

SAMUEL MUHULA

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CAREER PROFILE

An epidemiologist with expertise in monitoring and evaluation, statistical data analysis, impact evaluation, implementation science and operations research in Kenya. Over 8 years hands on experience in designing and institutionalizing monitoring and evaluation systems, designing and conducting impact evaluations. Has hands on expertise in quantitative data analysis using SPSS, STATA and SAS; vast experience in developing project proposals, concept papers and study protocols in the following programming areas:- HIV/AIDS, TB and Malaria, Reproductive Maternal Neonatal Child and Adolescent Health (RMNCAH), Water Sanitation and Hygiene (WASH).

Practical experience with designing M&E systems responsive to the needs of development partners such as USAID, Global Fund, Comic Relief, EC and DfID.

Technical lead in implementation and measurement of continuous quality improvement (CQI) activities.

Trainer of staff in CQI, designing and implementing impact evaluations, research protocols development, manuscripts development and publications in peer reviewed journals. Part time lecturer in Biostatistics at Moi and JKUAT universities.

AREAS OF EXPERTISE AND COMPETENCY

- Monitoring and Evaluation
- Impact evaluation
- Implementation research
- Operations research
- Continuous Quality Improvement
- Quantitative Data Analysis

PROFESSIONAL EXPERIENCE

08/2013– To date: Monitoring Evaluation and Research Manager at Amref Health Africa in Kenya

- Lead all aspects of Monitoring Evaluation and Research within Amref by providing leadership in strategic information including monitoring project performance, implementing Health management information system (HMIS), evaluating program effectiveness/impact and efficiency and enhancing data demand and information use
- Lead in development of M&E guidelines and standard operating procedures, i.e led the development of National M&E guidelines and standard operating procedures through CDC funding of a monitoring and evaluation project in Amref.

- Developed an Integrated Programmatic Performance Management System for monitoring project performance for all 40+ projects in Amref
- Reviews all Amref project reports for quality assurance before submission to donors:- developed Donor Reports Review and Development SOP for effective management of donor reports
- Manage all project evaluations in Amref from design, report writing and results dissemination:- developed evaluations management SOP
- Lead in development of results frameworks/ theories of change during proposal development. The most recent being taking lead in writing of M&E sections and development of results framework for CDC funded care and treatment request for applications; USAID FP/RH proposals
- Lead in development of M&E plans, logical frameworks for new projects. Currently developing M&E plan for a recently funded CDC care and treatment project
- Support projects with reporting to various development partners i.e currently support three CDC and USAID funded projects with reporting through DATIM to PEPFAR. Has developed an SOP for DATIM reporting to institutionalize the process
- Provide leadership in implementation of CQI at Amref. Currently all the over 40+ project in report on quality improvement every month. Am the CQI technical lead at Amref and has developed CQI toolkit currently being used by all staff in implementation of quality improvement activities.
- Conduct project routine data quality assessments to assure the quality of reported data and reporting systems. I developed RDQA tool and guidelines currently used by all projects in Amref
- Trainer in the following areas; CQI, quantitative data analysis, implementation of routine data quality assessment, manuscripts development and publication
- Co-investigator in two operations research and implementation science projects

2010-July 2013: Monitoring and Evaluation Officer at Amref Kibera Care and Treatment Project

- Led the implementation of Care and Treatment Electronic Medical Records (EMR) system at all project sites
- Developed various SOPs to support data management at all supported sites
- Trained health care providers in MOH registers and reporting tool
- Conducted DQAs in partnership with NASCOP and quarterly supportive supervision visits in collaboration with CHMT
- Reported in time to MOH through DHIS2 and to CDC through KePMS and now DATIM

2009-2010: Monitoring and Evaluation Officer at Christian Health Association of Kenya- AIDSRelief Project

- Led in operationalization of M&E systems at the project level; Track project performance against set targets and report to CDC through KePMS; Collate and share project data with staff on monthly basis; Set performance targets for supported health facilities on yearly basis; Develop and roll out data management standard operating procedures; develop M&E plan

2008 to 2009: Data Management Officer/Data Analyst, EngenderHealth, Kisumu, Kenya- APHIA II Nyanza Program

- Coordinated M&E activities of the APHIA II Nyanza program focusing especially on systems for collecting data for measuring project implementation, quality assurance, documentation and reporting

2007 to 2008: Assistant Data Manager, KEMRI-UCSF, Kisumu, Kenya at Clinical Trial- Vivagel Study

