

CURRICULUM VITAE MUKTAR HASSAN ALIYU

Office:

Vanderbilt Institute for Global Health
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EDUCATION AND POST-GRADUATE TRAINING

1993 Ahmadu Bello University, Nigeria, **MBBS**, Medicine & Surgery
2002 George Washington University, Washington, DC, **MPH**, Epidemiology & Biostatistics
2005 University of Alabama at Birmingham, Birmingham, AL, **DrPH**, Public Health
2008 Meharry Medical College, Nashville, TN, **Medical Residency**, Occupational Medicine
2009 Mayo Clinic, Rochester, MN, **Fellowship, Preventive Medicine**

BOARD CERTIFICATION AND MEDICAL LICENSURE

MEDICAL LICENSES IN:

Minnesota #51033 (2008)
Tennessee #44687 (2009)
Nigeria FM 22,272 (1995)

ADDITIONAL CERTIFICATIONS BY EXAMINATION:

- Examination Council for Foreign Medical Graduates certificate (2006)
- Advanced Cardiac Life Support (renewed 2013)
- Medical Review Officer Certification Council (2008)
- American Board of Preventive Medicine (board-certified, Occupational Medicine) (2009)
- American Board of Preventive Medicine (board-certified, Public Health & Preventive Med) (2010)

PROFESSIONAL APPOINTMENTS

ACADEMIC AND GOVERNMENT

08/97-04/01 Associate Lecturer (Public Health), Bayero University, Kano, Nigeria
01-03/2001 Central Facilitator, Polio Eradication Initiative, Federal Ministry of Health, Nigeria
01/02-08/02 Research Associate, Department of Medicine, Howard University Hospital, USA
09/02-05/05 Research Assistant, School of Public Health, Univ of Alabama at Birmingham, USA
05/05-06/06 Research Associate, School of Medicine, University of Alabama at Birmingham, USA
12/08-06/09 Assistant Professor, Preventive Medicine, Mayo Clinic College of Med., Rochester, MN, USA
06/09-07/12 Assistant Professor, Family Medicine, Vanderbilt University School of Medicine, Nashville, USA
06/09-06/13 Assistant Professor, Preventive Medicine, Vanderbilt Institute for Global Health, Nashville, USA
06/09-10/13 Program Director, Friends in Global Health-Nigeria, Abuja, Nigeria
10/10-02/14 Assistant Professor, Family and Community Medicine, Meharry Medical College
10/10-present Associate Director, Occupational Medicine Residency Program, Meharry Medical College
07/13-present Tenured Associate Professor, Preventive Medicine (Health Policy), Vanderbilt Univ Sch of Med
07/13-present Tenured Associate Professor, Medicine, Vanderbilt University School of Medicine
02/14-present Associate Professor, Family and Community Medicine, Meharry Medical College
02/14-present Associate Director for Research, Vanderbilt Institute for Global Health
03/14-present Outcomes & Evaluation Lead, Vanderbilt Faculty and Staff Health & Wellness

HONORARY APPOINTMENTS

2012- 2015 Visiting Professor, Community Medicine, Bayero University, Kano, Nigeria

HOSPITAL APPOINTMENTS

01/94-06/95 Intern, Murtala Mohammed Hospital, Kano, Nigeria
06/95-07/96 Medical Officer, Guards' Brigade Medical Center, Abuja, Nigeria
08/96-05/00 Resident, Community Medicine, Aminu Kano Teaching Hospital, Nigeria
09/98-12/00 Resident Physician, Public Health, Jos University Hospital, Nigeria
08/99-12/99 Medical Superintendent, Comprehensive Health Center, Gindiri, Nigeria
05/00-04/01 Senior Resident, Community Medicine, Aminu Kano Teaching Hospital, Nigeria
07/06-06/08 Resident, Occupational Medicine, Meharry Medical College, Nashville, TN, USA
07/07-06/08 Chief Resident, Occupational Medicine, Meharry Medical College, Nashville, TN, USA
07/08-06/09 Senior Clinical Fellow, Mayo Clinic, Preventive Medicine, Rochester, MN, USA
10/09-present Attending Physician, Occupational Health Clinic, Vanderbilt University Medical Center, USA

