## **EURASIAN EXPERIMENT JOURNAL OF PUBLIC HEALTH (EEJPH)**

ISSN: 2992-4081 ©EEJPH Publications

Volume 7 Issue 3 2025

Page | 86

# Monitoring and Evaluation: The Contribution of International Organizations in Assessing HIV/AIDS Program Effectiveness in East Africa

## **Bwanbale Geoffrey David**

Faculty of Pharmacy Kampala International University Uganda

#### **ABSTRACT**

HIV/AIDS remains a critical public health issue in East Africa, necessitating robust monitoring and evaluation (M&E) systems to assess the effectiveness of interventions aimed at controlling the epidemic. International organizations such as UNAIDS, WHO, PEPFAR, and the Global Fund play pivotal roles in supporting HIV/AIDS programs in the region by providing technical assistance, funding, and policy guidance. These organizations rely on diverse M&E methodologies, including epidemiological surveillance, program impact assessments, cost-effectiveness analysis, and qualitative research to evaluate program outcomes. Despite these efforts, significant challenges such as data inconsistencies, limited local capacity, funding constraints, and political barriers hinder the successful implementation of M&E systems. This review examines the contributions of international organizations to HIV/AIDS M&E in East Africa, the methodologies they employ, and the challenges they face. It also offers recommendations for improving M&E systems, including strengthening health information systems, building local capacity, increasing domestic funding, and promoting cross-border collaboration. Ultimately, robust M&E frameworks are essential for achieving long-term HIV/AIDS control and ensuring the sustainability of interventions in East Africa.

Keywords: HIV/AIDS, Monitoring and Evaluation, East Africa, UNAIDS, PEPFAR, WHO, Global Fund.

#### INTRODUCTION

HIV/AIDS remains a significant public health challenge worldwide, particularly in sub-Saharan Africa, where the epidemic has had devastating social, economic, and health impacts [1]. East Africa, comprising countries such as Kenya, Uganda, Tanzania, Rwanda, Burundi, and South Sudan, has some of the highest HIV prevalence rates globally [2]. According to UNAIDS, millions of people in the region live with HIV, with varying prevalence rates across countries. Uganda and Kenya, for instance, have made notable progress in reducing HIV incidence through aggressive prevention and treatment programs, while other countries continue to face structural and systemic barriers to effective HIV control [3].

Given the scale of the epidemic, international organizations such as the Joint United Nations Programme on HIV/AIDS (UNAIDS), the World Health Organization (WHO), the U.S [4]. President's Emergency Plan for AIDS Relief (PEPFAR), and the Global Fund to Fight AIDS, Tuberculosis, and Malaria have played a critical role in supporting HIV/AIDS programs in East Africa. These organizations provide funding, technical assistance, research support, and policy guidance to strengthen national HIV response efforts. However, for these initiatives to be effective, robust monitoring and evaluation (M&E) systems are necessary to track progress, ensure accountability, and optimize resource allocation [5].

Monitoring and evaluation serve as essential components of HIV/AIDS program management. M&E systems involve collecting, analyzing, and using data to assess the efficiency, effectiveness, and impact of interventions [6]. The process helps policymakers, healthcare providers, and donor agencies understand what works, identify gaps,

This is an Open Access article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/4.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited

and adjust strategies accordingly. Strong M&E frameworks also help ensure transparency, which is critical for securing continued funding from international donors and maintaining public trust in HIV/AIDS programs [7]. Despite the importance of M&E, challenges such as limited data quality, inadequate human resource capacity, insufficient infrastructure, and political constraints often hinder effective implementation in East Africa. Furthermore, different international organizations use varying methodologies and reporting standards, making it difficult to harmonize M&E efforts across the region [8]. Given these challenges, it is necessary to examine how international organizations contribute to HIV/AIDS monitoring and evaluation in East Africa, the methodologies they employ, and their overall impact on program effectiveness [9].

