

# **Kimberly R. Glenn, PhD, MPH**

## EDUCATION

### **Vanderbilt University, Institute of Medicine and Public Health**, Nashville, TN (2014)

Doctor of Philosophy, Epidemiology

Division of Epidemiology

***Dissertation Research:*** The Role of Physical Activity and Sedentary Time in the Occurrence of Major Cardiovascular Events among a Low-Income Population with Diabetes: Insights from the Southern Community Cohort Study

Chairs: William Blot, Ph.D. and Loren Lipworth, Sc.D., Southern Community Cohort Study

### **Georgia State University, Institute of Public Health**, Atlanta, GA (2007)

Master of Public Health

Prevention Sciences with a concentration in Epidemiology

***Master's Thesis:*** Demographics Associated with Condom Use in 18-24 Year Olds in Two States, 1998 and 2000/2001

Chair: Ike S. Okosun, Ph.D., M.S.

### **James Madison University**, Harrisonburg, VA (2005)

Bachelor of Science

Health Sciences with a concentration in Pre-Health Studies

## RESEARCH INTERESTS

Physical activity and exercise research

Maternal and child health

Chronic and Infectious disease intersectionality

Health disparities

## PROFESSIONAL EXPERIENCE

### **Adjunct Assistant Professor**

Master of Public Health Program

Department of Health Policy

Vanderbilt University School of Medicine

Nashville, TN

June 2016 - present

- Lecturer for the Environmental Health and Public Health Surveillance courses
- Lecturer in Health Policy detailing the impact of data collection errors on public health

### **Director, HIV/STD Surveillance and Epidemiology**

HIV/STD/Viral Hepatitis, Communicable and Environmental Disease and Emergency Preparedness

November 2016 – present

- Oversaw the Electronic Laboratory Reporting (ELR) importation process to receive and enter HIV laboratory results into eHARS
- Developed the research and surveillance priorities for the HIV/STD Surveillance program
- Communicated and taught surveillance protocol to regional staff and local laypersons
- Supervised surveillance staff associated with Ryan White, Core Surveillance and the National HIV Behavioral Surveillance programs
- Forged relationships with community partners to present relevant data in a salient manner

### **Director, Office of Healthcare Statistics**

Policy, Planning and Assessment Division

Tennessee Department of Health

Nashville, TN

January 2014 – November 2016

- Lead data collection, processing, and analysis efforts for the Hospital Discharge Data System, Ambulatory Surgical Treatment Centers, Outpatient Diagnostic Centers, Injury

Surveillance System, Tennessee Traumatic Brain Injury Registry, Vital Statistics Data Systems, Tennessee Birth Defects Registry, and the Tennessee Occupational Health and Safety Surveillance System

- Supervised the daily duties and work products of 16 employees including epidemiologists, statistical research specialists, statistical analysts and supervisors, statistical programmers, and statisticians
- Prepared and presented relevant data on the Department priority areas to the Executive Leadership Team including the Commissioner of Health
- Co-founded the Statistical Team Reviewing Investigation, Knowledge, and Evidence (STRIKE) initiative in the Division to educate and assist those internal to the Department about data and statistical processes
- Lead the planning and implementation of the 2016 Evidence Based Public Health Training for 11 counties and metropolitan health department staff
- Organized a team around making evidence-based public health practice a part of the culture of the Tennessee Department of Health
- Constructed the Tennessee Departments of Health and Education Physical Activity Toolkit ("Active Learner") in both paper and website format
- Created a qualitative and quantitative research proposal to examine the threshold for academic achievement and growth in relation to physical activity during school
- Founded the Division's Senior Epidemiology meetings to allow epidemiologists to discuss pressing issues and present work products
- Instituted a collaborative partnership between East Tennessee State University and TDH to create three epidemiology modules for online, asynchronous delivery to graduate public health students
- Analyzed measured data for childhood body mass index under an agreement with the Tennessee Department of Education's Coordinated School Health section
- Proposed and implemented changes in the data request process that resulted in a comprehensive online data request system with an accompanying archiving and tracking system
- Created and managed a questionnaire regarding nutrition, obesity and physical activity for the administration to college freshmen on the campuses of Tennessee's five historically black colleges and universities
- Created graphical presentations for pregnancy smoking data, prescription drug overdose and marijuana use
- Spearheaded an initiative to return vital personal identifiers to the Tennessee Hospital Discharge Data System which resulted in the improvement of the entire data system and the matching algorithms associated with it
- Developed and taught several small-group courses on statistical methods and interpretation for TDH employees who sought additional training

