetal Growth, Baltimore, MD, September 2013.
16. **Laughon SK**, Mendola P, Leishear K, Albert PS. The NICHD Consecutive Pregnancy Study: Risk factors for recurrent preterm birth. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Boston, MA, June 2013.
17. Sjaarda LA, **Laughon SK**, Mumford SL, Hinkle SN, Mendola P, Albert PS. Large-for-gestational-age birthweight: does customization improve detection of adverse perinatal outcomes?" Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Boston, MA, June 2013.
18. Boghossian N, Yeung E, Mendola P, **Laughon SK**, Hinkle S, Zhang C, Albert P. Recurrence of gestational hypertensive disorders and impact on newborn outcomes. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Boston, MA, June 2013.
19. Boghossian N, Yeung E, Albert P, Mendola P, **Laughon SK**, Zhang, C. Changes in diabetes status between pregnancies and newborn outcomes. Pediatric Academic Societies Annual Meeting, Washington DC, May 2013.
20. Bowers K, **Laughon SK**, Kim SD, Mumford S, Brite J, Zhang C. Medical history of depression and risk for gestational diabetes - Findings from a large population-based cohort in the United States. Annual Society for Epidemiologic Research Meeting, Minneapolis, MN, June 2012.
21. Bowers K, **Laughon SK**, Kim SD, Mumford S, Brite J, Zhang C. Medical history of depression and risk for gestational diabetes - Findings from a large population-based cohort in the United States. Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting, Minneapolis, MN, June 2012.
22. **Laughon SK**, Hazrati S, Bowers K, Zhang C, Grewal U. Increased neonatal respiratory morbidity associated with gestational and pregestational diabetes. Annual Society for Maternal-Fetal Medicine Meeting, Dallas, TX, February 2012.

Poster Presentations

(Underlined denotes mentored project.)

1. Hinkle SN, Sjaarda LA, Albert PS, Mendola P, **Grantz KL**. Perinatal mortality associated with three classifications of small-for-gestational age varies by maternal body mass index. Annual Society for Epidemiologic Research Meeting, Denver, CO, June 2015.
2. Kim SS, Zhu Y, **Grantz KL**, Hinkle SN, Chen Z, Wallace M, Smarr MM, Epps NM, Mendola P. Does low risk obesity exist in pregnancy? Annual Society for Epidemiology Research Meeting, Denver, CO, June 2015.
3. Zhu Y, Zhang C, Liu D, **Grantz KL**, Wallace M, Mendola P. Maternal ambient air pollution exposure preconception and during early gestation and offspring congenital orofacial defects. Annual Society for Epidemiology Research Meeting, Denver, CO, June 2015.
4. **Grantz KL**, Sundaram R, Hinkle SN, Berghella V, Hoffman MK, Ma L, Lu Z, Reddy UM. Reassessing Duration of the Second Stage of Labor. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Denver, CO, June 2015.
5. Hinkle SN, Mumford SL, Schisterman EF, Mitchell EM, Sjaarda LA, Schliep KC, Perkins NJ, Radin RG, Silver RM, Leshner LL, Townsend JM, Lynch AM, Wactawski-Wende J, Galai N, Faraggi D, **Grantz KL**. Pregnancy Loss Associated with First Trimester Nausea and Vomiting. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Denver, CO, June 2015.
6. Downes KL, Shenassa ED, **Grantz KL**. Neonatal outcomes associated with placental abruption. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Denver, CO, June 2015.
7. Epps NM, Wallace M, Mendola P, Chen Z; Smarr M, Hinkle SN, Zhu Y, Kim S, **Grantz KL**. Racial Differences in Preterm Neonatal Outcomes. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Denver, CO, June 2015.
8. Smarr MM, **Grantz KL**, Zhang C, Sundaram R, Maisog Barr DB, Buck Louis GM. Preconception exposures to persistent organic pollutants and gravid conditions. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Denver, CO, June 2015.
9. Zhu Y, Zhang C, Liu D, **Grantz KL**, Wallace M, Mendola P. Maternal ambient air pollution exposure preconception and during early gestation and offspring congenital orofacial defects. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Denver, CO, June 2015.

