

**EMMANUEL O. KEKU, MD, MA, MSPH, FAHA**  
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## **EDUCATION**

M.D, Medicine, May 1996  
University of North Carolina @ Chapel Hill, School of Medicine, Chapel Hill,  
North Carolina  
PhD (ABD), Epidemiology and Nutrition (Chronic Diseases), 1988-90  
University of North Carolina @ Chapel Hill, School of Public Health, Chapel  
Hill, North Carolina  
M.S.P.H, Epidemiology (Chronic Diseases Epidemiology), May 1988  
University of North Carolina at Chapel Hill, School of Public Health, Chapel  
Hill, North Carolina  
M.A, Genetic Counseling and Education, December 1979  
Wake Forest University, Graduate School, Winston-Salem, North Carolina  
B.A, Biology, May 1975  
Wake Forest University, Winston-Salem, North Carolina

## **POST GRADUATE TRAINING**

Managing Cardiovascular Disease in the Elderly (Workshop), Barbados,  
West Indies. Duke University Health System Education Services  
Department, Durham, NC, October 8-11, 2007  
Genetic Approaches to Complex Heart, Lung Blood Diseases. The Jackson  
Laboratory, Bar Harbor, ME, September 11-19, 2003  
Fellow; 28<sup>th</sup> Ten-Day Seminar on the Epidemiology and Prevention of  
Cardiovascular Disease, American Heart Association, Tahoe City, CA  
July 21 – August 2, 2002  
Duke University Medical Center, Durham, NC  
Internship/Residency, Primary Care Internal Medicine, 1997

## **HONORS AND AWARDS**

East Carolina University School of Medicine

- Center for Student Opportunities Fellowship/Grants, Summer, 1991

University of North Carolina School of Public Health

- Cancer Education Fellowship, Summer 1985
- U.S. Public Health Trainee, Summer 1985-86

Wake Forest University Graduate School

- Wake Forest University Graduate School Fellowship/Grants, 1977-79

Wake Forest University Undergraduate School

- Hankin's Upper Class men Scholar, 1973-75
- Service Award, ADHIAMBO Learning Institute Children, Science Fair 2003  
 Certificate of Appreciation, National Science Olympiad Tournament 2003  
 Appreciation Award, JSU/QEM Wellness Project, June 4<sup>th</sup> 2003  
 Research Award Trophy, Excellence in Partnerships for Community  
 Outreach, Research, on Health Disparities and Training ("Project Export"):  
 Center of Excellence in Minority Health, JSU, Jackson, MS: Sept. 2004

**Employment: TEACHING EXPERIENCE (Most Recent)**

- July 2009 - Present      Professor, Department of Public Health and  
 Preventive Medicine, School of Medicine  
 St. George's University, True Blue, St. Georges  
 Grenada, West Indies
- Courses:  
 PUBH 803 Principles of Epidemiology  
 PUBH 813 Chronic Diseases Epidemiology  
 PUBH 814 Infectious Diseases Epidemiology  
 PUBH 501 Course Director: Topics in Community and Preventive  
 Medicine (CPM): Medicine in Society II, (Medical  
 Students, Term2)  
 PUBH 881 Independent Studies
- February 2007- June 2009      Associate Professor, Department of Public Health  
 and Preventive Medicine, School of Medicine  
 St. George's University, True Blue, St. Georges  
 Grenada, West Indies
- Courses:  
 PUBH 803 Principles of Epidemiology  
 PUBH 813 Chronic Diseases Epidemiology  
 PUBH 814 Infectious Diseases Epidemiology  
 PUBH 501 Course Director: Topics in Community and Preventive  
 Medicine (CPM): Medicine in Society II, (Medical  
 Students, Term2)  
 PUBH 881 Independent Studies
- April 2006-July 2006      Part-Time Associate Professor, Department of  
 Public Health and Preventive Medicine, School of  
 Medicine, St. George's University, Grenada, West Indies
- MPH Courses:  
 PUBH 813 Chronic Diseases Epidemiology  
 PUBH 814 Emerging Infectious Diseases Epidemiology

