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### **SUMMARY**

My long-term vision is to make a key contribution to health systems strengthening in low resource settings especially to advance mental health and HIV care for children and adolescents. My research, clinical practice, and training in health services delivery is diverse, and has adequately prepared me for leadership and technical roles in public health research and program management. My current position is of a Senior Research Scientist at the Kenyatta National Hospital (KNH). My training is in Medicine & Surgery, Global Health, Epidemiology, Implementation Science and Information & Technology. In the last decade, I have been involved in designing and managing >20 research projects in HIV prevention, testing, treatment and treatment support, and infectious disease surveillance in Kenya, Nigeria, Uganda, Malawi, Zimbabwe and South Africa. I have methods expertise in Epidemiology, Biostatistics, Implementation Science and quality improvement. I also have >10-year experience offering clinical care in rural and urban public and private settings, and in stakeholder management, having worked with the Ministries of Health in Kenya and Nigeria, and Ministries of Education, County health departments, implementing partners, facility leadership and frontline health providers. This background and experience has enabled me develop a unique perspective on the health care needs for Kenya and appropriate, adaptable solutions.

Highlights of my research work include studies on index case testing for the children and adolescents, implementation strategies for community roll-out of HIV self-testing among adolescents in Kenya, development of tools to guide transition of adolescents from pediatric to independent care; these studies directly informed HIV testing and treatment guidelines and policies in Kenya. In my current research, we are studying social factors in adolescent HIV, including HIV stigma and disclosure of HIV status. I am also leading implementation science research on viral load monitoring and mental health assessments, care and referral for children and adolescents with HIV. My publication record includes ~60 papers published in high impact journals.

Beyond grant writing, I lead mentorship of junior researchers at KNH- including clinical staff at the hospital, students and faculty at the University of Nairobi (UoN), and research project staff affiliated with KNH. I lead a team of ~15 mid-level scientists affiliated to KNH, UoN and the University of Washington (UW) in offering mentorship to researchers developing research proposals for funding by KNH and other mentored grants offered by UW, Centers for AIDS Research; and fellowships funded by the US National Institutes of Health's Fogarty International Center. I also lead manuscript and conference abstract writing workshops in collaboration with mid-career and senior researchers at KNH, UoN, and UW. Specifically, I am currently mentoring 3 PhD students at the University of Nairobi, Implementation Science program, and primary mentor to 4 fellows under the NIH Fogarty-funded Global Health Fellows Program, and supporting thesis development for 4 students at the University of Washington Global Health department funded by Fogarty's D43 award on Women and HIV in Kenya.

## **PROFESSIONAL TRAINING**

- 2020-2022 **University of Washington**, Seattle, United States of America  
PhD in Public Health (Epidemiology)
- 2021-2023 **Washington University in St. Louis**, United States of America  
Fellow, HIV, Infectious Disease and Global Health Implementation Research Institute (HIGH-IRI) – Implementation Science
- 2021-2022 **NIH Fogarty Global Health Fellowship**  
Fellow, Northern Pacific Global Health Research Fellows Training Consortium (NPGH)
- 2018-2019 **University of Washington**, Seattle, United States of America  
Master in Public Health (Global health)
- 2018-2022 **NIH Fogarty International AIDS Research and Training Program (IARTP)**  
Scholar, HIV Care Cascade
- 2006-2011 **University of Nairobi**, Nairobi, Kenya  
Bachelor of Medicine and Surgery (MBChB)
- 2005-2006 **Starehe Technical Training Institute**, Nairobi, Kenya  
Diploma in Information and Technology

## **PROFESSIONAL COMPETENCIES**

- Setting research priorities for Kenyatta National Hospital
- Designing clinical, epidemiological, implementation science and operational research projects and implementation of the studies in low and middle income countries
- Evaluation of health programs in low and middle income countries
- Stakeholder management and analysis to ensure equity in contribution, ownership of projects and adoption of sustainable products
- Health system strengthening and quality improvement of service delivery including application of continuous quality improvement, process mapping, and failure mode and effect analysis
- Analysis of complex data – including longitudinal program data from low resource settings (using R and STATA programs).

## **RESEARCH EXPERIENCE**

### **A: 2010-present: Kenyatta National Hospital/University of Nairobi/University of Washington pediatric and adolescent HIV research collaborative group**

#### **1. Strengthening HIV testing, linkage to care and treatment for children, adolescents and adults**

##### **Effectiveness trials**

2010-2016 Optimizing Pediatric HAART (OPH), University of Nairobi and University of Washington (NIH R01 HD023412). Randomized clinical trial to assess the impact of interrupting HIV treatment for children with stable clinical, immunologic and virologic parameters.

**Role:** Study physician – participant enrollment and follow up, in-patient and outpatient care

2014-2016 Pediatric Urgent Start of HAART (PUSH), University of Nairobi and University of Washington (NIH R01 HD023412). Randomized clinical trial conducted in Kenya assessing impact of early HIV treatment for children (<48 hours versus 1-2 weeks after diagnosis) on mortality and clinical outcomes.