PROFESSIONAL ORGANIZATIONS

American College of Occupational and Environmental Medicine (**Fellow**, 2012; **Member, Board of Directors**, 2015-2016)
American College of Preventive Medicine (**Fellow**, 2012)
Tennessee College of Occupational and Environmental Medicine (**President**, 2015-16)
International AIDS Society (Member, 2009 – present)
American Academy for the Advancement of Science (Member, 2013-present)

PROFESSIONAL ACTIVITIES

AWARDS AND HONORS

1994 **Ransome Kuti Prize in Community Medicine**, Ahmadu Bello University, Nigeria
2002 **Academic Merit Scholarship**, George Washington University, Washington, DC
2002 **Dean's List**, George Washington University, Washington, DC
2002 **Cooperative Education Achievement Award**, George Washington University, Washington, DC
2004 **Election** to Phi Beta Delta Honor Society for International Scholars
2005 **Election** to Delta Omega Honorary Society in Public Health
2005 **International Student Award for Academic Excellence**, Univ of Alabama at Birmingham
2005 **Outstanding Doctoral Student Award** (Dean's Award), School of Public Health, University of Alabama at Birmingham
2007 **Resident Research Award**, American College of Occupational and Environmental Medicine
2007 **Resident Research Award**, Family and Community Medicine, Meharry Medical College
2007 **Dean's Award for Excellence in Teaching**, School of Graduate Studies & Research, Meharry Medical College
2008 **Chief Resident Award**, Meharry Medical College
2009 **Outstanding Poster Award**, American College of Preventive Medicine, Preventive Medicine 2009, Los Angeles, CA
2009 **William H.J. Summerskill Award for Outstanding Achievement in Research**, Mayo Foundation for Medical Education and Research
2009 **IAS/NIH Travel Award**, International AIDS Society Conference, Cape Town, South Africa
2011 *Marquis' Who's Who in Medicine and Healthcare*, 8th Edition
2012 **Fellow**, American College of Occupational and Environmental Medicine
2012 **Fellow**, American College of Preventive Medicine
2014 **William Kane 'Rising Star' Award**, American College of Preventive Medicine
2014 **UAB Alumni Award for Scientific Excellence**, University of Alabama at Birmingham
2015 **Chancellor Faculty Fellow**, Vanderbilt University

REVIEW ACTIVITIES

- 2005 **Reviewer**, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, DP-06-002 Pregnancy Risk Assessment Monitoring System Special Emphasis Panel. Feb 15-17, 2006. Atlanta, GA
- 2008 **Reviewer**, Fogarty International Clinical Research Fellows Program, NIH/Fogarty International Clinical Research Scholars Support Center at Vanderbilt University/American Association of Medicine Colleges
- 2010-15 **Reviewer**, Deep South Center for Occupational Health & Safety, National Institute for Occupational Safety and Health (NIOSH), Pilot/Small Projects Research Training Program
- 2011 **Reviewer**, U.S. National Institutes of Health, National Institute of Mental Health, HIV RFA 12-060, 12-061: Promoting Engagement in Care and Timely Antiretroviral Initiation Following HIV Diagnosis. November 18, 2011, Washington, D.C.
- 2012 **Reviewer**, Health Resources and Services Administration, HRSA-12-025 Primary Care Training and Enhancement Interdisciplinary and Interprofessional Joint Graduate Degree Program. May 24-25, 2012
- 2015 **Reviewer**, U.S. National Institutes of Health, Center for Scientific Review (CSR), AIDS, Clinical Studies, and Epidemiology (ACE) Study Section, Washington, D.C.
- 2015 **Reviewer**, U.S. National Institutes of Health, NIH-PEPFAR Collaboration on Implementations Science for HIV: Towards an AIDS-free generation (R01), Study Section, Washington, D.C.
- 2016 **Reviewer**, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, RFA-DP-16-001: Pregnancy Risk Assessment Monitoring System, Component A, Special Emphasis Panel ZDP1 KVA (A2). January 27-28, 2016.
- 2016 **Reviewer**, U.S. National Institutes of Health, Center for Scientific Review (CSR), AIDS, Clinical Studies, and Epidemiology (ACE) Study Section, Washington, D.C.

