
BIOGRAPHICAL SKETCH

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NAME Nicole L. Nollen, Ph.D.	POSITION TITLE Associate Professor		
eRA COMMONS USER NAME NNOLLEN			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	MM/YY	FIELD OF STUDY
Iowa State University, Ames, IA	B.S.	05/1995	Psychology
Ball State University, Muncie, IL	M.A.	05/1997	Clinical Psychology
University of Missouri at Kansas City, KC MO	Ph.D.	12/2002	Counseling Psychology

A. Personal Statement

My research interests focus on behavior changes – both at the individual and the systems level – that relate to smoking and obesity among underserved and high risk groups. Within the area of smoking, the long-term goal of my research is to reduce disparities in tobacco-related morbidity and mortality for African American smokers. To this end, I have conducted studies that have evaluated promising behavioral and pharmacotherapy treatments, psychosocial and biological mechanisms, and identified individuals for whom treatments are most effective that have been critical to advancing tobacco use treatment for African American smokers and attenuating tobacco-related health disparities. Within the area of obesity, the long-term goal of my research is to reduce the incidence of overweight and obesity among high risk, ethnic minority children. To this end, I have conducted studies that have examined a lifestyle modification program delivered to low income African American adolescents via handheld computer and worked to improve the quality of foods available in the school and after-school environment. This innovative line of research combines efforts to address adolescent obesity from a behavioral and environmental/policy perspective and is critical to effectively slowing the trajectory of adolescent obesity.

B. Positions and Honors

Positions and Employment

2001 – 2002 Doctoral Psychology Intern, Student Counseling Services,
Iowa State University, Ames, IA

2002 – 2003 Postdoctoral Fellow, Department of Preventive Medicine and Public Health
University of Kansas Medical Center, Kansas City, KS

2003 – 2004 Research Instructor, Department of Preventive Medicine and Public Health
University of Kansas Medical Center, Kansas City, KS

2004 – 2005 Research Assistant Professor, Department of Preventive Medicine and Public Health
University of Kansas Medical Center, Kansas City, KS

2005 – 2012 Assistant Professor, Department of Preventive Medicine and Public Health
University of Kansas Medical Center, Kansas City, KS

2012 – present Associate Professor, Department of Preventive Medicine and Public Health
University of Kansas Medical Center, Kansas City, KS

Honors and Awards

2002 - 2005 National Institutes of Health (NIH) Health Disparities Research Loan Repayment Program
Fellow

2002 - 2005 National Institutes of Health (NIH) K30 Research Fellow

2003 Faculty Travel Award, University of Kansas Medical Center

2005 Cancer, Culture, and Literacy Fellow, University of South Florida, H. Lee Moffitt Cancer
Center and Research Institute (NCI CA 90654)

2006	Kansas Public Health Foundation Excellence in Teaching Award.
2006	Early Career/New Investigator of the Year Award, Society of Behavioral Medicine.
2006	Fellow, NIH Summer Institute for the Design and Conduct of Clinical Trials.
2006	Nollen, NL, Mayo, MS, Sanderson Cox, L., Okuyemi, KS, Choi, WS, Kaur, H, & Ahluwalia, JS (March, 2006). Predictors of quitting among African American light smokers enrolled in a randomized trial. Selected as a Citation Abstract at the 27th Annual Meeting of the Society of Behavioral Medicine.

