

# SEMIANNUAL RESEARCH REPORT

July – December 2022



## Acknowledgments

The AMPATH Kenya Research Program Office is grateful to our sponsors and research partners who contribute to the success of our research program. Thank you to everyone who contributed to this report and our efforts to improve the health of people in Kenya and other resource-limited settings around the world.

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Please visit the AMPATH Research Program website to learn how our research programs are helping improve the health of people in Kenya and around the world.

<https://www.ampathkenya.org/research>

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# Research Program Vision, Mission & Values

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## Vision

We envision a vibrant, world-class, Kenyan-led community of researchers engaged in the continuous improvement of health globally.

## Mission

Guided by the principle of leading with care, we work in partnership to develop local research talent and to identify, develop and disseminate relevant and timely information to improve the health of people in underserved populations.

## Values

In our work, we embrace:

- Service with humility
- A spirit of collaboration and partnership
- Integrity in relationships
- Mutual respect and mutual benefit in organizational partnerships
- Efforts to eliminate health disparities
- A sustainable infrastructure for research

## Strategic Priorities

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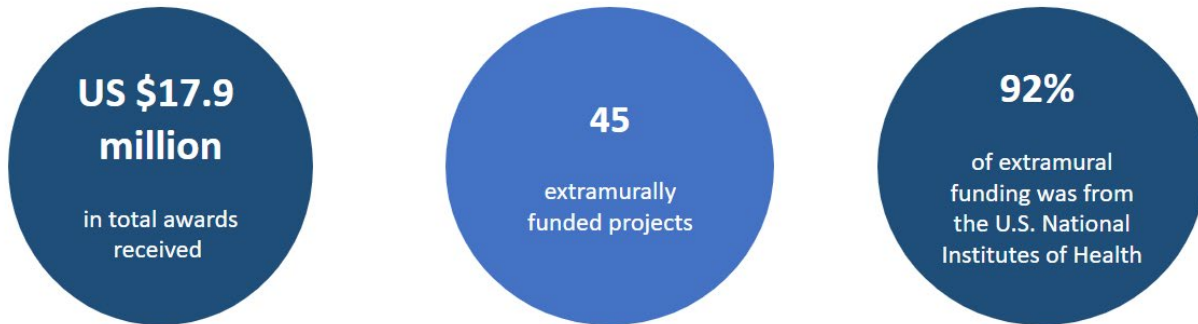
After internal and external stakeholder surveys and interviews, the AMPATH Kenya Research Program Office (RPO) convened a two-day strategic planning meeting in September 2019 in Eldoret, Kenya. The meeting included more than 40 key research program leaders and stakeholders tasked with reviewing and evaluating the program's strategic priorities and developing a new strategic plan for the next three years. The following strategic priorities were identified:

1. Strengthen development of a **well-resourced and sustainable infrastructure for research** that enables the efficient conduct of high-quality research.
2. Increase the number of **successful independent investigators** working in collaborative, interdisciplinary research teams by providing better access to high-quality training and mentorship.
3. Enhance **supportive, research-intensive cultures** within the schools and departments of all AMPATH partners.
4. **Accelerate growth in relevant, high-yield research initiatives** that will improve policy and strengthen the health systems and communities we serve including biomedical innovations, health economics/equity, population health, informatics, and implementation science research.
5. Incorporate research into ongoing efforts to **expand AMPATH innovations to additional underserved populations beyond Kenya.**

Based on these strategic priorities, the RPO created a 2020-2023 work plan with input from key stakeholders and leadership to implement the program's new strategic plan. The work plan was included in the [AMPATH Kenya Research Semi-Annual Report July – December 2021](#).

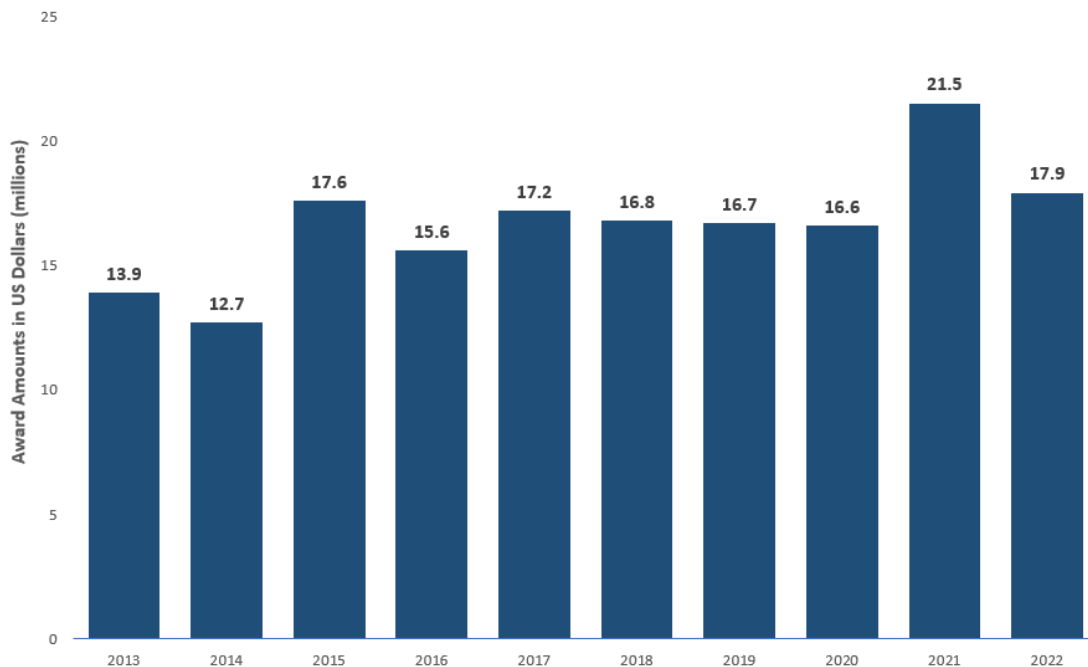
The AMPATH Research Program is transitioning from a 3-year to 5-year strategic planning cycle starting in 2023. In 2023, the AMPATH RPO will conduct internal and external stakeholder surveys and interviews and plan to convene an in-person strategic planning meeting in January of 2024 to inform the 2024-2029 work plan.

## January - December 2022 Award Metrics At-a-Glance



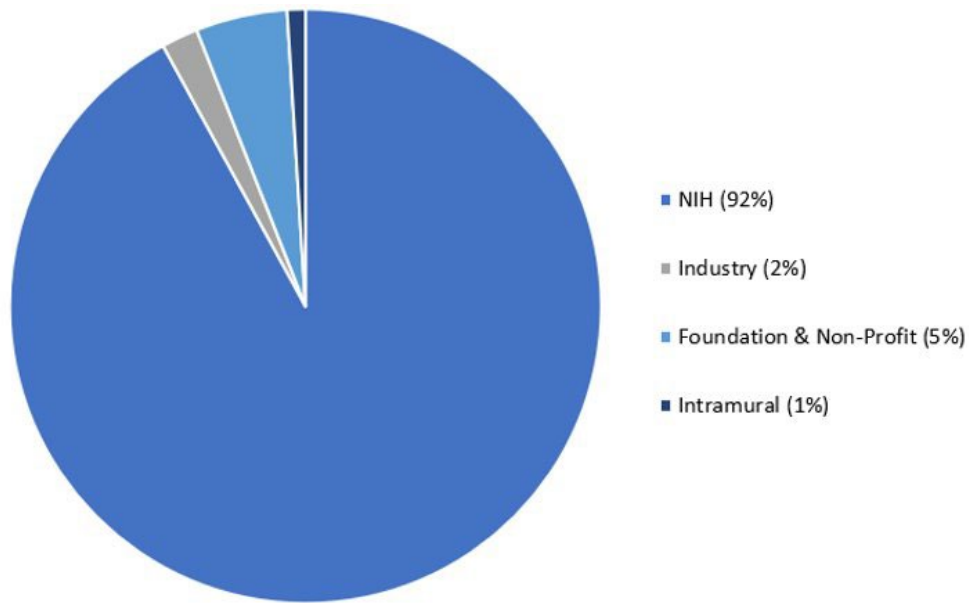
In 2022, AMPATH-affiliated investigators received a total of US \$17.9 million in awards for research and training activities, including US \$4.3 million in funding for new research projects and US \$13.6 million in funding for continuing research projects, which is on trend for research funding at AMPATH (Figure 1). This increases AMPATH’s cumulative total of research and training awards to approximately US\$ 228 million.

**Figure 1. Ten-Year Trend in Total Awards, 2013 – 2022**



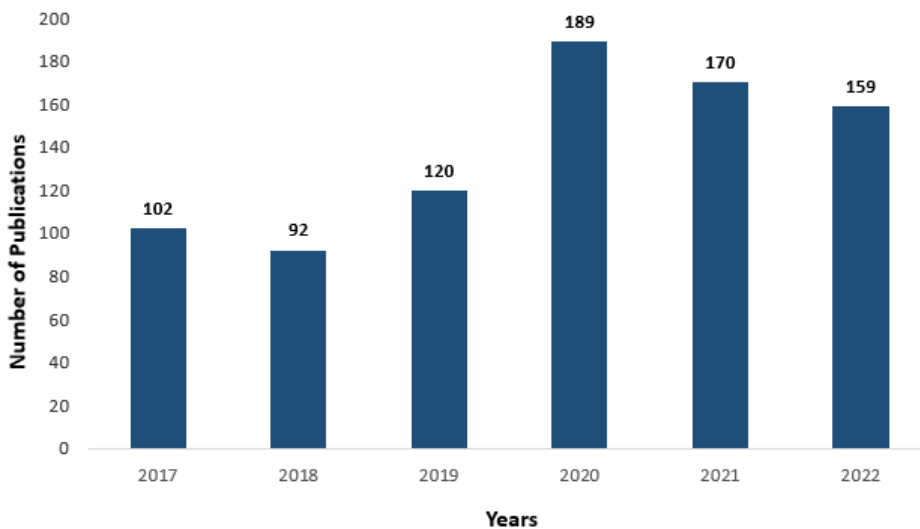
Consistent with previous years, NIH funding remained strong in 2022, representing 92 percent of the total funding received, while funding from industry sponsors, foundations/non-profits and intramural awards made up the remaining 8 percent (see Figure 2).

Figure 2. Research Funding Received by Sponsor Type, 2022



## Publications

Figure 3. Articles Published by AMPATH Investigators, 2017-2022



Investigators from Moi University, Moi Teaching and Referral Hospital (MTRH), and AMPATH Consortium institutions published 159 articles in 2022 (see Figure 3). HIV-related research publications remained strong in 2022 (over 40 publications) with a diverse array of research including: adherence, disclosure and stigma, clinical trials of treatment regimens, HIV drug resistance, HIV-related co-morbidities, and research ethics. AMPATH investigators also published widely in the areas of cancer (15), COVID-19 (14) and other areas. AMPATH researchers contributed to

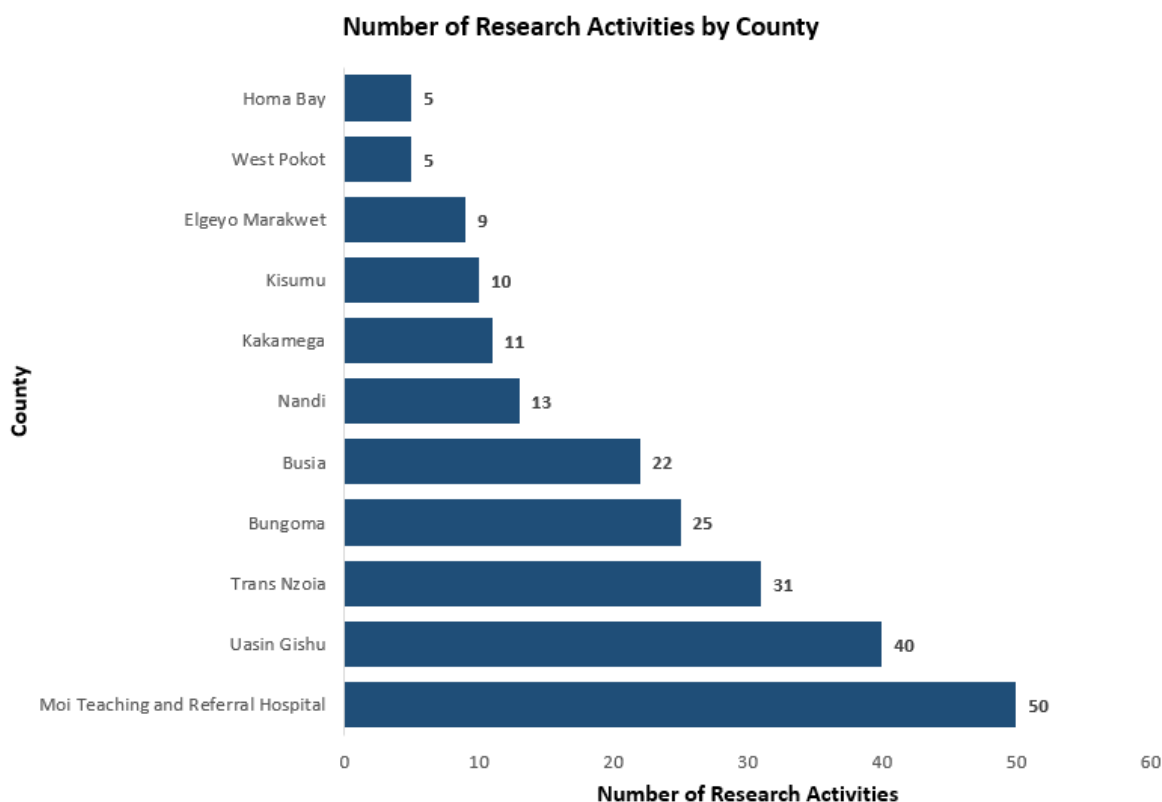
several publications from regional and/or global studies through several research networks and collaborations. See Appendix 1 for a full list of publications by AMPATH affiliated investigators during the reporting period.

## Geographic Reach of AMPATH Research Activities

A total of 61 research projects at AMPATH completed requests for information related to new, ongoing or recently completed studies during the reporting period. As shown in Figure 4, while Uasin Gishu County (home to Eldoret and MTRH) is the most common location for research activities, AMPATH researchers are engaged in research activities across

western Kenya. AMPATH investigators are part of regional and global research and training activities through a number of projects and consortia funded by the NIH and other major funders. Some of these large-scale projects and consortia include the NIH-funded [Global Network for Women’s and Children’s Health Research](#), [leDEA Consortium](#), and [Global Health Program for Fellows and Scholars](#), and clinical trials at the Moi University Clinical Research Centre through the [AIDS Clinical Trials Unit \(ACTG\)](#), the [CoVPN 3005 Protocol \(Sanofi\) Trial](#), the [CoVPN 3008 Protocol \(Moderna\) Trial](#) and [European and Developing Countries Clinical Trials Partnership](#), among others.

**Figure 4. Research Activities by County\* in Kenya**



*\*Several projects take place in more than one county. Projects reported all counties where research activities were taking place. Research projects taking place at Moi Teaching and Referral Hospital (MTRH), which is located in Uasin Gishu County, are listed separately. Additionally, other counties with at least one research project include: Bomet, Kericho, Kisii, Migori, Nakuru, Siaya, Turkana and Vihiga.*

## Other Activities & Achievements

In the second half of 2022, the AMPATH Kenya Research Program made progress in several key areas in line with the strategic plan, including:

**Hiring New Staff** – In Kenya, the program hired Obed Limo as deputy research manager. Prior to this appointment, Mr. Limo served as the program manager for the Primary Health Integrated Care Project for Chronic Diseases (PIC4C) at AMPATH Kenya and brings expertise in project, county government engagement, and human resource management to the team. In North America, the program added Whitney Turientine and Erin Aiello as program manager and program assistant, respectively. Prior to this role, Ms. Turientine served as a senior project manager at a global tech company and brings a background in sustainable development practice to the team. Ms. Aiello joined the team with a background in

executive administrative support and recently served as a COVID-19 contact tracer at Indiana University’s School of Public Health.

**Finalizing the AMPATH Online Project Database** – During the second half of 2022, the RPO finalized a plan to launch the AMPATH Online Project Database – a central data repository on active and completed AMPATH research projects. This tool will be available on AMPATH’s website and accessible to the public providing searchable project details, including links to principal investigator profiles, names of research collaborators, sponsors, applicable research areas of focus, project summaries and more. Currently, the timeline for launching the database is Spring 2023.

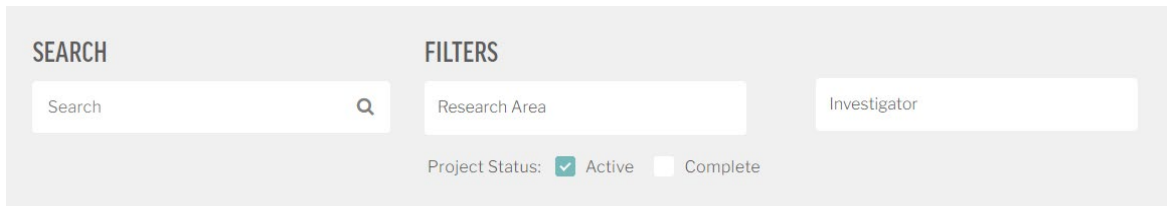


Figure 5: The above figure demonstrates the current filters available to search for projects within the AMPATH Online Project Database. Users can search and filter to identify projects and investigators.



**PRINCIPAL INVESTIGATOR**  
[Omar Galarraga, Brown University](#)

**COLLABORATORS**  
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**SPONSORS**  
NIH-National Institute of Mental Health

**RESEARCH AREAS**  
[HIV/AIDS](#), [Non-Communicable Diseases](#), [Community-Based Care](#)

**PROJECT DATES**  
07/05/19 - 04/30/24

**PROJECT STATUS**  
Active

## Harambee: Integrated Community-Based HIV/NCD Care and Microfinance Groups in Kenya

The overall objective of this project is to demonstrate the effectiveness and longer-term sustainability of an innovative differentiated care delivery model for improving HIV treatment outcomes. The specific aims are: (1) To evaluate the extent to which integrated community-based HIV care with group microfinance affects retention in care and viral suppression among PLHIV in rural western Kenya; (2) To identify specific mechanisms through which microfinance and integrated community-based care impact viral suppression; and (3) To assess the cost-effectiveness of microfinance and integrated community-based care delivery to maximize future policy and practice relevance of this promising intervention strategy.