### **Statistical Genetics Analyst I (Data Manager)**

Center for Human Genetic Research  
Vanderbilt University Medical Center  
Nashville, TN

May 2009 – August 2010

- Performed statistical analyses for the Epidemiologic Architecture of Genes Linked to Environment (EAGLE) project, the Age-Related Macular Degeneration projects, and the Autism Research projects
- Requisitioned data and organized related statistics from the Centers for Disease Control and Prevention, National Center for Health Statistics, Research Data Center
- Assisted collaborators in establishing study design and statistical methodology for various

- projects relating to population genetics
- Generated quality control statistics on the genotyping data received from the genetics laboratory

### **Council of State and Territorial Epidemiologists (CSTE)/CDC Applied Epidemiology Fellow**

Communicable and Environmental Disease Services  
Tennessee Department of Health (TDH)  
Nashville, TN  
August 2007 – May 2009

- Designed and conducted a survival analysis to determine the median re-infection time for index non-viral STD cases and the risk behaviors associated with re-infection
- Created the methodology for de-duplicating three years of Tennessee's STD data using a series of iterations for three flat files from the relational database of STD\*MIS
- Evaluated Tennessee's Emerging Infection Program active surveillance system
- Determined the proportion of excess risk of invasive MRSA which could be explained by higher rates of diabetes and dialysis in Blacks
- Conducted analysis to determine factors associated with death from invasive Methicillin-resistant *Staphylococcus aureus* (MRSA) infections
- Assessed the usefulness of the Tennessee Hospital Discharge Dataset for the identification of MRSA bloodstream infections
- Investigated a cluster of *Salmonella* Mississippi infections in Shelby County, TN
- Summarized Tennessee's invasive MRSA data from the National Electronic Disease Surveillance System (NEDSS) in reports presented to the Tennessee legislature
- Created a Tennessee-specific MRSA information toolkit for use by the public
- Coordinated and planned the 2008 Convocation of Southern State Epidemiologists meeting in Nashville, TN (December 15-17, 2008)
- Participated in the initial response to the novel influenza A (H1N1) virus at TDH

### **Infectious Disease Intern**

Council of State and Territorial Epidemiologists (CSTE)  
Atlanta, GA  
September 2006 – July 2007

- Analyzed data for projects such as the Epidemiologic Capacity Assessment (ECA) and the NEDSS and Legacy Variable Comparison Survey using SAS
- Created state-specific reports for the 2006 ECA and distributed those reports to each state epidemiologist
- Assisted in the planning of the Avian Influenza Rapid Response Training meetings, the State Health Environmental Indicators Collaborative meeting, and the Council to Improve Food-borne Outbreak Response (CIFOR) meeting

### **Graduate Research Assistant**

Georgia State University, Institute of Public Health  
Atlanta, GA

*Partnership for Urban Health Research (PUHR) – August 2006 – August 2007*

- Recruited volunteers for participation in neighborhood walkability assessments for the purpose of informing neighborhood planning
- Established the PUHR biannual newsletter for distribution to the faculty and staff involved in urban health research

*Accountable Communities: Healthy Together (AHT) – January 2006 – July 2006*

- Organized a community health fair for over 400 residents of Neighborhood Planning Unit V

- Assisted with the operation and organization of the Photovoice workshops where residents expressed viewpoints about the condition of their neighborhoods through photography
- Managed data collected from the Photovoice exercises using an Microsoft Access database
- Trained lay health specialists over the two sessions per week for three weeks

*Policy Leadership for Active Youth (PLAY) - August 2005 – December 2005*

- Coordinated and conducted mass mailings of the quarterly report to over 1,200 recipients
- Prepared policy briefs regarding legislation on physical activity and healthy living for children and adolescents

## PUBLICATIONS

**Glenn KR**, Miller A, Brown J, Ingram K, Spears AB. *Ten-Year Trends, Socio-demographic and Maternal Characteristics Associated with Smoking during Pregnancy among Tennessee Women*. Public Health Reports (in press).

**Glenn KR** and Paisley, L. *Trends in overweight/obesity prevalence among children may mislead public health efforts*. Journal of Public Health Management and Practice. 2016. J Public Health Manag Pract. 2016 Jul-Aug;22(4):430.

**Glenn KR**, Masters PR, Quinn MA. *Alignment of Epidemiology Practice and Academic Competencies through Effective Collaboration*. Front Public Health. 2016 Apr 25;4:68.

