

BIOGRAPHICAL SKETCH

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NAME Benjamin Richard H. Muthambi, DrPH, MPH	POSITION TITLE <i>State HIV Epidemiologist</i> (Disease Control & Prevention)		
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>	YEAR(s)	FIELD OF STUDY
-Medical University of Southern Africa (MEDUNSA), Pretoria, South Africa	MBChB <i>(Not Completed)</i>	1982-1987	Medicine & Surgery
-University of the Witwatersrand Johannesburg, South Africa	BSc	1989-1991	Medical Physiology & Genetics
-Columbia University, Mailman School of Public Health, New York City, USA	MPH	1992-1994	Epidemiology
-Columbia University, Mailman School of Public Health,	DrPH	1994-1998	Epidemiology
-New England Epidemiology Institute (NEEI), Boston, USA	Advanced Epidemiology Certificate	1995 (Summer Program)	Epidemiology

A. Positions and Merit Awards.

Research and Field Experience

- 11/2003-Present** Section Leader/State HIV Epidemiologist, HIV/AIDS Investigation Section, PA Dept. of Health, Harrisburg, PA, USA.
The position served as the Principal Investigator/state HIV Epidemiologist responsible for statewide Disease Intervention Epidemiology/Disease Control & Prevention Projects (Public Health Intervention Programs for HIV and related STDs, TB and Viral Hepatitis) through 10/2006 and is now Section Leader, HIV/AIDS Investigation Section. Also serves as principal Epidemiology consultant supporting HIV (and related diseases) public health intervention program planning, development, implementation, outcome evaluation, including providing training in utilization of Epidemiologic methods and data in this applied public health context. Still serves in the Pennsylvania Department of Health's Institutional Review Board (IRB) – primary area of interest on the IRB is on study designs & their ethical implications.
- 10/1998-11/2003:** State HIV Epidemiologist (Project Director and Principal Investigator), Pennsylvania Dept. of Health:
This position served as the Principal Investigator (PI) of the State of Pennsylvania's statewide HIV/AIDS Surveillance and Epidemiologic research projects in collaboration with the US Centers for Disease Control (CDC)'s National HIV/AIDS Reporting System, and also served as the primary Epidemiology consultant to the state's HIV/AIDS (and related disease) prevention and care planning bodies. Also serves in the Pennsylvania Department of Health's Institutional Review Board (IRB) – primary area of interest on the IRB is on study designs & their ethical implications.
- 10/1999-Present:** Member, Institutional Review Board, Pennsylvania Department of Health, Harrisburg, PA, USA.
- 6/1998-10/1998:** Snr. Research Scientist, Parasitic Disease Surveillance Unit, Bureau of Communicable Diseases, New York City Department of Health, NY, USA.
Evaluation Project: Evaluation of sentinel surveillance of parasitic diseases in NYC.
This was a full-time position serving as the Principal Project Epidemiologist and deputy to the Unit Director, developed a research plan for a 2-year evaluation of the outbreak detection ability of the City of New York's parasitic disease sentinel surveillance program.
- 3/1996-6/1998:** Research Scientist (& Asst. Epidemiological Liaison to the PPG), Office of Epidemiologic Liaison to the NYC HIV/AIDS Prevention Planning Group (PPG). Bureau of Disease Intervention Research, NYC Department of Health, NY, USA.
This full-time position provided HIV/AIDS Epidemiology and Statistical consultation to the PPG. The PPG is a CDC-mandated HIV/AIDS prevention planning body that advises the New York City Department of Health (NYC DOH) on strategic planning and implementation of HIV prevention programs.
- 7/1995-9/1995:** Fellow, on Field Assignment (8 Provinces, S. Africa), Columbia University School of Public Health, Division of Epidemiology Consulting, Feasibility Assessment & Research Protocol Development: Field Work for Proposed Research Project to Investigate Impact of HIV on TB in S.A. Field trip funded by NIH Fogarty International Fellowship to consult national, provincial and city health departments' TB control programs, research/ academic institutions and communities on proposed research and training project to investigate the impact of HIV on TB in S.A.
- 9/1994-5/1995:** Assistant Research Scientist (CTI Specialist), Research Foundation for Mental Health, Columbia Presbyterian Medical Center, N.Y., N.Y., U.S.A.
Critical Time Intervention (CTI) Mental Health Program: Collaborated in program-wide implementation of a clinical intervention developed in a previous randomized clinical trial (see previous research work at CTI in next sections).
- 1/1994-5/1994:** Independent Visiting Research Fellow (on UN ETPSA fellowship), University of the Witwatersrand Medical School, Department of Community Health Johannesburg, S. Africa
Wits Dept. of Community Health served as a host for Master's Field Work: Early Findings on impact of HIV on TB in S.A.