Editorial Board:

Case Reports in Obstetrics and Gynecology; World Journal of Obstetrics and Gynecology

Journal Reviewer:

AIDS Care; American Journal of Perinatology; American Journal of Preventive Medicine; American Journal of Obstetrics and Gynecology; BMC International Health; BMC Public Health; BMC Research Notes; Ethnicity & Disease; International Journal of Gynecology & Obstetrics; International Journal of Hygiene and Environmental Health; Journal of the National Medical Association; Journal of Acquired Immune Deficiency Syndrome; Journal of Occupational and Environmental Medicine; Lancet; Maternal and Child Health Journal; Medical Science Monitor; Obstetrics & Gynecology; PLoS ONE

OTHER PROFESSIONAL ACTIVITIES**INVITED PRESENTATIONS**

- 05/06/09 Meharry Medical College, Division of Preventive and Occupational Medicine Grand Rounds, "Preparing for the ABPM Boards"
- 09/06/09 Vanderbilt University, Institute for Global Health Grand Rounds, "Confronting the HIV Epidemic in Nigeria: Problems, Progress, Prospects"
- 01/10/10 Meharry Medical College, School of Dentistry. "Dental Practitioners and Diagnosis of Fetal Alcohol Spectrum Disorders." Sponsored Talk. Southeast Fetal Alcohol Research and Training Center
- 02/19/10 Vanderbilt University Institute for Global Health, 2nd Annual Tennessee Global Health Forum. "The Global/Local Connection: Models and Methods for Successful Projects in Global Health."
- 01/22/11 University of Zambia, Zambian Medical Association, Lusaka, Zambia. "Caring for the Caregivers: A response to the HIV Challenges among Medical Doctors in Zambia." (Invited Keynote Speaker)

- 01/18/11 Meharry Medical College, School of Dentistry. “Dental Health Professionals and Diagnosis of Fetal Alcohol Spectrum Disorders.” Sponsored Talk. Southeast Fetal Alcohol Research and Training Center
- 01/18/11 Vanderbilt University School of Medicine. Occupational Medicine Faculty & Physicians Meeting. “Challenges in Implementing Global Health Programs in Developing Countries”
- 02/07/11 Vanderbilt Institute for Global Health. World Health Week 2011. “Meeting Local Needs with Global Health Initiatives. A Global Health Week Panel”
- 03/30/11 Vanderbilt Institute for Global Health. International Healthcare Symposium. Panel Discussion. “Interdisciplinary Initiatives in Global Health.”
- 04/08/11 University of Tennessee, Knoxville. Department of Obstetrics and Gynecology Grand Rounds. “The Peril of Alcohol Use in Pregnancy: Fetal Alcohol Spectrum Disorders”
- 02/14/12 Meharry Medical College, School of Dentistry. “Dental Health Professionals and Diagnosis of Fetal Alcohol Spectrum Disorders.” Sponsored Talk. Southeast Fetal Alcohol Research and Training Center
- 09/04/12 Louisiana State University. “Prevention, Screening and Diagnosis of Fetal Alcohol Spectrum Disorders.” Sponsored Talk. Southeast Fetal Alcohol Research and Training Center
- 10/15/12 Jackson State University. “Prevention, Screening and Diagnosis of Fetal Alcohol Spectrum Disorders.” Sponsored Talk. Southeast Fetal Alcohol Research and Training Center
- 12/17/12 Aminu Kano Teaching Hospital, Department of Community Med Grand Rounds “The Challenges and Promise of Academic Partnerships in Global Health”. Kano, Nigeria
- 02/18/13 Vanderbilt University School of Medicine. “Maternal and Child Health: A Local and Global Panel Discussion” Light Hall, Vanderbilt University Medical Center
- 03/14/13 Fogarty International Center/National Institutes of Health. “Optimizing Integrated PMTCT Services in rural Northcentral Nigeria”. PMTCT/ PEPFAR Implementation Science Network Meeting. March 14, 2013, Bethesda, MD.
- 06/07/13 East Tennessee State University. “Prevention, Screening and Diagnosis of Fetal Alcohol Spectrum Disorders.” Sponsored Talk. Southeast Fetal Alcohol Research and Training Center
- 09/09/13 University of Arizona, Mel and Enid Zuckerman School of Public Health. Grand Rounds, “Challenges and Opportunities in Optimizing PMTCT Services in Resource-limited Settings: the Friends in Global Health Experience”. Tucson, AZ.
- 09/21/13 Meharry Medical College, Department of Family and Community Medicine. 4th Annual Primary Care Conference. “Travel Medicine: A Quick Update.”
- 09/25/13 Nigeria Infectious Disease Society Annual Conference. “Challenges and Opportunities in Optimizing PMTCT Services in Resource-limited Settings.” Abuja, Nigeria.
- 01/17/14 University of Ghana School of Public Health, Leggon. Cardiovascular Research Training (CaRT) Program. “Study Design Considerations and Principles of Disease Screening”.
- 02/22/14 “Healthy Women = Healthy Nations: What Will It Take to Make It Happen?” Nursing Leadership in Global Health Symposium, Nashville, TN
- 09/05/14 University of Alabama at Birmingham, School of Public Health Lecture Series, 2014 Alumnus Award for Scientific Excellence. “Challenges and Opportunities in Optimizing HIV/AIDS Service Delivery in Resource-Limited Settings: Implementation Science and the Future of the HIV Epidemic”, Birmingham, AL.
- 05/27/15 National Institutes of Health. Optimizing PMTCT Services in rural North central Nigeria: Preliminary Results”. PMTCT/ PEPFAR Implementation Science Network Meeting, The George Washington University, Washington, D.C.
- 09/20/15 Korle Bu Teaching Hospital, Accra, Ghana. “Mentoring from Afar: Mutual Responsibilities, Mutual Benefits”. SPRING Trial: 2015 Meeting, Accra, Ghana.