Despite significant investment in HIV/AIDS programs by governments, international donors, and civil society, East Africa still faces high HIV prevalence rates, new infections, and challenges in achieving UNAIDS' 95-95-95 targets [10]. These targets aim to ensure that 95% of people living with HIV know their status, 95% are on antiretroviral therapy, and 95% achieve viral suppression. However, inadequate monitoring and evaluation of these programs is a critical barrier to achieving these goals. Poor M&E frameworks result in inaccurate reporting, inefficient resource use, and failure to identify service delivery gaps [11]. Challenges in effective monitoring and evaluation include fragmented data systems, limited technical capacity, funding constraints, political interference, and stigma and underreporting. To address these issues, a critical assessment of international organizations' contributions to M&E is necessary to identify best practices, gaps, and opportunities for strengthening HIV/AIDS program evaluation in East Africa [12]. This study examines the role of international organizations in strengthening HIV/AIDS monitoring and evaluation frameworks in East Africa. It aims to examine the contributions of major international organizations, such as UNAIDS, WHO, PEPFAR, and the Global Fund, to HIV/AIDS monitoring and evaluation in the region. The study analyzes the methodologies and tools used by these organizations to assess program effectiveness, evaluates the impact of their M&E efforts on improving HIV/AIDS program outcomes, and identifies challenges and barriers that hinder effective M&E implementation. The findings hold significant value for stakeholders involved in HIV/AIDS response efforts, including policymakers, public health practitioners, international organizations, researchers, and community-based organizations. The study provides insights into how data-driven decision-making can improve HIV/AIDS program design, implementation, and effectiveness in East Africa. It also highlights the importance of robust M&E mechanisms in enhancing accountability and transparency, informs policy development, addresses data gaps and challenges, contributes to sustainable HIV/AIDS interventions, and supports regional and global HIV/AIDS goals.

HIV/AIDS remains a critical public health issue in East Africa, necessitating robust monitoring and evaluation systems to enhance program effectiveness. Challenges related to data quality, funding, technical capacity, and policy barriers continue to hinder progress. Strengthening these systems is essential for improving patient outcomes, optimizing resource allocation, and ultimately working towards the elimination of HIV/AIDS in the region.

## Role of International Organizations in HIV/AIDS M&E

International organizations play a crucial role in HIV/AIDS monitoring and evaluation (M&E), particularly in regions like East Africa. They provide technical assistance, facilitate data collection, improve surveillance systems, and ensure that interventions are making tangible progress towards reducing HIV transmission and improving care and treatment outcomes [13]. UNAIDS promotes the Global AIDS Monitoring (GAM) framework, which includes standardized indicators for tracking the effectiveness of HIV/AIDS programs. The World Health Organization (WHO) plays an essential role in supporting HIV/AIDS M&E in East Africa by helping integrate HIV-related indicators into national health information systems. WHO develops guidelines for HIV surveillance, ensuring data consistency and comparability across countries. PEPFAR, one of the largest funders of global HIV/AIDS programs, places a strong emphasis on data-driven decision-making, utilizing its Monitoring, Evaluation, and Reporting (MER) system. This system rigorously tracks the performance of HIV programs and ensures accountability for the funds allocated. The Global Fund to Fight AIDS, Tuberculosis, and Malaria (Global Fund) is another key player in the international HIV/AIDS M&E landscape. The Global Fund's unique performance-based funding model links the allocation of financial resources to measurable results, incentivizing countries to demonstrate concrete progress in their HIV/AIDS response [147]. Key features of the Global Fund's M&E approach include performance indicators, funding disbursement, and country ownership. International organizations such as UNAIDS, WHO, PEPFAR, and the Global Fund play a critical role in supporting HIV/AIDS M&E efforts in East Africa and other regions. Their focus on evidence-based decision-making, performance assessment, and continuous program improvement is vital for achieving long-term progress toward epidemic control and ultimately, the elimination of HIV/AIDS as a public health threat.