- 9/1992-12/1993:** Graduate Research Assistant, Columbia University, College of Physicians and Surgeons, Department of Psychiatry, Critical Time Intervention Project (CTI), N.Y., N.Y., U.S.A.
Collaborated in randomized clinical trials (CTI) assisting in coordination of data collection including administration of research interview instruments: Sexual Risk & Behavioral Assessment Schedule (SERBAS), Structured Clinical Interview for DSM-III (SCID-R), Positive and Negative Syndrome Scale (PANSS), Quality of Life, etc., computerized storage, monitoring and preliminary data analysis. The trials investigated the effectiveness of providing clinical support services to prevent homelessness and HIV / AIDS in a homeless mentally ill male population during the transition from living in the Ft. Washington Men's Shelter to community living.
- 5/1992-9/1992:** Research Assistant, Sergievsky Center, Columbia University, N.Y., N.Y., U.S.A.
White Matter Study: This was a Birth Cohort Study investigating antecedents of neuro-developmental disorders. Trained in data collection, monitoring computerized data capture (scannable form data capture); also conducted literature searches and reviews for senior investigators.
- 12/1990-12/1991:** Regional Director/Coordinator, National Coordinating Committee for Repatriation of South African Exiles (NCCR) Pretoria-Witwatersrand-Vaal, (now Gauteng Province). Johannesburg, South Africa.
This executive director position reported to the Regional Executive Committee (REC). Entailed overall management of regional office and field operations of the NCCR, integrating up to 20,000 returning exiles to South Africa; the NCCR was the main implementing partner to the United Nations High Commissioner of Refugees (UNHCR). Managed 16 operational and admin. personnel and over 40 volunteers, and finance management (preparation of funding proposals, budgets and monthly financial statements) and international fund-raising on a multi-million dollar (U.S. \$) operating budget. The NCCR provided services in health, counseling and welfare; education and training; income generation, development and integration; legal protection; housing; transport and logistics. Resigned in December 1991 to resume career in Public Health.

Other Experience and Professional Memberships

-Academic & Curricular Experience

- Fall, 2005 - Present** Managing Director & Applied HIV Epidemiology Fellowship Preceptor: Operations Management and provide preceptorship to post-graduate fellows' research projects. Institutes of HIV/AIDS Surveillance & Epidemiology (IHASE <http://www.ieph.org/hase/ihase.htm>), an initiative of the Institutes of Epidemiology & Public Health, Inc.
- Fall, 2005 - Present** Managing Editor: Journal of HIV/AIDS Surveillance & Epidemiology (JHASE), an initiative of the Institutes of Epidemiology & Public Health, Inc. <http://www.ieph.org/hase/jhase.htm>
- Spring, 2001- Present** Program Director, Applied HIV Epidemiology Track/Training Program (short courses/workshops, short-term internships, and long-term fellowship training program), in affiliation with the PA Department of Health's Public Health Institute (PHI <http://www.health.state.pa.us/phievent>), the Council of State and Territorial Epidemiologists' CSTE/CDC Applied Epidemiology Fellowship Program (http://www.cste.org/Workforcedev/pdf/Pennsylvania_Muthambi.pdf <http://www.cste.org/Workforcedev/main1.htm>), and the Penn State University Woodward Endowment-HIV Clinical and Public Health Research Curriculum (<http://www.hmc.psu.edu/infectiousdiseases>).
- 1/2001-11/2001:** DrPH Dissertation Study Preceptor, PA Dept. of Health/University of Pittsburgh - Epidemiology DrPH Dissertation Sponsorship tenable at the Pa Dept of Health, Harrisburg, PA, USA.
Dissertation research project sponsor and preceptor for a Doctoral Dissertation study based on HIV/AIDS surveillance cohort examining 'Survival after diagnosis with AIDS in Southwest Pennsylvania'.
- 11/2001:** Visiting Lecturer, City University of New York - Medical School, N.Y., U.S.A.
Lectured Topic: in Epidemiology Course for Medical Students: The dynamic cohort study design with an example of an applied epidemiology study and results of a survival study based on an HIV/AIDS surveillance cohort.
- 2/2002:** Visiting Lecturer, National School of Public Health at MEDUNSA (Medical University of Southern Africa), Pretoria, SA
Lectured Topics: in HIV/AIDS Screening & Surveillance - AIDS in Society Course: HIV/AIDS Screening and Surveillance and Linkage of screening and surveillance to prevention and care services; topics were part of "AIDS in Society" course in the Secure the Future Program, a training initiative sponsored by Bristol-Myers Squibb; Introductory courses delivered live for 2 weeks and subsequent 6 months through internet-based/online distance-learning platforms.
- Fall, 1995:** Teaching Assistant, Columbia University School of Public Health, Epidemiology Division. N.Y., U.S.A.
Masters' and Doctoral Course: Principles of Epidemiology III: Assisted Instructor with some aspects of presentation of course material. Consulting with 45 masters' students in Epidemiology, supervising and grading assignments and exams. Development of feedback on assignments and course content to course instructors.
- Fall, 1994:** Teaching Assistant, Columbia University School of Public Health, Epidemiology Division. N.Y., U.S.A.
Master's Core Course: Principles of Epidemiology I: Conducted discussion/lab sections of weekly lectures for 20 masters' students. Consulting with students, supervising and grading assignments and exams. Development of feedback on assignments and course content to course instructors.
- Fall, 1994-1999:** Visiting Lecturer, Columbia University S.P.H., Health Policy & Management Division. N.Y., N.Y., U.S.A.
Topic co-lectured: in Master's Course: Comparative Health Systems: "Health Care Reform in South Africa: Beyond Apartheid Health", with some comparisons on employer-employee contributions in the U.S and German Health Systems; and universal franchise in the the NHS in the U.K., Canada and Cuba