July 2004-Dec 2006 Associate Professor, School of Public Health  
Jackson State University, Jackson, MS

DrPH Courses:

PHS 702 Disease Pathogenesis and Behavioral Risk Factors  
EPID 714 Nutrition and Genetic Epidemiology

MPH Courses:

PHS 500 Introduction to Public Health – Epidemiology  
PHS 508 Public Health Residency  
PHS 523 Chronic and Infectious Disease Epidemiology

BS HealthCare Administration:

HCA 311 Introduction to Public Health and Epidemiology  
Critical Analysis of research proposal presentation by students

July 2003-June2004 Assistant Professor, School of Public Health  
Jackson State University, Jackson, MS

MPH Courses:

PHS 500 Introduction to Public Health – Epidemiology  
PHS 508 Public Health Residency  
PHS 523 Chronic and Infectious Disease Epidemiology

BS HealthCare Administration

HCA 311 Introduction to Public Health and Epidemiology

2003-2004 Guest Lecturer, Tougaloo College, Tougaloo, MS  
2/2004 **Topic:** CVD and Modifiable Risk Factors  
Fall/2003 Preceptor for JHS Scholars, Tougaloo College  
Spring/2004, Preceptor for JHS Scholars, Tougaloo College

2001-2004 Conducted several other seminars and lectures within Mississippi  
on Overweight, Obesity and Physical Activity

**EMPLOYMENT (RESEARCH & SERVICE)**

August 2008 – Present Consultant, Master of Health Administration  
Program, University of Trinidad and Tobago (UTT)  
O'Meara campus, Arima, Trinidad

January 2006 – Feb 2007 Consultant, Epidemiologist, Chronic Diseases  
Mississippi State Health Dept., Jackson, MS

January 2002-Feb 2007 Medical Epidemiologist, Chronic Diseases  
Director, Jackson Heart Study Surveillance

Jackson Heart Study Coordinating Center  
Jackson State University, Jackson, MS

July 2000-Dec 2001      Medical Epidemiologist  
Family Medicine Residency Program  
North Mississippi Med Ctr., Tupelo, MS

Aug 1998-June 2000      Medical Examiner (Clinical and Management)  
Examination Management Services, Inc. (EMSI)  
4001 Barrett Drive, Raleigh, NC

June 1997-June 1999      Residency - Primary Care Internal Medicine  
Duke University Medical Center  
Department of Internal Medicine  
Durham NC

May 1996- June 1997      Mini-Fellowship: Research Coordinator  
Clin. Trials: Pediatric & Adult Sickle Cell Patients  
Multicenter Pediatric Hydroxyurea Study  
General Clinical Research Center  
Univ of North Carolina @ Chapel Hill  
Chapel Hill NC

1983-93                      Research Associate  
Department of Pediatrics, School of Medicine  
University of North Carolina @ Chapel Hill  
Chapel Hill NC

1985-89                      Research Associate  
Department of Epidemiology & Family Medicine  
University of North Carolina & Chapel Hill  
Chapel Hill, NC

1975-82                      Research Associate  
Department of Medicine (Hematology/Oncology)  
Department of Physiology and Pharmacology  
Wake Forest University School of Medicine  
Winston-Salem, NC

### **PROFESSIONAL MEMBERSHIPS**

American Medical Student Association, 1993-1996  
American Medical Association, 1993-  
Student National Medical Association, 1991-  
American Public Health Association, 1986-