Figure 6: The above displays the types of information available on each project's profile within the AMPATH Online Project Database, including: the project title, the primary investigator's name and link to their profile, co-collaborator names, project dates and more.

**Piloting the AMPATH Replication Assessment Tool** - As AMPATH Consortium partners establish new collaborative partnerships and “replicate” AMPATH, the AMPATH Kenya Research Program and the Research Replication Working Group created a Research Infrastructure Assessment Toolkit (RIAT). The purpose of the RIAT is to outline and pilot an approach and data collection tool to assess existing research capacity and infrastructure, environment for research, and identify areas of collaboration at partner universities and/or academic medical centers that can inform strategic planning for collaborative global health research activities. During 2022, the RIAT was piloted at both AMPATH México and AMPATH Ghana and an approach was developed to qualitatively evaluate the initial findings at each site. In 2023, the AMPATH Kenya Research Program will assess the initial data from Mexico and Ghana and utilize the findings to guide additional AMPATH replication efforts across the consortium.



**Hosting the PIC4C Dissemination Workshop** – PIC4C was a Ministry of Health (MOH) Kenya project supported by World Bank/Access Accelerated implemented by MTRH through AMPATH. It piloted an integrated care model for hypertension, diabetes, and cervical and breast cancers. The project aimed to identify health system barriers to care and develop feasible approaches and apply cost effective interventions in primary level in 73 health facilities In Busia and Trans Nzoia counties.

A three-day dissemination workshop was held to share experiences and lessons from this pilot to stakeholders drawn from MOH, MTRH, IU, AMPATH, Access Accelerated, NHIF, KEMRI, four counties among others. The workshop determined that integration of NCD control and care into primary healthcare is not only feasible but also effective, in addition to what the power of partnerships can do. It was an ideal forum to discuss possibilities of scale up and scale out of interventions to reverse and halt the rising burden of NCDs in Kenya and in resource limited set up.



*Photo 1: (Seated from Right) Eng. Charles Barasa: COH, Trans Nzoia; Ms. Mara Nakagawa: Associate Director of Implementation, Access Accelerated; Dr. Wilson Aruasa: CEO, Moi Teaching and Referral Hospital; Dr. Rashid Aman: CAS, Ministry of Health; Dr. Gregory Ganda: CECM, Kisumu County; Dr. Eva Njenga: Chair, KMPDC; Prof. Robert Tenge: Principal, MUCHS; Prof. Sylvester Kimaiyo: Chief of Party USAID, AMPATH Uzima; (Standing from Right) Prof. Winstone Nyandiko: AMPATH Executive Director of Research; and Prof. Ann Mwangi: Co-director, AMPATH's Data Analysis Team (ADAT).*

**Supporting Infrastructure Development at the Biobank** – The AMPATH Research Program Office is supporting the AMPATH Reference Laboratory to expand its infrastructure to include a fully-fledged biorepository. The objective of the biobank is to store biological material from participants who consent to have their specimen used for future research. The specimen will therefore be available to researchers beyond the primary project investigators. The team led by Prof. Kirtika Patel embarked on activities geared towards integrating the biobank operations into the AMPATH Reference Laboratory. This included developing the biobank framework, SOPs, determining infrastructure and equipment storage capacity, data cleaning and governance structure. The biobank will receive mentorship from Indiana University.

**Supporting Professional Development for Junior Faculty and Staff** – AMPATH Kenya applied to be a host site for a University of Washington online global health course titled “Fundamentals of Global Health Research” during the reporting period. The objective of this course is to equip participants with the skills necessary to design and develop a research study, write an effective proposal and conduct independent research. The course will accommodate up to 40 participants

and starts in April 2023 and finishes in June 2023. This is the third time that the AMPATH Kenya Research Program Office has been a host site for the University of Washington’s global health-focused courses.

Additionally, Dr. Kara Wools-Kaloustian hosted a four-part workshop series centered on scientific manuscript writing. These sessions led participants through the initial stages of crafting an introduction through the final portions of discussing the results and findings of a study. The goal of the series aimed to equip junior faculty and early-in-career researchers at AMPATH Kenya with the skills to successfully publish in peer-reviewed journals.

**Hosting the Universal Health Coverage Symposium** – As part of the AMPATH Gathering, the RPO, along with AMPATH Global, hosted a half-day symposium on universal healthcare coverage (UHC). This symposium featured Dr. Tim Evans, the inaugural director and associate dean of the School of Population and Global Health at McGill University. Colleagues from AMPATH sites including, Ghana, Mexico, Nepal, and Kenya, also presented during the symposium, providing further details on the steps toward universal health coverage in their respective countries. The session culminated in Q&A and a commitment by RPO to continue the discussion on ways to incorporate UHC within the policy framework and goals of the office.



*Photo 2: (Seated from Left) Dr. Adrian Gardner, Executive Director of the IU Center for Global Health and AMPATH Consortium; Prof. Sylvester Kimaiyo, Chief of Party, USAID & AMPATH Uzima; Dr. Tim Evans, Director and Associate Dean of the School of Population and Global Health, McGill University. All participated in a panel discussion during the Universal Health Coverage Symposium, Fall 2022.*

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## Appendix 1. Bibliography

The following bibliography includes all AMPATH research publications published in 2022 (159 in total). Please contact the Research Program Office at [research.manager@iukenya.org](mailto:research.manager@iukenya.org) for a complete bibliography of AMPATH research publications published since 1989 along with full text articles.

1. Apedaile D, DeLong A, Sang E, Ayuku D, Atwoli L, Galárraga O, Braitstein P. Effect of care environment on educational attainment among orphaned and separated children and adolescents in Western Kenya. *BMC Public Health*. 2022 Jan 18;22(1):123. doi: 10.1186/s12889-022-12521-5. PMID: 35042503; PMCID: PMC8764770.
2. Atkinson EG, Dalvie S, Pichkar Y, Kalungi A, Majara L, Stevenson A, Abebe T, Akena D, Alemayehu M, Ashaba FK, Atwoli L, Baker M, Chibnik LB, Creanza N, Daly MJ, Fekadu A, Gelaye B, Gichuru S, Injera WE, James R, Kariuki SM, Kigen G, Koen N, Koenen KC, Koenig Z, Kwobah E, Kyebuzibwa J, Musinguzi H, Mwema RM, Neale BM, Newman CP, Newton CRJC, Ongeru L, Ramachandran S, Ramesar R, Shiferaw W, Stein DJ, Stroud RE, Teferra S, Yohannes MT, Zingela Z, Martin AR; NeuroGAP-Psychosis Study Team. Genetic structure correlates with ethnolinguistic diversity in eastern and southern Africa. *Am J Hum Genet*. 2022 Sep 1;109(9):1667-1679. doi: 10.1016/j.ajhg.2022.07.013. PMID: 36055213.
3. Avihingsanon A, Hughes MD, Salata R, Godfrey C, McCarthy C, Mugenyi P, Hogg E, Gross R, Cardoso SW, Bukuru A, Makanga M, Badal-Aesen S, Mave V, Ndege BW, Fontain SN, Samaneka W, Secours R, Van Schalkwyk M, Mngqibisa R, Mohapi L, Valencia J, Sugandhavesa P, Montalban E, Munyanga C, Chagomerana M, Santos BR, Kumarasamy N, Kanyama C, Schooley RT, Mellors JW, Wallis CL, Collier AC, Grinsztejn B; A5288 Study team. Third-line antiretroviral therapy, including raltegravir (RAL), darunavir (DRV/r) and/or etravirine (ETR), is well tolerated and achieves durable virologic suppression over 144 weeks in resource-limited settings: ACTG A5288 strategy trial. *J Int AIDS Soc*. 2022 Jun;25(6):e25905. doi: 10.1002/jia2.25905. PMID: 36039892; PMCID: PMC9332128.
4. Bauserman M, Leuba SI, Hemingway-Foday J, Nolen TL, Moore J, McClure EM, Lokangaka A, Tsehfu A, Patterson J, Liechty EA, Esamai F, Carlo WA, Chomba E, Goldenberg RL, Saleem S, Jessani S, Koso-Thomas M, Hoffman M, Derman RJ, Meshnick SR, Bose CL. The efficacy of low-dose aspirin in pregnancy among women in malaria-endemic countries. *BMC Pregnancy Childbirth*. 2022 Apr 10;22(1):303. doi: 10.1186/s12884-022-04652-9. PMID: 35399060; PMCID: PMC8994890.
5. Bernard C, Hassan SA, Humphrey J, Thorne J, Maina M, Jakait B, Brown E, Yongo N, Kerich C, Changwony S, Qian SRW, Scallon AJ, Komanapalli SA, Enane LA, Oyaro P, Abuogi LL, Wools-Kaloustian K, Patel RC. Impacts of the COVID-19 pandemic on access to HIV and reproductive health care among women living with HIV (WLHIV) in Western Kenya: A mixed methods analysis. *Front Glob Womens Health*. 2022 Dec 12;3:943641. doi: 10.3389/fgwh.2022.943641. PMID: 36578364; PMCID: PMC9790904.
6. Bitta M, Thungana Y, Kim HH, Denckla CA, Ametaj A, Yared M, Kwagala C, Ongeru L, Stroud RE, Kwobah E, Koenen KC, Kariuki S, Zingela Z, Akena D, Newton C, Atwoli L, Teferra S, Stein DJ, Gelaye B. Cross-country variations in the reporting of psychotic symptoms among sub-Saharan African adults: A psychometric evaluation of the Psychosis Screening Questionnaire. *J Affect Disord*. 2022 May 1;304:85-92. doi: 10.1016/j.jad.2022.02.048. PMID: 35183621; PMCID: PMC9036658.
7. Boshe J, Brtek V, Beima-Sofie K, Braitstein P, Brooks M, Denison J, Donenberg G, Kemigisha E, Memiah P, Njuguna I, Poku O, Roberts ST, Shayo AM, Dow DE. Integrating Adolescent Mental Health into HIV Prevention and Treatment Programs: Can Implementation Science Pave the Path Forward? *AIDS Behav*. 2022 Nov 2:1–17. doi: 10.1007/s10461-022-03876-2. Epub ahead of print. PMID: 36322219; PMCID: PMC9629193.
8. Bourgi K, Ofner S, Musick B, Griffith B, Diero L, Wools-Kaloustian K, Yiannoutsos CT, Gupta SK. Weight Gain Among Treatment-Naïve Persons With HIV Receiving Dolutegravir in Kenya. *J Acquir Immune Defic Syndr*. 2022 Dec 15;91(5):490-496. doi: 10.1097/QAI.0000000000003087. PMID: 36126175; PMCID: PMC9814314.

9. Broen, K., Dickens, J., Trangucci, R., Ogwang, M.D., Tenge, C.N., Masalu, N., Reynolds, S.J., Kawira, E., Kerchan, P., Were, P.A. and Kuremu, R.T., 2023. Burkitt lymphoma risk shows geographic and temporal associations with *Plasmodium falciparum* infections in Uganda, Tanzania, and Kenya. *Proceedings of the National Academy of Sciences*, 120(2), p.e2211055120.
10. Buckle GC, Mrema A, Mwachiro M, Ringo Y, Selekwa M, Mulima G, Some FF, Mmbaga BT, Mody GN, Zhang L, Paciorek A, Akoko L, Ayuo P, Burgert S, Bukusi E, Charles A, Chepkemai W, Chesumbai G, Kaimila B, Kenseko A, Kibwana KS, Koech D, Macharia C, Moirana EN, Mushi BP, Mremi A, Mwaiselage J, Mwanga A, Ndumbalo J, Nvakunga G, Ngoma M, Oduor M, Oloo M, Opakas J, Parker R, Seno S, Salima A, Servent F, Wandera A, Westmoreland KD, White RE, Williams B, Mmbaga EJ, Van Loon K; of the African Esophageal Cancer Consortium (AfrECC). Treatment outcomes of esophageal cancer in Eastern Africa: protocol of a multi-center, prospective, observational, open cohort study. *BMC Cancer*. 2022 Jan 19;22(1):82. doi: 10.1186/s12885-021-09124-5. PMID: 35045815; PMCID: PMC8772224.
11. Byrne JA, Banaszak AT, Carpenter JE, Carroll SL, Castelhana MG, Espinal PS, Henderson MK, Hettiaratchi A, Maseme M, Ng W, Patel K, Popescu I, Prada SI, Schleif WS, Smith M, Wee S, Weil CJ, Woods K. Priorities in Biobanking Research: A Report on the 2021 ISBER Round Table. *Biopreserv Biobank*. 2022 May 4. doi: 10.1089/bio.2021.0178. PMID: 35507966.
12. Callen G, Chory A, Sang F, Munyoro D, Aluoch J, Scanlon M, Enane L, McHenry M, Wools-Kaloustian K, Apondi E, Vreeman R. A Qualitative Examination of Perceived Stigma and its Sources Among Adolescents Living With HIV in Western Kenya. *Glob Pediatr Health*. 2022 Jan 6;9:2333794X211065335. doi: 10.1177/2333794X211065335. PMID: 35024383; PMCID: PMC8744199.
13. Chagaluka G, Afungchwi GM, Landman L, Njuguna F, Hesselning P, Tchintseme F, Sung L, Paintsil V, Molyneux E, Chitsike I, Israels T. Treatment abandonment: A report from the collaborative African network for childhood cancer care and research-CANCaRe Africa. *Pediatr Blood Cancer*. 2021 Dec;68(12):e29367. doi: 10.1002/pbc.29367. Epub 2021 Sep 21. PMID: 34549506.
14. Chang AY, Karwa R, Odhiambo H, Were P, Fletcher SL, Tonui EC, Kohn MA, Lee J, Chang D, Lensing S, Namaemba DF, Busakhala N, Kiprono SK, Maurer T, Goodrich S, Pastakia SD. Compression Therapy for HIV-Associated Kaposi Sarcoma Leg Lymphedema: Results of the Kenyan Improvised Compression for Kaposi Sarcoma Randomized Controlled Trial. *JCO Glob Oncol*. 2022 Jan;8:e2100329. doi: 10.1200/GO.21.00329. PMID: 35025687; PMCID: PMC8769101.
15. Collaborative Initiative for Paediatric HIV Education and Research (CIPHER) Global Cohort Collaboration, Jesson J, Crichton S, Quartagno M, Yotebieng M, Abrams EJ, Chokephaibulkit K, Le Coeur S, Aké-Assi MH, Patel K, Pinto J, Paul M, Vreeman R, Davies MA, Ben-Farhat J, Van Dyke R, Judd A, Mofenson L, Vicari M, Seage G 3rd, Bekker LG, Essajee S, Gibb D, Penazzato M, Collins IJ, Wools-Kaloustian K, Slogrove A, Powis K, Williams P, Matshaba M, Thahane L, Nyasulu P, Lukhele B, Mwita L, Kekitiinwa-Rukyalekere A, Wanless S, Goetghebuer T, Thorne C, Warszawski J, Galli L, van Rossum AMC, Giaquinto C, Marczyńska M, Marques L, Prata F, Ene L, Okhonskaya L, Navarro M, Frick A, Naver L, Kahlert C, Volokha A, Chappell E, Pape JW, Rouzier V, Marcelin A, Succi R, Sohn AH, Kariminia A, Edmonds A, Lelo P, Lyamuya R, Ogalo EA, Odhiambo FA, Haas AD, Bolton C, Muhairwe J, Tweya H, Sylla M, D'Almeida M, Renner L, Abzug MJ, Oleske J, Purswani M, Teasdale C, Nuwagaba-Biribonwoha H, Goodall R, Leroy V. Growth and CD4 patterns of adolescents living with perinatally acquired HIV worldwide, a CIPHER cohort collaboration analysis. *J Int AIDS Soc*. 2022 Mar;25(3):e25871. doi: 10.1002/jia2.25871. PMID: 35255197; PMCID: PMC8901148.
16. Collier S, Semeere A, Byakwaga H, Laker-Oketta M, Chemtai L, Wagner AD, Bassett IV, Wools-Kaloustian K, Maurer T, Martin J, Kiprono S, Freeman EE. A type III effectiveness-implementation hybrid evaluation of a multicomponent patient navigation strategy for advanced-stage Kaposi's sarcoma: protocol. *Implement Sci Commun*. 2022 May 13;3(1):50. doi: 10.1186/s43058-022-00281-7. PMID: 35562783; PMCID: PMC9102240.