10. Zhang C, Zhang C, Grewal J, Sciscione A, Wing DA, Grobman W, Newman R, Wapner RJ, D'Alton ME, Skupski D, Ranzini A, Owen J, Chien EK, Craigo S, Hediger ML, Kim S, **Grantz KL**, Buck Louis GM. Maternal Obesity and Fetal Growth: Findings from the NICHD Fetal Growth Studies. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Denver, CO, June 2015.
11. Hinkle SN, Sjaarda LA, Albert PS, Mendola P, **Grantz KL**. Does high prepregnancy body mass index (BMI) mask increased risk for small-for-gestational-age (SGA) birthweight and associated perinatal mortality? Annual Society for Maternal-Fetal Medicine Meeting, San Francisco, CA, February 2015.
12. Kawakita T, Reddy UM, Iqbal S, Landy H, Huang J, **Grantz KL**. Complications of fetal scalp electrode. Annual Society for Maternal-Fetal Medicine Meeting, San Francisco, CA, February 2015.
13. Halscott T, Reddy UM, Landy H, Ramsey P, Iqbal S, Huang J, **Grantz KL**. Maternal and neonatal outcomes by attempted mode of delivery during the second stage of labor in term singleton gestations. Annual Society for Maternal-Fetal Medicine Meeting, San Francisco, CA, February 2015.
14. Coviello L, Kelly TE, **Grantz KL**, Huang J, Landy H. Further characterizing underlying factors in retained placenta. Annual Society for Maternal-Fetal Medicine Meeting, San Francisco, CA, February 2015.
15. Hatch M, Tereschenko V, **Grantz KL**, Sun L, Zvinchuk O, Tronko M, Albert P. Reproductive outcomes in a cohort exposed in utero to Chernobyl fallout in Ukraine. Conference on Radiation Health, Las Vegas, NV, September, 2014.
16. Mendola P, Wallace M, Robledo C, Liu D, Männistö T, **Grantz KL**. Air pollution and preeclampsia risk among nulliparas in a large U.S. obstetric cohort, the Consortium on Safe Labor (2002-2008). Poster presented at the American College of Epidemiology Annual Meeting, Silver Spring, MD, September 2014.
17. Wallace M, Mendola P, **Grantz KL**. The joint effects of structural racism and income inequality on small for gestational age birth. American College of Epidemiology Annual Meeting, Silver Spring, MD, September 2014.
18. **Grantz KL**, Gonzalez-Quintero V, Troendle J, Reddy U, Hinkle SN, Kominiarek M, Zhang, J. Labor patterns in women attempting vaginal birth after cesarean (VBAC) from the Consortium on Safe Labor Study. Annual Society for Epidemiologic Research Meeting, Seattle, WA, June 2014.
19. Hinkle SN, Albert PS, Sjaarda LA, Grewal U, **Grantz KL**. The association between trajectories of pregnancy gestational weight gain and child IQ at 5 years of age. Annual Society for Epidemiologic Research Meeting, Seattle, WA, June 2014.

20. Hinkle SN, Boghossian NS, Sjaarda LA, Ye A, **Grantz KL**, Schisterman EF. Causal Diagrams of Total Gestational Weight Gain and the Utility of Weight-Gain-for-Gestational-Age Z-score. Annual Society for Epidemiologic Research Meeting, Seattle, WA, June 2014.
21. **Grantz KL**, Gonzalez-Quintero V, Troendle J, Reddy U, Hinkle SN, Kominiarek M, Zhang, J. Labor patterns in women attempting vaginal birth after cesarean (VBAC) from the Consortium on Safe Labor Study. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Seattle, WA, June 2014.
22. **Grantz KL**, Hinkle SN, Mendola P, Sjaarda LA, Leishear K, Albert PS. Differences in risk factors for recurrent versus incident preterm delivery. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Seattle, WA, June 2014.
23. Sjaarda LA, Albert PS, Hinkle SN, Mumford SL, **Grantz KL**. Customized variance for determining customized birthweight percentiles. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Seattle, WA, June 2014.
24. Mendola P, Robledo C, Yeung E, Leishear K, Liu D, Männistö T, Sherman S, **Grantz KL**. Small for gestational age infants born to asthmatic mothers in association with first trimester air pollution. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Seattle, WA, June 2014.
25. Downes KL, Hinkle SN, Sjaarda LA, Albert PS, **Laughon SK**. Prior prelabor or intrapartum cesarean delivery and risk of placenta previa. Annual Society for Maternal-Fetal Medicine Meeting, New Orleans, LA, February 2014.
26. Clark-Ganheart CA, Reddy UM, Kominiarek M, Huang CJ, Landy HJ, **Laughon SK**. The optimal delivery approach for obese women. Annual Society for Maternal-Fetal Medicine Meeting, New Orleans, LA, February 2014.
27. Mendola P, Sundaram R, Leishear K, Männistö T, Liu D, Robledo C, Ying Q, Sherman, S, **Laughon SK**. Traffic related air pollutants appear to trigger preterm birth among women with asthma. Annual Meeting of the American College of Epidemiology, Louisville, KY, September 2013.
28. Mendola P, Sundaram R, Leishear K, Männistö T, Liu D, Robledo C, Ying Q, Sherman S, **Laughon SK**. Air pollution and preterm birth – are women with asthma at greater risk? Joint meeting of ISEE, ISES and ISIAQ Environmental Health Conference, Basel Switzerland, August 2013. (available online in Environ Health Perspect: <http://ehp.niehs.nih.gov/ehbasel13/p-2-05-02/>)
29. Männistö T, Mendola P, Sundaram R, Schisterman E, Leishear K, Liu D, Sherman S, Ying Q, **Laughon SK**. Does air pollution impact cardiovascular events during labor and delivery? Joint meeting of ISEE, ISES and ISIAQ Environmental Health Conference,