COMMITTEES AND ADVISORY BOARDS

- 07/07 – 06/08 Graduate Medical Education Committee, Meharry Medical College
- 07/08 – 06/09 CPC Diversity Subcommittee, Mayo Clinic

03/10 – 02/12	Adolescent Health Committee, American College of Preventive Medicine
04/11/12	Conference Chair, Tennessee College of Occupational and Environmental Medicine. 2012 Spring Meeting, Franklin, TN
05/11 – 02/12	American College of Preventive Medicine. Preventive Medicine 2012 Planning Committee
11/2015	Multicultural University Courses Committee, Vanderbilt University School of Medicine
08/06 – present	MSPH Faculty Advisory Committee, Meharry Medical College
07/06 – present	Occupational Medicine Residency Advisory Committee, Meharry Medical College
05/10 – present	Occupational Medicine Residency Directors' Committee, American College of Occupational & Environmental Medicine
11/10 – present	Preventive Medicine Residency Advisory Committee, Mayo Clinic College of Medicine
06/11 – present	Co-Lead, Global HIV Scientific Working Group, Vanderbilt-Meharry Center for AIDS Research
09/11 – present	Preventive Medicine Residency Advisory Committee, Meharry Medical College
11/12 – present	Diversity Committee, MPH Program, Vanderbilt University
10/12 – present	Leadership Team, Vanderbilt Institute for Global Health
06/14 – present	Medical School Interviews Admission Committee, Vanderbilt Univ School of Medicine
05/14 – present	Appointments, Promotion and Tenure Committee, Department of Health Policy, Vanderbilt University School of Medicine
04/15 – present	MPH Advisory Committee, Vanderbilt University School of Medicine
06/15 – present	Vanderbilt Institute for Global Health, Faculty Search Committee
10/16-	International Strategy Working Group, Vanderbilt University

TEACHING ACTIVITIES

2004	Guest Lecturer, IH 600 Global Health Principles and Practice, University of Alabama at Birmingham
2004–05	Teaching Assistant – IH 601: Tropical Infectious Diseases- University of Alabama at Birmingham
2005–06	Guest Lecturer, IH 608 Project Planning and Evaluation in International Health, University of Alabama at Birmingham
2005–14	Guest Lecturer, IH 601 Tropical Infectious Diseases, Poliomyelitis: Disease Epidemiology and Progress toward Eradication, University of Alabama at Birmingham
2006–07	Instructor, MSPH 73601, Research Design, School of Graduate Studies & Research, Division of Public Health Practice, Meharry Medical College
2008	Instructor, MSPH 71401 Epidemiology II (Advanced) School of Graduate Studies & Research, Meharry Medical College
2009	Co-Instructor, Preventive Medicine and Public Health Course, Mayo Medical School
2010	Instructor, MSPH 70001 Epidemiology I. School of Graduate Studies & Research, Division of Public Health Practice, Meharry Medical College
2010–11	Guest Instructor, Global Health Emphasis Course, Vanderbilt University
2012–15	Instructor, MSPH 71701, Occupational Health I, School of Graduate Studies & Research, Meharry Medical College
2013–15	Instructor, MSPH 71701, Occupational Health II, School of Graduate Studies & Research, Meharry Medical College
2013–14	Instructor, Foundational Skills in Global Health, Vanderbilt University
2015–	Instructor, Essential Skills in Global Health, Vanderbilt University

MENTORING AND RESEARCH SUPERVISION

Vanderbilt University Medical Center

- Deidra Parrish, MD, MPH&TM (former FICRS-F fellow; now Infectious Diseases Physician, Lentz Public Health Center, Metro Health Department, Nashville, TN)
- Jessica Islam, BS (MPH program, Vanderbilt University School of Medicine)
- Jacqueline Renner-Bangura, FNP (DNP program, Vanderbilt University School of Nursing)
- Angela Boehmer, RN (MPH program, Vanderbilt University School of Medicine)
- Shellese Shemwell, BS (MPH program, Vanderbilt University School of Medicine)

- Kidane Sidarko, BS (MPH program, Vanderbilt University School of Medicine)

Meharry Medical College, School of Graduate Studies and Research, MSPH Program

- Kristal Brown, MSPH (now Health Site Leader, CASTLES Program, Vanderbilt University)
- Angel Moore, MSPH (now Research Coordinator, Duke Clinical Research Institute, Duke Univ)
- Parul Patel, MSPH (now CEO, Homewatch CareGivers, Nashville)
- Heather Snell, MSPH (now Program Coordinator, Meharry Medical College)
- Calandra Whitted, MSPH (now PhD student, University of Texas Sch of Public Health, Houston)
- Julie Dunlap, BS (MSPH program, Meharry Medical College)

Meharry Medical College, Occupational Medicine Residency Program

- Zhiqiang Chen, MD, PhD (now Occupational Medicine Attending, Kaiser Permanente, CA)
- Wilson Esemé, MD, MSPH (now Medical Director, General Electric, Louisville, KY)
- Sajidkhan Pathan, MD, MPH (now Occupational Medicine Attending, Aurora Health Care, WI)
- Marc Watkins, MD, MSPH (now Regional Medical Director, Southeast, Concentra Health)
- Asher Turney, MD, MSPH (Statewide Medical Director at Centurion Managed Care, Nashville, TN)
- Vivian Onunkwo, MD, MSPH (now Attending Physician, Affinity Health System, WI)
- Bhavana Anand, MD, MPH (now Attending Physician in Twin Cities, MN)
- Elmag Nchako, MD, MPH (now Attending Physician, Baptist Health, Louisville, KY)
- Pete Obeng, MD (now Attending Physician, US HealthWorks, Philadelphia)
- Rakhee Urankar, MD (Chief Resident, Occupational Medicine Residency Program, MMC)
- Robert Carver, MD (now Attending Physician, Concentra Urgent Care, TN)
- Ada Egbuji, MD (Resident, Occupational Medicine Residency Program, MMC)
- Jose Jeune, MD (Resident, Occupational Medicine Residency Program, MMC)
- Ifeoma Ogbonna, MD (Resident, Occupational Medicine Residency Program, MMC)

Tulane University, School of Public Health, MPH program

- Ibrahim Yola, MBBS (MPH program, Tulane University)

University of South Florida, Occupational Medicine Residency Program

- Vikas Jindal, MD, MPH
- Delphine Fontcha, MD, MPH

Aminu Kano Teaching Hospital, NIGERIA

- Najibah Galadanci, MBBS, MPH (Consultant Hematologist, Aminu Kano Teaching Hospital, Nigeria, past Satcher Fellow, MPH graduate, Vanderbilt University)
- Ibraheem Karaye, MBBS (MPH program, Texas A&M University)
- Amal Galadanci, MBBS (Consultant Hematologist, Aminu Kano Teaching Hospital, Nigeria)
- Aisha Adamu, MBBS (Consultant Public Health Physician, Aminu Kano Teaching Hospital, Nigeria)

RESEARCH GRANT SUPPORT

Ongoing Research Support

R01 NS094041-01, (Aliyu/Debaun/Galadanci)

06/01/2015 – 05/31/20

NIH/NINDS/FIC

\$1,020,000.00.

Primary Prevention of Strokes in Children with SCD in Sub-Saharan Africa ('SPRING' Trial)

This dual-center randomized Phase III clinical trial is a continuation of our successful feasibility trial (1R21NS080639), with a goal of determining the efficacy of moderate (20 mg/kg/day) vs. low dose (10 mg/kg/day) hydroxyurea therapy for primary stroke prevention in children with sickle cell anemia in Ghana and Nigeria.

Role: Multiple Principal Investigator

U2GGH00922-02 (Gebi, PI)
CDC-GAP

11/01/15-09/29/16
\$76,314.00

Prime recipient: Friends for Global Health Initiative in Nigeria (FGHiN)

Engaging Indigenous Organizations to Sustain HIV/AIDS program in Nigeria

This service program supports the provision of sustainable, high quality HIV/AIDS services to target populations in Kano, Kaduna, and Gombe states of Nigeria in the most cost effective manner with the active involvement of government, civil society and host communities.

Role: Sub-award PI/Chief Technical Advisor

TRF12630, (Aliyu/Debaun/Jordan/Galadanci)
Thrasher Research Foundation

07/01/16-06/30/19
\$110,319.00

Moderate Dose Hydroxyurea for Stroke Prevention in Children with Sickle Cell Disease in Sub-Saharan Africa (SPRINT)

The aims of this RCT are to assess the efficacy of moderate dose HU therapy for secondary stroke prevention when compared to low dose HU therapy among children with SCA and to determine whether moderate HU therapy decreases the rate of all-cause hospitalizations when compared to low dose HU therapy.

Role: Co-Principal Investigator

VUMC55996 (200-2015-63553) (Yarbrough, PI)
U.S. Centers For Disease Control and Prevention (CDC)

09/01/15 - 08/31/18
\$800,728.00

Monitoring and Coordinating Personal Protective Equipment (PPE) in Healthcare to Enhance Domestic Preparedness for Ebola Response

The PRO project seeks to develop a prototype for a national surveillance system to monitor Personal Protective Equipment (PPE) supply and effective use in preparation for pandemic pathogen events or a bioterrorist attack.

Role: Investigator

Completed Research Support

1R01HD075075-01 (Aliyu, PI)
NIH/NICHHD/PEPFAR

09/28/12 – 06/30/16
\$895,072.00.

Optimizing integrated PMTCT services in rural North-Central Nigeria

This parallel, cluster randomized trial evaluates the impact of a family-focused PMTCT package that includes: 1) task-shifting to lower-cadre providers at PMTCT sites; 2) Point of care CD4+ cell count testing; (3) Integrated mother-infant care; and (4) a prominent role for influential family members (male partners), working in close partnership with community-based health workers/volunteers.

Role: Principal Investigator

2010-04628 (Husaini, PI)
U.S. Department of Agriculture. National Institute of Food and Agriculture

02/14/11 – 02/13/16
\$4,600,000.

Nashville Children Eating Well (CHEW) for Health.

This childhood obesity prevention initiative is a collaboration between Tennessee State University, Meharry Medical College, Vanderbilt University and community stakeholders. The objective of the project is to prevent obesity in children through research, extension and education, with a focus on African-American and Hispanic families.

Role: Investigator

1U84DD000443-01 (Zoorob, PI)

10/01/11 – 09/30/14

US Department of Health and Human Services, Centers for Disease Control and Prevention. \$300,000/year
Southeast Regional Fetal Alcohol Spectrum Disorders Training Center.

The Southeast Regional Fetal Alcohol Syndrome Training Center is a research and training center dedicated to FASD Prevention and to the meaningful assessment, diagnosis and treatment of individuals and families coping with FASD. The mission of the center is to improve the knowledge and skill of health professionals in the southeast US regarding FASD recognition, diagnosis, treatment, management, and prevention.