17. Collier S, Semeere A, Byakwaga H, Laker-Oketta M, Chemtai L, Wagner AD, Bassett IV, Wools-Kaloustian K, Maurer T, Martin J, Kiprono S. A type III effectiveness-implementation hybrid evaluation of a multicomponent patient navigation strategy for advanced-stage Kaposi's sarcoma: protocol. *Implementation Science Communications*. 2022 Dec;3(1):1-5.
18. Collier S, Singh R, Semeere A, Byakwaga H, Laker-Oketta M, McMahon DE, Chemtai L, Grant M, Butler L, Bogart L, Bassett IV, Kiprono S, Maurer T, Martin J, Busakhala N, Freeman EE. Telling the story of intersectional stigma in HIV-associated Kaposi's sarcoma in western Kenya: a convergent mixed-methods approach. *J Int AIDS Soc*. 2022 Jul;25 Suppl 1(Suppl 1):e25918. doi: 10.1002/jia2.25918. PMID: 35818882; PMCID: PMC9274375.
19. Das R, Virlan MJR, Xenaki V, Kulasekara KK, Lukandu O, Neppelberg E, Vintermyr OK, Johannessen AC, Calenic B, Costea DE. Granulocyte macrophage-colony stimulating factor and keratinocyte growth factor control of early stages of differentiation of oral epithelium. *Eur J Oral Sci*. 2022 Jun;130(3):e12867. doi: 10.1111/eos.12867. PMID: 35452148.
20. Deathe AR, Oyungu E, Ayaya SO, Ombitsa AR, McAteer CI, Vreeman RC, McHenry MS. Preventive Health Service Coverage Among Infants and Children at Six Maternal-Child Health Clinics in Western Kenya: A Cross-Sectional Assessment. *Matern Child Health J*. 2022 Mar;26(3):522-529. doi: 10.1007/s10995-021-03271-8. PMID: 34714463.
21. Duffey MM, Ayuku D, Ayodo G, Abuonji E, Nyalumbe M, Giella AK, Hook JN, Tran TM, McHenry MS. Translation and Cultural Adaptation of NIH Toolbox Cognitive Tests into Swahili and Dholuo Languages for Use in Children in Western Kenya. *J Int Neuropsychol Soc*. 2022 Apr;28(4):414-423. doi: 10.1017/S1355617721000497. PMID: 34027848; PMCID: PMC8611114.
22. Edward A, Jung Y, Etyyang G, Chhorvann C, Risko C, Ghee AE, Chege J. A comparative study of adult and adolescent maternal care continuum following community-oriented interventions in Cambodia, Guatemala, Kenya, and Zambia. *PLoS One*. 2022 Jan 13;17(1):e0261161. doi: 10.1371/journal.pone.0261161. PMID: 35025914; PMCID: PMC8758084.
23. El Salih I, Widjajanto PH, Njuguna F, Kaspers G, Mostert S. Impact of COVID-19 measures on a paediatric oncology outreach-program. *Psychooncology*. 2022 Apr 11. doi: 10.1002/pon.5934. PMID: 35403292.
24. Elias H, Dow LA, Boit J, Asirwa CF, Cornetta K. Developing Palliative Medicine as an Accredited Medical Specialty in Kenya. *JCO Glob Oncol*. 2022 May;8:e2200025. doi: 10.1200/GO.22.00025. PMID: 35594498.
25. Embleton L, Logie CH, Ngure K, Nelson L, Kimbo L, Ayuku D, Turan JM, Braitstein P. Intersectional Stigma and Implementation of HIV Prevention and Treatment Services for Adolescents Living with and at Risk for HIV: Opportunities for Improvement in the HIV Continuum in Sub-Saharan Africa. *AIDS Behav*. 2022 Jul 30. doi: 10.1007/s10461-022-03793-4. Epub ahead of print. PMID: 35907143.
26. Embleton L, Wachira J, Kiplagat J, Shah P, Blackwell-Haride V, Gayapersad A, Kamanda A, Ayuku D, Braitstein P. An intersectional analysis of socio-cultural identities and gender and health inequities among children and youth in street situations in western Kenya. *International Journal on Homelessness*. 2022 Mar 31:1-9.
27. Enane LA, Apondi E, Liepmann C, Toromo JJ, Omollo M, Bakari S, Scanlon M, Wools-Kaloustian K, Vreeman RC. 'We are not going anywhere': a qualitative study of Kenyan healthcare worker perspectives on adolescent HIV care engagement during the COVID-19 pandemic. *BMJ Open*. 2022 Mar 30;12(3):e055948. doi: 10.1136/bmjopen-2021-055948. PMID: 35354627; PMCID: PMC8968109.
28. Esamai F, Mwangi A, Nangami M, Tabu J, Ayuku D, Were E. Improving maternal and child health outcomes through a community involvement strategy in Kabula location, Bungoma County, Kenya. *Dialogues in Health*. 2022 Dec 1;1:100026.
29. Etling MA, Musili M, Eastes K, Oyungu E, McHenry MS. Creating the Map of Interactive Services Aiding and Assisting Persons With Disabilities (MSAADA) Project: Tutorial for the Novel Use of a Store Locator App. *Interact J Med Res*. 2022 Dec 8;11(2):e37036. doi: 10.2196/37036. PMID: 36480245; PMCID: PMC9782326.
30. Ezenwa BN, Umoren R, Fajolu IB, Hippe DS, Bucher S, Purkayastha S, Okwako F, Esamai F, Feltner JB, Olawuyi O, Mmboga A, Nafula MC, Paton C, Ezeaka VC. Using Mobile Virtual Reality Simulation to Prepare for In-Person

Helping Babies Breathe Training: Secondary Analysis of a Randomized Controlled Trial (the eHBB/mHBS Trial). *JMIR Med Educ.* 2022 Sep 12;8(3):e37297. doi: 10.2196/37297. PMID: 36094807.

31. Fonn S, Ray S, Couper I, Ezeh A, Omigbodun A, Morhason-Bello I, Ng'wena G, Oyungu E, Muchiri L, Tumwine J, Ibingira C, Conco D, Blaauw D. Acceptability and feasibility of inter-related activities to improve agency among African district health managers: A four-country study. *Glob Public Health.* 2022 Jul;17(7):1267-1281. doi: 10.1080/17441692.2021.1924220. Epub 2021 Jun 7. PMID: 34097583.
32. Freeman EE, McCann NC, Semeere A, Reddy KP, Laker-Oketta M, Byakwaga H, Pei PP, Fernandez ME, Kiprono S, Busakhala N, Martin JN. Evaluation of four chemotherapy regimens for treatment of advanced AIDS-associated Kaposi sarcoma in Kenya: a cost-effectiveness analysis. *The Lancet Global Health.* 2022 Aug 1;10(8):e1179-88.
33. Fritz J, Wachira J, Wilson-Barthes M, Kafu C, Chemutai D, Wilson IB, Galarraga O, Genberg BL. EE251 Cost-Effectiveness of an Enhanced Patient Care (EPC) Intervention on Viral Suppression Among Adults Living with HIV in Kenya. *Value in Health.* 2022 Jul 1;25(7):S383.
34. Giusto A, Friis-Healy EA, Kaiser BN, Ayuku D, Rono W, Puffer ES. Mechanisms of change for a family intervention in Kenya: An Integrated Clinical and Implementation Mapping approach. *Behav Res Ther.* 2022 Oct 19;159:104219. doi: 10.1016/j.brat.2022.104219. Epub ahead of print. PMID: 36283239.
35. Giusto AM, Ayuku D, Puffer ES. Learn, Engage, Act, Dedicate (LEAD): development and feasibility testing of a task-shifted intervention to improve alcohol use, depression and family engagement for fathers. *Int J Ment Health Syst.* 2022 Mar 4;16(1):16. doi: 10.1186/s13033-022-00522-1. PMID: 35246218; PMCID: PMC8896316.
36. Goldenberg RL, Saleem S, Billah SM, Kim J, Moore JL, Ghanchi NK, Haque R, Figueroa L, Ayala A, Lokangaka A, Tshetu A, Goudar SS, Kavi A, Somannavar M, Esamai F, Mwenechanya M, Chomba E, Patel A, Das P, Emonyi WI, Edidi S, Deshmukh M, Hossain B, Siraj S, Mazariegos M, Garces AL, Bauserman M, Bose CL, Petri WA Jr, Krebs NF, Derman RJ, Carlo WA, Liechty EA, Hibberd PL, Koso-Thomas M, Peres-da-Silva N, Nolen TL, McClure EM. COVID-19 antibody positivity over time and pregnancy outcomes in seven low-and-middle-income countries: A prospective, observational study of the Global Network for Women's and Children's Health Research. *BJOG.* 2022 Dec 12. doi: 10.1111/1471-0528.17366. Epub ahead of print. PMID: 36504437.
37. Halsey LG, Careau V, Pontzer H, Ainslie PN, Andersen LF, Anderson LJ, Arab L, Baddou I, Bedu-Addo K, Blaak EE, Blanc S, Bonomi AG, Bouten CVC, Bovet P, Buchowski MS, Butte NF, Camps SGJA, Close GL, Cooper JA, Das SK, Cooper R, Dugas LR, Ekelund U, Entringer S, Forrester T, Fudge BW, Goris AH, Gurven M, Hambly C, Hamdouchi AE, Hoos MB, Hu S, Joonas N, Joosen AM, Katzmarzyk P, Kempen KP, Kimura M, Kraus WE, Kushner RF, Lambert EV, Leonard WR, Lessan N, Martin CK, Medin AC, Meijer EP, Morehen JC, Morton JP, Neuhouser ML, Nicklas TA, Ojiambo RM, Pietiläinen KH, Pitsiladis YP, Plange-Rhule J, Plasqui G, Prentice RL, Rabinovich RA, Racette SB, Raichlen DA, Ravussin E, Reynolds RM, Roberts SB, Schuit AJ, Sjödin AM, Stice E, Urlacher SS, Valenti G, Van Etten LM, Van Mil EA, Wilson G, Wood BM, Yanovski J, Yoshida T, Zhang X, Murphy-Alford AJ, Loechl CU, Luke AH, Rood J, Sagayama H, Schoeller DA, Westerterp KR, Wong WW, Yamada Y, Speakman JR. Variability in energy expenditure is much greater in males than females. *J Hum Evol.* 2022 Sep 14;171:103229. doi: 10.1016/j.jhevol.2022.103229. Epub ahead of print. PMID: 36115145.
38. Heng YY, Nafiseh A, Oyungu E, Ombitsa AR, Cherop C, McHenry MS. 'I bring her up with love:' Perspectives of caregivers of children with neurodevelopmental delays in western Kenya. *Child Care Health Dev.* 2022 Jul 11. doi: 10.1111/cch.13033. Epub ahead of print. PMID: 35817560.
39. Humphrey J, Triedman M, Nyandiko W, Sang E, Kemboi E, Alera M, Novitsky V, Manne A, Jepkemboi E, Orido M, Apondi E, Vreeman R, Wools-Kaloustian K, Kantor R. A Challenging Knowledge Gap: Estimating Modes of HIV Acquisition Among Adolescents Entering HIV Care During Adolescence. *Glob Pediatr Health.* 2022 May 31;9:2333794X221101768. doi: 10.1177/2333794X221101768. PMID: 35664047; PMCID: PMC9160889.
40. Humphrey JM, Omodi V, Bernard C, Maina M, Thorne J, Mwangi A, Wools-Kaloustian K, Patel RC. Contraception use and HIV outcomes among women initiating dolutegravir-containing antiretroviral therapy in Kenya: a

- retrospective cohort study. *J Int AIDS Soc.* 2022 Dec;25(12):e26046. doi: 10.1002/jia2.26046. PMID: 36567432; PMCID: PMC9790976.
41. Humphrey JM, Songok J, Ofner S, Musick B, Alera M, Kipchumba B, McHenry MS, Carlucci JG, Park J, Mwangi W, Yiannoutsos C, Bakoyannis G, Wools-Kaloustian K. Retention in care and viral suppression in the PMTCT continuum at a large referral facility in western Kenya. *AIDS Behav.* 2022 Apr 25. doi: 10.1007/s10461-022-03666-w. PMID: 35467229.
  42. Jaguga F, Ametaj A, Kim HH, Stroud RE, Newton CR, Kariuki SM, Kwobah EK, Atwoli L, Gelaye B, Korte KJ. Factor structure and item response of psychosis symptoms among Kenyan adults. *J Affect Disord.* 2022 Aug 24;317:136-141. doi: 10.1016/j.jad.2022.08.038. Epub ahead of print. PMID: 36028013.
  43. Jaguga F, Kiburi SK, Temet E, Barasa J, Karanja S, Kinyua L, Kwobah EK. A systematic review of substance use and substance use disorder research in Kenya. *PLoS One.* 2022 Jun 9;17(6):e0269340. doi: 10.1371/journal.pone.0269340. PMID: 35679248; PMCID: PMC9186181.
  44. Jaguga F, Kwobah EK, Barasa J, Mwogi T, Giusto A. Addressing the substance use treatment gap in Africa using digital screening and brief interventions. *Lancet Psychiatry.* 2022 May;9(5):347-348. doi: 10.1016/S2215-0366(22)00096-7. PMID: 35429998.
  45. Jaguga F, Kwobah EK, Mwangi A, Patel K, Mwogi T, Kiptoo R, Atwoli L. Harmful Alcohol Use Among Healthcare Workers at the Beginning of the COVID-19 Pandemic in Kenya. *Front Psychiatry.* 2022 Feb 28;13:821610. doi: 10.3389/fpsy.2022.821610. PMID: 35295779; PMCID: PMC8918611.
  46. Jaguga F, Turissini M, Barasa J, Kimaiyo M, Araka J, Okeyo L, Kwobah E. A descriptive survey of substance use treatment facilities in Uasin Gishu County Kenya. *BMC Health Serv Res.* 2022 May 14;22(1):645. doi: 10.1186/s12913-022-08051-w. PMID: 35568902;
  47. Johnson CA, Tran DN, Mwangi A, Sosa-Rubí SG, Chivardi C, Romero-Martínez M, Pastakia S, Robinson E, Jennings Mayo-Wilson L, Galárraga O. Incorporating respondent-driven sampling into web-based discrete choice experiments: preferences for COVID-19 mitigation measures. *Health Serv Outcomes Res Methodol.* 2022 Jan 11:1-20. doi: 10.1007/s10742-021-00266-4. Epub ahead of print. PMID: 35035272; PMCID: PMC8747856.
  48. Justice AC, Goetz MB, Stewart CN, Hogan BC, Humes E, Luz PM, Castilho JL, Nash D, Brazier E, Musick B, Yiannoutsos C, Malateste K, Jaquet A, Cornell M, Shamu T, Rajasuriar R, Jiamsakul A, Althoff KN. Delayed presentation of HIV among older individuals: a growing problem. *Lancet HIV.* 2022 Apr;9(4):e269-e280. doi: 10.1016/S2352-3018(22)00003-0. PMID: 35218732.
  49. Kafu C, Wachira J, Omodi V, Said J, Pastakia SD, Tran DN, Onyango JA, Aburi D, Wilson-Barthes M, Galárraga O, Genberg BL. Integrating community-based HIV and non-communicable disease care with microfinance groups: a feasibility study in Western Kenya. *Pilot Feasibility Stud.* 2022 Dec 28;8(1):266. doi: 10.1186/s40814-022-01218-6. PMID: 36578093; PMCID: PMC9795156.
  50. Kamau PT, Koech M, Hecht SM, McHenry MS, Songok J. Assessment of neonatal resuscitation skills among healthcare workers in Uasin Gishu County, Kenya. *SAGE Open Med.* 2022 Aug 25;10:20503121221119296. doi: 10.1177/20503121221119296. PMID: 36051784; PMCID: PMC9424879.
  51. Karoney MJ, Koech MK, Njiru EW, Owino Ong'or WD. Proximal tubular renal dysfunction among HIV infected patients on Tenofovir versus Tenofovir sparing regimen in western Kenya. *PLoS One.* 2022 Sep 15;17(9):e0273183. doi: 10.1371/journal.pone.0273183. PMID: 36108078; PMCID: PMC9477312.
  52. Kelly CM, Some F, Guiles DA, Turissini M, Gardner A, Litzelman DK. A framework for reinitiating global academic exchange in the context of the COVID-19 pandemic. *Int J Med Educ.* 2022 Sep 9;13:256-8.
  53. Kelly JD. *From AIDS to Population Health: How an American University and a Kenyan Medical School Transformed Healthcare in East Africa.* Indiana University Press; 2022 Nov 1.
  54. Khan M, MacEntee K, Kiptui R, Van Berkum A, Oudshoorn A, Ayuku DO, Apondi E, Lee EOJ, Abramovich A, MacDonald SA, Braitstein P. Barriers to and facilitators of accessing HIV services for street-involved youth in

- Canada and Kenya. *BMC Public Health*. 2022 Oct 12;22(1):1901. doi: 10.1186/s12889-022-14290-7. PMID: 36224566; PMCID: PMC9555255.
55. Kibel M, Thorne J, Kerich C, Naanyu V, Yego F, Christoffersen-Deb A, Bernard C. Acceptability and feasibility of community-based provision of urine pregnancy tests to support linkages to reproductive health services in Western Kenya: a qualitative analysis. *BMC Pregnancy Childbirth*. 2022 Sep 1;22(1):674. doi: 10.1186/s12884-022-04869-8. PMID: 36050632; PMCID: PMC9434878.
  56. Kimaina A, Dick J, Sadjad B. OpenMRS Analytics Engine: A FHIR Based Approach. *Stud Health Technol Inform*. 2022 Jun 6;290:314-315. doi: 10.3233/SHTI220086. PMID: 35673025.
  57. Kinshella MW, Naanyu V, Chomba D, Waiyego M, Rigg J, Coleman J, Hwang B, Ansermino JM, Macharia WM, Ginsburg AS. Qualitative study exploring the feasibility, usability and acceptability of neonatal continuous monitoring technologies at a public tertiary hospital in Nairobi, Kenya. *BMJ Open*. 2022 Jan 11;12(1):e053486. doi: 10.1136/bmjopen-2021-053486. PMID: 35017248; PMCID: PMC8753390.
  58. Kiplagat J, Justice A. HIV viral suppression is key to healthy longevity. *The Lancet HIV*. 2022 Oct 1;9(10):e672-3.
  59. Kiplagat J, Njuguna B, Kamaara E. Reprogramming HIV Prevention and Service Provision for Older Adults in Western Kenya. In *Aging with HIV in Sub-Saharan Africa 2022* (pp. 177-193). Springer, Cham.
  60. Kiplagat J, Tran DN, Barber T, Njuguna B, Vedanthan R, Triant VA, Pastakia SD. How health systems can adapt to a population ageing with HIV and comorbid disease. *Lancet HIV*. 2022 Feb 23:S2352-3018(22)00009-1. doi: 10.1016/S2352-3018(22)00009-1. PMID: 35218734.
  61. Kiragu ZW, Gathecha G, Mwangi MK, Ndegwa Z, Pastakia S, Nyagah D, Cizungu RN, Takah Mutwiri M, Ndolo M, Wirtz VJ. Access to Medicines for Non-Communicable Diseases (NCDS) during COVID-19 in Kenya: A Descriptive Commentary. *Health Syst Reform*. 2021 Jan 1;7(1):e1984865. doi: 10.1080/23288604.2021.1984865. PMID: 34748436.
  62. Koech MK, Ali SM, Karoney MJ, Kigen G. Severe abacavir hypersensitivity reaction in a patient with human immunodeficiency virus infection: a case report. *J Med Case Rep*. 2022 Nov 8;16(1):407. doi: 10.1186/s13256-022-03647-6. PMID: 36345015; PMCID: PMC9641955.
  63. Koros, H., Nolte, E., Kamano, J., Mugo, R., Murphy, A., Naanyu, V., Willis, R., Pliakas, T., Eton, D.T., Barasa, E. and Perel, P., 2023. Understanding the treatment burden of people with chronic conditions in Kenya: A cross-sectional analysis using the Patient Experience with Treatment and Self-Management (PETS) questionnaire. *PLOS Global Public Health*, 3(1), p.e0001407.
  64. Kwobah EK, Misra S, Ametaj AA, Stevenson A, Stroud RE, Koenen KC, Gelaye B, Kariuki SM, Newton CR, Atwoli L. Traumatic experiences assessed with the life events checklist for Kenyan adults. *J Affect Disord*. 2022 Apr 15;303:161-167. doi: 10.1016/j.jad.2022.02.011. PMID: 35167925;
  65. Laktabai J, Mobley VL, Prudhomme-O'Meara W, Taylor SM. Associations between Antenatal Syphilis Test Results and Adverse Pregnancy Outcomes in Western Kenya. *The American journal of tropical medicine and hygiene*. 2022 Jul 5;107(2):401-6.
  66. Laktabai J, Platt AC, Turner E, Saran I, Kipkoech J, Menya D, O'Meara WP. Community-Based Malaria Testing Reduces Polypharmacy in a Population-Based Survey of Febrile Illness in Western Kenya. *Int J Public Health*. 2022 Aug 25;67:1604826. doi: 10.3389/ijph.2022.1604826. PMID: 36090831; PMCID: PMC9453644.
  67. Lapp Z, Obala AA, Abel L, Rasmussen DA, Sumner KM, Freedman E, Taylor SM, Prudhomme-O'Meara W. *Plasmodium falciparum* Genetic Diversity in Coincident Human and Mosquito Hosts. *mBio*. 2022 Sep 8:e0227722. doi: 10.1128/mbio.02277-22. Epub ahead of print. PMID: 36073811.
  68. Lee JA, Wanjiku G, Nduku N, Aluisio AR, Kharel R, Simiyu JT, Wachira BW. The status and future of emergency care in the Republic of Kenya. *Afr J Emerg Med*. 2022 Mar;12(1):48-52. doi: 10.1016/j.afjem.2021.11.003. Epub 2022 Jan 12. PMID: 35070654; PMCID: PMC8761612.
  69. Leuba SI, Westreich D, Bose CL, Powers KA, Olshan A, Taylor SM, Tshetu A, Lokangaka A, Carlo WA, Chomba E, Liechty EA, Bucher SL, Esamai F, Jessani S, Saleem S, Goldenberg RL, Moore J, Nolen T, Hemingway-Foday J,



- McClure EM, Koso-Thomas M, Derman RJ, Hoffman M, Bauserman M. Predictors of Plasmodium falciparum Infection in the First Trimester Among Nulliparous Women From Kenya, Zambia, and the Democratic Republic of the Congo. *J Infect Dis.* 2022 Jun 1;225(11):2002-2010. doi: 10.1093/infdis/jiab588. PMID: 34888658; PMCID: PMC9159331.
70. Lewis JT, Stephens J, Musick B, Brown S, Malateste K, Ha Dao Ostinelli C, Maxwell N, Jayathilake K, Shi Q, Brazier E, Kariminia A, Hogan B, Duda SN; on the behalf of leDEA. The leDEA harmonist data toolkit: A data quality and data sharing solution for a global HIV research consortium. *J Biomed Inform.* 2022 Jun 6;131:104110. doi: 10.1016/j.jbi.2022.104110. PMID: 35680074.
71. Liao HM, Liu H, Chin PJ, Li B, Hung GC, Tsai S, Otim I, Legason ID, Ogwang MD, Reynolds SJ, Kerchan P, Tenge CN, Were PA, Kuremu RT, Wekesa WN, Masalu N, Kawira E, Ayers LW, Pfeiffer RM, Bhatia K, Goedert JJ, Lo SC, Mbulaiteye SM. Epstein-Barr Virus in Burkitt Lymphoma in Africa Reveals a Limited Set of Whole Genome and *LMP-1* Sequence Patterns: Analysis of Archival Datasets and Field Samples From Uganda, Tanzania, and Kenya. *Front Oncol.* 2022 Mar 7;12:812224. doi: 10.3389/fonc.2022.812224. PMID: 35340265; PMCID: PMC8948429.
72. Longombe AL, Ayede AI, Marete I, Mir F, Ejembi CL, Shahidullah M, Adejuyigbe EA, Wammanda RD, Tshefu A, Esamai F, Zaidi AK, Baqui AH, Cousens S. Oral amoxicillin plus gentamicin regimens may be superior to the procaine-penicillin plus gentamicin regimens for treatment of young infants with possible serious bacterial infection when referral is not feasible: Pooled analysis from three trials in Africa and Asia. *J Glob Health.* 2022 Nov 21;12:04084. doi: 10.7189/jogh.12.04084. PMID: 36403158.
73. Lora, Alfredo J. Mena, Jessica E. Long, Yunda Huang, Lindsey R. Baden, Hana M. El Sahly, Dean Follmann, Paul Goepfert et al. "Rapid Development of an Integrated Network Infrastructure to Conduct Phase 3 COVID-19 Vaccine Trials." *JAMA Network Open* 6, no. 1 (2023): e2251974-e2251974.
74. MacEntee K, Lee EOJ, Oudshoorn A, Abramovich A, Kiptui R, Ayuku D, Van Berkum A, Saarela O, Tang TS, Apondi E, Wachira J, MacDonald SA, Braitstein P. Using scenario videos with Theatre Testing method to adapt a peer navigation model to improve street-connected youth's access to HIV care in Kenya and Canada. *Front Public Health.* 2022 Nov 3;10:975117. doi: 10.3389/fpubh.2022.975117. PMID: 36408034; PMCID: PMC9669244.
75. Mamuti S, Tabu C, Marete I, Opili D, Jalang'o R, Abade A. Measles containing vaccine coverage and factors associated with its uptake among children aged 24-59 months in Cherangany Sub County, Trans Nzoia County, Kenya. *PLoS One.* 2022 Feb 23;17(2):e0263780. doi: 10.1371/journal.pone.0263780. PMID: 35196355; PMCID: PMC8865666.
76. Mangeni JN, Abel L, Taylor SM, Obala A, O'Meara WP, Saran I. Experience and confidence in health technologies: evidence from malaria testing and treatment in Western Kenya. *BMC Public Health.* 2022 Sep 6;22(1):1689. doi: 10.1186/s12889-022-14102-y. PMID: 36068516; PMCID: PMC9446607.
77. Manne A, DeLong A, Nyandiko W, DeLong AK, Vreeman R, Novitsky V, Ngeresa A, Sang E, Chory A, Aluoch J, Jepkemboi E, Orido M, Ashimosi C, Sang F, Hogan JW, Kantor R; RESPECT (Resistance in a Pediatric Cohort) Study. Real-Life Feasibility of HIV Drug Resistance Testing Using Dried Filter Analytes in Kenyan Children and Adolescents Living with HIV. *Microbiol Spectr.* 2022 Apr 7:e0267521. doi: 10.1128/spectrum.02675-21. PMID: 35389242.
78. Markwalter CF, Menya D, Wesolowski A, Esimit D, Lokoel G, Kipkoech J, Freedman E, Sumner KM, Abel L, Ambani G, Meredith HR. Plasmodium falciparum importation does not sustain malaria transmission in a semi-arid region of Kenya. *PLOS Global Public Health.* 2022 Aug 10;2(8):e0000807.
79. Martin AR, Stroud RE 2nd, Abebe T, Akena D, Alemayehu M, Atwoli L, Chapman SB, Flowers K, Gelaye B, Gichuru S, Kariuki SM, Kinyanjui S, Korte KJ, Koen N, Koenen KC, Newton CRJC, Olivares AM, Pollock S, Post K, Singh I, Stein DJ, Teferra S, Zingela Z, Chibnik LB. Increasing diversity in genomics requires investment in equitable partnerships and capacity building. *Nat Genet.* 2022 Jun;54(6):740-745. doi: 10.1038/s41588-022-01095-y. PMID: 35668301.
80. Masukume G, Mmbaga BT, Dzamalala CP, Mlombe YB, Finch P, Nyakunga-Marro G, Mremi A, Middleton DRS, Narh CT, Chasimpha SJD, Abedi-Ardekani B, Menya D, Schüz J, McCormack V. A very-hot food and beverage thermal

- exposure index and esophageal cancer risk in Malawi and Tanzania: findings from the ESCCAPE case-control studies. *Br J Cancer*. 2022 Jun 29. doi: 10.1038/s41416-022-01890-8. Epub ahead of print. PMID: 35768549.
81. Matthews J, Bhatia MB, Thomas C, Okoth P, Martinez CR, Levy JS, Stefanidis D, Hunter-Squires JL, Saruni SI. AMPATH surgical app: Low-cost simulator for the open appendectomy. *Surgery*. 2022 Sep 16:S0039-6060(22)00585-2. doi: 10.1016/j.surg.2022.07.023. Epub ahead of print. PMID: 36123174.
  82. Mbai J, Njoroge S, Obonyo M, Otieno C, Owiny M, Fèvre EM. Campylobacter Positivity and Public Health Risks in Live Bird Markets, Busia, Kenya. A Value Chain Analysis. *Transbound Emerg Dis*. 2022 Mar 16. doi: 10.1111/tbed.14518. Epub ahead of print. PMID: 35293702.
  83. Mburu A, Tonui P, Keitany K, Osborne RJ. The pregnancy that wasn't: challenges of gestational trophoblastic neoplasia management in low- and middle-income countries. *Int J Gynecol Cancer*. 2022 Jul 4;32(7):944-948. doi: 10.1136/ijgc-2022-003569. PMID: 35788113.
  84. Mburu AW, Itsura PM, Orang'o EO, Tonui PK, Odongo EB, Shaffi AF, Muliro HN, Achia TN, Covens AL, Rosen BP. Epidemiological profile and clinico-pathological features of pediatric gynecological cancers at Moi Teaching & Referral Hospital, Kenya. *Gynecol Oncol Rep*. 2022 Mar 10;40:100956. doi: 10.1016/j.gore.2022.100956. PMID: 35300053; PMCID: PMC8920865.
  85. Mbuthia GW, Magutah K, Pellowski J. Approaches and outcomes of community health worker's interventions for hypertension management and control in low-income and middle-income countries: systematic review. *BMJ Open*. 2022 Apr 1;12(4):e053455. doi: 10.1136/bmjopen-2021-053455. PMID: 35365519; PMCID: PMC8977767.
  86. McCormack V, Middleton DRS, Mmbaga BT, Menya D, Dzamalala C, Nyakunga-Marro G, Finch P, Mlombe Y, Schüz J. The evidence gap between alcohol consumption and oesophageal squamous cell carcinoma in east Africa - Authors' reply. *Lancet Glob Health*. 2022 May;10(5):e623. doi: 10.1016/S2214-109X(22)00116-4. PMID: 35427516.
  87. McLigeyo A, Rajab J, Oyiro P, Ezzi M, Bett Y, Ong'ondi M, Odhiambo A, Mwanzi S, Othieno-Abinya N. Baseline blood count levels increase odds of cytopenia among CML patients in Kenya: a case control study. *BMC Cancer*. 2022 Feb 1;22(1):128. doi: 10.1186/s12885-021-09162-z. PMID: 35105321; PMCID: PMC8805406.
  88. McMahan DE, Chemtai L, Grant M, Singh R, Semeere A, Byakwaga H, Laker-Oketta M, Maurer T, Busakhala N, Martin J, Bassett IV, Butler L, Freeman EE. Understanding Diagnostic Delays for Kaposi Sarcoma in Kenya: A Qualitative Study. *J Acquir Immune Defic Syndr*. 2022 May 2. doi: 10.1097/QAI.0000000000003011. PMID: 35499523.
  89. McMahan DE, Chemtai L, Grant M, Singh R, Semeere A, Byakwaga H, Laker-Oketta M, Maurer T, Busakhala N, Martin J, Bassett IV. Understanding Diagnostic Delays for Kaposi Sarcoma in Kenya: A Qualitative Study. *JAIDS Journal of Acquired Immune Deficiency Syndromes*. 2022 Aug 15;90(5):494-503.
  90. McMahan DE, Singh R, Chemtai L, Semeere A, Byakwaga H, Grant M, Laker-Oketta M, Lagat C, Collier S, Maurer T, Martin J, Bassett IV, Butler L, Kiprono S, Busakhala N, Freeman EE. Barriers and facilitators to chemotherapy initiation and adherence for patients with HIV-associated Kaposi's sarcoma in Kenya: a qualitative study. *Infect Agent Cancer*. 2022 Jul 6;17(1):37. doi: 10.1186/s13027-022-00444-0. PMID: 35794634; PMCID: PMC9258164.
  91. Merchant EV, Fatima T, Fatima A, Maiyo N, Mutuku V, Keino S, Simon JE, Hoffman DJ, Downs SM. The Influence of Food Environments on Food Security Resilience during the COVID-19 Pandemic: An Examination of Urban and Rural Difference in Kenya. *Nutrients*. 2022 Jul 18;14(14):2939. doi: 10.3390/nu14142939. PMID: 35889896; PMCID: PMC9322483.
  92. Mugalo EL, Akello WA, Mburu NE, Kimani W, Rono DK, Musau P. Primary bladder neck obstruction (PBNO) in children in a resource-limited setting. *Urol Case Rep*. 2022 Jun 27;44:102150. doi: 10.1016/j.eucr.2022.102150. PMID: 35800150; PMCID: PMC9253996.
  93. Muro FJ, Lyamuya FS, Kwobah C, Bollinger J, Bodinayake CK, Nagahawatte A, Piyasiri B, Kurukulasooriya R, Ali S, Mallya R, Rolfe R Jr, Ruwanpathirana A, Sheng T, Østbye T, Drew R, Kussin P, Woods CW, Anderson DJ, Mmbaga BT, Tillekeratne LG. Opportunities for Improving Antimicrobial Stewardship: Findings From a Prospective, Multi-

- Center Study in Three Low- or Middle-Income Countries. *Front Public Health*. 2022 Apr 25;10:848802. doi: 10.3389/fpubh.2022.848802. PMID: 35548085; PMCID: PMC9081325.
94. Muteti EN, Rotich GK, Opakas JE, de Souza AMG. Limb Salvage Surgery in Osteosarcoma of the Femur Using Liquid-Nitrogen-Frozen Free Femur Autograft in a Developing Country. *J Orthop Case Rep*. 2022;12(5):75-78. doi: 10.13107/jocr.2022.v12.i05.2824. PMID: 36660159; PMCID: PMC9826550.
95. Mwangi J, Ternent L, Ujiji POA, Were E, Ekström AM. Health related quality of life among pregnant women living with HIV in Kenya, results from comparing a patient generated index and the Euroqol 5 dimension 3 level. *BMC Womens Health*. 2022 Mar 9;22(1):66. doi: 10.1186/s12905-022-01646-9. PMID: 35264177; PMCID: PMC8908667.
96. Myers C, Apondi E, Toromo JJ, Omollo M, Bakari S, Aluoch J, Sang F, Njoroge T, Morris Z, Kantor R, Braitstein P, Nyandiko WM, Wools-Kaloustian K, Elul B, Vreeman RC, Enane LA. "Who am I going to stay with? Who will accept me?": family-level domains influencing HIV care engagement among disengaged adolescents in Kenya. *J Int AIDS Soc*. 2022 Feb;25(2):e25890. doi: 10.1002/jia2.25890. PMID: 35192747.
97. Naanyu V, Koros H, Maritim B, Kamano J, Too K, Limo O, Gathecha G. A Protocol on Using the RE-AIM Framework in the Process Evaluation of the Primary Health Integrated Care Project for Four Chronic Conditions in Kenya. *Front Public Health*. 2022 Jan 12;9:781377. doi: 10.3389/fpubh.2021.781377. PMID: 35096740; PMCID: PMC8790115.
98. Nabakwe EC, Egesah O, Kiverenge-Ettsyang GA. Maternal and health care workers' perspectives on exclusive breastfeeding in the context of maternal HIV infection, in Busia county, western Kenya: a mixed methods cross-sectional survey. *International Breastfeeding Journal*. 2022 Dec;17(1):1-3.
99. Naqvi F, Naqvi S, Billah SM, Saleem S, Fogleman E, Peres-da-Silva N, Figueroa L, Mazariegos M, Garces AL, Patel A, Das P, Kavi A, Goudar SS, Esamai F, Chomba E, Lokangaka A, Tshetu A, Haque R, Siraj S, Yousaf S, Bauserman M, Liechty EA, Krebs NF, Derman RJ, Carlo WA, Petri WA Jr, Hibberd PL, Koso-Thomas M, Bann CM, McClure EM, Goldenberg RL. Knowledge, attitude and practices of pregnant women related to COVID-19 infection: A cross-sectional survey in seven countries from the Global Network for Women's and Children's Health. *BJOG*. 2022 Jul;129(8):1289-1297. doi: 10.1111/1471-0528.17122. Epub 2022 Mar 10. PMID: 35157346; PMCID: PMC9111113.
100. Naqvi S, Naqvi F, Saleem S, Thorsten VR, Figueroa L, Mazariegos M, Garces A, Patel A, Das P, Kavi A, Goudar SS, Esamai F, Mwenchanya M, Chomba E, Lokangaka A, Tshetu A, Yousuf S, Bauserman M, Bose CL, Liechty EA, Krebs NF, Derman RJ, Carlo WA, Hibberd PL, Billah SM, Peres-da-Silva N, Haque R, Petri WA Jr, Koso-Thomas M, Nolen T, McClure EM, Goldenberg RL. Health care in pregnancy during the COVID-19 pandemic and pregnancy outcomes in six low- and-middle-income countries: Evidence from a prospective, observational registry of the Global Network for Women's and Children's Health. *BJOG*. 2022 Jul;129(8):1298-1307. doi: 10.1111/1471-0528.17175. PMID: 35377514; PMCID: PMC9111322.
101. Naqvi S, Saleem S, Naqvi F, Billah SM, Nielsen E, Fogleman E, Peres-da-Silva N, Figueroa L, Mazariegos M, Garces AL, Patel A, Das P, Kavi A, Goudar SS, Esamai F, Chomba E, Lokangaka A, Tshetu A, Haque R, Siraj S, Yousaf S, Bauserman M, Liechty EA, Krebs NF, Derman RJ, Carlo WA, Petri WA Jr, Hibberd PL, Koso-Thomas M, Thorsten V, McClure EM, Goldenberg RL. Knowledge, attitudes, and practices of pregnant women regarding COVID-19 vaccination in pregnancy in 7 low and middle-income countries: An observational trial from the Global Network. *BJOG*. 2022 May 21. doi: 10.1111/1471-0528.17226.
102. Ngeno GTK, Barasa F, Kamano J, Kwobah E, Wambui C, Binanay C, Egger JR, Kussin PS, Thielman NM, Bloomfield GS. Feasibility of Cardiac Rehabilitation Models in Kenya. *Ann Glob Health*. 2022 Jan 18;88(1):7. doi: 10.5334/aogh.3392. PMID: 35087707; PMCID: PMC8782083.
103. Nolte E, Kamano JH, Naanyu V, Etyang A, Gasparrini A, Hanson K, Koros H, Mugo R, Murphy A, Oyando R, Pliakas T, Were V, Willis R, Barasa E, Perel P. Scaling up the primary health integrated care project for chronic conditions in Kenya: study protocol for an implementation research project. *BMJ Open*. 2022 Mar 16;12(3):e056261. doi: 10.1136/bmjopen-2021-056261. PMID: 35296482.

104. Nomburg J, Bullman S, Nasrollahzadeh D, Collisson EA, Abedi-Ardekani B, Akoko LO, Atkins JR, Buckle GC, Gopal S, Hu N, Kaimila B, Khoshnia M, Malekzadeh R, Menya D, Mmbaga BT, Moody S, Mulima G, Mushi BP, Mwaiselage J, Mwangi A, Newton Y, Ng DL, Radenbaugh A, Rwakatemba DS, Selekwia M, Schüz J, Taylor PR, Vaske C, Goldstein A, Stratton MR, McCormack V, Brennan P, DeCaprio JA, Meyerson M, Mmbaga EJ, Van Loon K. An international report on bacterial communities in esophageal squamous cell carcinoma. *Int J Cancer*. 2022 Jul 15. doi: 10.1002/ijc.34212. Epub ahead of print. PMID: 35837755.
105. Novitsky V, Nyandiko W, Vreeman R, DeLong AK, Manne A, Scanlon M, Ngeresa A, Aluoch J, Sang F, Ashimosi C, Jepkemboi E, Orido M, Hogan JW, Kantor R; RESistance in a PEdiatric Cohort (RESPECT) Study. Added Value of Next Generation over Sanger Sequencing in Kenyan Youth with Extensive HIV-1 Drug Resistance. *Microbiol Spectr*. 2022 Dec 21;10(6):e0345422. doi: 10.1128/spectrum.03454-22. Epub 2022 Nov 29. PMID: 36445146; PMCID: PMC9769539.
106. Nyandat J, Murthy S, Muttalib F. Challenges and Opportunities for Implementing Pediatric Early Warning Systems in Low- and Middle-Income Countries-Using Resources Wisely. *JAMA Netw Open*. 2022 Mar 1;5(3):e221553. doi: 10.1001/jamanetworkopen.2022.1553. PMID: 35262722.
107. Nyandiko W, Chory A, Baum A, Aluoch J, Ashimosi C, Scanlon M, Martin R, Wachira J, Beigon W, Munyoro D, Apondi E, Vreeman R. Multi-media teacher training and HIV-related stigma among primary and secondary school teachers in Western Kenya. *AIDS Care*. 2022 Sep 5:1-8. doi: 10.1080/09540121.2022.2119473. Epub ahead of print. PMID: 36062364.
108. Nyandiko W, Holland S, Vreeman R, DeLong AK, Manne A, Novitsky V, Sang F, Ashimosi C, Ngeresa A, Chory A, Aluoch J, Orido M, Jepkemboi E, Sam SS, Caliendo AM, Ayaya S, Hogan JW, Kantor R; Resistance in a Pediatric Cohort (RESPECT) Study. HIV-1 Treatment Failure, Drug Resistance, and Clinical Outcomes in Perinatally Infected Children and Adolescents Failing First-Line Antiretroviral Therapy in Western Kenya. *J Acquir Immune Defic Syndr*. 2022 Feb 1;89(2):231-239. doi: 10.1097/QAI.0000000000002850. PMID: 34723922; PMCID: PMC8752470.
109. Nyangena J, Some K, Kuria M, Nangulu A, Kasasa S, da Costa Vroom FB, Wright G, Were MC. Developing Harmonized Benchmarks for the Master of Science in Health Informatics for the East African Region. *Stud Health Technol Inform*. 2022 Jun 6;290:907-911. doi: 10.3233/SHTI220211. PMID: 35673150.
110. Oberlin A, Wallace J, Moore JL, Saleem S, Lokangaka A, Tshetu A, Bauserman M, Figueroa L, Krebs NF, Esamai F, Liechty E, Bucher S, Patel AB, Hibberd PL, Chomba E, Carlo WA, Goudar S, Derman RJ, Koso-Thomas M, McClure EM, Goldenberg RL. Examining maternal morbidity across a spectrum of delivery locations: An analysis of the Global Network's Maternal and Neonatal Health Registry. *Int J Gynaecol Obstet*. 2022 Aug 10. doi: 10.1002/ijgo.14391. Epub ahead of print. PMID: 35949060.
111. Ochomo EO, Ndege S, Itsura P. Focused Training of Community Health Volunteers on Cervical Cancer in Rural Kisumu. *J Cancer Educ*. 2022 Apr;37(2):466-473. doi: 10.1007/s13187-020-01839-6. PMID: 32720131; PMCID: PMC7855100.
112. Ojji DB, Cornelius V, Partington G, Francis V, Pandie S, Smythe W, Hickman N, Barasa F, Damasceno A, Dzudie A, Jones E, Ingabire PM, Mondo C, Ogah O, Ogola E, Sani MU, Shedul GL, Shedul G, Rayner B, Sliwa K, Poulter N; for CREOLE Investigators. Effect of 3, 2-Drug Combinations of Antihypertensive Therapies on Blood Pressure Variability in Black African Patients: Secondary Analyses of the CREOLE Trial. *Hypertension*. 2022 Nov;79(11):2593-2600. doi: 10.1161/HYPERTENSIONAHA.121.18333. Epub 2022 Sep 2. PMID: 36052684.
113. Ojji DB, Shedul GL, Sani M, Ogah OS, Dzudie A, Barasa F, Mondo C, Ingabire PM, Jones ESW, Rayner B, Albertino D, Ogola E, Smythe W, Hickman N, Francis V, Shahiemah P, Shedul G, Aje A, Sliwa K, Stewart S. A Differential Response to Antihypertensive Therapy in African Men and Women: Insights From the CREOLE Trial. *Am J Hypertens*. 2022 Jun 16;35(6):551-560. doi: 10.1093/ajh/hpac014. PMID: 35134817.
114. Omondi P, Nyongesa P, Chemalan BK, Itsura P. Low-dose oxytocin as an adjunct to Foley catheter for cervical ripening in nulliparous women at MTRH, Eldoret, Kenya: A randomized controlled trial. *Int J Gynaecol Obstet*. 2022 May;157(2):397-404. doi: 10.1002/ijgo.13861. Epub 2021 Aug 30. PMID: 34358344.

115. Omulo S, Oluka M, Achieng L, Osoro E, Kinuthia R, Guantai A, Opanga SA, Ongayo M, Ndegwa L, Verani JR, Wesangula E, Nyakiba J, Makori J, Sugut W, Kwobah C, Osuka H, Njenga MK, Call DR, Palmer GH, VanderEnde D, Luvsansharav UO. Point-prevalence survey of antibiotic use at three public referral hospitals in Kenya. *PLoS One*. 2022 Jun 16;17(6):e0270048. doi: 10.1371/journal.pone.0270048. PMID: 35709220.
116. Ongeru L, Ametaj A, Kim H, Stroud RE, Newton CR, Kariuki SM, Atwoli L, Kwobah E, Gelaye B. Measuring psychological distress using the K10 in Kenya. *J Affect Disord*. 2022 Feb 11;303:155-160. doi: 10.1016/j.jad.2022.02.012. Epub ahead of print. PMID: 35151672; PMCID: PMC7612413.
117. Orang'o, E.O., Bocage, A.E., Liu, T.D., Itsura, P.M., Tonui, P.K., Muthoka, K., Stephen, K., Caliendo, A.M., Sam, S.S. and Cu-Uvin, S., 2023, January. Human Immunodeficiency Virus Type 1 RNA Genital Tract Shedding After Cryotherapy for Cervical Intraepithelial Neoplasia in Western Kenya. In *Open Forum Infectious Diseases* (Vol. 10, No. 1, p. ofac662). US: Oxford University Press.
118. Oyungu E, El Kebbi O, Vreeman R, Nyandiko W, Monahan PO, Tu W, Khaitan A, Desta Z, Slogrove AL, Humphrey JM, Were E, Patel RC, Carlucci JG, Wools-Kaloustian K, McHenry MS. Predicting neurodevelopmental risk in children born to mothers living with HIV in Kenya: protocol for a prospective cohort study (Tabiri Study). *BMJ Open*. 2022 Apr 4;12(4):e061051. doi: 10.1136/bmjopen-2022-061051. PMID: 35379648; PMCID: PMC8981283.
119. Patel AB, Bann CM, Kolhe CS, Lokangaka A, Tshetu A, Bauserman M, Figueroa L, Krebs NF, Esamai F, Bucher S, Saleem S, Goldenberg RL, Chomba E, Carlo WA, Goudar S, Derman RJ, Koso-Thomas M, McClure EM, Hibberd PL. The Global Network Socioeconomic Status Index as a predictor of stillbirths, perinatal mortality, and neonatal mortality in rural communities in low and lower middle income country sites of the Global Network for Women's and Children's Health Research. *PLoS One*. 2022 Aug 16;17(8):e0272712. doi: 10.1371/journal.pone.0272712. PMID: 35972913; PMCID: PMC9380930.
120. Paton NI, Musaaazi J, Kityo C, Walimbwa S, Hoppe A, Balyegisawa A, Asienzo J, Kaimal A, Mirembe G, Lugemwa A, Ategeka G, Borok M, Mugerwa H, Siika A, Odongpiny ELA, Castelnuovo B, Kiragga A, Kambugu A; NADIA Trial Team. Efficacy and safety of dolutegravir or darunavir in combination with lamivudine plus either zidovudine or tenofovir for second-line treatment of HIV infection (NADIA): week 96 results from a prospective, multicentre, open-label, factorial, randomised, non-inferiority trial. *Lancet HIV*. 2022 Apr 20:S2352-3018(22)00092-3. doi: 10.1016/S2352-3018(22)00092-3. Epub ahead of print. PMID: 35460601.
121. Puffer ES, Ayuku D. A Community-Embedded Implementation Model for Mental-Health Interventions: Reaching the Hardest to Reach. *Perspect Psychol Sci*. 2022 Apr 29:17456916211049362. doi: 10.1177/17456916211049362. Epub ahead of print. PMID: 35486821.
122. Puffer ES, Johnson SL, Quick KN, Rieder AD, Mansoor M, Proeschold-Bell RJ, Jones S, Moore-Lawrence S, Rasmussen JD, Cucuzzella C, Burwell F, Dowdy L, Moore F, Rosales N, Sanyal A, Ramachandran P, Duerr E, Tice L, Ayuku D, Boone WJ. Family Strengthening in the Context of COVID-19: Adapting a Community-Based Intervention from Kenya to the United States. *Prev Sci*. 2022 Aug 30:1–12. doi: 10.1007/s11121-022-01418-9. Epub ahead of print. PMID: 36040621; PMCID: PMC9425799.
123. Quirke F, Ariff S, Battin M, Bernard C, Bloomfield FH, Daly M, Devane D, Haas DM, Healy P, Hurley T, Kibet V, Kirkham JJ, Koskei S, Meher S, Molloy E, Niaz M, Ní Bhraonáin E, Okaronon CO, Tabassum F, Walker K, Biesty L. Core outcomes in neonatal encephalopathy: a qualitative study with parents. *BMJ Paediatr Open*. 2022 Jul;6(1):e001550. doi: 10.1136/bmjpo-2022-001550. Epub 2022 Jul 25. Erratum in: *BMJ Paediatr Open*. 2022 Aug;6(1): PMID: 36053648; PMCID: PMC9328095.
124. Raciti CG, Marsha J, Nafiseh AA, Masese ER, Apondi E, McHenry MS. "If it benefits someone, it will be good:" perspectives on research participation from pregnant women living with HIV. *AIDS Care*. 2022 Mar 27:1-8. doi: 10.1080/09540121.2022.2057411. Epub ahead of print. PMID: 35341423
125. Ransing R, de la Rosa PA, Pereira-Sanchez V, Handuleh JIM, Jerotic S, Gupta AK, Karaliuniene R, de Filippis R, Peyron E, Sönmez Güngör E, Boujraf S, Yee A, Vahdani B, Shoib S, Stowe MJ, Jaguga F, Dannatt L, da Silva AK, Grandinetti P, Jatchavala C. Current state of cannabis use, policies, and research across sixteen countries: cross-

- country comparisons and international perspectives. *Trends Psychiatry Psychother.* 2022 Jul 14;44(Suppl 1):e20210263. doi: 10.47626/2237-6089-2021-0263. PMID: 34735077.
126. Romo ML, Brazier E, Mahambou-Nsonde D, De Waal R, Sekaggya-Wiltshire C, Chimbetete C, Muyindike WR, Murenzi G, Kunzekwenyika C, Tiendrebeogo T, Muhairwe JA, Lelo P, Dzudie A, Twizere C, Rafael I, Ezechi OC, Diero L, Yotebieng M, Fenner L, Wools-Kaloustian KK, Shah NS, Nash D; International epidemiology Databases to Evaluate AIDS (IeDEA). Real-world use and outcomes of dolutegravir-containing antiretroviral therapy in HIV and tuberculosis co-infection: a site survey and cohort study in sub-Saharan Africa. *J Int AIDS Soc.* 2022 Jul;25(7):e25961. doi: 10.1002/jia2.25961. PMID: 35848120; PMCID: PMC9289708.
  127. Ross J, Brazier E, Fatti G, Jaquet A, Tanon A, Haas AD, Diero L, Castelnuovo B, Yiannoutsos CT, Nash D, Anastos KM, Yotebieng M. Same-day ART initiation as a predictor of loss to follow-up and viral suppression among people living with HIV in sub-Saharan Africa. *Clin Infect Dis.* 2022 Sep 13:ciac759. doi: 10.1093/cid/ciac759. Epub ahead of print. PMID: 36097726.
  128. Saito M, McGready R, Tinto H, Rouamba T, Mosha D, Rulisa S, Kariuki S, Desai M, Manyando C, Njunju EM, Sevene E. Pregnancy outcomes after first-trimester treatment with artemisinin derivatives versus non-artemisinin antimalarials: a systematic review and individual patient data meta-analysis. *The Lancet.* 2022 Nov 25.
  129. Saran I, Laktabai J, Menya D, Woolsey A, Turner EL, Visser T, O'Meara WP. How do malaria testing and treatment subsidies affect drug shop client expenditures? A cross-sectional analysis in Western Kenya. *BMJ Open.* 2022 Dec 6;12(12):e066814. doi: 10.1136/bmjopen-2022-066814. PMID: 36600353; PMCID: PMC9730383.
  130. Savai SM, Hasan MK, Kamano J, Misoi L, Wakholi P, Were MC. Data Cleaning Process for mHealth Log Data to Inform Health Worker Performance. *Stud Health Technol Inform.* 2022 Jun 29;295:75-78. doi: 10.3233/SHTI220664. PMID: 35773810.
  131. Severance TS, Njuguna F, Olbara G, Kugo M, Langat S, Mostert S, Klootwijk L, Skiles J, Coven SL, Overholt KM, Kaspers G, Vik TA. An evaluation of the disparities affecting the underdiagnosis of pediatric cancer in Western Kenya. *Pediatr Blood Cancer.* 2022 May 20:e29768. doi: 10.1002/pbc.29768. Epub ahead of print. PMID: 35593641.
  132. Shangani S, Genberg B, Harrison A, Pellowski J, Wachira J, Naanyu V, Operario D. Cultural adaptation and validation of a measure of prejudice against men who have sex with men among healthcare providers in western Kenya. *Glob Public Health.* 2022 Jan;17(1):150-164. doi: 10.1080/17441692.2020.1860248. Epub 2020 Dec 11. PMID: 33306434; PMCID: PMC8192581.
  133. Shangani S, Genberg B, Harrison A, Pellowski J, Wachira J, Naanyu V, Operario D. Sexual Prejudice and Comfort to Provide Services to Men Who Have Sex with Men Among HIV Healthcare Workers in Western Kenya: Role of Interpersonal Contact. *AIDS Behav.* 2022 Mar;26(3):805-813. doi: 10.1007/s10461-021-03440-4. Epub 2021 Aug 18. PMID: 34406550.
  134. Sors TG, O'Brien RC, Scanlon ML, Bermel LY, Chikowe I, Gardner A, Kiplagat J, Lieberman M, Moe SM, Morales-Soto N, Nyandiko WM. Reciprocal innovation: A new approach to equitable and mutually beneficial global health partnerships. *Global Public Health.* 2022 Jul 26:1-3.
  135. Spearman CW, Dusheiko G, Jonas E, Abdo A, Afihene M, Cunha L, Desalegn H, Kassianides C, Katsidzira L, Kramvis A, Lam P, Lesi OA, Micah EA, Musabeyezu E, Ndow G, Nnabuchi CV, Ocamo P, Okeke E, Rwegasha J, Shewaye AB, Some FF, Tzeuton C, Sonderup MW; Gastroenterology and Hepatology Association of sub-Saharan Africa (GHASSA). Hepatocellular carcinoma: measures to improve the outlook in sub-Saharan Africa. *Lancet Gastroenterol Hepatol.* 2022 Jul 7:S2468-1253(22)00041-3. doi: 10.1016/S2468-1253(22)00041-3. Epub ahead of print. PMID: 35810766.
  136. Ssengooba F, Babiry S, Tuhebwe D, Ssenyonjo A, Ssendagire S, Rutaroh A, Mutesa L, Nangami M. The right of access to healthcare: an analysis of how legal and institutional frameworks constrain or facilitate access to healthcare for residents in border areas in the East African Community. *Int J Equity Health.* 2022 Nov 26;21(1):168. doi: 10.1186/s12939-022-01785-3. PMID: 36435794.

137. Stalter RM, Amorim G, Mocello AR, Jakait B, Shepherd BE, Musick B, Bernard C, Bukusi EA, Wools-Kaloustian K, Cohen CR, Yiannoutsos CT, Patel RC; Implant/Efavirenz Study Group and the East Africa leDEA regional consortium. Contraceptive implant use duration is not associated with breakthrough pregnancy among women living with HIV and using efavirenz: a retrospective, longitudinal analysis. *J Int AIDS Soc.* 2022 Sep;25(9):e26001. doi: 10.1002/jia2.26001. PMID: 36073977; PMCID: PMC9454412.
138. Tawe L, Choga WT, Paganotti GM, Bareng OT, Ntereke TD, Ramatlho P, Ditshwanelo D, Gaseitsiwe S, Kasvosve I, Ramogola-Masire D, Orang'o OE, Robertson E, Zetola N, Moyo S, Grover S, Ermel AC. Genetic diversity in L1 ORF of human papillomavirus in women with cervical cancer with and without human immunodeficiency virus in Botswana and Kenya. *BMC Infect Dis.* 2022 Jan 27;22(1):95. doi: 10.1186/s12879-022-07081-3. PMID: 35086475.
139. Taylor SM, Korwa S, Wu A, Green CL, Freedman B, Clapp S, Kirui JK, O'Meara WP, Njuguna FM. Monthly sulfadoxine/pyrimethamine-amodiaquine or dihydroartemisinin-piperaquine as malaria chemoprevention in young Kenyan children with sickle cell anemia: A randomized controlled trial. *PLoS Med.* 2022 Oct 10;19(10):e1004104. doi: 10.1371/journal.pmed.1004104. PMID: 36215323; PMCID: PMC9591057.
140. Thakkar A, Valente T, Andesia J, Njuguna B, Miheso J, Mercer T, Mugo R, Mwangi A, Mwangi E, Pastakia SD, Pathak S, Pillsbury MKM, Kamano J, Naanyu V, Williams M, Vedanthan R, Akwanalo C, Bloomfield GS. Network characteristics of a referral system for patients with hypertension in Western Kenya: results from the Strengthening Referral Networks for Management of Hypertension Across the Health System (STRENGTHS) study. *BMC Health Serv Res.* 2022 Mar 7;22(1):315. doi: 10.1186/s12913-022-07699-8. PMID: 35255913; PMCID: PMC8903732.
141. Thakkar A, Valente T, Andesia J, Njuguna B, Miheso J, Mercer T, Mugo R, Mwangi A, Mwangi E, Pastakia SD, Pathak S. Network characteristics of a referral system for patients with hypertension in Western Kenya: results from the Strengthening Referral Networks for Management of Hypertension Across the Health System (STRENGTHS) study. *BMC Health Services Research.* 2022 Dec;22(1):1-1.
142. Tong Y, Orang'o E, Nakalembe M, Tonui P, Itsura P, Muthoka K, Titus M, Kiptoo S, Mwangi A, Ong'echa J, Tonui R, Odongo B, Mpamani C, Rosen B, Moormann A, Cu-Uvin S, Bailey JA, Oduor CI, Ermel A, Yiannoutsos C, Musick B, Sang E, Ngeresa A, Banturaki G, Kiragga A, Zhang J, Song Y, Chintala S, Katzenellenbogen R, Loehrer P, Brown DR. The East Africa Consortium for human papillomavirus and cervical cancer in women living with HIV/AIDS. *Ann Med.* 2022 Dec;54(1):1202-1211. doi: 10.1080/07853890.2022.2067897. PMID: 35521812; PMCID: PMC9090376.
143. Toromo JJ, Apondi E, Nyandiko WM, Omollo M, Bakari S, Aluoch J, Kantor R, Fortenberry JD, Wools-Kaloustian K, Elul B, Vreeman RC, Enane LA. "I have never talked to anyone to free my mind" - challenges surrounding status disclosure to adolescents contribute to their disengagement from HIV care: a qualitative study in western Kenya. *BMC Public Health.* 2022 Jun 4;22(1):1122. doi: 10.1186/s12889-022-13519-9. PMID: 35658924; PMCID: PMC9167528.
144. Tran DN, Kangogo K, Amisi JA, Kamadi J, Karwa R, Kiragu B, Laktabai J, Manji IN, Njuguna B, Szkwarko D, Qian K, Vedanthan R, Pastakia SD. Community-based medication delivery program for antihypertensive medications improves adherence and reduces blood pressure. *PLoS One.* 2022 Sep 9;17(9):e0273655. doi: 10.1371/journal.pone.0273655. PMID: 36084087; PMCID: PMC9462824.
145. Twei VC, Maiyoh GK, Ndombera FT. The role of infections in the causation of cancer in Kenya. *Cancer Causes Control.* 2022 Sep 10. doi: 10.1007/s10552-022-01625-3. Epub ahead of print. PMID: 36087193.
146. Turnbull LB, Ayodo G, Knight V, John CC, McHenry MS, Tran TM. Evaluation of an ultrasensitive HRP2-based rapid diagnostic test for detection of asymptomatic *Plasmodium falciparum* parasitaemia among children in western Kenya. *Malar J.* 2022 Nov 16;21(1):337. doi: 10.1186/s12936-022-04351-y. PMID: 36380379; PMCID: PMC9667565.
147. Uittenboogaard A, Njuguna F, Mostert S, Langat S, van de Velde ME, Olbara G, Vik TA, Kaspers GJL. Outcomes of Wilms tumor treatment in western Kenya. *Pediatr Blood Cancer.* 2022 Apr;69(4):e29503. doi: 10.1002/pbc.29503. Epub 2021 Dec 15. PMID: 34908225.

148. Undisa R, Awuor SO, Chemtai AK, Diero LO. Inflammatory cytokines and cell activation marker in HIV and HIV/TB co-infected patients attending AMPATH clinic at MTRH Eldoret, Kenya. *J Clin Images Med Case Rep*. 2022;3(1):1559.
149. van Weelderen RE, Njuguna F, Klein K, Mostert S, Langat S, Vik TA, Olbara G, Kipng'etich M, Kaspers GJL. Outcomes of pediatric acute myeloid leukemia treatment in Western Kenya. *Cancer Rep (Hoboken)*. 2022 Oct;5(10):e1576. doi: 10.1002/cnr2.1576. Epub 2021 Nov 22. PMID: 34811958; PMCID: PMC9575503.
150. Wachira J, Genberg B, Mwangi A, Chemutai D, Braitstein P, Galarraga O, Abraham S, Wilson I. Impact of an enhanced patient care (EPC) intervention on viral suppression among patients living with HIV in Kenya. *J Acquir Immune Defic Syndr*. 2022 Mar 23. doi: 10.1097/QAI.0000000000002987. PMID: 35320121.
151. Wachira J, Genberg B, Mwangi A, Chemutai D, Braitstein P, Galarraga O, Siika A, Wilson I. Impact of an Enhanced Patient Care Intervention on Viral Suppression Among Patients Living With HIV in Kenya. *JAIDS Journal of Acquired Immune Deficiency Syndromes*. 2022 Aug 1;90(4):434-9.
152. Wachira J, Mwangi A, Genberg B, Ngeresa A, Galárraga O, Kimayo S, Dick J, Braitstein P, Wilson I, Hogan J. Continuity of Care is Associated with Higher Appointment Adherence Among HIV Patients in Low Clinician-to-Patient Ratio Facilities in Western Kenya. *AIDS Behav*. 2022 Apr 25. doi: 10.1007/s10461-022-03686-6. PMID: 35467227.
153. Wachira J, Mwangi A, Genberg B, Ngeresa A, Galárraga O, Kimayo S, Dick J, Braitstein P, Wilson I, Hogan J. Continuity of Care is Associated with Higher Appointment Adherence Among HIV Patients in Low Clinician-to-Patient Ratio Facilities in Western Kenya. *AIDS Behav*. 2022 Nov;26(11):3516-3523. doi: 10.1007/s10461-022-03686-6. Epub 2022 Apr 25. PMID: 35467227.
154. Wagner DN, Odhiambo SR, Ayikukwei RM, Boor BE. High time-resolution measurements of ultrafine and fine woodsmoke aerosol number and surface area concentrations in biomass burning kitchens: A case study in Western Kenya. *Indoor Air*. 2022 Oct;32(10):e13132.
155. Wilson-Barthes M, Braitstein P, DeLong A, Ayuku D, Atwoli L, Sang E, Galárraga O. Cost Utility of Supporting Family-Based Care to Prevent HIV and Deaths among Orphaned and Separated Children in East Africa: A Markov Model-Based Simulation. *MDM Policy Pract*. 2022 Dec 22;7(2):23814683221143782. doi: 10.1177/23814683221143782. PMID: 36601384; PMCID: PMC9806382.
156. Woldu B, Temu TM, Kirui N, Christopher B, Ndege S, Post WS, Kamano J, Bloomfield GS. Diastolic dysfunction in people with HIV without known cardiovascular risk factors in Western Kenya. *Open Heart*. 2022 Jan;9(1):e001814. doi: 10.1136/openhrt-2021-001814. PMID: 35064055.
157. Yamada Y, Zhang X, Henderson MET, Sagayama H, Pontzer H, Watanabe D, Yoshida T, Kimura M, Ainslie PN, Andersen LF, Anderson LJ, Arab L, Baddou I, Bedu-Addo K, Blaak EE, Blanc S, Bonomi AG, Bouten CVC, Bovet P, Buchowski MS, Butte NF, Camps SG, Close GL, Cooper JA, Cooper R, Das SK, Dugas LR, Eaton S, Ekelund U, Entringer S, Forrester T, Fudge BW, Goris AH, Gurven M, Halsey LG, Hambly C, El Hamdouchi A, Hoos MB, Hu S, Joonas N, Joosen AM, Katzmarzyk P, Kempen KP, Kraus WE, Kriengsinyos W, Kushner RF, Lambert EV, Leonard WR, Lessan N, Martin CK, Medin AC, Meijer EP, Morehen JC, Morton JP, Neuhouser ML, Nicklas TA, Ojiambo RM, Pietiläinen KH, Pitsiladis YP, Plange-Rhule J, Plasqui G, Prentice RL, Rabinovich RA, Racette SB, Raichlen DA, Ravussin E, Redman LM, Reilly JJ, Reynolds RM, Roberts SB, Schuit AJ, Sardinha LB, Silva AM, Sjödin AM, Stice E, Urlacher SS, Valenti G, Van Etten LM, Van Mil EA, Wells JCK, Wilson G, Wood BM, Yanovski JA, Murphy-Alford AJ, Loechl CU, Luke AH, Rood J, Westerterp KR, Wong WW, Miyachi M, Schoeller DA, Speakman JR; International Atomic Energy Agency (IAEA) Doubly Labeled Water (DLW) Database Consortium. Variation in human water turnover associated with environmental and lifestyle factors. *Science*. 2022 Nov 25;378(6622):909-915. doi: 10.1126/science.abm8668. Epub 2022 Nov 24. PMID: 36423296; PMCID: PMC9764345.
158. Zhang X, Yamada Y, Sagayama H, Ainslie PN, Blaak EE, Buchowski MS, Close GL, Cooper JA, Das SK, Dugas LR, Gurven M, El Hamdouchi A, Hu S, Joonas N, Katzmarzyk P, Kraus WE, Kushner RF, Leonard WR, Martin CK, Meijer EP, Neuhouser ML, Ojiambo RM, Pitsiladis YP, Plasqui G, Prentice RL, Racette SB, Ravussin E, Redman LM, Reynolds



RM, Roberts SB, Sardinha LB, Silva AM, Stice E, Urlacher SS, Van Mil EA, Wood BM, Murphy-Alford AJ, Loechl C, Luke AH, Rood J, Schoeller DA, Westerterp KR, Wong WW, Pontzer H, Speakman JR; IAEA DLW database consortium. Human total, basal and activity energy expenditures are independent of ambient environmental temperature. *iScience*. 2022 Jun 28;25(8):104682. doi: 10.1016/j.isci.2022.104682. PMID: 35865134; PMCID: PMC9294192.

159. Zürcher K, Reichmuth ML, Ballif M, Loiseau C, Borrell S, Reinhard M, Skrivankova V, Hömke R, Sander P, Avihingsanon A, Abimiku AG, Marcy O, Collantes J, Carter EJ, Wilkinson RJ, Cox H, Yotebieng M, Huebner R, Fenner L, Böttger EC, Gagneux S, Egger M. Mortality from drug-resistant tuberculosis in high-burden countries comparing routine drug susceptibility testing with whole-genome sequencing: a multicentre cohort study. *Lancet Microbe*. 2021 Jul;2(7):e320-e330. doi: 10.1016/S2666-5247(21)00044-6. Epub 2021 Apr 29. PMID: 35252901; PMCID: PMC8896764.

## Appendix 2. Study Reports

The following study reports provide summaries of active AMPATH research projects at the end of the reporting period (December 31, 2022). Study reports and updates were provided by the projects' principal investigator(s) or their designee and provide details on study team specific aims, sites, project period, sponsors, project status, and publications. Summaries are organized by order of submission and a linked index is listed below for easy navigation.

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<b>Study Title</b>	A cluster randomized trial of 'Teach HADITHI' teacher training intervention to reduce classroom HIV-related stigma in Kenya.
<b>Principal Investigator(s)</b>	Rachel Christine Vreeman (Mount Sinai)
<b>Collaborator(s)</b>	Winstone Nyandiko (Moi University), Edith Apondi (MTRH), Juddy Wachira (Moi University), Wanzhu Tu (Indiana University)
<b>Study Type</b>	Prospective intervention study
<b>Specific Aim(s)</b>	Aim 1: Assemble a multimedia teacher training curriculum package, focused on HIV and HIV stigma and adapted for maximum cultural relevance, curricular cohesion and impact among Kenyan primary and secondary school teachers. Aim 2: Assess the impact of the Teach HADITHI intervention on Kenyan teachers' attitudes, beliefs and knowledge about HIV and the level of HIV-related stigma among teachers. Aim 3: Examine whether HIV-infected children and adolescents in classrooms with teachers who have received the Teach HADITHI intervention report less perceived, enacted or internalized stigma compared to those in classrooms with teachers who have not. Aim 4: Examine the impact of HIV stigma training on stigmatizing knowledge, attitudes and beliefs about COVID-19.
<b>Site(s)</b>	Moi Teaching and Referral Hospital, Uasin Gishu
<b>Project Period</b>	7/1/2018 - 4/30/2021
<b>Sponsor(s)</b>	NIH-NIMH
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction and follow-up. Research activities are limited to data analysis.

<b>Study Title</b>	A Phase 2, Double-Blind, Randomized, Multicenter, Placebo-Controlled Study to Evaluate the Efficacy and Safety of Daily Bedtime TNX-102 SL in Participants with PTSD
<b>Principal Investigator(s)</b>	Lukoye Atwoli (Aga Khan University)
<b>Collaborator(s)</b>	Edith Kwobah (MTRH), Frank Njenga (Chiromo Hospital), Linet Ongeru (Harvard University), Sylvia Kemunto (Mathari Hospital), Gabriel Kigen (Moi University)
<b>Study Type</b>	Double-blind randomized clinical trial.

<b>Specific Aim(s)</b>	Aim 1: To evaluate the efficacy of TNX-102 SL (cyclobenzaprine HCl sublingual tablets) in treatment of PTSD. Aim 2: To evaluate the safety of TNX-102 SL (cyclobenzaprine HCl sublingual tablets) in the treatment of PTSD.
<b>Site(s)</b>	Moi Teaching and Referral Hospital, KEMRI Nairobi, Aga Khan University
<b>Project Period</b>	7/1/2020 - 6/30/2023
<b>Sponsor(s)</b>	TONIX Pharmaceuticals
<b>Status</b>	Not started -- Study activities have not begun.

<b>Study Title</b>	A randomized experiment of malaria diagnostic testing and conditional subsidies to target ACTs in the retail sector: the TESTsmART trial AIM 1
<b>Principal Investigator(s)</b>	Jeremiah Laktabai (Moi University)
<b>Collaborator(s)</b>	Diana Menya (Moi University), Wendy O'Meara (Duke University)
<b>Study Type</b>	Randomised controlled trial
<b>Specific Aim(s)</b>	The objective of this experiment is to identify the combination of RDT and conditional (diagnosis-dependent) ACT subsidies that maximize the percent of clients receiving an RDT. We will test two different RDT price levels and two discounted ACT price levels in a factorial design. ACT discounts are conditional on a positive RDT result. The primary outcome measure is the decision to purchase an RDT before purchasing a drug. Secondary outcome measures are: Decision to purchase an ACT stratified by testing status: (a.) Positive mRDT (b.) Negative mRDT (c.) No malaria test. All outcomes will be measured by interviewing the participant after they make their decision about whether to be tested and which medicines to purchase.
<b>Site(s)</b>	Bungoma, Trans Nzoia
<b>Project Period</b>	10/1/2018 - 9/30/2023
<b>Sponsor(s)</b>	NIH-NIAID
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.

<b>Study Title</b>	A randomized experiment of malaria diagnostic testing and conditional subsidies to target ACTs in the retail sector: the TESTsmART trial AIM 2
<b>Principal Investigator(s)</b>	Jeremiah Laktabai (Moi University)
<b>Collaborator(s)</b>	Diana Menya (Moi University), Wendy O'Meara (Duke University)
<b>Study Type</b>	Randomised controlled trial
<b>Specific Aim(s)</b>	The objective of this study is to test the effect of provider-directed and patient-directed incentives on improving the management of suspected malaria fevers that receive care in the retail sector. Provider-directed incentives include small payments for taking the time to conduct malaria-RDT testing for participants with malaria-like illness. Patient-directed incentives are inexpensive RDT testing coupled with a conditional ACT discount. Outcomes will be measured by exit interviews on random days each month at each participating outlet. The primary outcome will be the proportion of all ACTs that are sold to individuals with a positive malaria diagnostic test. The major secondary outcome is the proportion of suspected malaria cases that are tested. This outcome will allow us to determine whether the conditional subsidy can drive demand for testing.