Basel Switzerland, August 2013. (available online in Environ Health Perspect: <http://ehp.niehs.nih.gov/ehbase113/p-1-05-12/>)

30. 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. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Boston, MA, June 2013.
31. Hinkle SN, **Laughon SK**, Sjaarda LA, Mendola P, Boghossian N, Yeung E, Albert PS. The association between parity and birthweight in a longitudinal consecutive pregnancy cohort. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Boston, MA, June 2013.
32. Männistö T, Mendola P, Sundaram R, Leishear K, Liu D, Ying Q, **Laughon SK**. Air pollution and cardiovascular events during labor and delivery. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Boston, MA, June 2013.
33. Mendola P, Mumford SL, Männistö TI, Holston A, Reddy UM, **Laughon SK**. Estimating the direct effect of preeclampsia on neonatal outcomes independent of preterm delivery using marginal structural models. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Boston, MA, June 2013.
34. Robledo CA, Mendola P, Yeung E, Mannisto T, Sundaram R, Liu D, Ying Q, Sherman S, Lipsky L, **Laughon SK**. Preconception air pollution exposures and risk of gestational diabetes mellitus. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Boston, MA, June 2013.
35. Boghossian N, Yeung E, Albert PS, Mendola P, **Laughon SK**, Hinkle SN, Zhang C. Changes in diabetes status between pregnancies and newborn outcomes. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Boston, MA, June 2013.
36. Hinkle SN, **Laughon SK**, Sjaarda LA, Mendola P, Boghossian N, Yeung E, Albert PS. The association between parity and birthweight in a longitudinal consecutive pregnancy cohort. Annual Society for Epidemiologic Research Meeting, Boston, MA, June 2013.
37. Sjaarda L, Mumford S, **Laughon SK**, Kissell K, Wactawski-Wende J, Schisterman E. Perturbations in testosterone are associated with sporadic anovulation in normally menstruating women. Annual Society for Epidemiologic Research Meeting, Boston, MA, June 2013.
38. Robledo CA, Mendola P, Yeung E, Mannisto T, Sundaram R, Liu D, Ying Q, Sherman S, Lipsky L, **Laughon SK**. Preconception air pollution exposures and risk of gestational diabetes mellitus. Annual Society for Epidemiologic Research Meeting, Boston, MA, June 2013.

39. Mendola P, Männistö T, Leishear K, Reddy UM, Chen Z, **Laughon SK**. Neonatal health of infants born to mothers with asthma. Annual Society for Epidemiologic Research Meeting, Boston, MA, June 2013.
40. Boghossian N, Yeung E, Albert PS, Mendola P, **Laughon SK**, Hinkle SN, Zhang C. Changes in diabetes status between pregnancies and newborn outcomes. Annual Society for Epidemiologic Research Meeting, Boston, MA, June 2013.
41. Boghossian N, Yeung E, Mendola P, **Laughon SK**, Hinkle SN, Zhang C, Albert PS. Recurrence of gestational hypertensive disorders and impact on newborn outcomes. Annual Society for Epidemiologic Research Meeting, Boston, MA, June 2013.
42. Männistö T, Mendola P, Reddy UM, **Laughon SK**. Neonatal outcomes and birth weight in pregnancies complicated by maternal thyroid disease. Pediatric Academic Societies Annual Meeting, Washington D.C., May 2013.
43. Brite J, Shiroma E, Bowers K, Yeung E, **Laughon SK**, Grewal U, Zhang C. Height and risk of gestational diabetes: Does maternal race make a difference? Population Association of America Annual Meeting, New Orleans, LA, April 2013.
44. **Laughon SK**, Berghella V, Sundaram R, Reddy UM, Lu Z, Hoffman MK. Neonatal and maternal outcomes with prolonged second stage of labor. Annual Society for Maternal-Fetal Medicine Meeting, San Francisco, CA, February 2013.
45. **Laughon SK** on behalf of the NICHD Fetal Growth Study. Characterization of abnormal fetal growth patterns in relation to pregnancy complications using data from the NICHD Fetal Growth Study. International Fetal Growth Conference, Birmingham, UK, September 2012.
46. Mendola P, **Laughon SK**, Männistö TI, Zhang J, Leishear K, Reddy U, Chen Z. Pregnancy complications associated with asthma. American College of Epidemiology, Chicago, IL, September 2012. Best Poster Award winner.
47. **Laughon SK**, McClain A, Sundaram R, Buck Louis GM. Maternal serum lipids and length of gestation. Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting, Minneapolis, MN, June 2012.
48. Ghosh G, **Laughon SK**, Mendola P, Chen Z, Mannisto T, Xie Y, Grewal J. Racial/ethnic differences in pregnancy related hypertensive disease among nulliparous women. Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting, Minneapolis, MN, June 2012.
49. Bowers K, **Laughon SK**, Kiely M, Brite J, Zhang C. Gestational diabetes, pre-pregnancy obesity, and pregnancy weight gain and excess fetal growth: variations by race/ethnicity. Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting,

Minneapolis, MN, June 2012.