Role: Investigator

1U2GPS001063-01 (Vermund, PI)
CDC-GAP

08/01/08 – 10/31/13
\$2,800,000/year

Vanderbilt Institute for Global Health Team Program for HIV Prevention & Care in Nigeria.

This service program supports the provision of sustainable, high quality HIV/AIDS services to target populations in rural northcentral Nigeria in the most cost effective manner with the active involvement of government, civil society and host communities.

Role: Program Director

World Health Organization, African Regional Office (Vermund/Kipp, MPIs)

09/01/12 – 12/31/13

Factors Influencing Changes in Child Survival in sub-Saharan Africa from 1990 to 2010. \$116,501.00

Tremendous progress in reducing under-five mortality rates has occurred across sub-Saharan Africa in the past 20 years, but these changes have varied across the 46 countries in the region. This study will analyze the key factors contributing to the decline in child mortality in the region and will formulate recommendations for public health planners thereby accelerating the attainment of Millennium Development Goal #4 across the continent.

Role: Investigator

1R21NS080639-01 (DeBaun/Aliyu/Jordan)

09/30/12 – 08/31/15

NIH/NINDS/FIC

\$280,590.00

Primary Prevention of Strokes in Nigerian Children with Sickle Cell Disease ('SPIN' Trial)

The purpose of this feasibility study is to determine the acceptability of randomization to hydroxyurea vs. placebo for primary prevention of strokes in Nigerian children with sickle cell anemia in preparation for a NIH-sponsored multicenter, phase III Trial.

Role: Multi-Principal Investigator

Doris Duke Charitable Foundation (DeBaun/Aliyu, Multiple PIs)

01/01/13 – 12/31/15

Clinical and Translational Research Training in Northern Nigeria

\$100,000.00

This career development training program for physicians and medical students will nurture the next generation of leaders in clinical and translational research in sickle cell disease in northern Nigeria.

Role: Co-Principal Investigator

PUBLICATIONS AND PRESENTATIONS

Articles in Refereed Journals:

1. Aliyu ZY, **Aliyu MH**, McCormick K. Determinants for hospitalization in “low-risk” community acquired pneumonia. *BMC Infectious Diseases*. 2003; 3(1):11.
2. **Aliyu MH**, Salihu HM, Ratard R. HIV infection and Sputum-culture conversion in patients diagnosed with *Mycobacterium tuberculosis*: a population-based study. *Wiener Klinische Wochenschrift (The Middle European Journal of Medicine)* 2003;115:340-346.
3. Aliyu ZY, **Aliyu MH**, McCormick K. Determinants for hospitalization in “low-risk” community acquired pneumonia. *BMC Infectious Diseases*. 2003; 3(1):11.
4. Salihu HM, **Aliyu MH**. Sperm retrieval in infertile males: Comparison between testicular sperm extraction and testicular sperm aspiration techniques. *Wiener Klinische Wochenschrift (The Middle European Journal of Medicine)* 2003;115:370-379.
5. Salihu HM, **Aliyu MH**, Bosny JPL, Alexander GR. Levels of excess infant deaths attributable to maternal smoking during pregnancy in the United States. *Maternal and Child Health Journal* 2003;7:219-227.
6. Salihu HM, **Aliyu MH**, Ratard R. Characteristics associated with reported sputum-culture conversion in the era of re-emergent *Mycobacterium tuberculosis* in the State of North Carolina, 1993-1998. *International Journal of Tuberculosis and Lung Disease* 2003;7:1070-1076. Study findings highlighted in the John Hopkins Center for TB Research ‘Current TB News’ Nov 13, 2003 [accessible at: <http://www.hopkins-tb.org/news/11-16-2003.shtml>]
7. **Aliyu MH**, Adediran AS, Obisesan TO. Predictors of hospital admissions in the elderly: Analysis of data from the Longitudinal Study on Aging. *Journal of the National Medical Association* 2003;95:1158-67