<b>Site(s)</b>	Bungoma, Trans Nzoia
<b>Project Period</b>	10/1/2018 - 9/30/2023
<b>Sponsor(s)</b>	NIH-NIAID
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.
<b>Study Title</b>	A5300B/I2003B/PHOENix Protecting Households On Exposure to Newly Diagnosed Index Multidrug-Resistant Tuberculosis Patients (PHOENix MDR-TB)
<b>Principal Investigator(s)</b>	Abraham Siika (Moi University)
<b>Collaborator(s)</b>	David Lagat (Moi University)
<b>Study Type</b>	Phase III, open-label, multicenter trial with a cluster-randomized superiority design
<b>Specific Aim(s)</b>	Aim 1: To compare the efficacy of 26 weeks of DLM versus 26 weeks of INH for preventing confirmed or probable active TB during 96 weeks of follow-up. Aim 2: To compare the safety (permanently stopping study drug due to treatment-related adverse events) of 26 weeks of DLM versus 26 weeks of INH for the treatment of presumed latent TB infection (LTBI) with MDR-TB.
<b>Site(s)</b>	Bungoma, Busia, Elgeyo Marakwet, Homa Bay, Kakamega, Kericho, Kisumu, Moi Teaching and Referral Hospital, Nakuru, Nandi, Siaya, Trans Nzoia, Uasin Gishu, Vihiga, West Pokot
<b>Project Period</b>	10/21/2020 - ongoing
<b>Sponsor(s)</b>	NIH
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up. No update provided for the current reporting period.
<b>Study Title</b>	A5381 Observational Cohort to Assess Therapeutic Efficacy and Emergence of HIV Drug Resistance Following Initiation of Tenofovir-Lamivudine-Dolutegravir (TLD) for First- or Second-Line ART or with Rifampicin-Containing TB Treatment
<b>Principal Investigator(s)</b>	Abraham Siika (Moi University)
<b>Collaborator(s)</b>	Fatuma Some (Moi University)
<b>Study Type</b>	Prospective cohort study
<b>Specific Aim(s)</b>	Aim 1: Among participants still on TLD at 6 months of follow up, to estimate the proportion achieving virologic success (HIV-1 RNA $\leq$ 1000 copies/mL) and the proportion with new DTG resistance mutations in each of the following groups: (a) Participants switching from first-line NNRTI-containing therapy with HIV-1 RNA $>$ 1000 copies/mL at start of TLD (Group 1a); (b) Participants switching from second-line PI-containing therapy with HIV-1 RNA $>$ 1000 copies/mL at start of TLD (Group 2a); (c) Participants switching from first-line NNRTI-containing therapy with HIV-1 RNA $\leq$ 1000 copies/mL at start of TLD (Group 1b); (d) Participants switching from second-line PI-containing therapy with HIV-1 RNA $\leq$ 1000 copies/mL at start of TLD (Group 2b); (e) Participants who are ART-naïve when starting TLD (Group 4). Aim 2: Among participants taking concomitant TLD (including an additional daily dose of DTG 50 mg) and RIF-containing TB treatment (Group 3), to estimate the proportion achieving virologic success (HIV-1 RNA $\leq$ 1000 copies/mL) and the proportion with new DTG resistance mutations at the end of concomitant treatment.
<b>Site(s)</b>	Busia, Elgeyo Marakwet, Homa Bay, Kakamega, Moi Teaching and Referral Hospital, Nandi, Trans Nzoia, Uasin Gishu, West Pokot

<b>Project Period</b>	10/5/2020 - ongoing
<b>Sponsor(s)</b>	NIH
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up. No update provided for the current reporting period.
<b>Study Title</b>	Addressing bioethical research gaps in research with young people living with HIV (YPLWH) in Kenya
<b>Principal Investigator(s)</b>	Rami Kantor (Brown University)
<b>Collaborator(s)</b>	Winstone Nyandiko (Moi University), Rachel Vreeman (Mount Sinai), Violet Naanyu (Moi University)
<b>Study Type</b>	Cross-Sectional
<b>Specific Aim(s)</b>	Aim 1: Examine ethical issues in longitudinal clinical research with YPLWH in Kenya from the patient, caregiver, and other key informant perspective. Aim 2: Identify and analyze key bioethics guidelines and policies, as well as academic and grey literature relevant to research with YPLWH across key areas: children and YPLWH, people living with HIV, biological sampling and biobanking, and research in resource-limited settings.
<b>Site(s)</b>	Bungoma, Moi Teaching and Referral Hospital, Trans Nzoia, Uasin Gishu
<b>Project Period</b>	8/18/2020 - 5/30/2024
<b>Sponsor(s)</b>	NIH-NIAID
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.
<b>Study Title</b>	Addressing HIV drug resistance research gaps in a cohort of perinatally infected Kenyan children and adolescents
<b>Principal Investigator(s)</b>	Rami Kantor (Brown University)
<b>Collaborator(s)</b>	Winstone Nyandiko (Moi University), Rachel Vreeman (Mount Sinai), Joseph Hogan (Brown University), Vladamir Novitsky (Miriam Hospital)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	Aim 1: Investigate genotype-phenotype correlations in HIV-1 subtypes A, C and D. Aim 2: Evaluate etiologies for treatment failure in the presence of a 'susceptible genotype'. Aim 3: Evaluate etiologies for treatment success in the presence of a 'resistant genotype'.
<b>Site(s)</b>	Bungoma, Moi Teaching and Referral Hospital, Trans Nzoia, Uasin Gishu
<b>Project Period</b>	6/27/2021 - 5/31/2024
<b>Sponsor(s)</b>	NIH-NIAID
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.
<b>Study Title</b>	An Overview of the Mental Health Care System in 4 Counties in Western Kenya: Findings from an Assessment Using the World Health Organization's Assessment Instrument for Mental Health Systems (WHO-AIMS)

<b>Principal Investigator(s)</b>	Edith Kwobah (Moi Teaching and Referral Hospital)
<b>Collaborator(s)</b>	Matthew Turissini (Indiana University), Florence Jaguga (Moi Teaching & Referral Hospital), Julius Barasa (Moi Teaching & Referral Hospital), Richard Matundura (AMPATH), Joyce Nato (World Health Organization)
<b>Study Type</b>	Cross-Sectional
<b>Specific Aim(s)</b>	To collect systems-level mental health care data using the WHO-AIMS in Uasin Gishu, Bungoma, Trans-Nzoia and Busia Counties in western Kenya.
<b>Site(s)</b>	Bungoma, Busia, Moi Teaching and Referral Hospital, Trans Nzoia, Uasin Gishu
<b>Project Period</b>	07/02/2020 - Ongoing
<b>Sponsor(s)</b>	None.
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up. No update provided for the current reporting period.

<b>Study Title</b>	APPROACH Study
<b>Principal Investigator(s)</b>	Hussein Elias (Moi University)
<b>Collaborator(s)</b>	Eric Finkelstein (Duke University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	To understand the perspectives of patients with advanced cancer regarding their quality of life and end of life care. We amended our sample size to 217 patients with stage IV admitted at the inpatient and outpatient clinic. All patients and races will be included in the study as long as they seek treatment at MTRH during the study period, meet the inclusion criteria and consent to participate in the study.
<b>Site(s)</b>	Moi Teaching and Referral Hospital
<b>Project Period</b>	1/1/2021 - 12/31/2021
<b>Sponsor(s)</b>	Duke Global Health
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up. No update provided for the current reporting period.

<b>Study Title</b>	Assessing Implementation of Delivering Community-based, Peer-led Interventions for Mental Health Problems among Youth in Eldoret, Kenya
<b>Principal Investigator(s)</b>	Matthew Turissini (Indiana University)
<b>Collaborator(s)</b>	Edith Kwobah (Moi Teaching and Referral Hospital), Florence Jaguga (Moi Teaching and Referral Hospital), Eve Puffer (Duke University), Ali Giusto (Columbia University), Edith Apondi (Moi Teaching and Referral Hospital), Julius Barasa (AMPATH SIMHS Program), Joseph Binayo (Family Health Options Kenya), Mary A. Ott (Indiana University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	1. To pilot a community-based peer-led screening process for internalizing mental health problems among youth in Eldoret. a) To screen for mental health problems in adolescents via peer mentors (18-24 years) using the SDQ, YTP, PHQ-9, and GAD-7. b) To describe the Reach, Effectiveness, Adoption, Implementation, and Maintenance of the screening process. 2. To pilot a community-based peer-led PST intervention for mental health problems among youth in Eldoret. a) To train and



	supervise peer mentors in delivering 5 sessions of low-intensity, evidence-based PST for adolescents who screened positive for mental health problems. b) To assess the Reach, Adoption, preliminary Effectiveness, Implementation, and Maintenance of the PST at multiple levels.
Site(s)	Uasin Gishu
Project Period	1/1/2022 - 12/31/2024
Sponsor(s)	Indiana CTSI
Status	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

Study Title	Bridging Income Generation with Group Integrated Care (BIGPIC)
Principal Investigator(s)	Rajesh Vedanthan (New York University)
Collaborator(s)	Jemima Kamano (Moi University), Violet Naanyu (Moi University), Sonak Pastakia (Purdue University), Chesoli Cleophas Wanyonyi (Moi University), Benjamin Andama (AMPATH), Diana Menya (Moi University), Eric Finkelstein (Duke University), Gerald Bloomfield (Duke University), David Edelman (Duke University), Joseph Hogan, Brown University, Stavroula Chrysanthopoulou (Brown University), Carol Horowitz (Icahn School of Medicine at Mount Sinai), Valentin Fuster (Icahn School of Medicine at Mount Sinai)
Study Type	Prospective
Specific Aim(s)	Aim 1: Identify the contextual factors, facilitators, and barriers that may impact integration of group medical visits and microfinance for CVD risk reduction, using a combination of qualitative research methods: 1) baraza (traditional community gathering) form of inquiry; and 2) focus group discussions among individuals with diabetes or at increased risk for diabetes, microfinance group members, and rural health workers. Aim 2: Evaluate the effectiveness of group medical visits and microfinance groups for CVD risk reduction among individuals with diabetes or at increased risk for diabetes, by conducting a four-arm cluster randomized trial comparing: 1) usual clinical care; 2) usual clinical care plus microfinance groups only; 3) group medical visits only (no microfinance); and 4) group medical visits integrated into microfinance groups. The primary outcome measure will be one-year change in systolic blood pressure (SBP), and a key secondary outcome will be change in QRISK2 CVD risk score, which has been validated for Black Africans. Aim 3: Evaluate the incremental cost-effectiveness of each intervention arm of the trial, in terms of costs per unit decrease in SBP, per percent change in CVD risk score, and per disability-adjusted life year saved. 1. Study Population: Enrollment remains closed for this study. 2890 individuals (69.9percent women) were enrolled (708 UC, 709 MF, 740 GMV, and 733 GMV-MF). 2. Study end date: The anticipate study end date is now September 30th, 2022.
Site(s)	Busia, Kisumu, Trans Nzoia, Uasin Gishu
Project Period	4/1/2015 - 9/30/2022
Sponsor(s)	NIH-NHLBI
Status	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.

Study Title	Chamas for Change: Adapting a community-based peer-support and health education model for pregnant and parenting adolescents in Kenya
Principal Investigator(s)	Julia Songok (Moi University)

<b>Collaborator(s)</b>	Laura J. Ruhl (Indiana University), Lauren Y. Maldonado (USC), Michael Scanlon (Indiana University), Julie Thorne (University of Toronto), Edith Apondi (MTRH), Astrid Christoffersen-Deb (University of British Columbia)
<b>Study Type</b>	Cross-Sectional
<b>Specific Aim(s)</b>	Aim 1: To adapt the Chamas for Change model and curriculum for community-based, peer-support groups to specifically meet the needs of pregnant adolescents, adolescent mothers, and their children. Aim 2: To assess the feasibility and acceptability of an adapted adolescent Chamas for Change program; Aim 3: To assess the impact of participation on maternal, newborn, and child health outcomes, psychosocial outcomes (i.e. mental health, social support), school re-enrollment, and financial stability among adolescent participants; and Aim 4: To develop a case study to inform possible adaptations of the Chamas for Change model for adolescents to a North American context. For Phase II of the study this includes pregnant and parenting adolescents aged 15-19 with children aged 6 months or below and not only pregnant adolescents as initially stated.
<b>Site(s)</b>	Busia, Trans Nzoia, Uasin Gishu
<b>Project Period</b>	11/4/2019 - ongoing
<b>Sponsor(s)</b>	Indiana CTSI
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up. No update provided for the current reporting period.

<b>Study Title</b>	Chamas for Change: Validating an integrated community-based strategy of peer support in pregnancy and infancy
<b>Principal Investigator(s)</b>	Julia Songok (Moi University)
<b>Collaborator(s)</b>	Laura Ruhl (Indiana University), Astrid Christoffersen-Deb (University of British Columbia)
<b>Study Type</b>	Prospective Randomized Controlled Trial
<b>Specific Aim(s)</b>	Validate Chama cha MamaToto as a scalable and effective population-wide strategy to rapidly and sustainably achieve high coverage of facility delivery, quality antenatal and postnatal care, long-term FP and EBF. The primary target was to demonstrate a 30percent decrease in maternal (MMR), perinatal (PNR), and newborn (NMR) mortality rates.
<b>Site(s)</b>	Trans Nzoia
<b>Project Period</b>	11/1/2017 – 12/31/2020
<b>Sponsor(s)</b>	Grand Challenges Canada-Saving Lives at Birth
<b>Status</b>	Complete -- Follow up and data analysis are complete and the study is closed.

<b>Study Title</b>	Clinical Assessment for Retention and Engagement (CARE Study)
<b>Principal Investigator(s)</b>	Leslie Enane (Indiana University)
<b>Collaborator(s)</b>	Edith Apondi (Moi University), Rachel Vreeman (Mount Sinai), Winstone Nyandiko (Moi University)
<b>Study Type</b>	Cross-Sectional
<b>Specific Aim(s)</b>	Aim 1: Refine a conceptual model for adolescent disengagement from HIV care in East Africa. Aim 2: Develop and pilot an instrument to assess adolescent risk for disengagement from HIV care - the Clinical Assessment for Retention and Engagement (CARE). Aim 3: Develop an evidence-based algorithm to support clinical evaluation and intervention for adolescents at risk for disengagement.

<b>Site(s)</b>	Bungoma, Kisumu, Moi Teaching and Referral Hospital, Nandi, Trans Nzoia, Uasin Gishu
<b>Project Period</b>	10/25/2018 - ongoing
<b>Sponsor(s)</b>	NIH-NICHD
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	Co-Benefits of Co-Delivery of Long-Acting Antiretrovirals and Contraceptives
<b>Principal Investigator(s)</b>	Rena Patel (University of Washington)
<b>Collaborator(s)</b>	Edwin Were (Moi University), Beatrice Jakait (MTRH), Edith Apondi (Moi University), Caitlin Bernard (Indiana University), Kimberly Scarsi (University of Nebraska), David Erickson (Oregon Health & Science University), Kenneth Sherr (University of Washington), Deborah Donnell (University of Washington), Randy Stalter (University of Washington), Catherine Ngugi (NASCO)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	Aim 1: To collect foundational data to better inform design of an effectiveness-implementation trial. Aim 1a: To determine if combined cabotegravir/rilpivirine injectable use has bidirectional drug-drug interactions with injectable (depot medroxyprogesterone acetate [DMPA]) or implantable (etonogestrel or levonorgestrel) contraceptives. Aim 1b: To qualitatively explore points of convergence and divergence, preferences and values, and health systems readiness around wider-scale co-delivery of LA ART and contraceptives. Aim 2: To evaluate the impact of clinic-provided, co-delivery of LA ART and contraceptives among AGYW/LHIV. Aim 2a: To evaluate the impact on effectiveness outcomes of HIV treatment (viral suppression and adherence/persistence) and contraception (uptake and continuation rates). Aim 2b: To evaluate the impact on implementation outcomes of acceptability, feasibility, and fidelity.
<b>Site(s)</b>	MTRH
<b>Project Period</b>	4/1/2021 – 3/31/2026
<b>Sponsor(s)</b>	NIH
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	Comparison of Nutritional status of children aged 5 to 59 months in community-based education and service (COBES)-AMPATH and non-AMPATH centres post covid-19
<b>Principal Investigator(s)</b>	Arthur Kwena (Moi University)
<b>Collaborator(s)</b>	Joyce Baliddawa (Moi University), K. Taylor (Notre Dame), M. McDowell (Notre Dame), S. Mining (Moi University)
<b>Study Type</b>	Cross-Sectional
<b>Specific Aim(s)</b>	To determine the nutritional status of children in selected COBES centres post Covid-19 and compare the nutritional status in AMPATH and non-AMPATH centres.
<b>Site(s)</b>	Bungoma, Busia, Elgeyo Marakwet, Kakamega, Nandi, Trans Nzoia, Uasin Gishu
<b>Project Period</b>	1/1/2014 - ongoing
<b>Sponsor(s)</b>	None

<b>Status</b>	Ongoing -- Follow Up Continues. Enrollment has finished but participants are still receiving research-related intervention, interaction, or follow up.
<b>Study Title</b>	Compassion Fatigue, Satisfaction and Burnout Among Healthcare workers in the Context of the COVID 19 pandemic in Uasin Gishu County
<b>Principal Investigator(s)</b>	Edith Kwobah (Moi Teaching and Referral Hospital)
<b>Collaborator(s)</b>	Jane Kariuki (Moi Teaching and Referral Hospital), Florence Jaguga (Moi Teaching and Referral Hospital)
<b>Study Type</b>	Cross-Sectional
<b>Specific Aim(s)</b>	1. To determine the prevalence of compassion fatigue, compassion satisfaction and burnout among health care workers in the context of the COVID 19 pandemic in Uasin Gishu County; 2. To determine social demographic factors associated with development of compassion fatigue, compassion satisfaction and burnout among health care workers in the context of the COVID 19 pandemic Uasin Gishu County; 3. To determine the association between health care workers' previous training in disaster/ emergency response and development of compassion fatigue and burnout among health care workers in the context of the COVID 19 pandemic in Uasin Gishu County
<b>Site(s)</b>	Moi Teaching and Referral Hospital, Uasin Gishu
<b>Project Period</b>	4/12/2021-Ongoing
<b>Sponsor(s)</b>	Mental Health RDF funds
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.