## **PERSONAL INTERESTS**

International traveling, Reading, Soccer, Jogging, Flying, Volunteering

## **PUBLICATIONS -Abstracts**

- Zeya HI, **Keku E**, Dechatelet LR, and Spurr CL. Lysozyme Negative Macrophages Made Lysozyme Positive by Injections of Commercial Lysozyme-Cephalin Complexes. *Clinical Research* 1977;25:352A.
- Zeya HI, **Keku E**, Richards F, and Spurr CL. Granulocyte Defect in Monocytic Leukemia (ML). *Clinical Research* 1978;26:360A.
- Zeya HI, **Keku E**, Richards F, and Spurr CL. Monocyte Defect in Chronic Lymphocytic Leukemia (CLL). *Clinical Research* 1978;86:360A.
- Zeya HI, **Keku E**, Richards R, Muss H, Spurr CL. Hairy Cell Leukemia with Absent Monocytes: Severe Deficiency of Lysozyme and Neutral Protease in a Patient's Neutrophils: Improvement After Splenectomy. *Clinical Research* 1979;29:393A.
- Shub MD, **Keku E**, Pang, WA, Cheng PW. Evidence for Biochemical Maturation of Intestinal Mucins During Postnatal Development. *Gastroenterology* 1985;88:1585A.
- Rhoads JM, **Keku E**, Lecce J. L-Glutamine and L-phenylalanine Enhance Jejunal Transport more than D-Glucose in Newborn Formula-Fed pigs. *Gastroenterology* 1988;94:386A.
- Rhoads JM, **Keku E**, Lecce J. Glutamine but not alanine stimulates absorption of both Na and Cl across rotavirus-infected piglet jejunum. *Gastroenterology* 1989;96:414A.
- Rhoads JM, **Keku E**, Lecce J. Glutamine stimulates both electrogenic and electroneutral Na transport in neonatal pig jejunum. *Gastroenterology* 1989;96:415A.
- Rhoads JM, **Keku E**, Lecce J. Glutamine stimulates oxidative metabolism and Na absorption in neonatal pig jejunum. *Gastroenterology* 1990;98:553A.
- Keku E**, Gerard P, Sims M, Sarpong D, Prevalence and correlates of overweight in public school children of Tupelo, Mississippi. APHA 2005.

## **FULL SCIENTIFIC PAPERS**

- Zeya HI, **Keku E**, Dechatelet LR, Cooper MR, Spurr CL. Isolation of enzymatically homogenous populations of human lymphocytes, monocytes, and granulocytes by zonal centrifugation. *American Journal of Pathology* 1978;90:33.
- Zeya HI, **Keku E**, Richards F, Spurr CL. Monocyte and granulocyte defect in chronic lymphocytic leukemia. *American Journal of Pathology* 1979;95:43.

- Zeya HI, **Keku E**, Richards F, Spurr CL. Deficiency of neutral protease and alkaline phosphatase in neutrophils of a case of hairy cell leukemia: Appearance after splenectomy. *American Journal of Pathology* 1979; 95:55.
- Lymangrover JR, **Keku E**, Seto YJ. 60-Hz electric field alters the steroidogenic response of rat adrenal tissue in vitro. *Life Science* 1983;32:691.
- Lymangrover JR, **Keku E**, Eldridge JC. Naloxone potentiates ACTH and angiotension II but not potassium stimulated aldosterone secretion in vitro. *Life Science* 1983;33:1605.
- Lymangrover JR, **Keku E**. Varying the duration of A23187 administration alters its effect on adrenal steroidogenics. *Life Science* 1983;34:371.
- Rhoads JM, **Keku E**, Lecce J. Glutamine stimulates electrogenic and electroneutral sodium absorption in neonatal pig jejunum. *American Journal of Physiology* 1990;259:G99.
- Rhoads JM, **Keku E**, Quinn J, Woosely J, Lecce J. L-Glutamine stimulates jejunal sodium and chloride absorption in pig rotavirus enteritis. *Gastroenterology* 1991;100:683.
- Rhoads JM, Vogler R, Lacey S, Reddick R, **Keku E**, Azizkhan R, Berschneider H. Microvillus inclusion disease: In vitro jejunal electrolyte transport. *Gastroenterology* 1991;100:811.
- Woodard JP, Chen W, **Keku E**, Liu SC, Lecce JG, Rhoads JM. Altered jejunal potassium (Rb+) transport in piglet rotavirus enteritis. *American Journal of Physiology* 1993;165:G388.
- Rhoads JM, Ulshen MH, **Keku E**, Chen W, Kandil HM, Woodard P, Liu SC, Fuller CR, Leary LH, Lecce JG. Oral Transforming growth factor- $\beta$  enhances jejunal mucosal recovery and barrier function in piglet rotavirus enteritis. *Pediatric Research* 1995;38:1-9.
- Keku E**, Kenney A, Dawson E, Hill E. The Prevalence and Correlates of Overweight School Children in Tupelo, Mississippi. Submitted. *International Journal of Obesity*
- Keku E**, Garrison R, et al. The health and Behavioral Issues influencing the Medical Mall Walk at Jackson, MS. Institute of Epidemiology and Health Services Research Publications, Jackson State University, Jackson, MS. 2002. Presented at an Annual Conference on eliminating health Disparities in Mississippi: Causes and Prevention
- Keku E**, Garrison R, Sarpong, D. Congestive Heart Failure in African Americans: A Review of Current Knowledge. (Manuscript in Preparation)
- Keku E**, Rosamond, W, et L. Cardiovascular Disease Event Classification in The Jackson Heart Study: Methods and procedures. *J. Ethnicity and Diseases* 2005;15[Supplement 6]:S6-62-S6-70.