50. Aliaga S, **Laughon SK**, Long DL, Herring AH, Laughon MM, Boggess K, Reddy UM, Zhang J. Center variation in non-spontaneous late preterm births. Pediatric Academic Societies Annual Meeting, Boston, MA, April 2012.
51. Mendola P, **Laughon SK**, Grewal J, Zhang J. Complications of labor and delivery among U.S. women with asthma, Consortium on Safe Labor. International Society for Environmental Epidemiology Conference, Barcelona, Spain, September 2011.
52. **Laughon SK**, Zhang J, Grewal J, Sundaram R, Beaver J, Reddy UM. Induction of labor in contemporary obstetrical practice. Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting, Montreal, Canada, June 2011.
53. **Laughon SK**, Zhang J, Troendle J, Sun L, Reddy UM. Simplifying the Bishop score. Annual Society for Maternal-Fetal Medicine Meeting, San Francisco, CA, February 2011.
54. Branch DW, **Laughon SK**, Troendle J, Beaver J, Zhang J. Current labor outcomes compared to those when “I Want to Hold Your Hand Was # 1.” Annual Society for Maternal-Fetal Medicine Meeting, San Francisco, CA, February 2011.
55. Sciscione A, Zhang J, **Laughon SK**, Reddy U, Hoffman M. The duration of labor induction and maternal and neonatal outcomes. Annual Society for Maternal-Fetal Medicine Meeting, San Francisco, CA, February 2011.
56. **Laughon SK**, Reddy UM, Sun L, Zhang J. Precursors for late preterm birth in singleton gestations. Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Seattle, WA, June 2010.
57. **Laughon SK**, Powers RW, Roberts JM, Parana S, Catov J. Caffeine is associated with insulin resistance in mid-gestation. Annual Society for Maternal-Fetal Medicine Meeting, Chicago, IL, February 2010.
58. **Laughon SK**, Catov J, Powers RW, Roberts JM, Gandley RE. First trimester uric acid and adverse pregnancy outcomes. Society for Gynecologic Investigation Annual Meeting, Glasgow, Scotland, March 2009.
59. **Laughon SK**, Catov J, Bech BH, Olsen J. High coffee intake is associated with increased risk for gestational diabetes in nonsmokers. Society for Gynecologic Investigation Annual Meeting, Glasgow, Scotland, March 2009.
60. **Laughon SK**, Catov J, Provins T, Roberts JM, Gandley RE. First trimester hyperuricemia predicts development of gestational diabetes. Annual Society for Maternal-Fetal Medicine Meeting, San Diego, CA, February 2009; Magee-Womens

Hospital Research Day, Pittsburgh, PA, June 2009 – Awarded Best Fellow Poster Presentation.

61. **Laughon SK**, Catov J, Roberts JM. Uric acid concentrations are associated with insulin resistance in normotensive pregnant women. Society for Gynecologic Investigation Annual Meeting, San Diego, CA, March 2008.
62. **Laughon SK**, Curtin JP, Liu M. A randomized, controlled trial comparing a traditional lecture to a life experience source during a third year obstetrics and gynecology clerkship. Association of Professors of Gynecology and Obstetrics/Creog Meeting, Salt Lake City, UT, March 2007.
63. **Laughon SK**, Bender S, Saltzman DH, Rhea D, Rebarber A. Monitoring peak plasma anti-factor Xa activity across singleton gestations in thrombophilic patients treated with low molecular weight heparins (LMWH). Annual Society for Maternal-Fetal Medicine Meeting, San Francisco, CA, February 2007.
64. **Laughon SK**, Rebarber A, Saltzman DH, Fink L, Rolnitzky L. The association between pregnancy-associated plasma protein A, free-beta subunit human chorionic gonadotropin and adverse pregnancy outcomes in twin gestations. Annual Society for Maternal-Fetal Medicine Meeting, Miami, FL, February 2006.
65. **Laughon SK**, Wolfe HM, Visco AG. Prior Cesarean and the Risk for Placenta Previa on Second-Trimester Ultrasonography. American College of Obstetricians and Gynecologists District IV Meeting Poster Presentation, awarded 2nd place. San Juan, Puerto Rico, October 2003.

Publications

(Underlined denotes mentored paper.)

Refereed Manuscripts

1. Männistö T, Mendola P, Kiely M, O'Loughlin JA, Werder E, Chen Z, Ehrenthal D, **Grantz KL**. Maternal psychiatric disorders and risk of preterm birth – a retrospective cohort study. In press, *Annals of Epidemiology*.
2. Wallace M, **Grantz KL**, Liu D, Zhu Y, Kim SS, Mendola P. Exposure to ambient air pollution and premature rupture of membranes. In press, *American Journal of Epidemiology*.
3. Kawakita T, Reddy UM, Landy H, Iqbal S, Huang C, **Grantz KL**. Neonatal complications associated with use of fetal scalp electrode: a retrospective study. In press, *BJOG: An International Journal of Obstetrics and Gynaecology*.

4. Halscott T, Reddy UM, Landy H, Ramsey P, Iqbal S, Huang J, **Grantz KL**. Maternal and Neonatal Outcomes by Attempted Mode of Operative Delivery From a Low Station in the Second Stage of Labor. *Obstetrics & Gynecology*. 2015 Nov 5. [Epub ahead of print]
5. Wallace M, Mendola P, Chen Z, Hwang BS, **Grantz KL**. Preterm birth in the context of increasing income inequality. *Maternal and Child Health Journal*. 2015 Oct 8. [Epub ahead of print].
6. Kawakita T, Wilson K, **Grantz KL**, Landy HJ, Huang C, Gomez-Lobo V. Maternal and neonatal outcomes in adolescent pregnancy. *Journal of Pediatric and Adolescent Gynecology*. 2015 Aug 29. [Epub ahead of print].
7. Coviello L, **Grantz KL**, Huang C, Kelly TE, Landy HJ. Risk factors for retained placenta. *American Journal of Obstetrics & Gynecology*. 2015 Jul 29. [Epub ahead of print]. (NIHMSID # 692119)
8. Buck Louis GM, Grewal J, Albert PS, Sciscione A, Wing DA, Grobman W, Newman R, Wapner RJ, D'Alton ME, Skupski D, Nageotte MP, Ranzini A, Owen J, Chien EK, Craigo S, Hediger ML, Kim S, Zhang C, **Grantz KL**. Racial/Ethnic Differences in Fetal Growth, the NICHD Fetal Growth Studies. *American Journal of Obstetrics & Gynecology*. 2015 Oct;213(4):449.e1-449.e41.
9. Smarr MM, **Grantz KL**, Sundaram R, Maisog J, Kannan K, Buck Louis GM. Parental urinary biomarkers of preconception exposure to bisphenol A and phthalates in relation to birth outcomes. *Environmental Health*. 2015 Sep 11;14:73.
10. Clark-Ganheart CA, Reddy UM, Kominiarek M, Huang CJ, Landy HJ, **Grantz KL**. Pregnancy Outcomes Among Obese Women and Their Offspring by Attempted Mode of Delivery. *Obstetrics & Gynecology*. 2015 Nov;126(5):987-93.
11. Shih JH, Albert PS, Mendola P, **Grantz KL**. Modeling the Type and Timing of Consecutive events: Application to Predicting Preterm Birth in Repeated Pregnancies. In press, *Journal of the Royal Statistical Society, Series C*.
12. Männistö T, Mendola P, **Grantz KL**, Leishear K, Sundaram R, Sherman S, Ying Q, Liu D. Acute and recent air pollution exposure and cardiovascular events at labor and delivery. *Heart*. 2015 Sep;101(18):1491-8.
13. Boghossian N, Yeung E, Mendola P, **Grantz KL**, Albert PS. Delivery blood pressure and other first pregnancy risk factors in relation to hypertensive disorders in second pregnancies. *American Journal of Hypertension*. 2015 Sep;28(9):1172-9.
14. **Grantz KL**, Gonzalez-Quintero V, Troendle J, Reddy U, Hinkle SN, Kominiarek M, Zhang, J. Labor Patterns in Women Attempting Vaginal Birth After Cesarean With Normal Neonatal Outcomes. *American Journal of Obstetrics & Gynecology*, 2015

Aug;213(2):226.e1-6. (NIHMSID # 692119)

15. Wallace M, Mendola P, **Grantz KL**. Joint effects of structural racism and income inequality on small-for-gestational-age birth. *American Journal of Public Health*. 2015 Aug;105(8):1681-8.
16. Zhu Y, Zhang C, Liu D, **Grantz KL**, Wallace M, Mendola P. Maternal ambient air pollution exposure preconception and during early gestation and offspring congenital orofacial defects. *Environmental Research*. 2015 Jul;140:714-20.
17. Flores KF, Robledo CA, Hwang BS, Leishear K, **Grantz KL**, Mendola P. Does maternal asthma impact racial/ethnic disparities in obstetric and neonatal complications? *Annals of Epidemiology*, 2015 Jun;25(6):392-397.
18. **Grantz KL**, Hinkle SN, Mendola P, Sjaarda LA, Leishear K, Albert PS. Differences in Risk Factors for Recurrent Versus Incident Preterm Delivery. *American Journal of Epidemiology*. 2015 182: 157-167.
19. Hinkle SN, Johns AM, Kim S, Albert PS, **Grantz KL**. Longitudinal changes in gestational weight gain and the association with intrauterine fetal growth. *European Journal of Obstetrics & Gynecology and Reproductive Biology*. 2015 Jul;190:41-7.
20. Downes KL, Hinkle SN, Sjaarda LA, Albert PS, **Grantz KL**. Prior Prelabor or Intrapartum Cesarean Delivery and Risk of Placenta Previa. *American Journal of Obstetrics & Gynecology*. 2015 May;212(5):669.e1-6. (NIHMSID #653667)
21. Robledo CA, Mendola P, Yeung E, Mannisto T, Sundaram R, Liu D, Ying Q, Sherman S, Lipsky L, **Grantz KL**. Preconception and early pregnancy air pollution exposures and risk of gestational diabetes mellitus. *Environment Research*. 2015 Feb;137:316-22.
22. Hinkle SN, **Laughon SK**, Catov J, Olsen J, Bech BH. First trimester coffee and tea intake and risk of gestational diabetes mellitus: a study within a national birth cohort. In press, *BJOG: An International Journal of Obstetrics and Gynaecology*. 2015 Feb;122(3):420-8. (NIHMSID # 595510)
23. Mendola P, Mumford SL, Männistö TI, Holston A, Reddy UM, **Laughon SK**. Controlled Direct Effects of Preeclampsia on Neonatal Health After Accounting for Mediation by Preterm Birth. *Epidemiology*. 2015 Jan;26(1):17-26.
24. Männistö T, Mendola P, Liu D, Leishear K, Sherman S, **Laughon SK**. Acute air pollution exposure and blood pressure at delivery among women with and without hypertension. *American Journal of Hypertension*. 2015 Jan;28(1):58-72.
25. Boghossian N, Yeung E, Albert PS, Mendola P, Hinkle SN **Laughon SK**, Zhang C. Albert P. Risk factors differ between recurrent and incident preeclampsia: a hospital-

based cohort study. *Annals of Epidemiology*. 2014 Dec;24(12):871-7e3.

26. Ghosh G, Mendola P, Chen Z, Mannisto T, Xie Y, Grewal J, **Laughon SK**. Racial/ethnic differences in pregnancy related hypertensive disease among nulliparous women. *Ethnicity and Disease*. 2014 Summer;24(3):283-9. (PMC4171100)
27. Parikh LI, Männistö T, Mendola P, Sjaarda LA, Hinkle SN, Lu Z, Chen Z, Reddy UM, **Laughon SK**. Neonatal outcomes in early term birth. *American Journal of Obstetrics & Gynecology*. 2014;211:265.e1-11. (PMC4149822)
28. Hinkle SN, Albert PS, Mendola P, Sjaarda LA, Boghossian NS, Yeung E, **Laughon SK**. Differences in risk factors for incident and recurrent small-for-gestational-age birthweight: a hospital based cohort study. *BJOG: An International Journal of Obstetrics and Gynaecology*. 2014 Aug;121(9):1080-8. (PMC4108555) (**Article selected for an accompanying mini commentary**)
29. **Laughon SK**, Berghella V, Sundaram R, Reddy UM, Lu Z, Hoffman MK. Neonatal and maternal outcomes with prolonged second stage of labor. *Obstetrics & Gynecology*. 2014 Jul;124(1):57-67. (PMC4065200) (**Selected for a NICHD podcast series “Success rate for vaginal delivery high even after prolonged labor,” 10/4/2014;** <http://www.nichd.nih.gov/news/releases/Pages/100314-podcast-prolonged-labor.aspx>)
30. Brite J, **Laughon SK**, Troendle J, Mills J. Maternal obesity and risk of congenital heart defects in offspring. *International Journal of Obesity*. 2014 Jun;38(6):878-82. (PMC4053485)
31. Boghossian N, Yeung E, Albert PS, Mendola P, **Laughon SK**, Hinkle SN, Zhang C. Changes in diabetes status between pregnancies and newborn outcomes. *American Journal of Obstetrics & Gynecology*. 2014 May;210(5):431.e1-14. (PMC4011935)
32. **Laughon SK**, McClain A, Sundaram R, Buck Louis GM. Maternal lipid change in relation to length of gestation: a prospective cohort study with preconception enrollment of women. *Gynecologic and Obstetric Investigation*. 2014;77(1):6-13. (PMC3967245)
33. Hinkle SN, Albert P, Sjaarda LA, Mendola P, Boghossian N, Yeung E, **Laughon SK**. The association between parity and birthweight in a longitudinal consecutive pregnancy cohort. *Paediatric and Perinatal Epidemiology*. 2014 Mar;28(2):106-15. (PMC3922415)
34. Brite J, Shiroma E, Bowers K, Yeung E, **Laughon SK**, Grewal U, Zhang C. Height and risk of gestational diabetes: Does maternal race make a difference? *Diabetic Medicine*. 2014 Mar;31(3):332-40. (PMC4053485)
35. **Laughon SK**, Albert P, Leishear K, Mendola P. The NICHD Consecutive Pregnancies Study: Recurrent preterm delivery by subtype. *American Journal of Obstetrics & Gynecology* 2014 Feb;210(2):131.e1-8. (PMC3934564) (**Article selected for an accompanying editorial**)

