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## BIOGRAPHICAL SKETCH

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NAME Siega-Riz, Anna Maria	POSITION TITLE Associate Professor of Epidemiology & Nutrition		
eRA COMMONS USER NAME ANNA_MARIA_SIEGA_RIZ			
EDUCATION/TRAINING ( <i>Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.</i> )			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of North Carolina at Chapel Hill	B.S.P.H.	1982	Nutrition
University of North Carolina at Greensboro	M.S.	1983	Food, Nutrition & Food Service Management
University of North Carolina at Chapel Hill	Ph.D.	1993	Nutrition, Nutrition Epidemiology

### A. Positions and Honors

#### Positions and Employment

1983-1985 WIC Director/Davidson County Health Department, Lexington, NC  
1985-1989 Nutrition Coordinator/Prematurity Prevention Project-Harbor/UCLA, Torrance, California  
1990-1993 Graduate Research Assistant, Carolina Population Center, Department of Nutrition, University of North Carolina at Chapel Hill (UNC-CH)  
1994-1995 Postdoctoral Fellow, Carolina Population Center, (Reproductive Epidemiology), UNC-CH  
1995-1998 Research Assistant Professor, Department of Nutrition, UNC-CH  
1996- Fellow, Carolina Population Center, UNC-CH  
1998-2003 Assistant Professor, Depts of Maternal & Child Health and Nutrition, UNC-CH  
2003-2006 Associate Professor, Depts of Maternal and Child Health and Nutrition, UNC-CH  
2003- Director of the Nutrition Epidemiology Core, Clinical Nutrition Research Center, UNC-CH  
2006- Associate Professor, Departments of Epidemiology and Nutrition, UNC-CH  
2006- Division Director of Nutrition Epidemiology, Department of Nutrition, UNC-CH  
2006 Program Leader for the Reproductive, Perinatal and Pediatric Epidemiology Program, Department of Epidemiology, UNC-CH

#### Honors

2000 BIRCWH Scholar, Building Interdisciplinary Research Careers in Women's Health  
2000 Mary Egan Award, American Public Health Association, Food and Nutrition Section  
2004 The University of North Carolina Center for Women's Health Research Award for Excellence  
2007 March of Dimes Agnes Higgins Award for Maternal and Fetal Nutrition

### B. Selected peer-reviewed publications (out of 80)

1. Siega-Riz AM, Adair LS. Biological Determinants of Pregnancy Weight Gain in a Filipino Population. *American Journal of Clinical Nutrition*. 1993;57(3):365-372.
2. Siega-Riz AM, Adair LS, Hobel CJ. Institute of Medicine Maternal Weight Gain Recommendations and Pregnancy Outcome in a Predominantly Hispanic Population. *Obstetrics and Gynecology*. 1994;84(4):565-573.
3. Siega-Riz AM, Adair LS, Hobel CJ. Maternal Underweight Status and Inadequate Rate of Weight Gain during the Third Trimester of Pregnancy Increases the Risk of Preterm Delivery. *Journal of Nutrition*. 1996;126(1):146-153.
4. Siega-Riz AM, Hobel CJ. Predictors of Poor Maternal Weight Gain from Baseline Anthropometric, Psychosocial, and Demographic Information in a Hispanic Population. *Journal of the American Dietetic Association*. 1997;97:1264-1268.
5. Siega-Riz AM, Adair LS, Hobel CJ. Maternal Hematologic Changes during Pregnancy and the Effect of Iron Status on Preterm Delivery in a West Los Angeles Population. *American Journal of Perinatology*. 1998;15(9):515-522.

6. Siega-Riz AM, Popkin BM, Carson TA. Trends in Breakfast Consumption for Children in the United States from 1965 to 1991. *American Journal of Clinical Nutrition*. 1998;67:S748-756.
7. Cavadini C, Siega-Riz AM, Popkin BM. US Adolescent Food Intake Trends from 1965 to 1996. *Archives of Disease in Childhood*. 2000;83(1):18-24.
8. Siega-Riz AM, Popkin BM, Carson TA. Differences in Food Patterns at Breakfast by Sociodemographic Characteristics among a Nationally Representative Sample of Adults in the United States. *Preventive Medicine*. 2000;30(5):415-424.
9. Herrmann TS, Siega-Riz AM, Hobel CJ, Aurora C, Dunkel-Schetter C. Prolonged Periods without Food Intake during Pregnancy Increase Risk for Elevated Maternal Corticotropin-Releasing Hormone Concentrations. *American Journal of Obstetrics and Gynecology*. 2001;185(2):403-412.
10. Jahns L, Siega-Riz AM, Popkin BM. The Increasing Prevalence of Snacking among US Children from 1977 to 1996. *Journal of Pediatrics*. 2001;138(4):493-498.
11. Siega-Riz AM, Herrmann TS, Savitz DA, Thorp JM, Jr. Frequency of Eating during Pregnancy and Its Effect on Preterm Delivery. *American Journal of Epidemiology*. 2001;153(7):647-652.
12. Siega-Riz AM, Popkin BM. Dietary Trends among Low Socioeconomic Status Women of Childbearing Age in the United States from 1977 to 1996: A Comparison among Ethnic Groups. *Journal of the American Medical Women's Association*. 2001;56(2):44-48, 72.
13. Bodnar LM, Siega-Riz AM. A Diet Quality Index for Pregnancy Detects Variation in Diet and Differences by Sociodemographic Factors. *Public Health Nutrition*. 2002;5(6):801-809.
14. Evenson KR, Siega-Riz AM, Savitz DA, Leiferman JA, Thorp JM, Jr. Vigorous Leisure Activity and Pregnancy Outcome. *Epidemiology*. 2002;13(6):653-659.
15. Guendelman S, Siega-Riz AM. Infant Feeding Practices and Maternal Dietary Intake among Latino Immigrants in California. *Journal of Immigrant Health*. 2002;3:137-146.
16. Kranz S, Siega-Riz AM. Sociodemographic Determinants of Added Sugar Intake in Preschoolers 2 to 5 Years Old. *Journal of Pediatrics*. 2002;140(6):667-672.
17. Nielsen SJ, Siega-Riz AM, Popkin BM. Trends in Energy Intake in U.S. between 1977 and 1996: Similar Shifts Seen across Age Groups. *Obesity Research*. 2002;10(5):370-378.
18. Siega-Riz AM, Bodnar LM, Savitz DA. What Are Pregnant Women Eating? Nutrient and Food Group Differences by Race. *American Journal of Obstetrics and Gynecology*. 2002;186(3):480-486.
19. Dole N, Savitz DA, Hertz-Picciotto I, Siega-Riz AM, McMahon MJ, Buekens P. Maternal Stress and Preterm Birth. *American Journal of Epidemiology*. 2003;157(1):14-24.
20. Saldana TM, Siega-Riz AM, Adair LS, Savitz DA, Thorp JM, Jr. The Association between Impaired Glucose Tolerance and Birth Weight among Black and White Women in Central North Carolina. *Diabetes Care*. 2003;26(3):656-661.
21. Siega-Riz AM, Promislow JHE, Savitz DA, Thorp JM, Jr., McDonald TL. Vitamin C Intake and the Risk of Preterm Delivery. *American Journal of Obstetrics and Gynecology*. 2003;189(2):519-525.
22. Dole N, Savitz DA, Siega-Riz AM, Hertz-Picciotto I, McMahon MJ, Buekens P. Psychosocial Factors and Preterm Birth among African American and White Women in Central North Carolina. *American Journal of Public Health*. 2004;94(8):1358-1365.
23. Kranz S, Siega-Riz AM, Herring AH. Changes in Diet Quality of American Preschoolers between 1977 and 1998. *American Journal of Public Health*. 2004;94(9):1525-1530.
24. Saldana TM, Siega-Riz AM, Adair LS. Effect of Macronutrient Intake on the Development of Glucose Intolerance during Pregnancy. *American Journal of Clinical Nutrition*. 2004;79(3):479-486.
25. Siega-Riz AM, Evenson KR, Dole N. Pregnancy-Related Weight Gain--A Link to Obesity? *Nutrition Reviews*. 2004;62(7, pt. 2):S105-111.
26. Siega-Riz AM, Kranz S, Blanchette D, Haines PS, Guilkey DK, Popkin BM. The Effect of Participation in the WIC Program on Preschoolers' Diets. *Journal of Pediatrics*. 2004;144(2):229-234.
27. Siega-Riz AM, Savitz DA, Zeisel SH, Thorp JM, Jr., Herring AH. Second Trimester Folate Status and Preterm Birth. *American Journal of Obstetrics and Gynecology*. 2004;191(6):1851-1857.
28. Vahratian A, Siega-Riz AM, Savitz DA, Thorp JM, Jr. Multivitamin Use and the Risk of Preterm Birth. *American Journal of Epidemiology*. 2004;160(9):886-892.
29. Kranz S, Mitchell DC, Siega-Riz AM, Smiciklas-Wright H. Dietary Fiber Intake by American Preschoolers Is Associated with More Nutrient-Dense Diets. *Journal of the American Dietetic Association*. 2005;105(2):221-225.
30. Kranz S, Smiciklas-Wright H, Siega-Riz AM, Mitchell DC. Adverse Effect of High Added Sugar Consumption on Dietary Intake in American Preschoolers. *Journal of Pediatrics*. 2005;146(1):105-111.

31. Vahratian A, Siega-Riz AM, Savitz DA, Zhang J. Maternal Pre-Pregnancy Overweight and Obesity and the Risk of Cesarean Delivery in Nulliparous Women. *Annals of Epidemiology*. 2005;15(7):467-474.
32. Daniels JL, Savitz DA, Bradley C, Dole N, Evenson KR, Eucker B, Herring AH, Siega-Riz AM, Thorp JM, Jr. Attitudes toward Participation in a Pregnancy and Child Cohort Study. *Paediatric and Perinatal Epidemiology*. 2006;20(3):260-266.
33. Engel SAM, Olshan AF, Siega-Riz AM, Savitz DA, Chanock SJ. Polymorphisms in Folate Metabolizing Genes and Risk for Spontaneous Preterm and Small-for-Gestational Age Birth. *American Journal of Obstetrics and Gynecology*. 2006;195(5):1231.e1231-1211.
34. Kranz S, Hartman T, Siega-Riz AM, Herring AH. A Diet Quality Index for American Preschoolers Based on Current Dietary Intake Recommendations and an Indicator of Energy Balance. *Journal of the American Dietetic Association*. 2006;106(10):1594-1604.
35. Saldana TM, Siega-Riz AM, Adair LS, Suchindran CM. The Relationship between Pregnancy Weight Gain and Glucose Tolerance Status among Black and White Women in Central North Carolina. *American Journal of Obstetrics and Gynecology*. 2006;195(6):1629-1635.
36. Siega-Riz AM, Hartzema AG, Turnbull C, Thorp JM, Jr., McDonald TL, Cogswell ME. The Effects of Prophylactic Iron Given in Prenatal Supplements on Iron Status and Birth Outcomes: A Randomized Controlled Trial. *American Journal of Obstetrics and Gynecology*. 2006;194(2):512-519.
37. Siega-Riz AM, Laraia BA. The Implications of Maternal Overweight and Obesity on the Course of Pregnancy and Birth Outcomes. *Maternal and Child Health Journal*. 2006;10(Suppl. 7):S153-156.
38. Siega-Riz AM, Olshan AF, Werler MM, Moore C, the National Birth Defects Prevention S. Fat Intake and the Risk of Gastroschisis. *Birth Defects Research, Part A: Clinical and Molecular Teratology*. 2006;76(4):241-245.
39. Laraia BA, Bodnar LM, Siega-Riz AM. Pregravid Body Mass Index Is Negatively Associated with Diet Quality during Pregnancy. *Public Health Nutrition*. 2007;10(9):920-926.
40. Waller DK, Shaw GM, Rasmussen SA, Hobbs CA, Canfield MA, Siega-Riz AM, Gallaway MS, Correa A. Prepregnancy Obesity as a Risk Factor for Structural Birth Defects. *Archives of Pediatrics and Adolescent Medicine*. 2007;161(8):745-750.
41. Bidulescu A, Chambless LE, Siega-Riz AM, Zeisel SH, Heiss G. Usual choline and betaine dietary intake and incident coronary heart disease: The atherosclerosis risk in communities (ARIC) study. *BMC Cardiovascular Disorders* 2007, 7:20
42. Siega-Riz AM, Haugen M, Meltzer HM, Von Holle A, Hamer R, Torgersen L, Knopf-Berg C, Reichborn-Kjennerud T, Bulik CM. Nutrient and food group intakes of women with and without Bulimia Nervosa and Binge Eating Disorder during pregnancy. In press AJCN

## C. Research Support

### Ongoing Research Support

5 U50/CCU422096 Olshan (PI)  
CDC

09/01/02-3/31/2008

### **North Carolina Center for Birth Defects Research and Prevention**

This project conducts birth defects ascertainment in North Carolina, collaborates in a national birth defects case control study, and initiates North Carolina studies of birth defects etiology and prevention.

Role: Co-Investigator

5 R01 HD042219-04 Bentley (PI)  
NIH/NICHD

04/05/02-03/31/08

### **Infant Care, Feeding, and Risk of Obesity**

This research examines: 1) household factors that influence parenting and infant feeding patterns; 2) relationship of feeding styles to infant diet; and 3) relationship of dietary intake to infant fatness.

Role: Co-Investigator

5 R01 DK061981-04 Siega-Riz (PI)  
NIH/NIDDK

08/26/02-05/31/08

### **Pregnancy-Related Weight Gain: A Link to Obesity**

This study's long term goal is to identify modifiable behaviors for pregnant women that are associated with gaining weight above the recommended ranges and that result in high postpartum weight retention.

Role: PI

5 U01-DK61223 Harrell (PI)

03/01/02-02/23/09

NIH/NIDDK

**Physical Activity in Youth—Preventing Type 2 Diabetes: Studies to Treat or Prevent Pediatric Type 2 Diabetes (STOPP-T2D) — Working Title: Stand UP!**

The overall goal of this cooperative agreement is to test a longitudinal school-based intervention to prevent or reduce development of risk factors for type 2 diabetes and insulin resistance in middle school youth. The intervention includes changes in the school environment (physical education classes, and foods served and sold) and behavior modification. The cooperative agreement includes seven field sites throughout the United States. Role: Co-Investigator

1 R01-CA109804-01 Evenson (PI)

09/03/04-03/02/09

NIH/NCI

**Understanding Change in Physical Activity Postpartum**

The main goal is to identify physiologic, psychosocial, and environmental mediators and moderators of physical activity behavior change among postpartum women by adding on to the existing PIN Postpartum cohort. This proposal directly addresses the need to better understand multilevel factors involved in physical activity behavior change.

Role: Co-Investigator

DK56350 Zeisel (PI)

04/01/06-03/31/11

NIH/NIDDK

**Clinical Nutrition Research Center**

The Center, housed in the Schools of Public Health and Medicine, works to combine basic nutrition and studies of populations in an effort to answer questions on how the food we eat affects our bodies. The services offered by the Clinical Nutrition Research Center makes it possible for investigators, inside and outside of the discipline of nutrition, to apply cutting edge nutrition methods in their research.

Role: Director of the Nutritional Epidemiology Core

(Chamblis)

09/30/06 - 03/31/13

NIH/NHLBI

**Hispanic Community Health Study**

This contract is to serve as the Coordinating Center for a multi-center epidemiologic study in Hispanic populations to determine the role of acculturation in the prevalence and development of disease, and to identify risk factors playing a protective or harmful role in Hispanics.

Role: Co-Investigator

**Completed Research Support**

5 R01 HD39373-04 Thorp (PI)

09/01/01-08/31/06

NIH/NICHD

**Placental Vascular Compromise and Preterm Delivery**

This project will explore novel, possible antecedents of such compromise, dyslipidemia and insulin resistance, using nuclear magnetic resonance analysis of lipid subclasses and fasting insulin-glucose ratios.

Role: Co-Investigator

1 R01HD047186-01 Bulik (PI)

12/01/04-11/31/07

NIH/NICHD

**Eating Disorders during Pregnancy in 100,000 Birth**

To explore the impact of Eating Disorders, Eating Disorder-related behaviors and nutrition during the Perinatal period on pregnancy outcome in a sample of 100,000 births in Norway.

Role: Co-Investigator