C. Selected peer-reviewed publications (in chronological order)

1. Hines D, **Nollen NL**, Fretz AC. (1996 Autumn). One-year follow up of college student occasional smokers. *Tob Control*, 5(3):231. PMID: PMC1759522
2. Hines D, Fretz AC, **Nollen NL**. (1998 Dec). Regular and occasional smoking by college students: personality attributions of smokers and nonsmokers. *Psychol Rep*, 83(3 Pt2):1299-1306.
3. Heiland MF, Goggin K, Kessler K, Brammer SK, **Nollen NL**, Murray T, Schmidt CK. (2002). Changes in meaning and identity for HIV+ gay men in the wake of combination therapies. *Journal of Psychology and Human Sexuality*, 14 (1):55-79.
4. **Nollen NL**, Goggin K, Heiland M, Catley D, Brammer S, Schmidt C, Murray T. (2002). The future of AIDS: the impact of combination therapy on the health behaviors of HIV+ gay men. *AIDS & Behavior*, 6:31-139.
5. Kennedy SK, **Nollen NL**, Goggin K. (2004). Adherence to HIV medications: utility of the theory of self-determination. *Cognitive Therapy and Research*, 28 (5):611-628.
6. **Nollen NL**, Adewale S, Okuyemi KS, Ahluwalia JS, Parakoyi A. (2004 Jun). Workplace tobacco policies and smoking cessation practices of physicians. *J Natl Med Assoc*, 96(6):838-842. PMID: PMC2568351
7. **Nollen NL**, Catley D, Davies G, Hall M, Ahluwalia JS. (2005 Jul). Religiosity, social support, and smoking cessation among urban African American smokers. *Addict Behav*, 30(6):1225-29. Epub 2004 Nov.
8. Holsen LM, Zarcone JR, Thompson TI, Brooks WM, Anderson MF, Ahluwalia JS, **Nollen NL**, Savage CR. (2005 Sep). Neural mechanisms underlying food motivation in children and adolescents. *Neuroimage*, 27(3):669-676. PMID: PMC1535274
9. Greiner KA, Born W, **Nollen NL**, Ahluwalia JS. (2005 Nov). Knowledge and perceptions of colorectal cancer screening among urban African Americans. *J Gen Intern Med*, 20(11):977-983. PMID: PMC1490251
10. Befort C, Kaur H, **Nollen N**, Sullivan DK, Nazir N, Choi WS, Hornberger L, Ahluwalia JS. (2006 Mar). Fruit, vegetable, and fat intake among non-Hispanic black and non-Hispanic white adolescents: associations with home availability and food consumption settings. *J Am Diet Assoc*, 106(3):367-373.
11. Okuyemi KS, Powell JN, Savage CR, Hall SB, **Nollen N**, Holsen LM, McClernon FJ, Ahluwalia JS. (2006 Mar). Enhanced cue-elicited brain activation in African American compared with Caucasian smokers: an fMRI study. *Addict Biol*, 11(1):97-106.
12. **Nollen NL**, Kaur S, Pulvers K, Choi W, Fitzgibbon M, Li C, Nazir N, Ahluwalia JS. (2006). Correlates of ideal body size among Black and White adolescents. *Journal of Youth and Adolescence*, 35(2):276-284.
13. Okuyemi KS, Caldwell AR, Thomas JL, Born W, Richter KP, **Nollen N**, Braunstein K, Ahluwalia JS. (2006 Apr). Homelessness and smoking cessation: insights from focus groups. *Nicotine Tob Res*, 8(2):287-296.
14. Ahluwalia JS, Okuyemi K, **Nollen N**, Choi WS, Kaur H, Pulvers K, Mayo MS. (2006 Jun). The effects of nicotine gum and counseling among African American light smokers: a 2x2 factorial design. *Addiction*, 101(6):883-891.
15. **Nollen NL**, Mayo MS, Sanderson Cox L, Okuyemi KS, Choi WS, Kaur H, Ahluwalia JS. (2006 Jun). Predictors of quitting among African American light smokers enrolled in a randomized, placebo-controlled trial. *J Gen Intern Med*, 21(6):590-595. PMID: PMC1924642