36. Sjaarda LA, Albert PS, Mumford SL, Hinkle SN, Mendola P, **Laughon SK**. Customized large-for-gestational-age birthweight at term and the association with adverse perinatal outcomes. *American Journal of Obstetrics & Gynecology*. 2014 Jan;210(1):63.e1-63.e11. (PMC3872267)
37. Mendola P, Männistö T, Leishear K, Reddy UM, Chen Z, **Laughon SK**. Neonatal health of infants born to mothers with asthma. *Journal of Allergy and Clinical Immunology*. 2014 Jan;133(1):85-90.e4. (PMC3874245)
38. Timofeev J, Reddy UM, Huang C, Driggers RW, Landy HJ, **Laughon SK**. Obstetric complications, neonatal morbidity and indications for cesarean delivery by maternal age. *Obstetrics & Gynecology*, 2013;122(6):1184-95. (PMC4189107)
39. Bowers K, **Laughon SK**, Kim SD, Mumford SL, Brite J, Kiely M, Zhang C. The association between a medical history of depression and gestational diabetes in a large multi-ethnic cohort of the United States. *Paediatric and Perinatal Epidemiology*, 2013; 27:323–328. (PMC4123954)
40. Männistö T, Mendola P, Grewal J, Xie Y, Chen Z, **Laughon SK**. Thyroid diseases and adverse pregnancy outcomes in a contemporary US cohort. *The Journal of Clinical Endocrinology & Metabolism*, 2013; 98(7):2725-33. (PMC3701274)
41. Boyle A, Reddy UM, Landy HJ, Huang C, Driggers RW, **Laughon SK**. Primary cesarean delivery in the United States. *Obstetrics & Gynecology*, 2013; 122(1):33-40. (PMC3713634) **(Article selected for ABOG Maintenance of Certification)**
42. Männistö T, Mendola P, Reddy UM, **Laughon SK**. Neonatal outcomes and birth weight in pregnancies complicated by maternal thyroid disease. *American Journal of Epidemiology*, 2013 Sep 1;178(5):731-40. (PMC3755642)
43. Buck Louis GM, Yeung E, Sundaram R, **Laughon SK**, Zhang C. The Exposome – exciting opportunities for discoveries in reproductive and perinatal epidemiology. *Paediatric and Perinatal Epidemiology*, 2013;27(3):229-36. (PMC3625972)
44. Bowers K, **Laughon SK**, Kiely M, Brite J, Zhang C. Gestational diabetes, pre-pregnancy obesity, and pregnancy weight gain in relation to excess fetal growth: variations by race/ethnicity. *Diabetologia*, 2013; 56(6):1263-71. (PMC) **(Selected to be featured as “Up Front” in the cover page of the Diabetologia June issue, 2013)**
45. Werder E, Mendola P, Männistö T, O’Loughlin J, **Laughon SK**. Effect of maternal chronic disease on obstetric complications in twin pregnancies in a U.S. cohort. *Fertility and Sterility*, 2013;100(1):142-149.e2. (PMC3699962)
46. Mendola P, **Laughon SK**, Männistö T, Leishear K, Chen Z, Zhang J. Obstetric complications among U.S. women with asthma. *American Journal of Obstetrics &*

Gynecology, 2013; 208(2):127.e1-8. (PMC3557554)

47. Reddy UM, Zhang J, Sun L, Chen Z, Raju TNK, **Laughon SK**. Neonatal mortality by attempted route of delivery in early preterm birth. *American Journal of Obstetrics & Gynecology*, 2012; 207:117.e1-8. (PMC3408612) (**Selected for the September NICHD monthly podcast series "NICHD Research Perspectives", Vaginal delivery safe for head first births before 32 weeks (9/21/2012)**)
48. **Laughon SK**, Branch DW, Beaver J, Zhang J. Changes in labor patterns over 50 years. *American Journal of Obstetrics & Gynecology*, 2012; 206:419.e1-9. (PMC3655692) (**Selected for the May NICHD monthly podcast series "NICHD Research Perspectives", NIH study finds women spend longer in labor now than 50 years ago (4/2/2012)**).
49. **Laughon SK**, Zhang J, Grewal J, Sundaram R, Beaver J, Reddy UM. Induction of labor in contemporary obstetrical practice. *American Journal of Obstetrics & Gynecology*, 2012; 206:486.e1-9. (PMC3361637)
50. Zhang J, Branch DW, Ramirez MM, **Laughon SK**, Reddy U, Hoffman M, Bailit J, Kominiarek M, Chen Z, Hibbard JU. Oxytocin regimen for labor augmentation, labor progression and perinatal outcomes. *Obstetrics & Gynecology*. 2011; 118 (2, Part 1):249-256. (PMC3655689)
51. **Laughon SK**, Zhang J, Troendle J, Sun L, Reddy UM. Using a simplified Bishop score to predict vaginal delivery. *Obstetrics & Gynecology*, 2011; 117:805–11. (PMC3297470)
52. **Laughon SK**, Powers RW, Roberts JM, Parana S, Catov J. Caffeine and insulin resistance in pregnancy. *American Journal of Perinatology*, 2011; 28:571-78. (PMC3116064)
53. Landy HJ, **Laughon SK**, Bailit JL, Kominiarek MA, Gonzalez-Quintero VH, Ramirez M, Haberman S, Hibbard J, Wilkins I, Branch DW, Burkman RT, Gregory K, Hoffman MK, Learman LA, Hatjis C, Van Veldhuisen PC, Reddy UM, Troendle J, Sun L, Zhang J; Consortium on Safe Labor. Characteristics associated with severe perineal and cervical lacerations during vaginal delivery. *Obstetrics & Gynecology*, 2011; 117:627–35. (PMC3132187)
54. **Laughon SK**, Catov J, Powers RW, Roberts JM, Gandley RE. First trimester uric acid and adverse pregnancy outcomes. *American Journal of Hypertension*, 2011; 24(4):489-95. (PMC3062659)
55. Reddy UM, **Laughon SK**, Sun L, Troendle J, Willinger M, Zhang J. Pre-pregnancy risk factors for antepartum stillbirth in the U.S. *Obstetrics & Gynecology*, 2010; 116:1119–26. (PMC3326407)