## **MSPH RESEARCH THESES**

The Correlates of High-density Lipoprotein Cholesterol in Blacks and Whites of Evans County, Georgia. Master's Thesis, Department of Epidemiology, University of North Carolina, School of Public Health, Chapel Hill, NC 1988.

## **MOST RECENT ORAL PRESENTATION**

Walk The Walk, Talk The Talk; Obesity and Physical Inactivity- Mississippi Governor's Health Care Summit, Tupelo, MS, on August 21<sup>st</sup>, 2001  
Presenter: Emmanuel O. Keku, MD, MA, MSPH

Utilization of an Urban Mall Walk in Jackson, Mississippi.  
1<sup>st</sup> Annual Conference Eliminating Health Disparities in Mississippi: Causes and Prevention. Institute of Epidemiology and Health Services Research, School of Allied Health Sciences, Jackson State University Jackson, MS, October 10-11, 2002  
Presenter: Emmanuel O. Keku, MD, MA, MSPH

Jackson Heart Study, Cardiovascular Health Seminar, information and Quality Healthcare, 385A Highland Colony Parkway Ste. 120, Ridgeland, Mississippi, 39157, May 1, 2004  
Presenter: Emmanuel O. Keku, MD, MA, MSPH

## **MOST RECENT POSTER PRESENTATION**

CVD/CHD Disparities: Jackson Heart Study and Mortality Trends in Mississippi. Research Centers in Minority Institutions (RCMI) 2002 Symposium/Collaborative Workshop in Biomedical Research among RCMI Centers, hosted by Jackson State Univ., & Supported by NIH. Hilton-Jackson Hotel, Jackson, MS, April 24-27, 2002  
Presenter: Emmanuel O. Keku, MD, MA, MSPH

Prevalence and correlates of overweight in public school children of Tupelo, Mississippi. American Public Health Association 133<sup>rd</sup> Annual Meeting, Philadelphia, Pennsylvania, December 10-14, 2005  
Presenter: Emmanuel O. Keku, MD, MA, MSPH

## **MANUSCRIPTS**

**Keku E**, Stuart, DO. Demography of Positive Tuberculin Test and Reported Tuberculosis Cases at the Roberson County Health Department: Consideration for intervention to reduce the incidence of TB in the county (November 1995).  
Principal Investigator: Emmanuel O. Keku, MD, MA, MSPH

Grant Support: Roberson County Health Department

**MOST RECENT PEER REFREED JOURNAL (READER)**

American Public Health Association, Epidemiology section, 2004 - present  
 International J. of Environmental Research & Public Health, 2004 - present  
 Journal of Ethnicity and Health, 2007 - present  
 Journal of the National Medical Association, 2007 - present

**MOST RECENT GRANT APPLICATION REVIEW/ REFREE**

Department of Homeland Security (DHS) Scholarship and Fellowship Program, Washington, DC. (2003 - 2006)

Oak Ridge Institute for Science and Education (ORISE), Oak Ridge, TN  
 Pennsylvania Cardiovascular Disease Grant (RFA) Review Panel  
 October – December 2002 through 2006

Institute of Epidemiology and Health Services Research,  
 School of Allied Health Sciences, Jackson State University, Jackson, MS  
 April – May 2002

**ONGOING RESEARCH SUPPORT**

- (1) P20 MD000534-01      09/30/2003-08/31/2008      US \$200,000.00  
 U. S. Department of Health and Human Services/National Center for  
 Minority Health and Health Disparities (NCMHD)  
 Excellence in Partnerships for Community Outreach, Research, on Health  
 Disparities & Training, "Project Export": Ctr of Excellence in Minority Health  
 Cardiovascular Diseases (CVD) Research Core/Component: Obesity  
 Reduction through Mall-Walk in Ethnic Minority Population, Jackson, MS  
 Principal Investigator (PI): Emmanuel O. Keku, MD, MA, MSPH
  
- (2) N01-HC-95170 Taylor (PI)      Phase I & II      6/1/1999-5/31/13  
 NIH/NHLBI      Phase I (US \$35,000,000.00)  
    Phase II (US \$65,000,000.00)  
 Jackson Heart Study. The Prospective Study of Cardiovascular Diseases  
 (CVD) in African Americans of Metropolitan Jackson, Mississippi  
 Role: Co-PI / Co-Investigator      Phase II      Renewed: 6/1/2005-5/31/2013

**RECENTLY COMPLETED RESEARCH PROJECTS**

- (1) A Pilot Study: The Jackson Medical Mall Walkers Survey, Jackson, MS  
 Research Support: Jackson State University (2002)  
 Principal Investigator: Emmanuel O. Keku, MD, MA, MSPH

(2) The Prevalence and Correlates of Overweight School Children in Tupelo, MS. Research Support: Health Care Foundation of North Mississippi, Tupelo, MS (2001).

Principal Investigator: Emmanuel O. Keku, MD, MA, MSPH

### **PRESENT DEPARTMENTAL COMMITTEE MEMBERSHIP**

Research & Practice Committee, **Chair**

Public Health Program Accreditation Self-Study Committee (CEPH):

Creation, Application, and Advancement of Knowledge: Research, Service and Workforce Development, **Chair**

Graduate Affairs Committee

Admission's Committee

Committee for Academic Progress & Professional Standards (CAPPs)

Admissions & Graduation Committee

National Advisory Committee on Chronic, Non-Communicable Disease Prevention and Control, Grenada, West Indies

National Disaster Management Authority (NADMA), Grenada

### **PAST COMMITTEE MEMBERSHIP**

School of Public Health's Accreditation Committee for the Council on Education For Public Health (CEPH) Accreditation, School of Public Health, Jackson State University, Jackson, MS

Event Monitoring Committee (Chair), Jackson Heart Study Coordinating Center, Jackson State University, Jackson, MS

Congestive Heart Failure Committee (Chair), Jackson Heart Study Coordinating Center, Jackson State University, Jackson, MS

Genetics Sub-Committee (Familial/Genetics study), Jackson Heart Study Coordinating Center, Jackson State University, Jackson, MS

Publications and presentations Sub-Committee, Jackson Heart Study Coordinating Center, Jackson State University, Jackson, MS

Steering Committee, Jackson Heart Study Coordinating Center, Jackson State University, Jackson, MS

### **ADVISOR / ADVISEE THESIS & DISSERTATION**

Department of Public Health & Preventive Medicine, School of Medicine, St. George's University, True Blue, St. George, Grenada, West Indies

University of Trinidad and Tobago (UTT), O'Meara campus, Arima, Trinidad

Department of Epidemiology & Biostatistics, School of Health Sciences, College of Public Services, Jackson State University, Jackson, MS