#### Methodologies Used in M&E of HIV/AIDS Programs

Monitoring and Evaluation (M&E) of HIV/AIDS programs is crucial for assessing the effectiveness of interventions, ensuring accountability, and guiding future development [15]. Key methodologies used include epidemiological surveillance, which tracks HIV incidence and prevalence, mortality and morbidity data, sentinel surveillance, which

This is an Open Access article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/4.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited

Page | 87

collects data from specific locations or populations, and program impact assessments (PIAs), which evaluate the effectiveness of specific interventions aimed at reducing HIV transmission and improving care outcomes. Epidemiological surveillance helps track trends of the epidemic, identify high-risk populations, and assess the impact of prevention and treatment programs. Key components of PIAs include prevention program effectiveness, antiretroviral therapy coverage, prevention of mother-to-child transmission, and behavioral change assessments. Cost-effectiveness analysis is another key method used to evaluate the effectiveness of interventions and their impact on outcomes. M&E of HIV/AIDS programs involves various methodologies to track progress, identify areas for improvement, and provide evidence for decision-making [16]. Epidemiological surveillance, program impact assessments, and cost-effectiveness analysis are essential for assessing the effectiveness of interventions and ensuring accountability in the ongoing fight against HIV/AIDS. Cost-effectiveness analysis (CEA) is a methodology used to assess the economic efficiency of HIV/AIDS programs by comparing the cost of interventions to the outcomes they produce. It helps policymakers prioritize the most effective and affordable programs in resourcelimited settings. Key components of CEA include cost per HIV infection prevented, cost per Quality-Adjusted Life Year (QALY), and resource allocation optimization. CEA ensures that HIV/AIDS programs are not only achieving health goals but also financially sustainable and efficient. Qualitative and quantitative research methodologies are essential for monitoring and evaluation in HIV/AIDS programs. Quantitative research focuses on numerical data collection and statistical analysis, while qualitative research seeks to understand the context, experiences, and perceptions of individuals affected by HIV/AIDS. Methods such as Focus Group Discussions, In-Depth Interviews, and Case Studies provide context for quantitative findings and insights into why certain programs are more or less effective [17]. The methodologies employed in monitoring and evaluating HIV/AIDS programs are critical for understanding their effectiveness and ensuring accountability. Combining epidemiological surveillance, program impact assessments, cost-effectiveness analysis, and qualitative and quantitative research can provide comprehensive and actionable data that informs decisions, shapes policy, and guides continuous improvement of HIV/AIDS interventions.

#### Challenges in M&E of HIV/AIDS Programs in East Africa

The Monitoring and Evaluation (M&E) of HIV/AIDS programs in East Africa faces several challenges. These include data gaps and inconsistencies, limited local capacity, and funding constraints [18]. Data collection methods vary across countries, leading to inconsistencies and ineffectiveness in generating accurate statistics. Inconsistent reporting standards and lack of real-time data also hinder the effectiveness of M&E. Local capacity is limited, with a shortage of skilled professionals, insufficient training opportunities, and weak health information systems. Funding constraints also hinder the ability to track the true impact of HIV/AIDS interventions. The sustainability of HIV/AIDS programs in East Africa is hindered by funding constraints, including reliance on external donors, insufficient national budget allocations, inconsistent funding for data systems, and competition for resources. To address these issues, countries need to increase their financial commitment to HIV/AIDS M&E and explore innovative financing mechanisms. Political and social barriers, such as stigma, discrimination, political resistance, cultural and religious beliefs, and political instability, also limit the accuracy of data collection and implementation of programs [19]. Addressing these challenges requires multi-sectoral collaboration, strengthened local capacity, sustainable funding models, and public health campaigns.

### **Future Directions and Recommendations**

The monitoring and evaluation (M&E) of HIV/AIDS programs in East Africa is crucial for effective interventions. To improve M&E systems, international organizations and national governments should focus on strengthening Health Information Systems (HIS), enhancing local capacity building, promoting cross-border collaboration, and increasing domestic funding for M&E activities [20]. Investing in digital health technologies, integrating M&E activities with national health systems, and ensuring data quality assurance are key strategies. Building local capacity in M&E through training and professional development, strengthening local institutions, and involving communities in the process can also improve the accuracy and reliability of M&E. Promoting cross-border collaboration through standardization of data collection methods, regional networks, and harmonizing policies and protocols can enhance regional solidarity and contribute to improved M&E. Increasing domestic funding for M&E activities can also help overcome existing barriers to effective monitoring and evaluation, leading to improved HIV/AIDS outcomes in the region.