**Glenn KR**, Slaughter JC, Fowke JH, Buchowski MS, Matthews CE, Signorello LB, Blot WJ, Lipworth, L. *Physical activity, sedentary behavior and all-cause mortality among blacks and whites with diabetes*. Annals of Epidemiology. 2015 September; 25(9):649-55

Zhang L, Spencer KL, Voruganti VS, Jorgensen NW, Fornage M, Best LG, Brown-Gentry KD, Cole SA, Crawford DC, Deelman E, Franceschini N, Gaffo AL, **Glenn KR**, Heiss G, Jenny NS, Kottgen A, Li Q, Liu K, Matise TC, North KE, Umans JG, Kao WH. *Association of functional polymorphism rs2231142 (Q141K) in ABCG2 gene with serum uric acid and gout in 4 US populations: the PAGE Study*. American Journal of Epidemiology. 2013 May 1; 177(9):923-32.

Fesinmeyer MD, North KE, Ritchie MD, Lim U, Franceschini N, Wilkens LR, Gros MD, Bůžková P, **Glenn K**, Quibrera PM, Fernández-Rhodes L, Li Q, Fowke JH, Li R, Carlson CS, Prentice RL, Kuller LH, Manson JE, Matise TC, Cole SA, Chen CT, Howard BV, Kolonel LN, Henderson BE, Monroe KR, Crawford DC, Hindorff LA, Buyske S, Haiman CA, Le Marchand L, Peters U. *Genetic risk factors for BMI and obesity in an ethnically diverse population: results from the Population Architecture Using Genomics and Epidemiology (PAGE) Study*. Obesity (Silver Spring). 2013 April; 21(4): 835-46.

Spencer KL, **Glenn K**, Brown-Gentry K, Haines JL, Crawford DC. *Population differences in genetic risk for age-related macular degeneration and implications for genetic testing*. Archives of Ophthalmology. 2012 Jan; 130(1): 116-7.

Dumitrescu L, Brown-Gentry K, Goodloe R, **Glenn K**, Yang W, Kornegay N, Pui CH, Relling MV, Crawford DC. *Evidence of age as a modifier of genetic associations for lipid levels*. Annals of Human Genetics. 2011 Sept; 75(5):589-97.

Hung AM, Ikizler T, Griffin MR, **Glenn, K**, Greevy RA, Grijalva CG, Siew ED, Crawford DC. *CRP Polymorphisms and Chronic Kidney Disease in the Third National Health and Nutrition Examination Survey*. BMC Medical Genetics. 2011 May 11; 12(65).

Dumitrescu L, **Glenn K**, Brown-Gentry K, Shephard C, Wong M, Rieder MJ, Smith JD, Nickerson

DA, Crawford, DC. *Variation in LPA Is Associated with Lp(a) Levels in Three Populations from the Third National Health and Nutrition Examination Survey*. PLoS ONE. 2011 Jan 28; 6(1):e16604

## PRESENTATIONS

Fesinmeyer MD, North KE, Ritchie MD, Franceschini N, Buzkova P, Lim U, Quibrera M, Gross M, **Glenn K**, Buyske S, Kooperberg C, Carlson CS, Li R, Haiman CA, Wilkens LR, Le Marchand L, Prentice RL, Kuller LH, Manson J, Chen C, Peters U. *Population diversity and GWAS-based genetic variants for BMI: The PAGE Study*. Obesity Society Annual Scientific Meeting, Orlando, Florida, October 1-5, 2011

Fesinmeyer MD, North KE, Ritchie MD, Franceschini N, Buzkova P, Lim U, Quebrera M, Gross M, **Glenn K**, Buyske S, Kooperberg C, Carlson CS, Li R, Haiman CA, Wilkens LR, Le Marchand L, Prentice RL, Kuller LH, Manson J, Chen C, Peters U. *Population diversity and GWAS-based genetic variants for BMI: The PAGE study*. The Obesity Society, San Diego, CA, October 8-12, 2010.