**Role:** Study physician – participant enrollment and follow up, in-patient and outpatient care, and quantitative data analysis.

##### **Operational/ Implementation Science and hybrid projects**

- 2021-2022 Adolescent HIV viral load monitoring optimization study, Kenyatta National Hospital (IAPAC). Implementation Science study of the pediatric and adolescent HIV viral load monitoring cascade to determine the bottlenecks in the cascade and relevant solutions using the failure mode and effect analysis framework in Nairobi County, Kenya.  
**Role:** Principal Investigator – study design, execution and dissemination, and both quantitative and qualitative data analysis.
- 2013-2016 HIV-1 Counseling and Testing for Children at Home (CATCH), University of Nairobi and University of Washington (UW Royalty Research Fund A83526 and NIH R21 HD079637). Implementation of index case testing, targeting HIV positive adults in care to reach their children of unknown HIV status.  
**Role:** Study coordinator – involved in the study design, oversaw study execution, data collection and patient care, stakeholder engagement and dissemination, and both quantitative and qualitative data analysis.
- 2015-2016 Developing Adolescent Strategies for HIV Testing (DASH), Kenyatta National Hospital and University of Washington (NIH supplement to P30, AI027757). Utilizing a continuous quality improvement (CQI) framework to improve HIV testing services at Kenyatta National Hospital HIV prevention unit.  
**Role:** Study coordinator – involved in the study design, oversaw study execution, data collection and patient care, stakeholder engagement and dissemination, and both quantitative and qualitative data analysis.
- 2015-2018 Financial Incentives to Increase Prompt Pediatric HIV Testing (FIT) (IAS CIPHER 323-NJU and UW CFAR P30AI027757). Randomized controlled trial assessing impact of financial incentives on completion of pediatric HIV testing by HIV positive caregivers.  
**Role:** Co-investigator – involved in the study design and execution and dissemination, and both quantitative and qualitative data analysis.

## 2. Treatment support for adolescents and youth living with HIV

### Longitudinal epidemiological study

- 2021-2023 Self-disclosure of HIV status for adolescents and young adults living with HIV in Kenya (ELEZA study), Kenyatta National Hospital (UW/ Fred Hutch Center for AIDS Research Mentored International Investigator Award P30AI027757). Longitudinal study to determine the impact of communication of HIV status to others by adolescents living with HIV in Kenya.  
**Role:** Principal Investigator – study design and execution (ongoing)

### Hybrid trials with effectiveness and implementation science components

- 2015-2020 Simulated Patient Encounters Promote Early Detection and Engagement in HIV Care for Adolescents (SPEED), University of Nairobi and University of Washington (NIH R01HD085807). A hybrid implementation study that developed and is evaluating a training package for frontline health providers on delivery of adolescent friendly services, using standardized patient actors (SPs).  
**Role:** Study coordinator – involved in the study design, oversaw study execution, data collection and patient care, stakeholder engagement and dissemination; I was also the lead trainer on components of the adolescent package of care and motivational interviewing. I was involved in both quantitative and qualitative data analysis.
- 2017-2020 Adolescent Transition to Adult Care for HIV-infected adolescents in Kenya (ATTACH), University of Nairobi and University of Washington (NIH 1R01HD089850-01). A hybrid implementation study that studied disclosure and transition practices in 102 sites in Kenya, developed tools for pediatric HIV status disclosure and transition to adult care and assessing their effectiveness in a cluster randomized trial in 20 facilities.  
**Role:** Study coordinator – involved in the study design, oversaw study execution, data collection and patient care, stakeholder engagement and dissemination; I was also the lead investigator

on execution and data collection for implementation science components including the continuous quality improvement, and documenting changes to intervention delivery. I was involved in both quantitative and qualitative data analysis.

#### Qualitative studies

2019-2021 HIV-related causes of death among adolescents living with HIV (ELEWA study). University of Nairobi and University of Washington (UW CFAR MIIA). The study seeks to understand the risk factors for death among young people living with HIV in Kenya.

**Role:** Co-investigator – involved in the study design and execution and dissemination. I was involved in quantitative data analysis.

2022-2024 Optimizing HIV care for non-adherent adolescents enrolled in care (ZINGATIA). Kenyatta National Hospital and University of Washington (UW CFAR NIA AI027757). The study seeks to engage youth and health care workers to better understand non-adherence, existing interventions and implementation and identify gaps in health systems to support YLH adherence.

**Role:** Co-investigator – involved in the study design and execution and dissemination. I was involved in quantitative data analysis.

#### Implementation Science study

2022-2023 Sustainability and Scale-Up of an Evidence Based Intervention to Support Adolescent Transition to Independent Care, Kenyatta National Hospital and University of Washington (NIH Fogarty Center, Adolescent HIV Implementation Science Alliance Small Award). An implementation Science study assessing sustainment and fidelity of the adolescent transition package (ATP) and develop plans for ATP intervention scale-up with local, county, and national policy makers.

**Role:** Co-investigator – involved in the study design and execution and dissemination. I was involved in quantitative data analysis.

### **3. Community-based HIV testing**

#### Implementation Science project

2018-2019 Youth Engaged Self-Testing (YES) study, Kenyatta National Hospital and University of Washington (UW CFAR NIA AI027757). An implementation study looking at acceptability and feasibility of community approaches for delivering HIV self-testing kits to adolescents and young adults

**Role:** Co-investigator – involved in the study design and execution and dissemination, and both quantitative and qualitative data analysis.

### **4. mHealth solutions for delivery of health services and research opportunities to adolescents**

#### Effectiveness trial

2017-2019 Social Media for Adolescent Retention and Treatment (Vijana SMART), Kenyatta National Hospital and University of Washington (UW CFAR NIA AI027757). Study the utilization of WhatsApp by HIV-infected adolescents and young adults (AYA) for peer-to-peer social and treatment support and develop a structured, facilitated WhatsApp support group with content that can be adapted for diverse populations.

**Role:** Study coordinator – involved in the study design, oversaw study execution, data collection, stakeholder engagement and dissemination, and both quantitative and qualitative data analysis.

#### Observational studies with qualitative data components

2018-2021 M-health Strategies for the Pediatric to Adult HIV Care Transition (MPACT study), Kenyatta National Hospital and University of Washington (NIH R34 MH114834.). Develop an mHealth peer intervention for the preparation of adolescents' transition to adult HIV care.

**Role:** Co-investigator – involved in the study design and execution and dissemination, and qualitative data analysis.

2019-2021 Sauti ya Vijana study: WhatsApp Focus Groups and Respondent-Driven Sampling, Kenyatta National Hospital and University of Washington (UW CFAR NIA AI027757). Evaluate the use of respondent driven sampling to engage hard-to-reach adolescents who may not regularly engage with the health system.

**Role:** Co-investigator – involved in the study design and execution and dissemination. I am involved in the ongoing quantitative data analysis of respondent driven sampling data

## 5. Pediatric neurodevelopment following HIV exposure or HIV infection

### Observational study

2013-2017 Impact of HIV on Neurodevelopment in Kenya (INK), University of Nairobi, Kenya and University of Washington (NIH K01NS080637). An observational study looking at differences in neurodevelopmental outcomes of HIV-infected children, HIV-exposed uninfected and HIV-uninfected children in Kenya.

**Role:** Study physician – participant enrollment and follow up, in-patient and outpatient care

### Effectiveness trial

2014-2016 Mediation Intervention for Sensitizing Caregivers in Kenya (MISCK), University of Nairobi, Kenya and Seattle Children's Hospital, WA, (Seattle children's hospital). We compared the efficacy of the MISC intervention delivered individually at home versus as a clinic-based group intervention among caregivers of HIV-infected children. Neurodevelopmental outcomes were assessed using the Malawi development assessment tool (MDAT) and Bayley scales of infant development. In this study, I participated in quantitative and qualitative data collection and analysis

**Role:** Study physician – participant enrollment and follow up, in-patient and outpatient care

## 6. Mental health research

### Implementation Science study

2022-2023 Implementation Strategies For Depression Management For Youth With HIV In Kenya (M-HIS study), University of Washington IMPACT Center (P50MH126219). An Implementation Science study to identify implementation strategies for depression assessment in HIV clinics in Kenya.

**Role:** Principal Investigator – study design and execution (ongoing)

### Effectiveness-Implementation study

2023-2028 Psychoeducation, Relaxation, Problem solving, Activation, Cognitive coping Therapy' (PRO-ACT) for Adolescents and Youth in HIV Care, Kenyatta National Hospital and University of Washington (NIH 1R01MH133261). A hybrid 1 cluster randomized trial to assess the effectiveness of a brief psychological intervention among youth with mild-moderate psychological distress in HIV clinics.

**Role:** Study Director – study design and execution (ongoing)

## **B: Consultancies**

### **1. 2017-2019: Washington State University Global Health Program, Kenya and the University of Nairobi**

#### **Observational study/Surveillance: Disease surveillance and establishing critical population health impact**

Incidence and Outcomes of Zika virus infection in pregnant women and their newborns in Mombasa County (KenZIK study, U01GH002143-01.), Kenyatta National Hospital, Washington State University, and Centers for Disease Control and Prevention (US-CDC). A large cohort study to investigate numerous exposures in pregnancy, including Zika, Dengue and Chikungunya viruses, HIV, aflatoxin, Toxoplasmosis, Rubella, Cytomegalovirus, Syphilis, and Hepatitis B, and pregnancy and neonatal outcomes in Mombasa

**Role:** Study coordinator – involved in the study design, led protocol development, oversaw study execution, data collection, stakeholder engagement and dissemination, and both quantitative and qualitative data analysis.

## **2. 2021-2022: Chemonics International, USA**

Observational study: Program evaluation for Differentiated Service Delivery of HIV services (Funding: USAID)

Differentiated Service Delivery Models for People Living With HIV in Nigeria, Chemonics International (Funded by USAID). Analysis of routine patient data, cross-sectional surveys with key persons and prospective studies to determine a) the impact and cost effectiveness of differentiated service delivery models including different antiretroviral therapy dispensing models for people living with HIV and b) the modifiable causes for poor viral suppression among children in Nigeria.

**Role:** Lead Epidemiology consultant – Led the study design, study protocol and tools development, oversaw study execution, and data collection, and dissemination. I led both quantitative and qualitative data analysis.

## **3. 2022: University of Washington/ Kenya Medical Research Institute**

Implementation Science project: Optimizing nutritional care for HIV exposed children in Kenya (Funding: University of Washington/Fred Hutch Center for AIDS Research New Investigator Award)

Process mapping of services at the Maternal and Child Health clinics to guide quality improvement of nutrition services in Western Kenya

**Role:** Train investigators and study leads from the study sites in Western Kenya and guide the process mapping in the clinics involved in the project.

## **4. 2023: University of Washington/ Fred Hutch Center, USA**

Addressing the burden of untreated HIV in cancer patients in sub-Saharan Africa: feasibility and planning for a pragmatic clinical trial. (Funder: NIAID- R21 AI155055)

Process mapping of HIV services in cancer centers and cancer diagnosis and referral services in HIV clinics in Uganda, Zimbabwe, South Africa and Malawi

**Role:** Train investigators and study leads in the 4 countries and guide the process mapping in the clinics involved in the project.

## **C: 2022-2023 Post-doctoral research**

**1. University of Washington/ Kenyatta National Hospital: PrEP Adherence Among Adolescent Girls and Young Women: A Multidimensional Evaluation (Funder: NIH 1R01 HD094630-01)**

**Role:** Lead analyses and manuscript writing using AGYW data on post-partum family planning uptake, PrEP adherence measurement using self-report and biomarkers, and contribute to an overview reviewing lifecycle approaches to HIV care.

**2. University of Washington/ Kenya Medical Research Institute: Women and HIV (WHIV) and International AIDS Research and Training Program (Funder: NIH FIC D43)**

**Role:** Develop and submit a career development proposal looking at optimizing the HIV care cascade and integration of HIV and non-communicable diseases; mentor PhD students at the University of Nairobi funded by the NIH Fogarty International Center; develop manuscripts from my PhD dissertation and other post-doctoral research.