#### CONCLUSION

Monitoring and Evaluation (M&E) is crucial in assessing the effectiveness of HIV/AIDS programs, ensuring they lead to improved public health outcomes. International organizations like UNAIDS, WHO, PEPFAR, and the Global Fund have contributed to strengthening M&E systems in East Africa, providing technical assistance, funding, and policy guidance. However, challenges such as data gaps, limited local capacity, funding constraints, and political barriers persist. To address these, a multi-faceted approach is needed, including strengthening Health Information Systems (HIS) through digital technologies, enhancing local capacity building, and promoting cross-

This is an Open Access article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/4.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited

Page | 88

border collaboration. Increased domestic funding for M&E activities and integration into national budgets will reduce reliance on external donors and enhance the sustainability of HIV/AIDS programs. Achieving the 95-95-95 targets and eliminating HIV/AIDS as a public health threat will require sustained efforts to improve M&E systems. A comprehensive, data-driven approach to program evaluation can help East Africa control and eliminate the HIV epidemic, improving the health and well-being of millions.

## REFERENCES

- 1. Alum E U, Obeagu E I, Ugwu O P C, Egba S I, Ejim Uti D E, Ukaidi C U A, Echegu D A. Confronting Page | 89 Dual Challenges: Substance Abuse and HIV/AIDS. Elite Journal of HIV, 2024; 2(5): 1-8.https://epjournals.com/journals/EJHIV
- 2. Parker, E., Judge, M.A., Macete, E., Nhampossa, T., Dorward, J., Langa, D.C., Schacht, C.D., Couto, A., Vaz, P., Vitoria, M., Molfino, L., Idowu, R.T., Bhatt, N., Naniche, D., Le Souëf, P.N.: HIV infection in Eastern and Southern Africa: Highest burden, largest challenges, greatest potential. South Afr J HIV Med. 22, 1237 (2021). https://doi.org/10.4102/sajhivmed.v22i1.1237
- 3.Global HIV & AIDS statistics Fact sheet | UNAIDS, https://www.unaids.org/en/resources/fact-sheet
- 4.Agwu E, Ihongbe J. C, Ezeonwumelu J. O, Moazzam M, Lodhi M. M(2015). Baseline burden and antimicrobial susceptibility of pathogenic bacteria recovered from oral lesions of patients with HIV/AIDS in South-Western Uganda. Oral Science International, 12, (2), 59-66. https://doi.org/10.1016/S1348-8643(15)00018-
- 5. Alum, E. U., Obeagu, E. I., Ugwu, O. P. C., Samson, A. O., Adepoju, A. O., Amusa, M. O. Inclusion of nutritional counseling and mental health services in HIV/AIDS management: A paradigm shift. Medicine (Baltimore). 2023;102(41):e35673. http://dx.doi.org/10.1097/MD.00000000035673. PMID: 37832059; PMCID: PMC10578718.
- 6.Alum EU, Uti DE, Ugwu OP, Alum BN. Toward a cure Advancing HIV/AIDs treatment modalities beyond antiretroviral therapy: A Review. Medicine (Baltimore). 2024 Jul 5;103(27):e38768. doi: 10.1097/MD.0000000000038768. PMID: 38968496.
- 7.Mwaura J., N.: The Impact of Global Programs such as PEPFAR, UNAIDS, and the Global Fund on Combating HIV/AIDS in East Africa. IAAJSR. (2024).https://doi.org/10.59298/IAAJSR/2024/113.1600
- 8.Bbosa, S., Edaku, C., Kiyingi, F.P.: The Influence of Monitoring and Evaluation Methods on the Performance of Uganda Red Cross Society in Eastern Uganda. Open Journal of Social Sciences. 11, 208 (2023). https://doi.org/10.4236/jss.2023.117015
- 9.Okon, M. B., Alum, E. U., Ugwu, O. P.C., Obeagu, E. I. Curtailing HIV/AIDS Spread: Impact of Religious Leaders. Newport International Journal of Research in Medical Sciences (NIJRMS), 2023; 3(2): 28-31.https://nijournals.org/wp-content/uploads/2023/06/NIJRMS-32-28-31-2023-rm.pdf
- 10. Neel, A.H., Rodríguez, D.C., Sikazwe, I., Pillay, Y., Barron, P., Pereira, S.K., Makakole-Nene, S., Bennett, S.C.: HIV programme sustainability in Southern and Eastern Africa and the changing role of external assistance for health. Health Policy Plan. 39, i107-i117 (2024). https://doi.org/10.1093/heapol/czad091
- 11. Frescura, L., Godfrey-Faussett, P., Feizzadeh, A., El-Sadr, W., Syarif, O., Ghys, P.D.: Achieving the 95 95 95 targets for all: A pathway to ending AIDS. PLoS One. 17, e0272405 (2022). https://doi.org/10.1371/journal.pone.0272405
- 12. Mbondo, M., Scherer, J., Aluoch, G.O., Sundsmo, A., Mwaura, N.: Organizational HIV monitoring and evaluation capacity rapid needs assessment: the case of Kenya. Pan Afr Med J. 14, 129 (2013). https://doi.org/10.11604/pamj.2013.14.129.2581
- 13. Obeagu, E.I., Alum, E.U. and Obeagu, G.U. Factors Associated with Prevalence of HIV Among Youths: A Review of Africa Perspective. Madonna University Journal of Medicine and Health Sciences, 2023; 3(1): 13-18. https://madonnauniversity.edu.ng/journals/index.php/medicine
- 14. Jain, S., Zorzi, N.: Investing for Impact: The Global Fund Approach to Measurement of AIDS Response. AIDS Behav. 21, 91–100 (2017). https://doi.org/10.1007/s10461-016-1620-6
- 15. Duncombe, C., Gouws, E.: Fast-Tracking the HIV Response in 15 Priority Cities. J Int Assoc Provid AIDS Care. 22, 23259582231161987 (2023). https://doi.org/10.1177/23259582231161987
- 16. Kreniske, P., Namuyaba, O.I., Kasumba, R., Namatovu, P., Ssewamala, F., Wingood, G., Wei, Y., Ybarra, M.L., Oloya, C., Tindyebwa, C., Ntulo, C., Mujune, V., Chang, L.W., Mellins, C.A., Santelli, J.S.: Mobile Phone Technology for Preventing HIV and Related Youth Health Problems, Sexual Health, Mental Health, and Substance Use Problems in Southwest Uganda (Youth Health SMS): Protocol for a Pilot Randomized Controlled Trial. JMIR Res Protoc. 12, e49352 (2023). https://doi.org/10.2196/49352
- 17. Logie, C.H., Okumu, M., Latif, M., Parker, S., Hakiza, R., Kibuuka Musoke, D., Mwima, S., Batte, S., Kyambadde, P.: Relational Factors and HIV Testing Practices: Qualitative Insights from Urban Refugee