1/1989-12/1990: Projects Subcommittee Co-Convenor, University of the Witwatersrand - SA National Students Congress (SANSCO), Johannesburg, S. Africa.
Member of sub-committee on academic programs & other curricular issues of Student Representative Council(SRC).

-Training Fellowship Merit Awards

6/1994-4/1996: Fellow, NIH/FIC-AITRP (*NIH Fogarty International Center - AIDS International Training and Research Program*)
Selected and awarded merit fellowship for NIH / Fogarty-sponsored training towards Doctor of Public Health (DrPH) program course work in Epidemiology (Infectious Diseases and HIV / AIDS Epidemiology) tenable at the Columbia University Mailman School of Public Health.

1/1993-10/1994: Fellow, UN/UNETPSA (United Nations Educational and Training Program for South Africans)
Selected and awarded merit fellowship for UN/UNETPSA-sponsored training towards Master of Public Health (MPH) program in Epidemiology (Communicable Diseases and HIV / AIDS Epidemiology) tenable at the Columbia University Mailman School of Public Health.

-Professional Memberships

1994-Present: Member, American Public Health Association (APHA), Epidemiology & International Health Sections;

2000-Present: Member, Council of State & Territorial Epidemiologists (CSTE);

B. Selected peer-reviewed work and other publications: (in reverse chronological order).

1. Peer reviewed work:

(contributions: * presenter, ^1st author, ~data analyst, ¶Contributor & Reviewer)

-Muthambi B^~, Adeseun QA, Folby J. "Estimates of Unmet Needs for HIV-related Primary Medical Care Services among Enrollees of Publicly-funded Medical Assistance and AIDS Drug Assistance Programs in Pennsylvania". 2007 Annual Conference of the Council of State and Territorial Epidemiologists, Atlantic City, New Jersey, USA. June 2007.

< <http://www.cste.org/annualconference/abstracts/absbook.asp?ID=2259> >

-Ferraro A^~, Muthambi B~ "Completeness of HIV/AIDS Reporting /Coverage in PA: Missed Opportunities for Surveillance-based Linkage to Care and Prevention for Persons with Unmet Needs for HIV Related Primary Medical Care". 2007 Annual Conference of the Council of State and Territorial Epidemiologists, Atlantic City, New Jersey, USA. June 2007.

< <http://www.cste.org/annualconference/abstracts/absbook.asp?ID=1963> >

-Muthambi BRH^~, "Trends of HIV/AIDS and Potential for Heterosexually Acquired HIV Among Women in Pennsylvania, 1980—2004". In supplement to Counter Details, (*A Bulletin of the Pennsylvania Medical Society's Center for Professional Drug Education*). 2006 May; 1(1S): 1-8.