**PUBLICATIONS:** <https://www.ncbi.nlm.nih.gov/myncbi/cyrus.wachira.1/bibliography/public/>

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2. **Mugo C**, Njuguna IN, Beima-Sofie K, et al. Adolescent experiences, perceptions, and preferences for the process of HIV status disclosure in Kenya. Original Research. *Frontiers in Public Health*. 2023-December-01 2023;11doi:10.3389/fpubh.2023.1165557
3. Semo BW, Ezeokafor NA, Oyawola B, **Mugo C**. Effect of Multi-Month Dispensing on Viral Suppression for Newly Enrolled Adolescents and Adults in Northern Nigeria. *HIV AIDS (Auckl)*. 2023;15:697-704 <https://doi.org/10.2147/HIV.S432976>
4. Njuguna I, **Mugo C**, Mbwanyo A, Augusto O, Wamalwa D, Inwani I. Gaps and opportunities for strengthening in-school support for youth living with HIV. *J Sch Health*. 2023; DOI: 10.1111/josh.13403
5. Mangale DI, Onyango A, **Mugo C**, Mburu C, Chhun N, Wamalwa D, Njuguna I, Means AR, John-Stewart G, Weiner BJ, Beima-Sofie K. Characterizing provider-led adaptations to mobile phone delivery of the Adolescent Transition Package (ATP) in Kenya using the Framework for Reporting Adaptations and Modifications to Evidence-based Implementation Strategies (FRAME-IS): a mixed methods approach. *Implement Sci Commun*. 2023 Aug 14;4(1):95. doi: 10.1186/s43058-023-00446-y. PMID: 37580836; PMCID: PMC10424422.
6. Moraa H, Njuguna I, **Mugo C**, Mbwanyo A, Nyapara F, Aballa C, Wagner AD, Wamalwa D, John-Stewart G, Inwani I, O'Malley G. "We can tell a good teacher who cares, understands, and can be confidential about it": youth and caregiver experiences with HIV disclosure to schools in Kenya. *Front Public Health*. 2023 Jul 25;11:1172431. doi: 10.3389/fpubh.2023.1172431. PMID: 37559743; PMCID: PMC10407401.
7. Mburu C, Njuguna I, Neary J, **Mugo C**, Moraa H, Beima-Sofie K, Onyango A, Oyiengo L, Richardson BA, John-Stewart G, Wamalwa D. Mortality and Loss to Follow-Up Among Adolescents and Young Adults Attending HIV Care Programs in Kenya. *AIDS Patient Care STDS*. 2023 Jul;37(7):323-331. doi: 10.1089/apc.2023.0019. PMID: 37432311; PMCID: PMC10354300.
8. Semo BW, Ezeokafor N, Adeyemi S, Kpamor Z, **Mugo C**. Differentiated service delivery models for antiretroviral treatment refills in Northern Nigeria: Experiences of people living with HIV and health care providers-A qualitative study. *PLoS One*. 2023 Jul 10;18(7):e0287862. doi: 10.1371/journal.pone.0287862. PMID: 37428746; PMCID: PMC10332588.
9. Njuguna, I, Moraa, H, **Mugo, C**, Mbwanyo, A, Nyapara, F, Aballa, C, Wagner, A. D., Wamalwa, D., John-Stewart, G., Inwani, I., & O'Malley, G. 'They should show them love even if their status of being HIV positive is known': Youth and caregiver stigma experience and strategies to end HIV stigma in schools. *Trop Med Int Health*. 2023. <https://doi.org/10.1111/tmi.13878>
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11. **Mugo, Cyrus**; Zubayr, Bashir; Ezeokafor, Nnenna; Oyawola, Babatunde; Ekele, David Ochedomi; Madueke, Leila; Kpamor, Zipporah; Semo, Bazghina-werq. Effect of Dolutegravir and multi-month dispensing on viral suppression among children with HIV. *JAIDS Journal of Acquired Immune Deficiency Syndromes* ( ):10.1097/QAI.0000000000003190, March 15, 2023. | DOI: 10.1097/QAI.0000000000003190
12. Pamela K Kohler, **Cyrus Mugo**, Kate S Wilson, Hellen Moraa, Alvin Onyango, Ken Tapia, Kenneth Pike, Caren Mburu, Margaret Nduati, Brandon Guthrie, Barbra A. Richardson, David Bukusi, Irene Inwani, Grace John-Stewart, Dalton Wamalwa. Simulated patient training to improve adolescent engagement in HIV care: A stepped wedge cluster randomized controlled trial. *PLOS Global Public Health*.
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34. Njuguna IN, Wagner AD, Neary J, Omondi VO, Otieno VA, Orimba A, **Mugo C**, Babigumira JB, Levin C, Richardson BA, Maleche-Obimbo E, Wamalwa DC, John-Stewart G, Slyker J. *Financial incentives to increase pediatric HIV testing: a randomized trial*. *AIDS*. 2020 Oct 8;. doi: 10.1097/QAD.0000000000002720. [Epub ahead of print] PubMed PMID: 33048877.
35. **Mugo C**, Njuguna I, Nduati M, Omondi V, Otieno V, Nyapara F, Mabele E, Moraa H, Sherr K, Inwani I, Maleche-Obimbo E, Wamalwa D, John-Stewart G, Slyker J, Wagner AD. *From research to international scale-up: stakeholder engagement essential in successful design, evaluation and implementation of paediatric HIV testing intervention*. *Health Policy Plan*. 2020 Sep 18;. doi: 10.1093/heapol/czaa089. [Epub ahead of print] PubMed PMID: 32944754.
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37. **Cyrus M**, Katherine W, Alvin O, Irene NN, Caren MW, Barbra R, Laura O, Irene I, Grace JS, Dalton W, Pamela K. *Time to repeat viral load testing among unsuppressed adolescents and young adults living with HIV in Kenya*. *J Acquir Immune Defic Syndr*. 2020 Sep 3;. doi: 10.1097/QAI.0000000000002498. [Epub ahead of print] PubMed PMID: 32897936.
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39. Wagner AD, Wilson KS, Babigumira JB, **Mugo C**, Mutiti PM, Neary J, Wamalwa DC, Bukusi D, John-Stewart GC, Kohler PK, Slyker JA. *Can Adolescents and Young Adults in Kenya Afford Free HIV Testing Services?*. *J Assoc Nurses AIDS Care*. 2020 Jul-Aug;31(4):483-492. doi: 10.1097/JNC.000000000000012. PubMed PMID: 30585863; PubMed Central PMCID: PMC6586552.

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  55. Wagner AD, **Mugo C**, Njuguna IN, Maleche-Obimbo E, Sherr K, Inwani IW, Hughes JP, Wamalwa DC, John-Stewart GC, Slyker JA. *Implementation and Operational Research: Active Referral of Children of HIV-Positive Adults Reveals High Prevalence of Undiagnosed HIV*. *J Acquir Immune Defic Syndr*. 2016 Dec 15;73(5):e83-e89. doi: 10.1097/QAI.0000000000001184. PubMed PMID: 27846074; PubMed Central PMCID: PMC5175406.

#### **SELECTED ABSTRACTS PRESENTED IN CONFERENCES**

- 2023 **Cyrus Mugo\***, Oluwasanmi Adedokun\*, Oluwafemi Alo, Assumpta Nnenna, Sylvester Adeyemi, Zipporah Kpamor, Leila Madueke, Ezekiel James, Dolapo Ogundeyin, Sylvia Adebajo, Bazghina-werq Semo. May 9-12, INTEREST Conference 2023, Maputo, Mozambique, Poster number 41
- 2022 **Cyrus Mugo**, Manasi Kumar, Jacinta Badia, James Kibugi, Kawango Agot, Jessica Dyer, Pamela Kohler, Dalton Wamalwa, Grace John-Stewart. HIV stigma is associated with depressive symptoms, non-adherence and viral non-suppression in youth with HIV. Nov 7-9, ADHERENCE Conference 2022, Poster number: 1059
- 2022 **Cyrus Mugo**, Manasi Kumar, Jacinta Badia, James Kibugi, Kawango Agot, Jessica Dyer, Pamela Kohler, Dalton Wamalwa, Grace John-Stewart. Stigma in youth with HIV is associated with depression, school dropout and adult clinic attendance. May 10-13, INTEREST Conference 2022, Poster, abstract number: 197; AIS Pediatric workshop and AIDS 2022, Jul 26-Aug 02: Poster numbers: 46 and PESAC05
- 2022 **Cyrus Mugo**, Leila Madueke, Zipporah Kpamor, Bazghinawerq Semo: Multi-month dispensing and use of dolutegravir associated with better viral suppression among children in Nigeria. May 10-13, INTEREST Conference 2022, Poster and abstract number: 51
- 2021 **Cyrus Mugo**, Ruth Nduati, Eric Osoro, Bryan Nyawanda, Harriet Mirieri, Elizabeth Hunsperger, Jennifer R Verani, Hafsa Jin, Dufton Mwaengo, Brian Mugo, James Machoki, Nancy Otieno, Cynthia Ombok, Mufida Shabibi, Lydia Okutoyi, John Kinuthia, Marc-Alain Widdowson, Kariuki Njenga, Irene Inwani, Dalton Wamalwa. *Comparable pregnancy outcomes for HIV-uninfected and HIV-infected women on antiretroviral treatment in Kenya*. July 2021, IAS conference 2021, Virtual Poster, abstract number: PEB188
- 2020 **Cyrus Mugo**, Irene Njuguna, Kristin Beima-Sofie, Caren W. Mburu, Alvin Onyango, Janet Itindi, Barbra Richardson, Laura Oyiengo, Grace John-Stewart, Dalton Wamalwa. *Adolescent perspectives on HIV status disclosure to older children and adolescents*. November 2020 International workshop on HIV & Adolescence 2020, paper 42.
- 2020 **Cyrus Mugo**, Kate Wilson, Alvin Onyango, Irene Njuguna, Caren Mburu, Barbra Richardson, Laura Oyiengo, Irene Inwani, Grace-Jon Stewart, Dalton Wamalwa, Pamela Kohler. *Time to repeat viral load testing following an unsuppressed viral load*

- among adolescents and young adults in Kenya*. July 2020 AIDS 2020 Virtual poster PEE1592 and at the International virtual workshop on HIV and Pediatrics November 2020, paper number 49.
- 2020 **Cyrus Mugo**, Meredith Wang, Emily Begnel, Irene N Njuguna, Elizabeth Maleche-Obimbo, Irene Inwani, Jennifer Slyker, Grace John-Stewart, Dalton Wamalwa, Anjuli D Wagner. *Low Hanging Fruit!: High Uptake and Yield On Offering HIV testing To Untested Children Accompanying HIV-positive Adults During Their HIV Clinic Visit*. University of Nairobi STD/HIV/SRH Collaborative Group Meeting. January 2020 and at the virtual INTEREST conference December 2020
- 2019 **Cyrus Mugo**, David Seeh, Caroline Akinyi, Helen Moraa, Margaret Nduati, Alex Muriithi, Brandon Guthrie, Megan Moreno, Grace John-Stewart, Irene Inwani, Keshet Ronen. *Self-disclosure of HIV status by Adolescents and Young Adults is Associated With Higher Levels of Enacted and Internalized Stigma*, 2019 October; 3<sup>rd</sup> International workshop on HIV & Adolescence, Nairobi, Kenya
- 2019 **Cyrus Mugo**, Jillian Neary, Anjuli D Wagner, Vincent Otieno, Verlinda Otieno, Anita Orimba, Dalton Wamalwa, Barbra Richardson, Grace John-Stewart, Jennifer Slyker, Irene Njuguna. *Perception that a child is HIV-positive and fear that the child will be tested are barriers for seeking medical care for the child by HIV-positive caregivers*. 2019 11<sup>th</sup> International workshop on Pediatric HIV, Mexico City, Mexico
- 2019 **Cyrus Mugo**, Keshet Ronen, Alex Muriithi, David Seeh, Caroline Akyinyi, Helen Moraa, Margaret Nduati, Brandon Guthrie, Megan Moreno, Grace John-Stewart, Irene Inwani. *Vijana-SMART: Piloting a WhatsApp-based support group for youth living with HIV in Nairobi, Kenya*. Inter-CFAR symposium on research in Sub-Saharan Africa; 2019 February; Machakos, Kenya
- 2018 **Cyrus Mugo**, Keshet Ronen, Alex Muriithi, David Seeh, Caroline Akyinyi, Helen Moraa, Margaret Nduati, Brandon Guthrie, Megan Moreno, Grace John-Stewart, Irene Inwani. *I have made friends with whom we remind and encourage each other: Youth perspectives on and access to a WhatsApp-based HIV treatment support tool in Nairobi, Kenya*. 22<sup>nd</sup> International AIDS conference 2018 poster WEPDD01, Amsterdam.
- 2017 **Cyrus Mugo**, Manasi Kumar, Dalton C Wamalwa, Sarah Benki-Nugent. *Implementing an enhanced ECD Package: Leveraging m-health and using task-shifting approach in Kenya; 2017 March 7-10; Nairobi Innovation Week, Nairobi, Kenya*.
- 2017 **Cyrus Mugo**, Kate Wilson, Irene Inwani, Anjuli Wagner, David Bukusi, Jennifer Slyker, Barbra Richardson, Grace John-Stewart, Dalton Wamalwa, Pamela Kohler. *Lights, Camera, Action!: Utilizing Standardized Patient Actors To Improve Quality Of Care For HIV-Infected Adolescents In Kenya*. Consortium of Universities for Global Health (CUGH) conference; 2017 April; Washington DC
- 2017 **Cyrus Mugo**, Kate Wilson, Irene Inwani, Anjuli Wagner, David Bukusi, Jennifer Slyker, Barbra Richardson, Grace John-Stewart, Dalton Wamalwa, Pamela Kohler. *Lights, Camera, Action!: Utilizing Standardized Patient Actors To Improve Quality Of Care For HIV-Infected Adolescents In Kenya*. 2017 January; University of Nairobi STD/HIV/SRH Collaborative Group Meeting
- 2017 **Cyrus Mugo**, Lisa M. Cranmer, Patricia Pavlinac, Irene Njuguna, Vincent Otieno, Elizabeth Maleche-Obimbo, Helen Moraa, John Gatimu, Joshua Stern Judd Walson, Dalton Wamalwa, Grace John-Stewart. *Performance of WHO TB symptom screen in HIV-positive Kenyan children* ; 2017 January; University of Nairobi STD/HIV/SRH Collaborative Group Meeting
- 2016 **Cyrus Mugo**, Anjuli Wagner, Shay Bluemer-Miroite, Peter Mainigi, Dalton Wamalwa, David Bukusi, Jillian Neary, Gabrielle O'Malley, Grace John-Stewart, Jennifer Slyker, Pamela Kohler. *Adolescent HIV testing: perceived quality, HIV knowledge, and intent to retest*; Inter-CFAR symposium on research in Sub-Saharan Africa; 2016 July, Durban, South Africa.
- 2015 **Cyrus Mugo**, Olivia Firdawsi, Anjuli Wagner, Irene Njuguna, Dalton Wamalwa, Gabrielle O'Malley, Jennifer Slyker, Grace John-Stewart. *Parental disclosure of HIV status: Experiences and perceptions of HIV positive parents in Nairobi, Kenya*, 2015 University of Nairobi STD/HIV/SRH Collaborative Group Meeting

## **CLINICAL PRACTICE**

2022- Medical Specialist II, Kenyatta National Hospital

- 2014-2018 Senior medical officer, The Nairobi Hospital, Nairobi, Kenya. Emergency and outpatient departments and HIV care clinic
- 2014-2015 Medical officer, Aga Khan University Hospital, Nairobi, Kenya
- 2013-2014 Medical officer, Eldama Ravine Sub-district hospital, Baringo, Kenya.
- 2012-2013 Medical officer intern, Rift Valley Provincial General Hospital, Nakuru, Kenya

**MENTORSHIP AND TEACHING**

- 2020-present Tutor at the NIH Fogarty-funded Northern Pacific Global Health Research Fellows Training Consortium (NPGH) Fellowship Quantitative Methods training
- 2017-present Ongoing training and mentoring staff from Kenyatta National Hospital and students from University of Nairobi schools of medicine and nursing on research methods and manuscript writing
- 2023 Mentor for Kenyan Master of Public Health students at the University of Washington and PhD students in Public Health at the University of Nairobi on scholarship from the Fogarty-funded Women and HIV (WHIV), International AIDS Research and Training Program (IARTP) and HIV Care Cascade Program.
- 2021 Speaker at the NIH Adolescent HIV Implementation Science Alliance event at the International AIDS Society 2021
- 2021 Speaker at the Implementation Science Fund event at the Fast-track Cities 2021 in Lisbon, Portugal
- 2020-2021 Tutor for Master of Public Health students and other scholars (10) at the University of Washington, sponsored by the International AIDS Research and Training Program
- 2020 Co-chair, University of Nairobi/ University of Washington Center for AIDS Research workshop on 'Ethics in Adolescent Research' at the University of Nairobi
- 2020 Guest lecture on epidemiological methods in the University of Nairobi's Health-Professional Education Partnership Initiative (HEPI) Kenya manuscript writing workshop.
- 2020 Panelist on the Responsible Conduct for Research course at the University of Washington discussing my journey and roles in Global Health research
- 2020 Guest speaker at the Bioethics Society of Kenya Conference to discuss autonomy of adolescents in seeking health care and participating in research
- 2019 Guest speaker in Global health undergraduate class at the University of Washington to discuss my role in transitioning research products into practice. This was an opportunity to describe how collaborations with front-line providers, communities and policy makers influence success and impact of research. This invitation was extended due to my work in the designing and implementing the CATCH study
- 2019 Guest panelist at University of Washington's Center for AIDS research (CFAR) adolescent working group. My role in this meeting was to share my experience reaching and working with HIV-infected adolescents, and consenting challenges for adolescents in research
- 2019 Guest panelist at the Coast region PrEP/ HIV self-testing learning forum. My role was to share my experience and research regarding delivery of HIV self-testing to adolescents and youth

**SCHOLARSHIPS AND AWARDS**

- 2022 Finalist for the Rising Star Global Health Impact Awards by the Washington Global Health Alliance
- 2022 Nominee for the Department of Epidemiology in the University of Washington Magnuson Scholar Program
- 2021 University of Washington, School of Public Health (SPH) Endowed award (2021-2022)
- 2021 International AIDS Society (IAS) scholarship for the IAS 2021 Virtual conference, July 2021

- 2020 International AIDS Society (IAS) scholarship for the AIDS 2020 Virtual conference, July 2020
- 2020 IARTP award for the University of Nairobi conference of HIV/ STIs, in Nairobi, Kenya, January 2020
- 2019 IARTP travel scholarship for the International workshop on HIV pediatrics and International AIDS Society conference, Mexico City, Mexico, July 2019
- 2019 Virology Education registration and dinner for the International workshop on HIV pediatrics, Mexico City, Mexico, July 2019
- 2019 The Graduate and Professional Student Senate, University of Washington travel scholarship for the International workshop on HIV pediatrics, Mexico City, Mexico, July 2019
- 2019 IARTP travel scholarship for Inter-CFAR symposium on research in Sub-Saharan Africa, Machakos, Kenya, February 2019
- 2018 Virology Education registration and dinner for the International workshop on HIV pediatrics, Amsterdam, Netherlands, July 2018
- 2018 Adolescent HIV Prevention and Treatment Implementation Science Alliance (AHISA) travel scholarship for workshop on implementation science research for adolescents and young adults, Johannesburg, South Africa, January 2018
- 2016 UW CFAR travel scholarship for Inter-CFAR symposium on research in Sub-Saharan Africa, Durban, South Africa, July 2016

### **VOLUNTEER WORK**

- 2023 Abstract reviewer (Epidemiology and implementation science) for the IAS 2023 conference and the 2023 INTEREST workshop
- 2020-present Reviewer in various articles submitted in journals including Frontiers Psychiatry, Frontiers Psychology, Frontiers Public Health, PLoS One, International Journal of Adolescent Medicine and Health, JAIDS, AIDS, AIDS and Behavior, Lancet HIV and others.
- 2022 Abstract reviewer (Epidemiology and implementation science) for the AIDS 2022 conference and the 2022 INTEREST workshop
- 2021 Abstract reviewer (clinical science, social, behavioral and implementation science tracks) for the IAS 2021 conference
- 2020 Abstract reviewer (Treatment, mHealth, Key populations and PMTCT tracks) for the virtual INTEREST workshop 2020
- 2007-2017 Kenya Institute of Curriculum Development (KICD), Nairobi. *Development and critic panelist of diverse technical schools curricula for sections that deal with health (First aid and reproductive)*
- 2007-2011 Center for Domestic Training and Development, Nairobi. *Trained young women and men in the rescue shelter on first aid, reproductive health and HIV prevention.*
- 2001-2003 Starehe Boys Center and School, Nairobi. *I worked in hospitals and government offices during school holidays as part of the school's voluntary service scheme.*

### **PROFESSIONAL AFFILIATIONS AND CERTIFICATION**

- 2023- Member and reviewer, *East African Medical Journal*
- 2023- Member, Kenya Medical Association (KMA)
- 2021-present Board member for *Process: Journal of Multidisciplinary Undergraduate Scholarship*
- 2021-present Member, National Adult and Pediatrics Care and Treatment Technical Working Group at the National AIDS & STI Control Program (NASCOP)
- 2020-present Member, Kenya Adolescent HIV Prevention and Treatment Implementation Science Alliance Forum (KAHISA), a forum bringing together implementation scientist and institutions working in the adolescent HIV space in Kenya.

- 2019-present Member, Adolescent HIV Prevention and Treatment Implementation Science Alliance Forum (AHISA), Fogarty International Center, National Institutes of Health (NIH)
- 2018-present Member, University of Washington Center for AIDS Research (CFAR) Adolescent working group
- 2018-present Member, HIV Self-testing technical working group, National AIDS & STI Control Program
- 2018-present Member, Adolescent HIV technical working group, Nairobi City County
- 2016-present Member, Kenya Research Incubation and Mentorship Meeting (KRIM). Senior Kenya-based researchers mentor junior researchers on grant writing and manuscript development
- 2013-present Kenya Medical Practitioners and Dentist Council