16. Holsen LM, Zarccone JR, Brooks WM, Butler MG, Thompson TI, Ahluwalia JS, **Nollen NL**, Savage CR. (2006 Jun). Neural mechanisms underlying hyperphagia in Prader-Willi Syndrome. *Obesity (Silver Spring)*, 14(6):1028-1037. PMID: PMC1535344
17. Okuyemi KS, **Nollen NL**, Ahluwalia JS. (2006 Jul). Interventions to facilitate smoking cessation. *Am Fam Physician*, 74(2):262-271.
18. Befort CA, Greiner KA, Hall S, Pulvers KM, **Nollen NL**, Charbonneau A, Kaur H, Ahluwalia JS. (2006 Oct). Weight-related perceptions among patients and physicians: how well do physicians judge patients' motivation to lose weight? *J Gen Intern Med*, 21(10):1086-1090. PMID: PMC1831634
19. Okuyemi KS, Thomas JL, Hall S, **Nollen NL**, Richter KP, Jeffries SK, Caldwell AR, Ahluwalia JS. (2006 Oct). Smoking cessation in homeless populations: a pilot clinical trial. *Nicotine Tob Res*, 8(5):689-99.
20. Ely AC, Greiner KA, Born W, Hall S, Rhode PC, James AS, **Nollen N**, Ahluwalia JS. (2006 Fall). Concordance of patient-physician obesity diagnosis and treatment beliefs in rural practice settings. *J Rural Health*, 22(4):364-366.
21. Okuyemi KS, Cox LS, **Nollen NL**, Snow TM, Kaur H, Choi W, Nazir N, Mayo MS, Ahluwalia JS. (2007 Jan-Feb). Baseline characteristics and recruitment strategies in a randomized clinical trial of African American light smokers. *Am J Health Promot*, 21(3):183-191.
22. Okuyemi KS, James AS, Mayo MS, **Nollen N**, Catley D, Choi WS, Ahluwalia JS. (2007 Feb). Pathways to health: a cluster randomized trial of nicotine gum and motivational interviewing for smoking cessation in low- income housing. *Health Educ Behav*, 34(1):43-54. Epub 2006 Jun 15.
23. Li C, Goran MI, Kaur H, **Nollen N**, Ahluwalia JS. (2007 Mar). Developmental trajectories of overweight during childhood: role of early life factors. *Obesity (Silver Spring)*, 15(3):760-771.
24. Ahluwalia JS, **Nollen N**, Kaur H, James AS, Mayo MS, Resnicow K. (2007 Mar). Pathway to health: cluster-randomized trial to increase fruit and vegetable consumption among smokers in public housing. *Health Psychol*, 26(2):214-221.
25. **Nollen NL**, Befort CA, Snow P, Daley CM, Ellerbeck EF, Ahluwalia JS. (2007 May). The school food environment and adolescent obesity: qualitative insights from high school principals and food service personnel. *Int J Behav Nutr Phys Act*, 4:18. PMID: PMC1892033
26. **Nollen N**, Ahluwalia JS, Mayo MS, Richter K, Choi WS, Okuyemi KS, Resnicow K. (2007 Dec). A randomized trial of targeted educational materials for smoking cessation in African Americans using transdermal nicotine. *Health Educ Behav*, 34(6):911-927.
27. Banitt AA, Kaur H, Pulvers KM, **Nollen NL**, Ireland M, Fitzgibbon ML. (2008 May) BMI percentiles and body image discrepancy in black and white adolescents. *Obesity (Silver Spring)*, 16(5):987-91.
28. **Nollen N**, Befort C, Pulvers K, Kaur H, James A, Mayo M, Hou Q, Ahluwalia J. (2008 May). Demographic and psychosocial factors associated with increased fruit and vegetable consumption among smokers in public housing enrolled in a randomized trial. *Health Psychol*, 27(3 suppl), S252-259.
29. Befort CA, **Nollen N**, Ellerbeck EF, Sullivan DK, Thomas JL, Ahluwalia JS. (2008 Oct). Motivational interviewing fails to improve outcomes of a behavioral weight loss program for obese African American women: a pilot randomized trial. *J Behav Med*, 31(5):367-77. Epub 2008 Jun. Not NIH Funded.
30. Pulvers KM, Kaur H, **Nollen NL**, Greiner KA, Befort CA, Hall S, Born W, Fitzgibbon ML, Ahluwalia JS. (2008 Oct) Comparison of body perceptions between obese primary care patients and physicians: implications for practice. *Patient Educ Couns*, 73(1):73-81. Not NIH funded
31. Befort C, Lynch R, James RL, Carroll SL, **Nollen N**, Davis A. (2008 Nov). Perceived barriers and benefits to research participation among school administrators. *J Sch Health*, 78(11), 581-586.
32. Berg C, Choi WS, Kaur H, **Nollen N**, Ahluwalia JS. (2009 Feb). The roles of parenting, church attendance, and depression in adolescent smoking. *J Community Health*; 34(1):56-63.
33. **Nollen NL**, Befort C, McGrath Davis AM, Snow T, Mahnken J, Hou Q, Story M, Ahluwalia JS. (2009 May) Competitive foods in schools: availability and purchasing in predominately rural small and large high schools. *Journal of the American Dietetic Association*. 109(5):857-64. Not NIH Funded.
34. Daley CM, Cowan P, **Nollen NL**, Greiner KA, Choi WS. (2009 Jul) Assessing the scientific accuracy, readability, and cultural appropriateness of a culturally targeted smoking cessation program for American Indians. *Health Promot Pract*, 10(3):386-93. Epub 2008 Mar. PMID: PMC Journal – In Process
35. Ho MK, Faseru B, Choi WS, **Nollen NL**, Mayo MS, Thomas JL, Okuyemi KS, Ahluwalia JS, Benowitz NL, Tyndale RF. (2009 Dec) Utility and relationships of biomarkers of smoking in African-American