This is an Open Access article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/4.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited

https://www.eejournals.org

Open Access

- Youth in Kampala, Uganda. AIDS and Behavior. 26, 2191–2202 (2022). https://doi.org/10.1007/s10461-021-03567-4
- Ugwu, O. P. C., Obeagu, E. I., Alum, E. U., Aja, P. M., Okon, M. B., Uti, D. E. Reducing HIV Infection Rate in Women: A Catalyst to reducing HIV Infection pervasiveness in Africa. International Journal of Innovative and Applied Research. 2023; 11(10):01-06. DOI: 10.58538/IJIAR/2048. http://dx.doi.org/10.58538/IJIAR/2048
- 19. Atsukwei D, Eze E D, Chom N D, Igoh E O, Owoeye S C, Angbalaga A, Akut D A (2017). Correlation between Abdominal Ultrasonographic Findings and CD4 Cell Count in Adult Patients with HIV/AIDS in Jos, Nigeria. Advances in Molecular Imaging, 7, (03), 49. 10.4236/ami.2017.73003
- 20. Dk, E., S, K., Pa, C.: Strengthening health systems through HIV monitoring and evaluation in Sub-Saharan Africa. PubMed.

CITE AS: Bwanbale Geoffrey David. (2025). Monitoring and Evaluation: The Contribution of International Organizations in Assessing HIV/AIDS Program Effectiveness in East Africa. EURASIAN EXPERIMENT JOURNAL OF PUBLIC HEALTH, 7(3):86-90

This is an Open Access article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/4.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited