

Kenya Murray, MPH, CPH

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EDUCATION

2012 **MPH** Epidemiology
College of Public Health, *University of Georgia, Athens, GA*
Certification: Certified in Public Health, National Board of Public Health Examiners

2010 **B.S.** Biological Science, Pre-Medicine
College of Arts and Sciences, *Mississippi State University, Starkville, MS*

POST GRADUATE TRAINING

2015-2016 Global Health Corps, Lusaka, Zambia

2013-2015 CDC/CSTE Applied Epidemiology Fellowship,
Placement: New York City Department of Health and Mental Hygiene, New York, NY

TECHNICAL AND SPECIALIZED SKILLS

Programming Skills: SAS v 9.4, STATA, SUDAAN v 10.0.1, ArcGIS v 10.2.2, Epi-Info 7, MS Office (Word, Excel, PowerPoint, Access), DHIS2

Languages: English (primary), Spanish (basic), Nyanja (basic), French (basic)

PROFESSIONAL EXPERIENCE

Dec. 2016– Present **Antibiotic Resistance and Prevention Data Analyst,**
New York City Department of Health and Mental Hygiene
Bureau of Communicable Diseases

- Analyze infectious disease data at the population level to understand trends in antibiotic resistance and to establish antibiotic susceptibility profiles for emerging pathogens causing healthcare associated infections
- Establish a citywide disease surveillance system to characterize the epidemiology of Carbapenem-resistant Enterobacteriaceae (CRE) infections across healthcare settings including establishing the burden and mechanism of resistance to inform prevention efforts (*special emphasis on 3 genera Klebsiella pneumonia, Enterobacter spp., and E. coli*)

- Collaborate with local healthcare experts in New York City to complete a proof of concept project that resulted in the development of the city's first regional antibiogram to be used by clinicians to improve antibiotic utilization in outpatient settings; in addition to designing of a mobile phone app for clinical use
- Coordinate outbreak response efforts for discharged patients infected with *Candida auris*, a global emerging multi-drug resistant yeast
- Conduct epidemiologic studies related to quantifying burden of disease and understanding risks related to infectious diseases including Group A Streptococcus, HIV, and Meningococcal disease

Mar. 2016 – Mar. 2016

Consultant, Spark Microgrants, Mbale Uganda

- Conducted site visits to 4 rural village communities in eastern Uganda to evaluate and measure progress towards project activities for the implementation of 2 social projects designed for community benefit (Projects: using microgrant funds to build a maternal birthing center and community health center)
- Provided technical assistance to improve data collection capacity at a community operated maternal birthing center
- Drafted an internal report of programmatic recommendations for standardization of surveillance focused on maternal and child populations

Jul. 2015 – Jul. 2016

Senior Research Associate, Global Health Corps Fellowship

Placement: Zambian Center for Applied Health Research and Development

- Designed databases to collect data for maternal and child participants and analyzed study outcomes for the Southern Africa Maternal and Infant Pertussis Study (SAMIPS-1): a burden of disease research study conducted in Zambia measuring the incidence of severe and non-severe pertussis *Bordetella pertussis* among a population of Zambian infants
- Conducted a qualitative study to investigate the acceptability of a maternal Tdap vaccine among mothers in a compound setting in Lusaka, Zambia; duties included drafting of protocol, training interview staff, and data analyses; study results will inform a future randomized controlled vaccine trial in Zambia
- Managed the implementation of the intervention arm of the Sepsis Prevention Among Neonates in Zambia study (SPINZ): a research study of mortality and bloodstream infections of hospitalized neonates at the University Teaching Hospital. Intervention arm included sending clinicians infection control

reminders via SMS, promoting use of alcohol hand-rub, and bathing of neonates in 2% chlorhexidine solution

- Co-led the development of a data collection tool using DHIS2 software in addition to developing an instruction manual to be used by Community Health Workers (CHWs) to increase supply chain management of integrated community care management (iCCM) of medications for malaria, pneumonia, and diarrheal illness

Aug. 2013-Jul. 2015

Epidemiologist, CDC/CSTE Applied Epidemiology Fellowship Program

Placement: New York City Department of Health and Mental Hygiene
Bureau of Communicable Diseases,
Enteric, Waterborne and Hepatitis Unit

- Conducted local and multi-state outbreak investigations for acute diseases which included foodborne, waterborne, zoonotic, and vaccine preventable illnesses (*Salmonella*, *Shigella*, *Campylobacter*, Hepatitis A, West Nile Virus, Measles)
- Designed and implemented enhanced disease surveillance systems to monitor and study risk factors for *Campylobacter* and *Shigella* infections. Surveillance of Shigellosis included completion of a 2-year study of *Shigella* infections with decreased susceptibility to azithromycin; findings were used to guide development of CLSI-defined clinical breakpoints for azithromycin
- Conducted an evaluation of New York City's Hepatitis A surveillance system from 2006-2013 and identified key findings to assess public health impact and to inform resource allocation
- Managed refined methods for an innovative disease surveillance system using Yelp reviews to detect unreported incidences of foodborne illness complaints

Dec. 2011-Aug. 2013

Epidemiologist

Centers for Disease Control and Prevention (CDC), Atlanta, GA
Center for Surveillance, Epidemiology, and Laboratory Service
Division of Epidemiology, Analysis, and Library Science

- Developed epidemiologic tools and provided analytic support for state and local health departments to complete Affordable Care Act mandated community health needs assessments; package of resources developed included data collection tool in Epi Info 7 with analysis capabilities, user manual
- Analyzed data to identify high priority training interests and needs of state and local health officials related to selected areas of Community Health Assessments and Community Health Improvement Plans, findings informed CDC's program priorities and resource allocation

- Assisted with the development of health indicators to be included in the Community Health Status Indicators (CHSI), a web-based software providing health profiles peer county comparisons for each of the 3,142 counties in the United States
- Conducted an independent study using data from the National Health Interview Survey exploring racial and ethnic disparities in the future intent to test for HIV/AIDS in the United States, 2007-2010.

Jun. 2011 – Aug. 2011

Data Management Intern

Health Resources and Service Administration (HRSA), Rockville, MD
Office of Health Equity

- Managed an agency-wide data collection system for research on minority health activities focused on reducing disparities and improving health equity Identified disease disparity programs and projects carried out by each HRSA's 5 Bureaus and 10 Offices
- Collected and organized qualitative and quantitative data for use in high level program decisions such as departmental and White House Initiatives
- Facilitated communication with other Offices and Bureaus within HRSA to develop ways to foster the exchange of information on best practices and monitor the impact of agency programs in improving minority health

Jan. 2011 – Apr. 2011

Graduate Researcher

University of Georgia College of Public Health, Athens GA
Principal Investigator: Mark Ebell, MD

- Designed a web-based survey instrument that was administered to University of Georgia's student population to obtain opinions on physical activity and nutrition
- Generated regression models using STATA software to establish the point prevalence of obesity on University of Georgia's campus
- Communicated study findings to a team of epidemiologists in the form of a poster presentation at a student research symposium

May 2008 – Jul. 2008

Molecular Biology Intern

Summer Undergraduate Research Experience (SURE Program)-Inaugural Class
University of Mississippi Medical Center, Jackson, MS
Principal Investigator: Michael Hebert, PhD

- Conducted literature reviews on nuclear organizations to understand how diseases such as spinal muscular atrophy alter nuclear efficiency

- Engaged in experiments designed to understand cellular dialogue that occurs between areas known as cajal bodies and other nuclear components that stimulate cell mutation
- Performed antibody staining of HeLa cells to distinguish cajal bodies from other nuclear domains

PUBLICATIONS

Murray, K., Oraka, E. (2013). Racial and Ethnic Disparities in Future Testing Intentions for HIV/AIDS – United States, 2007-2010: Results from the National Health Interview Survey. *AIDS and Behavior*, 18(7), 1247-1255.

Murray, K., Reddy, V., Kornblum, J., Waechter, H., Chicaiza, L., Rubinstein, I. (2017). Increasing Antibiotic Resistance in Shigella spp. from Infected New York City Residents, New York, USA. *Emerging Infectious Diseases*, 23(2), 332-335.

Williams, A., McCloskey, L., Mwale, M., **Murray, K.,** Mwanayanda, L. (2017). Assessing the acceptability of a maternal Tdap vaccine based on mother's attitudes, beliefs, and knowledge of pertussis in Lusaka, Zambia. *Vaccine*. In progress.

Bloch, D., Ezeoke, I., Ngai, S., Rubinstein, I., Miller, L., **Murray, K.** (2017). Sex Differences in Meningococcal Disease Mortality, New York City, 2008-2016. *Annals of Internal Medicine*. In progress.

OTHER TECHNICAL DOCUMENTS: REPORTS

Murray, K., Dorrington, A., Boothe, V. Department of Health and Human Services, Centers for Disease Control and Prevention. Community Opinion Survey User's Guide. Atlanta, GA. 2013. User's Manual.

Murray, K., Balter, S. Outbreak of Gastrointestinal Illness Associated With A Dinner Party Catered By 2 Restaurants In Manhattan. New York, NY. 2013. Submitted to the Assistant Commissioner.

Murray, K., Dentinger, C. Hepatitis A In An Employee At A Bronx Restaurant. New York, NY. 2013. Submitted to the Assistant Commissioner.

Murray, K., Hanson, H. Outbreak of *Salmonella* Associated With A Chinese Restaurant In Brooklyn. New York, NY. 2014. Submitted to the Assistant Commissioner.

Murray, K., Stavinsky, F. Hot Pot Dining Leads to Across Country Collaboration. In the Field Environmental Health. 2015. Online Publication.

Chiluba, B., **Murray, K.** Strengthening The Delivery of Integrated Community Case Management (iCCM) In Two Districts of Eastern Province, Zambia. Lusaka, Zambia. 2015. Submitted to UNICEF Zambia.

Murray, K., Bob, A. Mhealth Technology to Strengthen Delivery of Integrated Community Case Management (iCCM). Lusaka, Zambia. 2015. User's Manual.

PRESENTATIONS

LOCAL

Antibiotic Resistance and Prevention Initiatives in New York City. Antibiotic Resistance Task Force Webinar, New York, NY. July 2017.

Moderator. University of Georgia, College of Public Health Career Day. Athens, GA. December 2014.

Racial and Ethnic Disparities in Future Testing Intentions for HIV/AIDS – United States, 2007-2010: Results from the National Health Interview Survey. Oral session presented at College of Public Health Poster Day, Athens, GA. May 2012.

The Point Prevalence of Obesity Among UGA Students: A Needs Assessment for Physical Fitness and Nutrition Education Interventions. Oral session presented at the Annual MPH Student Conference, Athens, GA. May 2011.

REGIONAL

Using Restaurant Review Websites to Identify Unreported Complaints of Foodborne Illness in New York City. Oral presentation at Northeast Epidemiology Conference, Philadelphia, PA. October 2014.

NATIONAL

Risk Factors for *Campylobacter* Infections in New York City: A Case-Case Comparison with Salmonella Infections. Oral presentation at the Annual Council of State and Territorial Epidemiologist Conference, Boston, MA. June 2015.

Decreased Susceptibility to Azithromycin Among *Shigella* Infections in New York City. Poster session at the Annual Council of State and Territorial Epidemiologist Conference, Nashville, TN. June 2014.

Evaluation of Hepatitis A Surveillance System in New York City, 2006-2013. Poster session at the Annual Council of State and Territorial Epidemiologist Conference, Nashville, TN. June 2014.

Development of Community Opinion Survey Using Epi Info 7. Oral presentation at the Annual Council of State and Territorial Epidemiologist Conference, Pasadena, CA. April 2013.

HONORS / AWARDS

2015 **Featured Epidemiologist in *Fast Company* magazine** (Professional profile was highlighted to honor excellence in global health and innovative use of technology to solve health problems through implementation of mHealth.)

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- 2014 **CSTE Fellow Spotlight** (An honor recognizing the top performing fellow among a class of 34 placed in epidemiology positions throughout the U.S. Spotlight included a biographical sketch and professional accomplishments highlighted on the CSTE national website.)
- 2014 **Nominated for University of Georgia Top 40 Under Forty Alumni**
- 2013 **Delta Omega Honor Society in Public Health, Beta Chi Chapter**
- 2013 **Nominated for LEAD Atlanta** (A leadership program with a focus of leadership skill building among young professionals in the Metro Atlanta area. Nominees have shown commitment to community, leadership, volunteerism and possess strong potential for influencing change.)
- 2011 **Health Resources and Services Administration Certificate of Appreciation**
- 2007 **President's Scholar**
- 2006 **Dean's Scholar**

PROFESSIONAL DEVELOPMENT

- 2017 SAS Enterprise Guide Training
- 2016 Monitoring and Evaluation –The Global Health eLearning Center
- 2015 Epi Info 7 Training
- 2014 HIV Confidentiality Training
- 2013 SAS Programming Essentials II
- 2013 SAS Programming Essentials I
- 2012 Health Literacy and Clear Communication Training
- 2012 Diversity & Inclusion Training
- 2012 Epi Info 7 Training
- 2012 Comprehensive Strategic Program Planning Course: CDC University

SERVICE - PROFESSIONAL

- Abstract Reviewer:** American Public Health Association, 2014
- Manuscript Reviewer:** *Journal of Aids and Behavior*, 2013

AFFILIATIONS/MEMBERSHIPS

- 2015-2016 Global Health Corps Fellow
- 2013-2015 CDC/CSTE Fellow
- 2012-present Member, American Public Health Association
- 2013-present Member, Council of State and Territorial Epidemiologist
- 2012-2014 Member, Georgia Public Health Association

COMMUNITY SERVICE

2016	O'Bannon High School, (Led college preparatory course for junior and senior high school students in Mississippi)
2014-2015	Young Women's Leadership School of Brooklyn (Speaker at public health career day for middle school girls in Brooklyn)