8. Salihu HM, Tchuinguem G, **Aliyu MH**, Kouam L. Prune belly syndrome and associated malformations: a 13-year experience in a developing country. *West Indian Medical Journal* 2003;52:281-284.
9. Salihu HM, **Aliyu MH**, Rouse DJ, Kirby RS, Alexander GR. Potentially preventable excess mortality among higher-order multiples. *Obstetrics and Gynecology* 2003;102:679-684.
10. **Aliyu MH**, Salihu HM. Tuberculosis and HIV disease: Two decades of a dual epidemic. *Wiener Klinische Wochenschrift (The Middle European Journal of Medicine)* 2003;115:685-697.
11. **Aliyu MH**, Salihu HM, Kouam L. Eagle-Barrett Syndrome: Occurrence and Outcome. *East African Medical Journal* 2003;80:595-597.
12. **Aliyu MH**, Salihu HM, Blankson ML, Alexander GR, Keith L. Risks in triplet pregnancy: advanced maternal age, premature rupture of membranes and risk estimates of mortality. *Journal of Reproductive Medicine* 2004;49:721-726.
13. Salihu HM, Adamu YM, Aliyu ZY, **Aliyu MH**. Pregnancy-associated morbidity in Northern Nigeria. *Journal of Obstetrics and Gynaecology* 2004;24:369-373.
14. **Aliyu MH**, Aliyu SH, Salihu HM. Female genital tuberculosis: a global review. *International Journal of Fertility and Women's Medicine* 2004;49:123-36. Study findings highlighted in the John Hopkins Center for TB Research 'Current TB News' Aug 22, 2004 [accessible at: <http://www.hopkins-tb.org/news/8-22-2004.shtml>]
15. Salihu HM, Shumpert MN, **Aliyu MH**, Alexander MR, Kirby RS, Alexander GR. Stillbirths and infant deaths associated with maternal smoking among mothers aged ≥ 40 years: a population study. *American Journal of Perinatology* 2004;21:121-129. Article findings highlighted in the news media "Library Watch" and accessible at: http://www.projectcork.org/newsletters/library_watch/2004/summer/pdf/Nicotine.pdf
16. Obisesan TO, **Aliyu MH**, Adediran A, Bond V, Maxwell CJ, Rotimi C. Correlates of serum lipoprotein (a) in children and adolescents in the United States: the 3rd National Health and Nutritional Examination Survey (NHANES III). *Lipids in Health and Disease* 2004;3(1):29. Article findings highlighted in the news media 'Lipidology News' Dec 23, 2004 [accessible at: <http://www.incirculation.net/index.asp?did=18471&aid=43978&usechannel=LIP>]
17. Salihu HM, **Aliyu MH**, Kirby RS, Alexander GR. Effect of advanced maternal age on early mortality among quadruplets and quintuplets. *American Journal of Obstetrics and Gynecology* 2004;190:383-388.
18. Salihu HM, **Aliyu MH**, Rouse DJ, Kirby RS, Alexander GR. The association of parity with mortality outcomes among triplets. *American Journal of Obstetrics and Gynecology* 2004;190:784-789.
19. Kabir M, Iliyasu Z, Abubakar IS, **Aliyu MH**. Perception and Beliefs about Mental Illness among Adults in Karfi Village, northern Nigeria. *BMC International Health & Human Rights* 2004;4:3.
20. Aliyu SH, **Aliyu MH**, Salihu HM, Parmar S, Curran MD. Rapid detection and quantitation of Hepatitis B virus DNA by Real-Time PCR using a new fluorescent (FRET) detection system. *Journal of Clinical Virology* 2004;30:191-195. Listed in *The ScienceDirect TOP25 Hottest Articles* July- Sept 2004.
21. Salihu HM, Emusu D, **Aliyu MH**, Kirby RS, Alexander GR. Low maternal age and neonatal survival of extremely preterm twins (20-28 weeks). *Obstetrics and Gynecology* 2004;103:1246-1254.
22. Salihu HM, **Aliyu MH**, Alexander GR. The relationship between paternal age and early mortality of triplets in the United States. *American Journal of Perinatology* 2004;21:51-59.
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1. **Aliyu MH**. Epidemiology II. Study Design. In: Mayo Clinic Preventive Medicine and Public Health Board Review. Prathibha Varkey, ed. Oxford University Press, 2010.
2. **Gorty A, Aliyu MH**. Tuberculosis in Pregnancy. In: Textbook of Preconceptional Medicine and Counseling. Louis Keith, ed. Sapiens Publishing, 2010.
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