**Glenn, KR**, Kainer, MA. *Higher Rates of Diabetes and Dialysis among Blacks are Major Factors Contributing to Racial Disparity in Rates of Invasive MRSA*. Tennessee Regional Epidemiologists Meeting, Nashville, TN, October 16, 2008

**Glenn, KR**, Kainer, MA. *Higher Rates of Diabetes and Dialysis among Blacks are Major Factors Contributing to Racial Disparity in Rates of Invasive MRSA*. Council of State and Territorial Epidemiologists 2008 Conference, Denver, CO, June 10, 2008

Kainer, MA, **Glenn, KR**. *Evaluation of Sensitivity of Hospital Discharge Database to Detect Methicillin-Resistant Staphylococcus aureus Bloodstream Infections -Tennessee 2005*. The Society for Healthcare Epidemiology of America Conference, Orlando, FL, April 6, 2008

Kainer, MA, **Glenn, KR**. *Higher Rates of Diabetes and Dialysis among Blacks are Major Factors Contributing to Racial Disparity in Rates of Invasive MRSA*. The Society for Healthcare Epidemiology of America Conference, Orlando, FL, April 6, 2008

## INVITED TALKS/LECTURES

**Glenn, KR**. *Climate Change: The Impact on Minorities and Vulnerable Populations in Tennessee*. Vanderbilt University, Public Health Policy, November 11, 2016

**Glenn, KR**. *Climate Change: The Impact on Minorities and Vulnerable Populations in Tennessee*. Vanderbilt University, Public Health Policy, January 25, 2016

**Glenn, KR**. *Climate Change: The Impact on Minorities and Vulnerable Populations in Tennessee*. Vanderbilt University, Medicine, Health and Society, November 3, 2015

**Glenn, KR**. *Community Health Assessments: How Data Impacts Action*. University of Memphis, Public Health, February 3, 2015

**Glenn, KR**. *Community Health Assessments: How Data Impacts Action*. East Tennessee State University, Public Health, January 29, 2015

**Glenn, KR**. *Epidemiology and Quantitative Research Methods: A Brief Introduction*. Vanderbilt University, Medicine, Health and Society, September 22, 2014

## ABSTRACTS/POSTER PRESENTATIONS

**Glenn KR**, Spears AB, Miller A, Brown J, Ingram K, Li Y, Ferranti LB. *Ten-Year Trends, Socio-demographic and Maternal Characteristics Associated with Smoking during Pregnancy among Tennessee Women*. National Center for Health Statistics Annual Conference, Bethesda, Maryland, August 22-23, 2015

**Glenn KR**, Slaughter JC, Fowke JH, Buchowski MS, Matthews CE, Signorello LB, Blot WJ, Lipworth, L. *Physical activity, sedentary behavior and cardiovascular disease-related mortality among blacks and whites with diabetes: insights from the Southern Community Cohort Study*. American Diabetes Association's 74<sup>th</sup> Scientific Sessions, San Francisco, California, June 13-17, 2014

**Glenn KR**, Slaughter JC, Fowke JH, Buchowski MS, Matthews CE, Signorello LB, Blot WJ, Lipworth, L. *Physical activity, sedentary behavior and all-cause mortality among blacks and whites with diabetes*. American Health Association's Fellows Research Day, Pittsburgh, PA, February 14, 2014

Zhang L, Spencer KL, Voruganti S, Jorgensen N, Fornage M, Best L, Brown-Gentry KD, Cole S, Crawford DC, Franceschini N, Gaffo A, **Glenn KR**, Heiss G, Jenny NS, Kottgen A, Li Q, Liu K, North KE, Umans JG, Kao WHL. *Characterization of the associations between rs2231142 (Q141K) in ABCG2 and serum uric acid and gout in four U.S. Populations: the PAGE Study*. International Congress of Human Genetics, Montreal, Canada, October 11-15, 2011

North KE, Fesinmeyer MD, Ritchie MD, Franceschini N, Buzkova P, Lim U, Quibrera M, Gross M, **Glenn K**, Buyske S, Kooperberg C, Carlson CS, Li R, Haiman CA, Wilkens LR, Le Marchand L, Prentice RL, Kuller LH, Hindorff L, Manson J, Chen C, Peters U. *Population diversity and GWAS-based genetic variants for BMI: The PAGE Study*. American Society of Human Genetics, Washington, DC, November 2-6, 2010

Spencer KL, **Glenn K**, Brown-Gentry K, Murdock D, Haines JL, Ritchie MD, Crawford DC. *Epidemiologic Architecture for Genes Linked to Environment (EAGLE): Association of ABCG2 Q141K with Uric Acid Concentration and Gout in the National Health and Nutrition Examination Surveys*. American Society of Human Genetics, Washington, DC, November 2-6, 2010

**Glenn K**, Brown-Gentry K, Allen M, Mayo P, Schnetz-Boutaud N, Crawford DC, Thornton-Wells TA. *Replication and generalization of genetic risk factors for depression, anxiety and panic attack in European, African, and Mexican Americans from the National Health and Nutrition Examination Surveys*. American Society of Human Genetics, Washington, DC, November 2-6, 2010