- light smokers. *Cancer Epidemiol Biomarkers Prev*, 18(12):3426-34. PMID: PMC2791893
36. Cox LS, Faseru B, Mayo MS, Krebill R, Snow TS, Bronars CA, **Nollen NL**, Choi WS, Okuyemi KS, Salzman GA, Benowitz NL, Tyndale RF, Ahluwalia JS. (2011) Design, baseline characteristics, and retention of African American light smokers into a randomized trial involving biological data. *Trials*. 12:22. PMID: PMC3038942
 37. **Nollen NL**, Kimminau KS, Nazir N. (2011 Jun). Demographic and financial characteristics of school districts with low and high á la carte sales in rural Kansas public schools. *Journal of the American Dietetic Association*. 111(6):879-83. Not NIH Funded
 38. Davis AM, Bennett KJ, Befort C, **Nollen N**. (2011 Jul). Obesity and related health behaviors among urban and rural children in the United States: Data from the National Health and Nutrition Examination Survey 2003-2004 and 2005-2006. *Journal of Pediatric Psychology*. 36(6):669-76. Epub 2011 Jan 11. PMID: PMC3131698.
 39. **Nollen N**, Cox LS, Nazir N, Ellerbeck EF, Owen A, Pankey S, Thompson N, Ahluwalia JS. (2011 Sep). A pilot clinical trial of varenicline for smoking cessation in Black smokers. *Nicotine & Tobacco Research*. 13(9):868-73. Epub 2011 Apr 15. PMID: PMC320339
 40. Thompson N, **Nollen NL**, Nazir N, Cox LS, Faseru B, Goggin K, Ahluwalia JS. (2011 Sep) Unannounced telephone pill counts for assessing varenicline adherence in a pilot clinical trial. *Patient Preference and Adherence*. 5:475-482. Epub 2011 Sep 28. PMID: PMC3191924
 41. Faseru B, Choi WS, Krebill R, Mayo MS, **Nollen NL**, Okuyemi KS, Ahluwalia JS, Cox LS. (2011 Dec) Factors associated with smoking menthol cigarettes among treatment-seeking African American light smokers. *Addictive Behaviors*. 36(12):1321-4. Epub 2011 Jul 22. PMID: PMC3179803
 42. Berg CJ, Ling PM, Hayes RB, Berg E, **Nollen N**, Nehl E, Choi WS, Ahluwalia JS. (2012 Feb) Smoking frequency among current college student smokers: distinguishing characteristics and factors related to readiness to quit smoking. *Health Education Research*, Feb;27(1):141-50. Epub 2011 Dec 7. Not NIH funded.
 43. Cox LS, **Nollen NL**, Mayo MS, Choi WS, Faseru B, Benowitz NL, Tyndale RF, Okuyemi KS, Ahluwalia JS. (2012 Feb) Bupropion for smoking cessation in African American light smokers: A randomized controlled trial. *Journal of National Cancer Institute*, 104(4):290-8. Epub 2012 Jan 25. PMID: PMC3283533
 44. Buchanan TS, Berg CJ, Cox LS, Nazir N, Benowitz NL, Yu L, Yturalde O, Jacob P 3rd, Choi WS, Ahluwalia JS, **Nollen NL**. (2012) Adherence to varenicline among African American smokers: An exploratory analysis comparing plasma concentration, pill count, and self-report. *Nicotine & Tobacco Research*. Sep;14(9):1083-91. Epub 2012 Feb 24. PMID: PMC3432278
 45. **Nollen NL**, Hutcheson T, Carlson S, Rapoff M, Goggin K, Mayfield C, Ellerbeck E. (2012) Development and functionality of a handheld computer program to improve fruit and vegetable intake among low-income youth. *Health Educ Res*. 2012 Sep 4. (Epub ahead of print). PMID: PMC3594927
 46. Buchanan TS, Sanderson Cox L, Thomas JL, **Nollen NL**, Berg CJ, Mayo MS, Ahluwalia JS. Perceived treatment assignment and smoking cessation in a clinical trial of bupropion versus placebo. *Nicotine & Tobacco Research*. 2013 Feb;15(2):567-71. Epub 2012 Sep 4. PMID: PMC3611997
 47. Faseru B, **Nollen NL**, Mayo MS, Krebill R, Choi WS, Benowitz NL, Tyndale RF, Okuyemi KS, Ahluwalia JS, Cox LS. Predictors of cessation in African American light smokers enrolled in a bupropion clinical trial. *Addictive Behaviors*. 2013 Mar;38(3):1796-1803. doi: 10.1016/j.addbeh.2012.11.010 Epub 2012 Nov 29. PMID: PMC3558614
 48. Zhu AZ, Cox LS, **Nollen N**, Faseru B, Okuyemi KS, Ahluwalia JS, Benowitz NL, Tyndale RF. CYP2B6 and bupropion's smoking-cessation pharmacology: the role of hydroxybupropion. *Clin Pharmacol Ther*. 2012 Dec;92(6):771-7. doi: 10.1038/clpt.2012.186. Epub 2012 Nov 14. PMID: PMC3729209
 49. **Nollen NL**, Mayo MS, Ahluwalia JS, Tyndale RF, Benowitz NL, Faseru B, Buchanan TS, Cox LS. Factors associated with discontinuation of bupropion and counseling among African American light smokers in a randomized clinical trial. *Ann Behav Med*. 2013 Jun 4. doi: 10.1007/s12160-013-9510-x (Epub ahead of print) PMID: PMC Journal – in Process

D. Research Support

Ongoing Research Support

R01 DA031815 Nollen (PI) 05/01/12 – 04/30/17
NIH

Understanding Disparities in Quitting in African American and White Smokers

The major goals of this study are to examine varenicline for smoking cessation among AA and White smokers and to examine how smoking, psychosocial, treatment process, and biological factors explain the relationship between race/ethnicity and cotinine-verified 7-day abstinence at month 6 in AA and White smokers.

K23 HL090496 Nollen (PI) 08/01/09 – 07/31/14
NIH/NHLBI

Impacting Diet and Sedentary Behaviors in Adolescents using Handheld Computers

The major goals of this study are to test the feasibility (i.e., reach, retention) and acceptability (i.e., adoption, implementation, maintenance) of a 3 month intervention delivered to adolescents via handheld computer and explore 3 and 6 month changes in body mass index, fruit and vegetable consumption, TV/screen time, and sugar-sweetened beverages.

R01 HL098909 Collins (PI) 05/01/10 – 04/30/15
NIH/NHLBI

Promoting Walking in African Americans with Peripheral Arterial Disease

The overall objective of this application is to determine the efficacy of our PACE protocol, enhanced by adding motivational interviewing and culturally sensitive print material, to improve lower limb function in African Americans with peripheral arterial disease.

Role: Co-Investigator

No Number Nollen (PI) 02/15/13 – 02/14/14

Frontiers and KUMC Research Institute Clinical Pilot Program

Exercise as an Adjunct to Smoking Cessation Treatment for African American Women

The objective of this project is to develop and pilot a moderate intensity exercise program (150 min/week) that obtains high rates of exercise adherence and facilitates quitting when delivered as an adjunct to our standard 7 week smoking cessation intervention (bupropion and behavioral counseling) for AA women.

No Number Martin (PI) 02/15/13 – 02/14/14

Frontiers and KUMC Research Institute Clinical Pilot Program

The Impact of Exercise on Brain Responses to Smoking Cues

The objective of this project is to identify brain responses associated with smoking reward among light smokers and assess the impact of acute exercise on brain responses to smoking cues in light smokers.