56. **Laughon SK**, Reddy UM, Sun L, Zhang J. Precursors for late preterm birth in singleton gestations. *Obstetrics & Gynecology*, 2010; 116:1047–55. (PMC3014049)
57. Zhang J, Troendle J, Reddy UM, **Laughon SK**, Branch DW, Burkman R, Landy HJ, Hibbard JU, Haberman S, Ramirez MM, Bailit JL, Hoffman MK, Gregory KD, Gonzalez-Quintero VH, Kominiarek M, Learman LA, Hatjis CG, van Veldhuisen P; Consortium on Safe Labor. Contemporary cesarean delivery practice in the United States. *American Journal of Obstetrics & Gynecology*, 2010; 203:326.e1-10. (PMC2947574) **(Highlighted in the Medical News and Perspectives: Kuehn BM. Study Probes Increase in Cesarean Rate. JAMA (2010);304(15):1658.)**
58. **Laughon SK**, Catov J, Provins T, Roberts JM, Gandley RE. Elevated first trimester uric acid is associated with the development of gestational diabetes. *American Journal of Obstetrics & Gynecology*, 2009; 201:402.e1-5. (PMC2774120)
59. **Laughon SK**, Catov J, Roberts JM. Uric acid concentrations are associated with insulin resistance and fetal birthweight in normotensive pregnant women. *American Journal of Obstetrics & Gynecology*, 2009; 201:582.e1-6. (PMC2789906)
60. **Laughon SK**, Rebarber A, Rolnitzky L, Fink L. Decreased first-trimester maternal serum fβhCG and early preterm delivery in twin gestations. *American Journal of Perinatology*, 2009; 26(7):491-4.
61. Fox NS, **Laughon SK**, Bender SD, Saltzman DH, Rebarber A. Anti-factor Xa plasma levels in pregnant women receiving low molecular weight heparin thromboprophylaxis. *Obstetrics & Gynecology*, 2008; 112(4):884-9.
62. **Laughon SK**, Wolfe HM, Visco AG. Prior cesarean and the risk for placenta previa on second-trimester ultrasonography. *Obstetrics & Gynecology*, 2005; 105(5):962-65.
63. **Laughon SK**, Shinn LL, Nunley JR. Melanonychia and mucocutaneous hyperpigmentation due to hydroxyurea use in an HIV-infected patient. *International Journal of Dermatology*, 2000; 39(12):928-32.

Non- Refereed Manuscripts

1. **Grantz KL**. To induce or not to induce: what is the right question? *BJOG: An International Journal of Obstetrics & Gynaecology*, 2015; 122: 1294.
2. Zhang J, Troendle J, **Grantz KL**, Reddy UM. Statistical aspects of modeling the labor curve. *American Journal of Obstetrics & Gynecology*, 2015; 212:750-2.

Letters to the Editor

1. Albert PS, **Grantz KL**. Fetal growth and ethnic variation. *The Lancet Diabetes & Endocrinology*, Published Online September 23, 2014: [http://dx.doi.org/10.1016/S2213-8587\(14\)70186-X](http://dx.doi.org/10.1016/S2213-8587(14)70186-X).
2. Mendola P, **Laughon SK**, Mannisto TI. RE: "Neonatal bilirubin levels and childhood asthma in the U.S. Collaborative Perinatal Project, 1959-1965". *American Journal of Epidemiology* 2014 May 1;179(9):1149-50.
3. Zhang J, **Laughon SK**, Branch DW. Reply to letter to the Editor regarding, "Oxytocin Regimen for Labor Augmentation, Labor Progression, and Perinatal Outcomes." *Obstetrics & Gynecology*, 2012 Feb;119(2, Part 1):381-2.
4. **Laughon SK**, Zhang J, Reddy UM. Reply to letter to the Editor regarding, "Using a simplified Bishop score to predict vaginal delivery." *Obstetrics & Gynecology*, 2011; 118(2, Part 1):360.

Book Chapters

1. Thorp J, **Laughon SK**. Normal and Abnormal Labor. *Creasy & Resnik's Maternal-Fetal Medicine: Principles and Practice*. 7th Edition.

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