Spencer KL, **Glenn K**, Brown-Gentry K, Murdock D, Canter JA, Haines JL, Ritchie MD, Crawford DC. *Epidemiologic Architecture for Genes Linked to Environment (EAGLE): Association of ARMS2 A69S with Age-related Macular Degeneration in the National Health and Nutrition Examination Surveys*. The Association for Research in Vision and Ophthalmology (ARVO), Fort Lauderdale, FL, May 2-6, 2010

**Glenn, KR**, Kainer, MA. *An Evaluation of Invasive MRSA Active Bacterial Core Surveillance (ABCs) of the Emerging Infections Program (EIP) for Davidson County, TN*. Council of State and Territorial Epidemiologists Annual Conference, Denver, CO, June 2008

**Glenn, KR**, Kainer, MA. *30- and 180-Day Case Fatality Rates Associated with Invasive MRSA in Tennessee, 2004-2007*. International Conference on Emerging Infectious Diseases Conference, Atlanta, GA, March 16-19, 2008

Morris, M., **Glenn, KR**, Huang, Y, Egwuogu, H, Okosun, IS. *Use of a Modified IDF Definition of Metabolic Syndrome as a Predictor of Impaired Fasting Glucose in Adolescents*. International Society on Hypertension in Blacks Annual Meeting, Atlanta, GA, July 2006

## GRANTS

CDC NCBDD (**Glenn**, Principal Investigator) US \$183,000 in 2016-2017 to Tennessee Department of Health "Tennessee Early Hearing Detection and Intervention Information System – Competitive

Continuation" (Awarded)

CDC NCBDD (**Glenn**, Principal Investigator) ~US \$700,000 in 2016-2019 to Tennessee Department of Health "Serving through Surveillance: Tennessee Birth Defects Registry" (Approved)

CDC NCBDD (**Glenn**, Principal Investigator) US \$750,000 in 2011-2016 to Tennessee Department of Health "Tennessee Early Hearing Detection and Intervention Information System" (Awarded)

## HONORS and AWARDS

### **LEAD Tennessee Alumni Network**

Steering Committee Chair  
2016-present

### **LEAD Tennessee**

Alliance 7  
2015-2016

### **Tennessee Government Management Institute**

Nomination  
March 2015

### **American Heart Association's 2014 Fellows Research Day**

3<sup>rd</sup> Place Clinical Research Presentation Winner  
February 2014

### **Vanderbilt University Graduate Travel Award**

February 2014

### **Robert Wood Johnson Foundation/Council of State and Territorial Epidemiologists**

Award for Outstanding Research Addressing Racial and Ethnic Disparities  
Finalist  
June 2008

## PROFESSIONAL SERVICE

### **Center for AIDS Research (CFAR) Diversity Committee**

Member, 2016 - present

### **Vanderbilt MPH Diversity Committee**

Member, 2016-2018

### **Thesis Committee Advisor**

Christina Eskew  
Gabrielle McGlathery  
Meharry School of Medicine  
Master of Science in Public Health program, 2016

### **Certificate of Public Advantage Data Coordination Preparation Lead**

Tennessee Department of Health, 2015-2016

### **Manuscript Reviewer**

*Journal of Pediatric Gastroenterology & Nutrition*, 2016

*Diabetologia*, 2016

*Diabetology & Metabolic Syndrome*, 2015

*European Journal of Preventive Cardiology*, 2015

**Evidence-Based Public Health Taskforce and EBPH Replication Team Leader**

Tennessee Department of Health, 2015-present

**State Innovation Model 2 Grant Data Coordination Preparation Lead**

Tennessee Department of Health, 2015

PROFESSIONAL MEMBERSHIPS

**Tennessee Public Health Association**

2014 – present

**American Public Health Association**

2013 – present

**Association for Cultural Diversity in Research (ACDR)**

Member, Vanderbilt University Medical Center

2012-2014

Vice President, Vanderbilt University Medical Center

2010 – 2011

**American Association for Cancer Research (AACR)**

Associate Member, 2010 – 2012

**American Society for Human Genetics**

Member, 2009 – 2011

**Council of State and Territorial Epidemiologists**

Member, 2009 – present

**Society for the Analysis of African American Public Health Issues (SAAPHI)**

Member, 2008 - present

Board Member, 2006 – 2008

**Public Health Institute Student Association (PHISA)**

Georgia State University

Vice President, 2006 – 2007