< http://www.pamedsoc.org/Content/ContentGroups/Clinical_and_Public_Health/HIVTrends_05.06CounDetSupp.pdf >

-Muthambi BRH^¶, (State Contributor and Reviewer for US National HIV Epidemiologic Profile Development Guidelines): Centers for Disease Control and Prevention, and Health Resources and Services Administration, "Integrated Guidelines for Developing Epidemiologic Profiles: HIV Prevention and Ryan White CARE Act Community Planning". Atlanta, Georgia: Centers for Disease Control and Prevention; 2004.

< http://www.cdc.gov/hiv/PUBS/epi_guide/epi_guidelines.pdf >

-Muthambi BRH^~, "Changes in the HIV/AIDS Epidemic in Pennsylvania". Counter Details, (*A Bulletin of the Pennsylvania Medical Society's Center for Professional Drug Education*). 2004 Winter; 16-18.

< http://www.pamedsoc.org/Content/ContentGroups/Clinical_and_Public_Health/HIVCounterDetails2004.pdf >

-Godin S., Cardelle A. and Muthambi BRH~. "Findings of a Regional Gap Analysis Using Mapping Software to Assess Unmet HIV Prevention Needs". In book of Abstracts # T1-B15-06, 2003 National HIV Prevention Conference. Atlanta, Georgia, USA. Oral Slide Presentation: Infectious Diseases Section. July 2003.

< http://gateway.nlm.nih.gov/robot_pages/MeetingAbstracts/102261945.html >

-Muthambi BRH^~, "Improving Survival after Diagnosis with AIDS in Pennsylvania (PA) Preceding the Widespread Use of Highly Active Antiretroviral Therapy (HAART)". In book of Abstracts # TP-061, 2003 National HIV Prevention Conference. Atlanta, Georgia, USA. July 2003.

< http://gateway.nlm.nih.gov/robot_pages/MeetingAbstracts/102262168.html >

-Muthambi BRH^~, "Improving Survival after Diagnosis with AIDS in Pennsylvania (PA) Preceding the Widespread Use of Highly Active Antiretroviral Therapy (HAART)". 2003 Annual Conference of the Council of State and Territorial Epidemiologists, Hartford, Connecticut, USA. One of 3 Invited Keynote Oral Presentations in the Infectious Diseases Section. June 2003.

< <http://www.health.state.pa.us/hiv-epi/extranet1.1/DOWNLOAD/EpiResources/download/app1-absQ2-01.pdf> >

-Muthambi BRH^~, "Name-based vs. Code-based Surveillance of HIV/AIDS in the United States: A Comparative Review of the Feasibility/Evidence of Fulfillment of Necessary Characteristics of a Surveillance System by Two Competing Models for HIV/AIDS Surveillance. XIII International AIDS Conference, Durban, South Africa. July 2000.

< http://gateway.nlm.nih.gov/robot_pages/MeetingAbstracts/102239596.html >

-Colson P^~, Muthambi B~. "Factors Affecting Imagined Adherence to Tuberculosis Treatment." *Third Annual Conference, Society for Social Work and Research*, Austin TX, January 1999.

< <http://www.ieph.org/hase/pubs/tbadher.htm> >

-Muthambi, BRH^~ "AIDS in the Epicenter after 15 Years: Epidemiologic Surveillance and Survival Studies on AIDS in New York City, 1980-1994." *Published and permanently archived at the Columbia University Health Sciences Library, (submitted in partial fulfillment of DrPH Epidemiology degree requirements at the Columbia University School of Public Health).* May 1998.

< http://www.ieph.org/hase/pubs/bm_diss.pdf >

-Muthambi, BRH[^]; Chiasson, MA; Lehner, T & Singh, TP. "Improved Survival Time after Diagnosis with AIDS among Adults in New York City, 1980-1994." 5th Conference on Retroviruses and Opportunistic Infections, Chicago, USA. Oral Slide Presentation: Epidemiology Section. February 1998. < http://gateway.nlm.nih.gov/robot_pages/MeetingAbstracts/102235589.html >

2. Other selected reports and publications:

(*principal data analyst and ^report writer)

-Muthambi, BRH[^] et al. **Integrated Epidemiologic Profile of HIV/AIDS in Pennsylvania.** Pennsylvania Department of Health. August 2004. (Past editions. September, 1999; 2001): < <http://www.health.state.pa.us/hivepi-profile> >

Featured Abstract Series: < <http://www.dsf.health.state.pa.us/health/lib/health/hiv/EpiResources-05/EpiResources/Downloads/abstracts.htm> >

-Muthambi, BRH[^], **Variation in Impact of the HIV/AIDS Epidemic across Pennsylvania Counties in the Most Recent Era**

Preceding HAART: A Time-Spatial Mapped/GIS Analysis of the Epidemic Growth Rate. Featured Abstract – Biannual Supplement to the HIV/AIDS Surveillance Biannual Summary. Pennsylvania Department of Health. June, 2003.

