CURRICULUM VITAE

Kathryn M. Rose, Ph.D.

August 2009

PERSONAL

Place of Birth: Baltimore, Maryland

Business Address: Department of Epidemiology
University of North Carolina at Chapel Hill
Bank of America Center
137 E Franklin St
Chapel Hill, North Carolina 27514
Telephone: 919-966-4596
Fax: 919-966-9800
Email: kathryn_rose@unc.edu

EDUCATION

1994 **Doctor of Philosophy**
Epidemiology
University of North Carolina at Chapel Hill
Dissertation: Women, Work, and Blood Pressure: Variations in the Employment Status-Hypertension Relationship by Age, Race, Education, and Time Period.
Advisor: Dr. Beth Newman.

1990 **Masters of Science in Public Health**
Epidemiology
University of North Carolina at Chapel Hill
Thesis: A comparison of two measures of socioeconomic status and their relationship with coronary heart disease risk factors.
Advisor: Dr. Herman A. Tyroler

1983 **Masters of Arts**
Community Clinical Psychology
University of Maryland at Baltimore County
Thesis: The effects of base-rate and incriminating evidence on judgments of guilt.
Advisor: Dr. Jonathan C. Finkelstein

1978 **Bachelor of Arts (with high honors)**
Psychology
University of Maryland at Baltimore County

PROFESSIONAL EXPERIENCE

Research Associate Professor
2008- present

Department of Epidemiology
School of Public Health
University of North Carolina at Chapel Hill
137 E. Franklin Street, Suite 306
Chapel Hill, North Carolina 27514
(919) 966-1967 (Voice)
(919) 966-9800 (Fax)

Research Assistant Professor
2001 – 2008

Department of Epidemiology
School of Public Health
University of North Carolina at Chapel Hill
137 E. Franklin Street, Suite 306
Chapel Hill, North Carolina 27514
(919) 966-1967 (Voice)
(919)-966-9800

Associate in Research
2000 – 2001

Population, Policy, and Aging Research Center
Terry Sanford Institute of Public Policy
Duke University
Box 90309 Rubenstein Hall, Rm 184
Durham, NC 27708

Consultant (Epidemiologist)
1999 - 2001

Self-employed

Research Assistant Professor
1998 – 1999

Department of Epidemiology
School of Public Health
University of North Carolina at Chapel Hill
137 E. Franklin Street, Suite 306
Chapel Hill, North Carolina 27514

Postdoctoral Fellow
1995 – 1998

Department of Epidemiology
School of Public Health
University of North Carolina at Chapel Hill
137 E. Franklin Street, Suite 306
Chapel Hill, North Carolina 27514

Epidemiologist
1995

Division of Adult Health Promotion
North Carolina Department of Environment, Health, and Natural Resources
Raleigh, NC 27699

Consultant
1993 – 1995

Department of Obstetrics and Gynecology
School of Medicine
University of North Carolina at Chapel Hill
Chapel Hill, NC 27599.

Research Assistant

Department of Maternal and Child Health

1990 – 1992 School of Public Health
University of North Carolina at Chapel Hill,
Chapel Hill, NC 27599

Research Assistant Department of Epidemiology
1987 – 1992 School of Public Health
University of North Carolina at Chapel Hill,
Chapel Hill, NC 27599

HONORS

1976 - 1978, Psi Chi National Honor Society in Psychology

1978, Phi Kappa Phi National Honor Society

1980, Graduate Psychology Trainee, Spring Grove Psychiatric Hospital Center, Baltimore, MD.

1989 - 1992, National Research Service Award in Cardiovascular Disease Epidemiology and Biostatistics, United States Public Health Service Traineeship, Department of Epidemiology, University of North Carolina at Chapel Hill.

Delta Omega, Public Health Honor Society, 1995.

Membership in Professional Societies

Society for Epidemiological Research
American Heart Association

PUBLICATIONS

***Indicates that the first author is a student or Post doctoral fellow for which I was the primary mentor.*
†Indicates that I am the senior author.

Refereed Articles

2009

50. **Rose KM**, Couper D, Eigenbrodt ML, Mosley TH, Sharrett, AR, Gottesman RF. (2009) Orthostatic Hypotension and Cognitive Function: The Atherosclerosis Risk in Communities (ARIC) Study. *Neuroepidemiol.* (In press).

*†**49. Raymond KL, **Rose KM**, Diez-Roux AV, Golden SH, McNeill AM, Heiss G. (2009) Lifecourse Socioeconomic Conditions and Metabolic Syndrome in Adults. The ARIC Study. *Annals Epid.*(In press).

† 48. **Rose KM**, Suchindran CM, Foraker RE, Whitsel EA, Rosamond WD, Heiss G, Wood JL. (2009) Neighborhood Disparities in Incident Hospitalized Myocardial Infarction in Four US Communities: The ARIC Surveillance Study. *Annals Epid .* (In press).

47. Asimos AW, Rosamond WD, Johnson AM, Price MF, **Rose KM**, Murphy CV, SIngh S, Tegeler CH, Felix. (2009) Early Diffusion Weighted MRI as a Negative Predictor for Disabling Stroke after ABCD2 Score Risk Categorization in TIA Patients.] *Stroke* Jul 23. [Epub ahead of print].

46. Franceschini N, **Rose KM**, Storti KL, MacCluer JW, Cole SJ, Voruganti S, Laston S, Göring HHH, Dryer T, Umans JG, Lee ET, Best LG, Fabsitz RR, North KE. (2009) Social- and Environmental-Specific Genetic Effects on Blood Pressure Traits: The Strong Heart Family Study. *Criculation: Cardiovascular Genetics*. (In press)

*****45. Carson AP, **Rose KM,** Catellier DJ, Diez-Roux AV, Muntaner C, Wyatt SB. (2009) Employment Status, Coronary Heart Disease, and Stroke among Women. *Annals Epid* Ann 9:630-6.

44. Asimos AW, Rosamond WD, Johnson AM, Price MF, **Rose KM**, Murphy CV, SIngh S, Tegeler CH, Felix A. (2009) A multicenter evaluation of the ABCD2 Score for Predicting Ischemic Stroke after Transient Ischemic Attack. *Archives Emergency Med* (June 29th Epub ahead of print).

43. Franceschini N, Muallem H**, Rose KM**, Boerwinkle E, Maeda N. (2009) LDL Receptor Polymorphisms and the Risk of Coronary Heart Disease: the Atherosclerosis Risk in Communities Study. *Journal of Thrombosis and Hemostatis.* 7(3):496-498.

2008

42. *†****** Chichlowska KL, **Rose KM**, Diez-Roux AV, Golden SH, McNeill AM, Heiss, G. Individual and Neighborhood Socioeconomic Status Characteristics and Prevalence of Metabolic Syndrome. The Atherosclerosis Risk in Communities (ARIC) Study. *Psychosomatic Medicine.* 2008 Sep 16. [Epub ahead of print].

41. Kan H, Heiss G, **Rose KM**, Whitsel EA, Lurmann F, London SJ. (2008) Prospective Analysis of Traffic Exposure as a Risk Factor for Incident Coronary Heart Disease: the Atherosclerosis Risk in Communities (ARIC) Study. *Envir Health Perspectives*. Nov;116(11):1463-8.

40. **Rose KM**, Rosamond WD, Huston S, Murphy CV, Tegeler, CH. (2008) Predictors of Time From Hospital Arrival to Initial Computer Tomography (CT) Among Suspected Stroke Patients: the North Carolina Collaborative Stroke Registry. *Stroke.* Nov;116(11):1463-8.

39. *†* ***** Foraker RE, **Rose KM**, McGinn AP, Suchindran CM, Rosamond WD Goff Jr. DC, Whitsel EA, Wood JL.(2008) Neighborhood Socioeconomic Status, Health Insurance, and Prehospital Delay Time for Acute Myocardial Infarction: Atherosclerosis Risk in Communities (ARIC) Surveillance. *Archives of Internal Medicine.* 168:1874-9.

38. Pollitt RA, Kaufman JS, **Rose KM**, Diez-Roux, AV, Zeng, D. Heiss G. (2008) Cumulative life-course and adult socioeconomic status and levels of inflammatory risk markers in adulthood: The Life Course Socioeconomic Status, Social Context, and Cardiovascular Disease (LC-SES) Study. J Epidemiol Community Health. 62:484-91.

37. Eigenbrodt ML, Bursac Z, Tracy RE, Mehta JL, **Rose KM**, Couper DJ. (2008) B-Mode Ultrasound Common Carotid Artery Wall Intima-Media Thickness and External Diameter: Cross-Sectional and Longitudinal Associations with Carotid Atherosclerosis in a Large Population Sample. *Cardiovascular Ultrasound*. 6:10.

†36. **Rose KM**, Perhac SJ, Bang H, Heiss G. (2008) Historical Records as a Source of Information for Childhood Socioeconomic Status in Decedents: Results from a Pilot Study. *Annals of Epidemiology.* 18:357-63.

35. Franceschini N, MacCluer JW, **Rose, KM**, Rutherford S, Cole SA, Laston A, Göring HHH, Diego V, Roman MJ, Lee ET, Best LG, Howard BV, Fabsitz RR, North KE. (2008) Genome-wide linkage of pulse pressure in American Indians: the Strong Heart Study. *American Journal of Hypertension.* 21:194-199.

34. Kan H, Stevens J, Heiss G., Klein R, **Rose KM,** London SJ. (2008) Dietary fiber, lung function and chronic obstructive pulmonary disease in the Atherosclerosis Risk in Communities Study. *American Journal of Epidemiology.*167(5):570-8.

2007

33. Kan H, Stevens J, Heiss G, **Rose KM**, London SJ. (2007) Dietary fiber intake and retinal vascular caliber in the Atherosclerosis Risk in Communities Study. *American Journal of Clinical Nutrition*. 86:1626-32.

32. Kan H, Heiss G, **Rose KM**, Whitsel EA, Lurmann F, London, SJ. (2007) Traffic exposure and lung function in adults: the Atherosclerosis Risk in Communities Study. *Thorax*. 62:873-9. Epub 2007 Apr 18.

31. Center for Disease Control and Prevention (CDC). (2007) Pre-hospital delay and time to imaging during a stroke: Paul Coverdell National Acute Stroke Registry—United States, 2005–2006. *MMWR* 56(19);474-478.

30. *†* ***** Bidulescu A, **Rose KM**, Wolf SH, Rosamond WD. (2007) Occupation Recorded on Certificates of Death Compared with Self-Report. *BMC Public Health.* 7:229.

29. **Rose KM**, Wong T Y, Carson AP, Couper D, Klein R, Sharrett AR. (2007) Migraine and retinal microvascular abnormalities: the Atherosclerosis Risk in Communities Study. *Neurology.* 68:1694-700.

28. Carson AP, **Rose KM**, Catellier DJ, Kaufman JS, Wyatt SB, Diez-Roux AV, Heiss G. (2007) Cumulative socioeconomic status across the life course and subclinical atherosclerosis. *Annals of Epidemiology* 17:296-303.

27. Eigenbrodt ML, Sukhija R, **Rose KM**,Tracy RE, Couper DJ, Evans GW, Bursac Z, Mehta JL. (2007) Common carotid artery wall thickness and external diameter as predictors of prevalent and incident cardiac events in a large population study. *Cardiovascular Ultrasound* 5:11.

26. Pollitt RA, Kaufman JS, **Rose KM**, Diez-Roux AV, Zeng D, Heiss G. (2007) Early-life and adult socioeconomic status and inflammatory risk markers in adulthood. *Eur J Epidemiology* 22:55-66.

2006

25. **Rose KM**, Eigenbrodt ML, Biga RL, Couper DJ, Light KC, Sharrett AR, Heiss G. (2006) Orthostatic hypotension predicts all cause mortality in middle-aged adults: the Atherosclerosis Risk in Communities (ARIC) Study. *Circulation* 114:630-6.

24. Franceschini N, MaCluer JW, Goring HHH, Cole SA, **Rose KM,** Almasy L, Diego V, Laston S, Lee ET, Howard BV, Best LG, Fabsitz RR, Roman MJ, North KE (2006) A quantitative trait loci-specific gene-by-sex interaction on systolic blood pressure among American Indians: the Strong Heart Family Study**.** *Hypertension* 48:266-70.

23. Eigenbrodt ML, Bursac Z, **Rose KM**, Couper DJ, Tracy RE, Evans GW, Brancati FL, Mehta JL. (2006) Common carotid arterial interadventitial distance (diameter) as an indicator of the damaging effects of age and atherosclerosis, a cross-sectional study of the Atherosclerosis Risk in Community Cohort Limited Access Data (ARICLAD), 1987-89. *Cardiovasc Ultrasound* 4:1.

2005

22. Qian Z, Liao D, Lin H, Whitsel EA, **Rose KM**, Duan Y. (2005) Lung function and long-term exposure to air pollutants in middle-aged American adults. *Archives of Environmental & Occupational Health* 60: 156-63.

21. *†* Stang PE, Carson AP, **Rose KM**, Mo JP, Ephross SA, Shahar E, Szklo M. (2005) Headache, cerebrovascular symptoms, and stroke: the Atherosclerosis Risk in Communities Study. *Neurology* 64:1573-7.

20. *****Pollitt RA, **Rose KM**, Kaufman JS. (2005) Evaluating the evidence for models of life course socioeconomic factors and cardiovascular outcomes: a systematic review*. BMC Public Health* 5:7.

19. *†******Carson ALP, **Rose KM**, Sanford CP, Ephross SA, Stang PE, Hunt KJ, Brown CA, Szklo M. (2004) Lifetime prevalence of migraine and other headaches lasting four or more hours: the Atherosclerosis Risk in Communities (ARIC) Study. *Headache* 44:20-8.

2004

18. North KE, **Rose KM**, Borecki IB, Oberman A, Hunt SC, Miller MB, Blangero J, Almasy L, Pankow JS. (2004) Evidence for a gene on chromosome 13 influencing postural systolic blood pressure change and body mass index*. Hypertension* 43:780-4.

17. **Rose KM**, North KE, Armett DK, Ellison C, Hunt S, Lewis EC, Tyroler, HA. (2004) Blood pressure and pulse responses to three stressors: associations with sociodemographic characteristics and cardiovascular risk factors. *Journal of Human Hypertension* 18:333-41.

16. Borrell, LN, Diez Roux AV, **Rose, K**, Catellier D, Clark BL. (2004) Neighbourhood characteristics and mortality in the Atherosclerosis Risk in Communities Study. *International Journal of Epidemiology* 33:398-407.

15. Tilling K, Smith GD, Chambless L, **Rose K**, Stevens J, Lawlor D, Szklo M. (2004) The relation between birth weight and intima-media thickness in middle-age: The ARIC Study. *Epidemiology* 15:557-64.

14. **Rose KM**, Carson AP, Sanford CP, Stang PE, Brown CA, Folsom AR, Szklo M. (2004) Migraine and other headaches: associations with Rose angina and coronary heart disease. *Neurology* 63:2233-9.

13. Whitsel EA, **Rose KM,** Wood JL, Henley AC, Liao D, Smith RL, Heiss G. (2004) Accuracy and repeatability of commercial geocoding. *American Journal of Epidemiology* 160:1023-9.

12. **Rose KM**, Carson, AP, Catellier D, Diez-Roux AV, Muntaner C, Tyroler HA, Wyatt S. (2004) Women's employment status and mortality: the atherosclerosis risk in communities study. *Journal of Women's Health* 13:1108-18.

11. **Rose KM**, Wood J, Knowles S, Pollitt R, Whitsel EA, Diez Roux AV, Yoon DK, Heiss G. (2004) Historical measures of social context in life course studies: retrospective linkage of addresses to decennial censuses. *International Journal of Health Geographics* 3:27.

2002

10. **Rose KM**, Holme, I, Light KC, Sharrett R, Nardo CH, Tyroler HA, Heiss G. (2002) Association between the blood pressure response to a change in posture and the 6-year incidence of hypertension: prospective findings from the ARIC study. *Journal of Human Hypertension* 16:771-7.

2000

9. **Rose KM**, Tyroler HA, Nardo CJ, Arnett D, Light KC, Rosamond W, Sharrett AR, Szklo M. (2000) Orthostatic hypotension and the incidence of coronary heart disease: the Atherosclerosis Risk in Communities Study. *American Journal of Hypertension* 13:571-8.

8. **Rose KM**, Arnett DK, Ellison C., Heiss G. (2000) Skip patterns in DINAMAP-measured blood pressure in 3 epidemiological studies. *Hypertension* 35:1032-6.

7. Pankow J, **Rose KM**, Oberman A, Hunt S, Atwood L, Djousse L, Province MA, Rao DC. (2000) Possible locus on chromosome 18q influencing postural systolic blood pressure changes. *Hypertension* 471-476.

6. Eigenbrodt M, **Rose KM**, Couper DJ, Arnett D, Smith R, Jones D. (2000) Orthostatic hypotension as a risk factor for stroke: the atherosclerosis risk in communities (ARIC) study, 1987-1996.*Stroke* 31:2307-13

1999

5. **Rose KM**, Newman B, Tyroler HA., Szklo M, Arnett D, Srivastava N. (1999) Women, employment status, and hypertension: cross-sectional and prospective findings from the Atherosclerosis Risk in Communities (ARIC) Study. *Annals of Epidemiology* 9:374-82.

4. **Rose KM**, Newman B, Bennett T, Tyroler HA. (1999) The association between extent of employment and hypertension among women participants of the Second National Health and Nutrition Survey. *Women and Health* 29:13-29.

1998

3. **Rose KM**, Newman B, Mayer-Davis EJ, Selby, JV. (1998) Genetic and behavioral determinants of waist-hip ratio and waist circumference in women twins. *Obesity Research* 6:383-92.

1997

2. **Rose KM**, Newman B, Bennett T, Tyroler HA. (1997) Employment status and high blood pressure in women: variations by time and by sociodemographic characteristics. *Annals of Epidemiology* 107-14.

1993

1. Hames CG, **Rose K**, Knowles M, Davis CE, Tyroler HA. (1993) Black-white comparisons of 20-year coronary heart disease mortality in the Evans County Heart Study. *Cardiology* 82:122-36.

Letters

3. **Rose, KM** (2008). Migraine and retinal microvascular abnormalities: The atherosclerosis risk in communities study - Reply *Neurology*.70: 579-580

2. **Rose KM**. (2005) Migraine and other headaches: Associations with Rose angina and coronary heart disease. *Neurology*. 64: 1989.

1. Tilling K, Lawlor D, Smith GD, Chambless L, Szklo M, **Rose K**. (2005) Birth Weight and Intima-Media Thickness. *Epidemiology* 16:422-423.

Selected Presentations and Published Abstracts

2009

73. O'brien E, Rosamond WD, **Rose KM**, Tong X, George M. Acute stroke care and off-hour hospital arrival. Presented at American Heart Association Conference on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke April 2009, Washington DC.

† 72. Johnson AM, **Rose KM**, Mosley TH, Heiss G. Combat stress and physical well-being and quality of life in aging men: the Atherosclerosis Risk in Communities (ARIC) Study. Presented at American Heart Association Conference on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke April 2009, Washington DC.

71. Franceschini N, **Rose KM**, Astor B, Couper D, Vupputuri S. Postural Blood Pressure Changes and Incident Chronic Kidney Disease: The Atherosclerosis Risk in Communities Study. Circulation. 2009;119:e271-e366.

70. Chichlowska KL, **Rose KM**, Howard BV, Lee ET, Best LG, Fabitz RR, Cole SA, MacCluer JW, North KE. Socioeconomic Status and the Metabolic Syndrome. The Strong Heart Study. Circulation. 2009;119:e271-e366.

69. Newton AK, Harald K, **Rose KM**, Rosamond WD, Salomaa V. Low socioeconomic status and the relative risk of sudden cardiac – a comparative analysis of the Atherosclerosis Risk in Communities (ARIC) Study and the National FINRISK study. Circulation. 2009;119:e271-e366.

68. **Rose KM**, Franceschini N, Bang H, Loehr L, Pankow J, Sharrett AR. Orthostatic Hypotension in Middle Age and the Incidence of Diabetes: The Atherosclerosis Risk in Communities (ARIC) Study. Circulation. 2009;119:e271-e366.

67. Foraker RE, **Rose KM**, Chang PP, Bertoni AG, Whitsel EA, Suchindran CM, Rosamond WD. Socioeconomic Status and Heart Failure Diagnostic Testing. Circulation. 2009;119:e271-e366.

66. O'Brien EC, Rosamond WD, **Rose KM.** Predictors of Disagreement between Presumptive and Final Hospital Diagnoses: The North Carolina Collaborative Stroke Registry. Circulation. 2009;119:e271-e366.

65. †*Patel MD, **Rose KM**, Suchindran CM, Whitsel EA, Wood JL. Incorporating Spatial Autocorrelation in Models of the Association Between Neighborhood Socioeconomic Status and Incident Hospitalized Myocardial Infarction. Circulation. 2009;119:e271-e366.

64. Gottesman RF, **Rose KM**, Couper D, Eigenbrodt, MD, Mosley TH, Sharrett AR. Orthostatic Hypotension and Cognitive Function. Circulation. 2009;119:e271-e366.

63. Gottesman RF, Coresh J, Catellier D, Sharrett AR, **Rose KM**, Coker L, Clifford J, Mosley TH. Blood Pressure and White Matter Disease Progression in a Biethnic Cohort. Stroke. Published online February 16, 2009. DOI:1161/STROKEAHA.108.000015.

62.George MG, Tong X, Rosamond WD, **Rose KM**, Yoon P. Disparities in a Stroke Quality Improvement project. Stroke. Published online February 16, 2009. DOI:1161/STROKEAHA.108.000015.

2008

61. ***Rose KM**, Patel MD, Whitsel EA, Suchindran CM, Heiss G, Ni H. Neighborhood Socioeconomic Status (SES) and one-year case fatality after myocardial infarction: The Atherosclerosis Risk in Communities Surveillance. Am J Epdemiol. 2008;167:11-S1:280.

60. †* Patel MD, **Rose KM**, Owens CR, Bang H, Kaufman JS. Evaluation of Automated Coding to Classify Occupations on Historical Records. Am J Epdemiol. 2008;167:11-S1:506S.

59. †* Foraker RE, **Rose KM**, Patel MD, Suchindran CM, WHitsel EA, Wood JL. Comparing neighborhood measures of socioeconomic status (SES) used for studying disparities in myocardial infarction (MI) incidence: Atherosclerosis Community Surveillance. Am J Epdemiol. 2008;167:11-S1:390S.

58. ***Rose KM**, Patel MD, Whitsel EA, Suchindran C, Heiss G. Neighborhood Socioeconomic Disparities and One-Year Case Fatality after Incident Myocardial Infarction; The Atherosclerosis Risk in Communities (ARIC) Community Surveillance. Circulation. 2008;117:P328.

57.†*Foraker R, **Rose KM**, Rosamond WD, Whitsel EA, Schindran C, Wood J. Neighborhood Socioeconomic Status and Treatment of Myocardial Infarction: Atherosclerosis Risk in Communities Study. Circulation. 2008;117:P318.

56. Roberts CB, Heiss G, **Rose KM**, Taylor H. Cumulative socioeconomic position from early childhood to mid-adulthood and incident hospitalized heart failure in Blacks and Whites: The ARIC Study. Circulation. 2008;117:P284.

55. Asimos AW, Rosamond WD, **Rose KM**, Howard AG, Murphy CV, Coleman SW. MRI Use in TIA Patients: Variations by Joint Commission Stroke Center Certification Status and Implications for a Revised Tissue-Based Definition of TIA. STROKE Volume: 39 Issue: 2 Page: 584.

54. Franceschini N, Muallem H, **Rose KM**, Wojczynski MK, Canos D, Boerwinkle E, Volcik KA, Wilhelmsen KC, Maeda N, North KE. LDL Receptor Haplotypes and Coronary Heart Disease in African American participants of the Atherosclerosis Risk in Communities Study. Circulation. 2008;117:P209.

53. *†**Raymond KL, **Rose KM**, Diez-Roux AV, Golden SH, McNeill AM, Heiss G. Lifecourse Socioeconomic Conditions and Metabolic Syndrome in Adults. The ARIC Study . Circulation. 2008;117:P81.

2007

52*. †**Raymond KL, **Rose KM**, Golden SH, McNeill AM, Heiss GH. (2007) Individual and Neighborhood Socioeconomic Status Characteristics and Prevalence of Metabolic Syndrome. The ARIC Study. *Circulation* 115 (8): E226.

51. Franceschini N, Muallem H, Wojczynski MK, **Rose KM**, Boerwinkle E, Volcik KA, Wilhelmsen KC, Maeda N, Li X, North KE. (2007) The Effect of LDL Receptor Diplotypes and their Interaction with Apoloproteon E Polymorphisms on Carotid Artery Wall Thickness: The Atherosclerosis Risk In Communities Study. *Circulation* 115 (8): E298.

50. **Rose KM**, Rosamond WD, Huston S, Murphy CV, Tegeler CH. (2007) Predictors of Time to Initial Brain Imaging among Patients in the North Carolina Collaborative Stroke Registry. *Circulation* 115 (8): E260.

49. **Rose KM**, Suchindran CM, Li KP, Wood JL, Foraker RE, Whitsel EA, Rosamond WD, Heiss G. (2007) Variation in Rates of Incident Myocardial Infarction by Neighborhood Socioeconomic Characteristics: The Atherosclerosis Risk in Communities (ARIC) Surveillance. *Circulation* 115 (8): E291.

48. *†**Foraker RE, **Rose, KM**, McGinn AP, Suchindran CM, Rosamond WD, Goff DC, Whitsel EA, Wood JL. (2007) Neighborhood Socioeconomic Status, Health Insurance, and Prehospital Delay Time for Acute Myocardial Infarction: Atherosclerosis Risk in Communities (ARIC) Surveillance. *Circulation* 115 (8): E292.

47. Roberts CB, Heiss G, Catellier D, **Rose KM**, Rosamond WD. (2007) The Association between Mortality Following Initial Hospitalization for Heart Failure and SES in Whites and Blacks: The ARIC Study. *Circulation* 115 (8): E289.

46. Rosamond WD, **Rose KM**, Murphy C, Huston S, Asimos A, Felix A, Goldstein L. (2007) Primary Stroke Center Certification: Does It Make a Difference? *Stroke* 238: 515.

2006

45. Franceschini N, Cole SA, **Rose KM**, Rutherford S, Goring HHH, Diego V, Laston S, MacCluer JW, Lee ET, Best L, Howard BV, Fabsitz RR, Roman MJ, North KE. Genetic Determinants of Pulse Pressure In American Indians: The Strong Heart Study. Presented at the 15th Annual Meeting of the International Genetic Epidemiology Society, Tampa Bay, FL, November, 2006.

44. **Rose KM**, Foraker RE, Heiss G, Li KP, Rosamond W, Suchindran C, Wood J. (2006) Neighborhood socioeconomic status and rates in the use of invasive procedures: The ARIC community surveillance. *Circulation* 113 (8): E310.

43. **Rose KM**, Rosamond WD, Johnson AM. (2006) Overall and sociodemographic patterns in the receipt of care among acute TIA and ischemic stroke patients: The North Carolina Collaborative Stroke Registry. *Circulation* 113 (8): E313.

42. Franceschini N, MacCluer JW, Goring HH, Cole SA, **Rose KM,** Almasy L, Diego V et al. (2006) QTL-specific genotype-by-sex interaction on systolic blood pressure variation in American Indians: The Strong Heart family Study. *Circulation* 113 (8): E321.

41. Johnson AM, **Rose KM**, Chambless LE, et al. (2006) Association between exposure to combat stress and predicted risk of coronary heart disease in aging men: The Life Course SES Study. *Circulation* 113 (8): E339.

40. Carson AP, **Rose KM**, Kaufman JS, et al. (2006) Life course socioeconomic status and subclinical atherosclerosis: The ARIC study. *Circulation* 113 (8): E359.

39. Pollitt RA, **Rose KM**, Wood J, Heiss G. (2006) Life-course socioeconomic status, elevated fibrinogen levels in adulthood, and mediating variables. *Circulation* 113 (8): E369.

38. Rosamond WD**, Rose K,** Johnson A, et al. (2006) Reasons some stroke patients do not receive acute therapies: Initial findings from the Paul Coverdell National Acute Stroke Registry of North Carolina. *Circulation* 113 (8): E302.

37. Sukhija R, Eigenbrodt ML, **Rose, KM**, Couper DJ, Mehta JL. (2006) Common carotid artery diameter predicts coronary heart disease in middle-aged men and women: The Atherosclerosis Risk in Communities (ARIC) Limited Access Data, 1987-1999. *Circulation* 114 (Suppl): 825.

2005

36. *†*Carson AP, **Rose KM**, Catellier D, Diez-Roux A, Muntaner C, Wyatt SB. (2005) Employment status and risk of ischemic stroke among women. *Circulation* 111(4): E41.

35. *†*Bidulescu A, **Rose KM**, Wolf SH, Rosamond WD. (2005) Occupation recorded on certificates of death compared with self-report. *Circulation* 111 (14): 248.

34. Carson AP, **Rose KM**, Kaufman JS, Catellier D, Diez-Roux AV, Wyatt SB, Heiss G. (2005) Life Course Socioeconomic Status and Peripheral Arterial Disease. *Circulation* 111 (14): 203.

33. Johnson A, **Rose KM**, Williams JE, Sims M, Heiss G. (2005) Association between exposure to combat stress and behavioral and physical risk factors in aging men: the Life Course SES (LC-SES) Study. *Circulation* 111 (14): 221.

32. Pollitt RA, Beck J, Offenbacher S, **Rose KM**, Sorlie P, Heiss G. (2005) Adult and cumulative life-course socioeconomic status and inflammatory burden. *Circulation* 111 (14): 235.

31. **Rose KM**, Wong TY, Carson AP, Couper D, Klein R, Sharrett RA. (2005) Retinal vascular disease and migraine and other headaches: The ARIC Study. *Circulation* 111 (14): 191.

30. Duncan BB, Pellanda L, **Rose KM**, Folsom AR, Coresh G. (2005) Low birth weight and markers of inflammation and endothelial activation in adults - the ARIC study. *Diabetologia* 48: A138: 367 Suppl.

2004

29. Whitsel EA, **Rose KM,** Wood JL, Henley AC, Liao D, Smith RL, Heiss G. (2004) Accuracy and repeatability of commercial geocoding in the Life Course Socioeconomic Status, Social Context and Cardiovascular Disease Study. *Circulation* 109 (7): E25.

28. **Rose KM**, Tilling R, Folsom AR, Coresh J. (2004) Evaluation of self-reported birth weight in older adults. *Circulation* 109 (7): E57.

27. *Pollitt RA **Rose KM**, Knowles S, Wood J, Diez-Roux A, Heiss G. (2004) Retrospective ascertainment of early life SES: experiences from the Life Course SES, Social Context, and Cardiovascular Disease Study. *Circulation* 109: E47.

2003

26. North KE, **Rose KM,** Wilk JB, et al. (2003) Bivariate genome-wide linkage analysis of supine resting diastolic blood pressure and heart rate: The HyperGEN study. *Hypertension* 42(3): P203.

25. **Rose KM**, North KE, Arnett DK, Ellison C, Hunt S, Lewis EC, Tyroler, HA.. (2003) Differences in estimates of systolic blood pressure response to three stressors. *Hypertension* 42 (3): P43.

24. North KE, Borecki IB, **Rose KM**, Miller MB, Hunt SC, Oberman A, Pankow J. (2003) Evidence for a gene influencing postural systolic blood pressure change and body mass index on chromosome 13. *Circulation* 107 (7) 3.

23. Borrell LN, Diez-Roux A, **Rose KM**, Catellier D. (2003) Neighborhood characteristics and mortality in the ARIC study. *Circulation* 107 (7) 11.

22. **Rose KM**, Perry AL, Brown A, Folsom AR, Sanford CP, Paul E Stang PE, Szklo M. (2003) Migraine and other headaches with and without aura and coronary heart disease: Findings from the ARIC study. *Circulation* 107 (7) 12.

21. **Rose KM**, Eigenbrodt M, Biga R, Arnett DK, Couper D, Light KC, Sharrett AR, Heiss G. (2003) Orthostatic hypotension predicts all cause mortality in middle-aged adults: The ARIC Study. *Circulation* 107 (7) 5.

20. †*Perry AL, **Rose KM**, Catellier D, Diez-Roux A, Muntaner C, Tyroler HA, Wyatt SB. (2003) Women's employment status and risk of coronary heart disease. *Circulation* 107 (7) 13.

19. **Rose KM**, Perhac JS. (2003) Using Historical Records to Reconstruct Early Life Socioeconomic Status: Preliminary Findings from a Pilot Study. *American Journal of Epidemiology* 157:205.

2002

18. **Rose KM,** Perry A, Mo JP, Ephross SA, Stang PE, Shahar E. (2002) The association of migraine and other headaches with ischemic strokes in the Atherosclerosis Risk in Communities Studies. *Circulation* 105 (14):32.

17. **Rose KM**, Perry, AL, Catellier D, Diez-Roux A, Muntaner C, Tyroler HA, Wyatt S. (2002) Black and white women's employment status and mortality. *Annals of Epidemiology* 12:511-512.

2001

16. **Rose, KM**, Holme I, Light KC, Sharrett AR, Tyroler HA, Heiss G. (2001) The association between orthostatic hypotension and the six-year incidence of hypertension: The ARIC Study. *Circulation* 103(9):1348.

2000

15. **Rose KM**, Arnett DK, Ellison RC, Heiss G. (2000) Skip patterns in DINAMAP measured blood pressure in three epidemiologic studies. *Circulation* 101:P50.

14. Pankow J, **Rose KM**, Oberman A, Hunt SC, Atwood LA, Djousse L, Province MA, Rao DC. (2000) Possible locus on chromosome 18q influencing the systolic blood pressure response to a postural challenge. *Circulation* 101:P46.

13. Eigenbrodt M, **Rose KM**, Arnett D, Brown A, Hutchinson R, Jones D. Orthostatic hypotension and incident stroke, the ARIC Study, 1987-96. Presented at the National Heart, Lung, and Blood Institute Cardiovascular Epidemiology/Biostatistics and Behavioral Medicine Trainee Session of the American Heart Association's 40th Annual Meeting on Epidemiology and Prevention, La Jolla, CA, March, 2000.

12. Pankow J, **Rose KM**, Oberman A, Hunt SC, Atwood LD, Djousse L, Province MA, Rao DC, Heiss G. Genome-Wide scan for the heart rate response to a postural challenge in the HyperGEN Network: the NHLBI Family Blood Pressure Program. Presented at Genetics of Experimental and Human Hypertension Symposium, Toledo, OH, August, 2000.

1999

11. **Rose KM**, Tyroler HA, Ephross SA, Light KC, Arnett D, Sharrett AR, Szklo M. (1999) Variations in the blood pressure response to postural change by menopausal status and hormone replacement therapy use. *Circulation* 99 (8):P14.

1998

10. **Rose KM**, Paton KC, Folsom A, Stang P, Szklo M, Wijnberg L. (1998) The association between migraine headaches and angina in the Atherosclerosis Risk in Communities Study. *Circulation* 97:828.

9. **Rose KM**, Tyroler HA, Nardo C, Rosamond W, Light KC, Arnett D, Sharrett AR, Szklo M. (1998) Prevalence and cardiovascular disease-related correlates of orthostatic hypotension in middle-age: The Atherosclerosis Risk in Communities Study. *American Journal of Hypertension* 11:21-A.

8. †Paton CC, Hunt KJ, **Rose KM**, Ephross SA, Brown CA, Stang PE, Szklo M. (1998) Demographic and medical care profiles of migraineurs in the ARIC study. *American Journal of Epidemiology* 147:S13.

1997

7. **Rose KM**, Nardo C, Tyroler HA, Rosamond W, Light KC, Arnett D, Sharrett AR, Szklo M. (1997) Postural change in blood pressure and incident coronary heart disease in the Atherosclerosis Risk in Communities Study. *The Canadian Journal of Cardiology* 13 (Supplement B:86B).

1996

6. **Rose, KM**, Newman B, Tyroler HA, Arnett DK, Srivastava N, Szklo M. (1996) A comparison of employment status-hypertension associations based on prevalence and incidence data. *American Journal of Epidemiology* 143:S68.

1995

5. **Rose KM**, Newman B, Bennett T, Tyroler HA. (1995) The changing employment status-hypertension relationship in women. *American Journal of Epidemiology* 141:S18.

1994

4. **Rose KM**, Newman B, Mayer EJ, Selby JV. Behavioral correlates of body fat distribution in women twins. (1994) Women, Behavior, and Cardiovascular Disease: Proceedings of a National Heart, Lung, and Blood Institute Conference. U.S. Department of Health and Human Services, NIH Publication No. 94-3309:389.

3. **Rose KM**, Newman B, Bennett T. Studying employment and health in women: Issues to consider. Presented at the American Psychological Association's Conference on Psychosocial and Behavioral Factors in Women's Health. Washington DC, May 1994.

1992

2. **Rose KM**, Newman B, Mayer EJ, Selby, JV. Behavioral correlates of body fat distribution in women twins. Presented at the National Heart, Lung, and Blood Institute Cardiovascular Epidemiology/Biostatistics and Behavioral Medicine Trainee Session of the Annual Meeting of the American Heart Association's Council on Epidemiology and Prevention, Memphis, TN, March 1992.

1991

1. **Rose, KM**, White AD, Tyroler HA, Hames CG. A comparison of two measures of socioeconomic status and their relationship with coronary heart disease risk factors. Presented at the National Heart, Lung, and Blood Institute Cardiovascular Epidemiology/Biostatistics and Behavioral Medicine Trainee Session of the American Heart Association's Annual Meeting on Epidemiology and Prevention, Orlando, FL, March, 1991.

TEACHING ACTIVITIES

Student Mentoring

Master's Paper: Advisor

Carrie Comer (Title: Linking Symptoms in the Female Reproductive Life Cycle: The Association between Premenstrual Symptoms and Menopausal Vasomotor Symptoms), Graduation date: August 2007.

Master's Paper: Second Reader

Emily O'brien

Academic Advisor

Kristal Raymond (Doctoral Student)

Member of Dissertation Committee

Anjum Hajat (Title: Is relative deprivation associated with cardiovascular disease risk factor and mortality? A longitudinal approach), In progress.

Randi Foraker (Title: Socioeconomic Factors and Hospitalized Heart Failure), In progress.

Anna Marie Johnson (Title: Combat Stress and Cardiovascular Disease in Middle-Aged Men, Graduated May 2008)

April P. Carson (Title: Individual and Neighborhood Life Course Socioeconomic Status and Subclinical Atherosclerosis), Graduated December, 2005

Ricardo Pollitt (Title: Cumulative SES across the Life Course and Markers of Inflammation in Adulthood), Graduated December, 2005

Other

Classroom Teaching

University of North Carolina at Chapel Hill:

Guest Lecturer Spring 2008	Social Epidemiology: Concepts and Measures Contributed lectures on the measurement of socioeconomic status and on life course methodology.
Instructor 2004 – 2006	Clinical Epidemiology (Department of Social Medicine), 12 - 15 students per session
Guest Lecturer 2001- 2006	Cardiovascular Disease Epidemiology Department of Epidemiology
Guest Lecturer 2002, 2008	Advanced Cardiovascular Disease Epidemiology Department of Epidemiology Responsible for a module on the neighborhood social context and cardiovascular disease.
Guest Lecturer 2002	Women and Health Department of Maternal and Child Health
Instructor 1992 -1994	Introduction to SAS and Data Management Department of Epidemiology Approximately 35 students
Teaching Assistant 1988 – 1989	Introduction to Epidemiologic Methods Advanced Epidemiologic Methods Department of Epidemiology

Other Universities:

Instructor 2008	Social Epidemiology Advanced Level Epidemiology Program University of Heidelberg Summer School 2008 Designed and taught a week long summer course in social epidemiology.
Guest Lecturer 2003	Cardiovascular Disease Epidemiology Department of Epidemiology and Biostatistics University of South Carolina at Columbia
Instructor 1997, 2001	Introduction to Research Methods Physician Assistant Program Duke University, Durham, NC

GRANT SUPPORT

Ongoing:

1R01HL089651-01 (North K, PI)
NHLBI: 2008 – 2011
TOTAL DIRECT COSTS: $1,296,300
Comprehensive Mapping of a Blood Pressure QTL on Chromosome 17
This proposal aims to identify gene variants in chromosome 17 associated with blood pressure variation and susceptibility to hypertension, by following-up persuasive linkage findings of blood pressure in American Indians in the Strong Heart Family Study.
Role: Co-Investigator

NCCHS – NCHHS 01602-08 (Rosamond WD, PI)
2007 – 2011
Annual Direct Costs: $ 265,100
North Carolina Collaborative Stroke Registry
This project will continue to operate the established NC stroke registry with a goal of continuing to monitoring and improving the delivery of care for stroke patients
Role: Co-Investigator

NIHLBI - 1R01HL081627-01A2 (Rose KM, PI)
2007 – 2010
Total Costs: $960,666
Recall and Survivor Bias: Impact on SES-CVD Associations.
The objective of this study is to assess the role of recall and survivorship bias in studies of life course SES and cardiovascular outcomes.
Role: Principal Investigator

NHLBI - 1R21HL080422-01A2 (Rose KM, PI)
2006 – 2009
Total Costs: $214,170
Combat Stress and Cardiovascular Risk among Aging Men
The objective of this study is to examine the association of exposure to military combat in young adulthood and cardiovascular disease in mid to late adulthood.
Role: Principal Investigator.