Role: Co-Investigator

Completed Research Support

R01 CA091912 Cox (PI) 09/05/06 – 07/31/13
NIH/NCI

Enhancing Smoking Cessation Treatment for African American Light Smokers

The purpose of this study is to evaluate the efficacy of sustained release bupropion in combination with HE counseling for smoking cessation among African American light smokers. We will also evaluate psychosocial and biological (metabolism phenotype, & genotype) mechanisms related to drug use and treatment outcomes.

Role: Co-Investigator

No number Nollen (PI) 10/15/08 - 11/30/10

Pfizer Global Pharmaceuticals

Improving Smoking Cessation Treatment Outcomes for African American Smokers

The primary aim of this study is to examine if ongoing side effect management and adherence support improves adherence to Chantix and smoking cessation among African American smokers compared to African American smokers receiving Chantix but no side effect management and adherence support.

No number Nollen (PI) 10/15/08 - 11/30/10

Kansas Cancer Institute

Improving Smoking Cessation Treatment Outcomes for African American Smokers

This award is to support the Pfizer study to examine if ongoing side effect management and adherence support improves adherence to Chantix and smoking cessation among African American smokers compared to African American smokers receiving Chantix but no side effect management and adherence support.

No number Davis (PI) 12/17/07 - 12/16/10

Health Care Foundation of Greater Kansas City

Healthy Hawks Pediatric Obesity Program

This three year award will examine if the addition of an intensive parent health component to a comprehensive pediatric obesity program (Healthy Hawks Plus) will improve weight loss of the target child compared to a standard pediatric obesity program (Healthy Hawks).

Role: Co-investigator

Healthy Eating Research Nollen (PI) 09/01/08 - 02/28/10

RWJF

The Financial Impact of A La Carte Foods in Kansas Public Schools

This project will we examine how factors such as lower costs, higher meal prices, higher lunch participation, or use of supplementary funds are leveraged to effectively limit the availability of a la carte in Kansas Public Schools and provide evidence-based recommendations to schools, districts, and state policy makers that could alleviate the financial strain of food service programs relying on a la carte.

No number Nollen (PI) 01/01/09 - 12/31/09

Kansas Masonic Cancer Research Institute

Improving Medication Compliance & Smoking Cessation Treatment Outcomes for African American Smokers

The primary aim of this study is to examine if ongoing side effect management and adherence support improves adherence to Chantix and smoking cessation among African American smokers compared to African American smokers receiving Chantix but no side effect management and adherence support.

K12 HD052027 Nollen (PI) 09/01/05 - 12/31/09

NIH/ORWH

Enhancing Fruit and Vegetable Intake in Adolescent Girls through a Handheld Computer

The primary aim of this pilot intervention is to examine the feasibility and acceptability of a technology delivered, obesity prevention intervention targeting increasing fruit and vegetable intake among adolescent girls.

RSGT-06-260-01-CPPB Choi (PI) 09/01/06 - 07/30/09

American Cancer Society

Targeted Smoking Cessation Program for Native Americans

The objective of this project is to pilot test a culturally targeted smoking cessation program for Native American adult smokers and to evaluate the acceptability and feasibility of the intervention components.

Role: Consultant

No number Befort (PI) 01/01/06 - 12/31/08

American Cancer Society

Bridging the Gap in Cancer Disparities among Obese African American Women

This pilot trial will examine the benefit of individual counseling using Motivational Interviewing for improving adherence to a group-based weight loss intervention and increasing weight loss behaviors among obese African American women.

Role: Co-Investigator

RO1 CA091912

Ahluwalia (PI)

09/01/01 - 08/30/06

National Cancer Institute - *Helping African American Light Smokers Quit*

A double-blind, placebo-controlled, 2 x 2 factorial design randomized trial to evaluate the efficacy of nicotine replacement therapy and Motivational Interview counseling for smoking cessation in light smokers.

Role: Co-Investigator

RO1 CA85930

Ahluwalia (PI)

04/10/00 - 03/31/05

National Cancer Institute - *Health Behaviors of Smokers in Public Housing Developments*

Evaluate the effectiveness of nicotine gum alongside Motivational Interviewing counseling to assist African American smokers quit smoking, and to increase fruit and vegetable consumption in the comparison arm.

Role: Co-Investigator