-Muthambi, BRH[^], **Improving survival after diagnosis with AIDS in Pennsylvania preceding the widespread use of highly active antiretroviral therapy (HAART).** Featured Abstract – Biannual Supplement to the HIV/AIDS Surveillance Biannual Summary. Pennsylvania Department of Health. December, 2002.

-Wei, M[^]; Muthambi, BRH[^], Lehman, J[^]. **Disproportionately Lower Likelihood of Decline in the Incidence of AIDS among Blacks in Pennsylvania in the Era of Highly Active Antiretroviral Therapy; Increased Incidence among Blacks 50 years or Older After 1996.** Featured Abstract - Quarterly Supplement to the HIV/AIDS Surveillance Quarterly Summary. Pennsylvania Department of Health. March, 2002.

-Desalu, D[^]; Muthambi, BRH[^]. **Trends in Survival After AIDS Diagnosis in Southwest Pennsylvania: Implications for HIV/AIDS Service Delivery.** Featured Abstract - Quarterly Supplement to the HIV/AIDS Surveillance Quarterly Summary. Pennsylvania Department of Health. December, 2001. (Expanded and submitted towards partial fulfillment of the Doctoral Dissertation in Epidemiology by Doyin Desalu. University of Pittsburgh School of Public Health).

-Muthambi, BRH[^]. **A Cascade of Intersecting Epidemics: Injecting Drug Use, in Association with Heterosexual and Perinatal Transmission of HIV - A Source of Increasing Risk of HIV Infection in Pennsylvania.** Featured Abstract - Quarterly Supplement to the HIV/AIDS Surveillance Quarterly Summary. Pennsylvania Department of Health. September, 2001.

-Muthambi, BRH[^]. **Improving Survival after Diagnosis with AIDS in Pennsylvania (PA) Cascade of Intersecting Epidemics: Injecting Drug Use, in Association with Heterosexual and Perinatal Transmission of HIV - A Source of Increasing Risk of HIV Infection in Pennsylvania.** Featured Abstract - Quarterly Supplement to the HIV/AIDS Surveillance Quarterly Summary. Pennsylvania Department of Health. June, 2001.

C. Research Grants Support and Training Fellowship Merit Awards

Major Ongoing Research Support

Grant#: U62/CCU324423-02

Muthambi (PI)

Award Period: 6/01/05 –5/31/08

CDC/NCHSTP/DHAP

(to be renewed for 3 more years)

Title: Morbidity and Risk Behavior Surveillance Project: HIV/AIDS Medical Monitoring Project (MMP)

The primary objective of MMP is to gain a better understanding of health-related needs and disease progression issues of people living with HIV and AIDS, and to elucidate health-related disparities in HIV risk-taking and health seeking behavior, HIV-related unmet needs for primary medical care, provision of treatment, adherence to treatment, and clinical outcomes.

Role: *Principal Investigator*, responsible for conceptualization, design, development of project research plans, and oversight of study implementation.

Other Major Studies Underway Are Funded By State Funds

Major Completed Research Support

Grant#: U62/CCU323567-01

Muthambi (Co-PI)

Award Period: 4/01/04 –12/31/06

CDC/NCHSTP/DHAP

Title: HIV/AIDS Surveillance

The goal of HIV surveillance & Epidemiologic studies is to conduct research on a) HIV incidence, b) AIDS incidence, c) perinatal exposure to HIV, and d) the prevalence and transmission of variant, atypical and resistant HIV strains in Pennsylvania.

Sub-project awards: HIV Incidence and Resistance Surveillance Projects.

Role: *Co-Principal Investigator*, responsible for conceptualization, design and development of project research plans.

Grant#: U62/CCU306214-12-2

Muthambi (PI)

Award Period: 1/01/00 –12/31/03

CDC/NCHSTP/DHAP

Title: HIV/AIDS Surveillance and Seroprevalence

The goal of HIV/AIDS surveillance & Epidemiologic studies is to conduct research on a) AIDS incidence and b) perinatal exposure to HIV in Pennsylvania.

Sub-project awards: Enhanced Perinatal (HIV exposure) Surveillance;

Role: *Principal Investigator*, responsible for conceptualization, design and development of research plan, overall oversight of implementation, and ultimate scientific integrity of the project.