NHLBI - 1 R01HL080287-01 (Rose KM, PI),
2005 – 2010
Total Costs: $1,231,378
Effects of Neighborhood SES on CHD Burden in Communities
The objective of this study is to examine the impact of the neighborhood socioeconomic context on the incidence, treatment and survival of myocardial infarction
Role: Principal Investigator

NHLBI - 01-HC-55018 (Heiss G, PI)
2001-2012
Annual Direct Costs: $464,106
Atherosclerosis Risk in Communities: Field Center and Ultrasound Reading Center
The objectives of this study are to examine the determinants and population-correlates of non-invasively ascertained atherosclerosis, and its clinical manifestations in a cohort of middle-aged men and women; drawn as a random sample from four United States communities.
Role: Investigator

Completed:

NHLBI - 3R01 Hl080287-10S (Rose, KM, PI)
2005-2008
Total Costs: $131,400
Research Supplement to Promote Diversity in Health Related Research
This grant supplies funding to a minority PhD student who is conducting research on the topic of SES and the metabolic syndrome.
Role: Principal Investigator

NCCHS - NCHHS 01602-05 (Rosamond WD, PI)
2004 – 2007, Annual Direct Costs: $524,761
North Carolina Collaborative Stroke Registry
This project established a stroke registry in hospitals across the state of NC with a goal of monitoring and improving the delivery of care for stroke patients
Role: Co-Investigator

NHLBI - R01HL080287-01 (Heiss G, PI)
2001 – 2006, Annual Direct Costs: $273,068
Life Course SES, Social Context and Cardiovascular Disease.
The objectives of this study are to identify and quantify explanatory mechanisms for the association of historical and contemporary socio-economic status with cardiovascular disease.
Role: Co-Investigator

Research Triangle International (Rose KM, PI)
2002-2003, Total Direct Costs: $234,573
Design of the Cardiovascular Assessment Component of the National Vietnam Veterans
The objectives of this study are to study the health effects of combat exposure and post traumatic stress Disorder in Vietnam vets.
Role: Principal Investigator

Subcontract with University of Arkansas - NHLBI 1R21HL076833-01 (Rose KM, PI)
2004 – 2005, Total Direct Costs: ~ $10,000
Improving Vascular Measures of Cardiovascular Disease.
The objective of this study is to examine the influence of vascular measures on the prediction of cardiovascular disease.
Role: Principal Investigator of Subcontract

Program on Demography and Economics of Aging and the Life Course, Institute of Aging University of North Carolina at Chapel Hill - NIA P30 AG024376 - (Rose KM, PI)

2002 – 2003, Total Direct Costs: $15,600
The objective of this study was to assess the feasibility of using historical records as a source of early life SES.
Role: Principal Investigator

PROFESSIONAL SERVICE

Community/National/International

Grant Review

National Institute of Health / Center for Scientific Review / Case Study Section. Ad hoc reviewer for Challenge Grants, Summer, 2009.

Town of Carrboro Human Services Advisory Board 2002-2005.

Working Groups

Member of Stroke Performance Measure Consensus Group of the Disease-Specific Care Stroke Measure Harmonization Project. June 2006 – present.

Invited Speaker / Presenter

Rose KM, Rosamond WD, Johnson AM. Overall and sociodemographic patterns in the receipt of care among acute TIA and ischemic stroke patients: The North Carolina Collaborative Stroke Registry. Invited poster presentation at the 2006 Tri-State Stroke Data Summit Strategic Planning Meeting, Chapel Hill, NC, May 2006.

Rose KM. Orthostatic Hypotension: Prevalence, Correlates and Association with Coronary Heart Disease and Stroke. Gemeinsames Symposium der Deutschen Gesellschaft für Klinische Pharmakologie und Therapie (VIII. Symposium), Berlin, Germany, October 2002.

Rose KM, Eigenbrodt M. Orthostatic hypotension and its association with CVD-related outcomes. 2nd Virtual Congress of Cardiology: International Congress of Cardiology on the Internet. Fall, 2001.

Rose KM. Diabetes-related mortality in North Carolina, 1980-1993. North Carolina Diabetes Task Force, Spring, 1995.

Rose KM. Women, work, and blood pressure: Variations in the employment status-hypertension relationship by time, and by sociodemographic factors. National Institute of Occupational Safety and Health, Cincinnati, OH, May 1995.

Journal Editorial Services

Member, General Editorial Board, International Journal of Environmental Research and Public Health, 2009-present.

Guest Editor, International Journal of Environmental Research and Public Health, Special Issue on Cardiovascular Diseases and Public Health, 2009

Invited Manuscript Review – Peer Reviewed Journals

American Journal of Cardiology
American Journal of Epidemiology
American Journal of Hypertension
American Journal of Kidney Disease
American Journal of Managed Care
American Journal of Preventive Medicine
Archives of Internal Medicine
BMC Public Health
Canadian Medical Journal Association
Epidemiology
Expert Review of Cardiovascular Therapy
European Journal of Cardiovascular Prevention and Rehabilitation
Headache
Health Psychology
International Journal of Environmental Research and Public Health
International Journal of Epidemiology
International Journal of Health Geographics
International Journal of Obesity
Journal of American College of Cardiology
Journal of Applied Gerontology
Journal of Clinical Women's Health
Journal of Human Hypertension
The Journal of the Royal College of Physicians of Edinburgh
Nature Clinical Practice Cardiovascular Medicine
Neurology
Preventing Chronic Disease
Stroke
Value in Health

Invited Manuscript Review – Other

Atherosclerosis Risk in Communities Publication Committee

Invited Abstract Reviews

Abstract Reviewer, Annual Meeting of the Society for Epidemiologic Research, 2007-2009.

Abstract Reviewer, Annual Meeting of the American Heart Association's Council on Epidemiology and Prevention, 2003 and 2008.

Departmental Service

Participated in substantive doctoral qualifying examinations. Most recently provided questions and graded exams for both the cardiovascular disease and social epidemiology program areas (Fall 2008).

Participating faculty member, NHLBI CVD Training Grant

See Student Mentoring and Classroom Teaching subsections under the Teaching Activities section.

University Service

Affiliated faculty, National Institute of Aging funded program on Demography and Economics of Aging and the Life Course (DEAR), Institute of Aging. 2002 - present.

Primary faculty research preceptor for Joseph Anthony, an undergraduate participating in the Summer Pre-Graduate Research Experience (SPGRE) program. Summer 2005.