- Created and maintained proper documentation of study files, data security, data storage and version control of study logs; Develop data collection and reporting tools, standard operating procedure for data management activities and a system of tracking flow of participants participating in the study; Report on progress, problems, consistency and quality of data on a weekly basis to the study coordinator

EDUCATION

- Doctor of Philosophy (PhD) in Epidemiology in the Institute of Tropical Medicine and Infectious Diseases (ITROMID) at Jomo Kenyatta University of Agriculture and Technology (JKUAT)- Ongoing
- Master of Science in Biometry- 2012 from The University of Nairobi, Kenya
- Bachelor of Science in Statistics- 2005 from Moi University, Eldoret, Kenya

ADDITIONAL QUALIFICATIONS AND PROFESSIONAL DEVELOPMENT

Course/Qualification	Provider	Completion Dates
• Implementation Science (Online Course)	University of Washington	03/2016
• Research Governance and Management	APHRC-Kenya	09/2015
• Critical Appraisal of Research Protocols	The University of Nairobi	07/2015
• Impact Evaluation	World Bank and APHRC	05/2015
• Advanced negotiation skills		2014
• Strategic Leadership and Management	Amref Health Africa	2013
• Data Analysis Training	Karolinska Institute	2012
• Continuous Quality Improvement	University of Maryland	2012
• Operations Research Training	Amref Health Africa	2011
• Data Demand and Information Use	Futures Group	2010

PUBLICATIONS

- Abdul Momin Kazi, MBBS, MPH; Jason-Louis Carmichael, MPH ; Galgallo Waqo Hapanna, BSC; Patrick Gikaria Wangoo, MS IT ; Sarah Karanja, MPH ; Denis Wanyama, MBCHB, MPH; **Samuel Opondo Muhula, MSc**; Lennie Bazira Kyomuhangi, MPH/HE; Mores Loolpapit, MBCHB, MPH; Gilbert Bwire Wangalwa, MS, MPH; Koki Kinagwi, MBCHB, MPH; Richard Todd Lester, MD. Assessing Mobile Phone Access and Perceptions for Texting-Based mHealth Interventions Among Expectant Mothers and Child Caregivers in Remote Regions of Northern Kenya: A Survey-Based Descriptive Study. JMIR Public Health Surveill 2017;3(1):e5 DOI: 10.2196/publichealth.5386 PMID: 28137702

- Muhamed Akulima, Rudia Ikamati, Margaret Mungai, **Muhula Samuel**, Meshack Ndirangu, Richard Muga . Food banking for improved nutrition of HIV infected orphans and vulnerable children; emerging evidence from quality improvement teams in high food insecure regions of Kiambu, Kenya. *The Pan African Medical Journal*. 2016 Nov 26; 25 (supp 2) .
- Abunah Bonface, Onkoba Rueben, Josephat Nyagero, **Samuel Muhula**, Edward Omondi, Guyah Bernard, Gregory Barnabas Omondi. Motivators and barriers to uptake of post-operative voluntary medical male circumcision follow-up in Yala division, Siaya County, Kenya. *The Pan African Medical Journal*. 2016 Nov 26; 25 (supp 2) .
- Dorah Chorong, Fredrick Majiwa Okinda, Eric Jimmy Kariuki, Emily Mulewa, Fredrick Ibinda, **Samuel Muhula**, George Kimathi, Richard Muga. Factors influencing the utilization of focused antenatal care services in Malindi and Magarini sub-counties of Kilifi county, Kenya. *The Pan African Medical Journal*. 2016 Nov 26; 25 (supp 2) .
- Duncan Ager, George Oele, **Samuel Muhula**, Susan Achieng, Moses Emalu, Mildred Nanjala, Sarah Kosgei, Susan Wanjiru, Peter Ofware, David Ojaka, Meshack Ndirangu, Lennie Kyomuhangi. A scorecard for assessing functionality of community health unit in Kenya. *The Pan African Medical Journal*. 2016 Nov 26; 25 (supp 2)
- **Muhula, Samuel**, Peter Memiah, Lilian Mbau, Happiness Oruko, Bebora Baker, Geoffrey Ikiara, Margaret Mungai, Meshack Ndirangu, Dunstan Achwoka, and Festus Ilako. Uptake and linkage into care over one year of providing HIV testing and counselling through community and health facility testing modalities in urban informal settlement of Kibera, Nairobi Kenya. *BMC Public Health* 16, no. 1 (2016): 1.
- van der Kop ML, Thabane L, Awiti PO, **Muhula S**, Kyomuhangi LB, Lester RT, Ekström AM. Advanced HIV disease at presentation to care in Nairobi, Kenya: late diagnosis or delayed linkage to care?—a cross-sectional study. *BMC Infectious Diseases*. 2016 Apr 18;16(1):1.
- van der Kop ML, **Muhula S**, Ekström AM, Jongbloed K, Smillie K, Abunah B, Kinagwi K, Kyomuhangi LB, Gelmon L, Ojaka DI, Lester RT. Participation in a mobile health intervention trial to improve retention in HIV care: does gender matter?. *Journal of Telemedicine and Telecare*. 2016 Apr 13:1357633X16643457.
- Peter Memiah, **Samuel Muhula**, Happiness Oruko, Gabriel Mahasi, Majigo Mtebe, Patience Komba, Fransesca Odhiambo, Kinagwi Koki, Margaret Mungai, Peter Ofware, George Kimathi. Adaptive Scenarios in Quality Improvement (QI): a Case Study of an International Health Development and Research Organization Embracing Change. *International Journal of Health Sciences and Research (IJHSR)*. 2015;5(11):285-91.
- Memiah P, Makokha V, Mbuthia W, Kiiru G.W, Agbor S, Odhiambo F, Ojoo S, Mbizo J, **Muhula S**, Mahasi G, Biadgilign S. Epidemiology of cervical squamous intraepithelial lesions in HIV infected women in Kenya: a cross-sectional study. *African journal of reproductive health*. 2015;19(1):133-9.
- **Muhula SO**, Peter M, Sibhatu B, Meshack N, Lennie K. Effects of highly active antiretroviral therapy on the survival of HIV-infected adult patients in urban slums of Kenya. *The Pan African Medical Journal*. 2015 Mar 11;20(1).

INTERNATIONAL CONFERENCE PAPERS

- **Samuel Muhula**, et al: Expanding HTC Coverage through Integration of Community and Facility Strategies in Kibera Informal Settlement, Nairobi Kenya. 12th TICH Annual conference in Kisumu Kenya 2015; 05/2015
- David Ojaka, Timothy Abuya, Patrick Mbindyo, **Samuel Muhula**: Factors influencing attraction and retention of primary health workers in three disparate regions in Kenya in the context of devolution. 142nd APHA Annual Meeting and Exposition 2014; 11/2014
- **Samuel Muhula**: Quality Improvement (QI) through Small Tests of Change (STOC) to Improve Health Systems in Resource-Limited Settings. 142nd APHA Annual Meeting and Exposition 2014; 11/2014
- **Samuel Muhula** et al: Effects of Highly Active Antiretroviral Therapy on the Survival of HIV-Infected Adult Patients in Urban Slums of Kenya. 1st Amref Health Africa International Health Conference 2014; 11/2014
- **Samuel Muhula** et al: Use of Monitoring Data to improve Program Performance and Achieve Quality Patient Care. Amref Health Africa in Kenya Annual Program Review meeting 2012
- **Samuel Muhula** et al: Health Facility Information Corner' EngenderHealth Global M&E workshop, Nairobi, Kenya 2009
- Andres Inglis, Michael Ochieng, **Samuel Muhula**: Linking PEPFAR reporting data to GIS to improve health programs in Kenya. Arusha, Tanzania, 2009

MEMBERSHIP

- Member of Amref Ethics and Scientific Review Committee
- Member of Kenya AIDS Research Coordinating Mechanism (KASCOM) under the leadership of NACC

LANGUAGE QUALIFICATIONS

<u>Language:</u>	<u>Speaking:</u>	<u>Reading:</u>	<u>Writing:</u>
• English	Excellent	Excellent	Excellent
• Kiswahili	Excellent	Excellent	Excellent

REFERENCES

Dr. Meshack Ndirangu', Country Director, Amref Health Africa in Kenya, Nairobi. Tel: 0724-910152 Email: meshack.ndirangu@amref.org	Dr. Peter Memiah Director of Outcomes and Evaluations, University of Florida, USA Tel : +254734-041071 E-mail: pmemiah@gmail.com	Dr.Koki Kinagwi, Chief of Party, AFYA TIMIZA Project, Amref Health Africa in Kenya, Nairobi Tel: +254 722 875 171 E-mail: koki.kinagwi@amref.org
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