<b>Study Title</b>	Data Science for Decision Support in the HIV Care Cascade
<b>Principal Investigator(s)</b>	Joseph Hogan (Brown University), Ann Mwangi (Moi University), Hamish Frasier (Brown University)
<b>Collaborator(s)</b>	Juddy Wachira (Moi University), Edwin Sang (AMPATH), Lameck Diero (Moi University), Jonathan Dick (Indiana University), Rami Kantor (Brown University), Jonathan Teich (Brigham and Women's Hospital), Arman Oganisian (Brown University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	Aim 1: Develop and validate statistical machine learning models and algorithms for clinical and programmatic decision support. Aim 2. Develop, implement and field test decision support and data visualization tools to enhance data-driven decision making by physicians and program managers. Aim 3: Conduct evaluation of the impact and efficacy of the clinical decision support tools in Kenya.
<b>Site(s)</b>	All AMPATH sites
<b>Project Period</b>	11/1/2021 - 10/31/2026
<b>Sponsor(s)</b>	NIH
<b>Status</b>	Ongoing -- The first phase of the study deals with development of statistical methodology. That work has started. No update provided for the current reporting period.

<b>Study Title</b>	Determining The Frequency of Cytogenetic Abnormalities among Multiple Myeloma Patients in Kenya using an Artificial Intelligence-based Approach: A Retrospective Cohort Study
<b>Principal Investigator(s)</b>	Teresa Lotodo (Moi University)
<b>Collaborator(s)</b>	Mercy Atieno Oduor (AMPATH), Kelvin Manyega (Kabarak University), Beatrice Melly (MTRH), Austin Omondi (AMPATH), Diana Flora Namaemba (AMPATH), Yvette Oyolo (AMPATH), Ola Landgren (University of Miami), Francesco Maura (University of Miami)
<b>Study Type</b>	Retrospective
<b>Specific Aim(s)</b>	Aim 1. To determine, by using AI methods, the frequency of suspected cytogenetic abnormalities in multiple myeloma patients at diagnosis based on scanned images of H&E and CD138 stained slides. Aim 2. To correlate the AI classification of MM patients at diagnosis with their survival.
<b>Site(s)</b>	Uasin Gishu (MTRH)
<b>Project Period</b>	10/1/2021 - 12/1/2022
<b>Sponsor(s)</b>	University of Miami
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	Developing Capacity of Moi Teaching and Referral Hospital / Moi University Institutional Research Ethics Committee (MTRH/MU IREC), Kenya to Prevent and Manage Research Misconduct
<b>Principal Investigator(s)</b>	Edwin Were (Moi University)
<b>Collaborator(s)</b>	Jepchirchir Kiplagat (Moi University)
<b>Study Type</b>	Cross-Sectional
<b>Specific Aim(s)</b>	Aim 1: Estimate the prevalence of and explore stakeholder perceptions on research misconduct and how it can best be addressed in Kenya. Aim 2: Explore the perceptions on capacity to prevent, detect and manage research misconduct and the perceived critical components of a model framework for managing research misconduct. Aim 3. Develop and pilot test a model framework for detecting and managing research misconduct.
<b>Site(s)</b>	Kisumu, Moi Teaching and Referral Hospital, KNH, Research Ethics Committees in Kenya
<b>Project Period</b>	8/1/2017 - 7/31/2022
<b>Sponsor(s)</b>	NIH-FIC
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.

<b>Study Title</b>	EA-leDEA: A longitudinal survey study of the impact of COVID-19 preparedness and response efforts on people living with HIV in East Africa
<b>Principal Investigator(s)</b>	Kara Wools-Kaloustian (Indiana University)
<b>Collaborator(s)</b>	Lameck Diero (Moi University), Constantin Yiannoustos (Indiana University), Aggrey Sameere (Makerere University)

<b>Study Type</b>	Longitudinal observational cohort study
<b>Specific Aim(s)</b>	Aim 1: Assess COVID-19 related knowledge, attitudes, and beliefs among a diverse cohort of people living with HIV in East Africa. Aim 2: Describe the impact of COVID-19 on socio-economic well-being, health status, health services utilization, and health behaviors among a diverse cohort of people living with HIV in East Africa.
<b>Site(s)</b>	Bungoma, Busia, Kisumu, Moi Teaching and Referral Hospital, Trans Nzoia, Uasin Gishu
<b>Project Period</b>	6/9/2020 - ongoing
<b>Sponsor(s)</b>	None
<b>Status</b>	Ongoing -- Follow Up Continues. Enrollment has finished but participants are still receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	EA-IeDEA: ACE Study
<b>Principal Investigator(s)</b>	Rachel Vreeman (Mount Sinai)
<b>Collaborator(s)</b>	Kara Wools-Kaloustian (Indiana University), Edith Apondi (MTRH), Batya Elul (Columbia University), Rami Kantor (Brown University), Samuel Ayaya (Moi University), Giorgos Bakoyannis (Indiana University), Leslie Enane (Indiana University), Zachary Kwena (FACES -KEMRI)
<b>Study Type</b>	Cross-Sectional
<b>Specific Aim(s)</b>	Aim 1: Describe the engagement status (engaged, LTP with care disengagement, LTP with re-engagement, or LTFU), virologic suppression status (viral suppression or viral non-suppression), and vital status (alive, dead, or LTFU) for PIA. Aim 2: Provide in-depth characterization of the populations of PIA engaged in and disengaged from care, including describing current HIV care-related characteristics (ART regimen, adherence to treatment, experiences of HIV-related stigma, HIV care preferences); virologic outcomes (viral suppression, viral failure, and drug resistance patterns); pregnancy status; and mental and behavioral health characteristics (depression, substance use). Aim 3: Describe virologic, mental and behavioral health outcomes and HIV care preferences by HIV care status (engaged, LTP with care disengagement, LTP with re-engagement, or LTFU). Aim 4: Identify patient-level factors (including clinical characteristics, mental and behavioral characteristics, and HIV care preferences) associated with HIV care status (engaged, LTP with care disengagement, or LTP with re-engagement), viral suppression, and death.
<b>Site(s)</b>	Moi Teaching and Referral Hospital, Trans Nzoia
<b>Project Period</b>	8/1/2018 - ongoing
<b>Sponsor(s)</b>	NIH-NIAID
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.

<b>Study Title</b>	EA-IeDEA: Adolescent and Young Adult Network of IeDEA (AYANI)
<b>Principal Investigator(s)</b>	Rachel Vreeman (Mount Sinai)
<b>Collaborator(s)</b>	Edith Apondi (Moi University), Kara Wools-Kaloustian (Indiana University), Zachary Kwena (The Family AIDS Care and Education Services), Batya Elul (Columbia University), Leslie Enane (Indiana University), and Winstone Nyandiko (Moi University)
<b>Study Type</b>	Prospective

<b>Specific Aim(s)</b>	1: Describe care engagement patterns (retention, losses-to-follow up), transition indicators (e.g., self-care, socio-demographic data), viral suppression, and mortality among the group of ALWH, both prior to cohort formation and at follow-up. 2: Examine the correlates of key clinical and socio-demographic factors with retention and viral non-suppression among ALWH. Factors to be assessed include: gender, HIV-disclosure age, transitions in care, self-reported adherence, pregnancy, stigma, depression, anxiety, trauma, sexual risk behaviors, and substance use. 3: To assess the feasibility of establishing a multiregional cohort of ALWH for in-depth data collection. Feasibility measures include numbers of ALWH eligible, enrolled and retained.
<b>Site(s)</b>	Kisumu, Moi Teaching and Referral Hospital, Trans Nzoia
<b>Project Period</b>	7/1/2021 - ongoing
<b>Sponsor(s)</b>	NIH-NIAID
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	EA-leDEA: Jozi Study (Determining Long-Term Clinical Outcomes for HIV-Affected Mother-Infant Dyads in Western Kenya: Sub-Study to the Measuring Adverse Pregnancy and Newborn Congenital Outcomes (MANGO) Study)
<b>Principal Investigator(s)</b>	Jimmy Carlucci (Indiana University)
<b>Collaborator(s)</b>	Audrey Chepkemoi (Moi University), John Humphrey (Indiana University), Kara Wools-Kaloustian (Indiana University), Rena Patel (University of Washington), Megan McHenry (Indiana University), Edwin Were (Moi University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	SA-1: Ascertain maternal outcomes in the prevention of mother-to-child transmission of HIV (PMTCT) service continuum, with emphasis on virologic outcomes for pregnant and postpartum women living with HIV (WLHIV). Hypothesis 1: Virologic failure will be more common in WLHIV who are lost to follow-up (LTFU) from the PMTCT program compared to WLHIV who are retained in care. SA-2: Ascertain infant outcomes in the PMTCT service continuum, with emphasis on early infant diagnosis (EID) and definitive determination of HIV status of HIV-exposed children after cessation of breastfeeding. Hypothesis 2: Favorable maternal virologic and retention outcomes will be associated with completion of EID testing, definitive testing after cessation of breastfeeding, and HIV seronegative status (i.e., mitigation of vertical transmission) among HIV-exposed infants.
<b>Site(s)</b>	Uasin Gishu (MTRH)
<b>Project Period</b>	8/1/2021 - 7/31/2023
<b>Sponsor(s)</b>	NIH-NIAID
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	EA-leDEA: Main Study
<b>Principal Investigator(s)</b>	Kara Wools-Kaloustian (Indiana University)
<b>Collaborator(s)</b>	Constantin Yiannoutsos (Indiana University), Lameck Diero (Moi University), Samuel Ayaya (Moi University)
<b>Study Type</b>	Retrospective

<b>Specific Aim(s)</b>	To collaborate with clinical sites to identify and define key variables, harmonize and effectively analyze the data to generate large datasets.
<b>Site(s)</b>	Bungoma, Busia, Kisumu, Moi Teaching and Referral Hospital, Trans Nzoia, Uasin Gishu, West Pokot
<b>Project Period</b>	8/1/2006 - ongoing
<b>Sponsor(s)</b>	NIH-NIAID
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	EA-leDEA: Measuring Adverse Pregnancy and Newborn Outcomes (MANGO)
<b>Principal Investigator(s)</b>	Edwin Were (Moi University)
<b>Collaborator(s)</b>	Rena Patel (University of Washington), Julia Songok (Moi University), Bett Kipchumba (AMPATH), Audrey Chepkemboi (Moi University), Wycliffe Kosgei (Moi Teaching and Referral Hospital), Joy Marsha (AMPATH), Catlin Bernard (Indiana University), Beverly Musick (Indiana University), Laura Oyiengo (AMPATH), Elvis Oyungi (AMPATH), Molly McPheron (Indiana University), Meghan McHenry (Indiana University), Edward Leichy (Indiana University), Ushma Mehta (University of Cape Town), Emma Kalk (University of Cape Town), Amy Slogrove (Stellenbosch University), Andrew Boule (University of Cape Town), Mary-Ann Davies (University of Cape Town), Constantin Yiannoutsos (Indiana University), Kara Wools-Kaloustian (Indiana University), Jimmy Carlucci (Indiana University)
<b>))</b>	Mixed prospective and retrospective cohort study
<b>Specific Aim(s)</b>	1. Determine event rates for adverse pregnancy outcomes, congenital abnormalities (CAs) and other abnormal conditions in infants born to HIV+ and HIV- women and determine the associations between adverse pregnancy and infant outcomes and ART exposures during conception and pregnancy 2. To create standardized protocols and data exchange standards within IU and leDEA. By leveraging the existing and extensive leDEA Data Exchange Standard (DES) and creating a Data Standards Task Force and a Data Coordinating Center for PV, we will add new tables and expand existing ones, as necessary, to include new concepts and fields responsive to the needs of pharmacovigilance among pregnant women.
<b>Site(s)</b>	Uasin Gishu
<b>Project Period</b>	8/3/2020 - 7/31/2025
<b>Sponsor(s)</b>	NIH-NICHD
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	EA-leDEA: MANGO CA Study
<b>Principal Investigator(s)</b>	Audrey Chepkemboi (Moi Teaching and Referral Hospital)
<b>Collaborator(s)</b>	John Humphrey (Indiana University), Edwin Were (Moi University), Julia Songok (Moi University), Bett Kipchumba (AMPATH), Wycliffe Kosgei (MTRH), Caitlin Bernard (Indiana University), Beverly Musick (Indiana University), Steve Brown (Indiana University), Molly McPheron (Indiana University), James Carlucci (Indiana University), Megan McHenry (Indiana University), Kara Wools-Kaloustian (Indiana University), and Rena Patel (University of Washington)
<b>Study Type</b>	Retrospective



<b>Specific Aim(s)</b>	The objective of this study is to develop a user-centered model for service delivery optimized to meet the needs of families with infants diagnosed with major congenital abnormalities in resource-limited settings. Aim 1. Explore community perceptions, lived experiences and care needs of families with infants diagnosed with congenital abnormalities in resource-limited settings. Aim 2. Develop a service delivery model optimized to meet the needs of families with infants diagnosed with congenital abnormalities in resource-limited settings.
<b>Site(s)</b>	Moi Teaching and Referral Hospital
<b>Project Period</b>	11/24/2022 - 11/23/2023
<b>Sponsor(s)</b>	NIH-NICHD
<b>Status</b>	Not started -- Study activities have not begun.

<b>Study Title</b>	EA-IeDEA: NIDA Study
<b>Principal Investigator(s)</b>	Kara Wools-Kaloustian (Indiana University)
<b>Collaborator(s)</b>	Lameck Diero (Moi University), Suzanne Goodrich (Indiana University), Edith Kwobah (Moi Teaching and Referral Hospital), Patrick Oyaro (FACES/RCTP/KEMRI), Maurice Aluda (FACES/RCTP/KEMRI), Jayne Kulzer (University of California, San Francisco)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	Aim 1: Estimate the prevalence of hazardous alcohol consumption in patients enrolling in HIV- care and compare their baseline characteristic with those of non-drinkers. Aim 2: Compare clinician and research assistant collected AUDIT screening data at one clinic within the East African IeDEA consortium. Aim 3: Assess the impact of hazardous drinking on patient outcomes including time to antiretroviral therapy (ART) initiation, medication adherence, retention in care, and death at 6 months and again at 24-36 months. Aim 4: Assess strategies utilized by patients to address their hazardous alcohol use.
<b>Site(s)</b>	Moi Teaching and Referral Hospital
<b>Project Period</b>	7/31/2017 - ongoing
<b>Sponsor(s)</b>	NIH-NIAID
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.

<b>Study Title</b>	EA-IeDEA: PHQ 9 Study
<b>Principal Investigator(s)</b>	Marcel Yotebieng (Albert Einstein College of Medicine)
<b>Collaborator(s)</b>	Kathryn Lancaster (Ohio State University), Lukoye Atwoli (Moi University), Jennifer Syvertsen (University of California, Riverside), Kara Wools-Kaloustian (Indiana University), et al.
<b>Study Type</b>	Cross-Sectional
<b>Specific Aim(s)</b>	Aim 1: Determine the region-specific differences in the quality of measurement afforded by the PHQ-9. Aim 2: Determine the dimensionality of PHQ-9 and assess whether a different scoring system or cut-point is needed among PLWH. Aim 3: Describe how PLWH in both regions express mental distress and determine whether reformulation/adaptation of questions in PHQ-9 will improve its performance
<b>Site(s)</b>	Moi Teaching and Referral Hospital
<b>Project Period</b>	11/23/2020 - ongoing

<b>Sponsor(s)</b>	NIH-NIAID
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.
<b>Study Title</b>	EA-IeDEA: PMTCT Plus Study: Improving Estimates of Mother-to-Child Transmission in Western Kenya: A Mixed Methods Prospective Cohort Study
<b>Principal Investigator(s)</b>	John Humphrey (Indiana University)
<b>Collaborator(s)</b>	Bett Kipchumba (MTRH), Marsha Alera (AMPATH), Libby Pfeiffer (Rhode Island College), Julia Songok (Moi University), Winfred Mwangi (MTRH), Wycliffe Kosgei (MTRH), Beverly Musick (Indiana University), Constantin Yiannoutsos (Indiana University), Juddy Wachira (Moi University), Kara Wools Kaloustian (Indiana University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	Aim 1. Determine the barriers and enhancers to retention in care and viral suppression for postpartum women. Sub-Aim 1a: identify factors influencing retention and viral suppression using (i) statistical methods for observational data that incorporate LTFU outcomes, and (ii) qualitative interviews among 30 postpartum women and 15 of their male partners; Sub-Aim 1b: determine the prevalence of HIV resistance and its association with viral non-suppression by genotyping postpartum blood samples with detectable viremia and stored samples collected during pregnancy and earlier postpartum. We are now conducting follow-up study visits at 3 years postpartum for all enrolled women and infants.
<b>Site(s)</b>	Busia, Trans Nzoia, Uasin Gishu
<b>Project Period</b>	2/1/2021 - 2/1/2022
<b>Sponsor(s)</b>	NIH-NIAID
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.
<b>Study Title</b>	EA-IeDEA: Predicting Neurodevelopmental Risk in Children born to Mothers Living with HIV in Kenya: Sub-Study to the Measuring Adverse Pregnancy and Newborn Congenital Outcomes (MANGO) Study
<b>Principal Investigator(s)</b>	Megan McHenry (Indiana University)
<b>Collaborator(s)</b>	Eren Oyungu (Moi University), Rachel Vreeman (Mount Sinai), Winstone Nyandiko (Moi University), Patrick Monahan (Indiana University), Alka Khaitain (Indiana University), Zeruesenay Desta (Indiana University), Amy Slogrove (Stellenbosch University), Rena Patel (University of Washington)
<b>Study Type</b>	Longitudinal follow up of the enrolled study participants for 2 years.
<b>Specific Aim(s)</b>	Evaluate potential risk factors for worse ND outcomes in young Kenyan children who are HEU and HUU Compare ND outcomes between 24-month-old children who are HEU and HUU in Kenya Create a risk assessment tool to predict which children are at risk for worse ND outcomes at 24 months
<b>Site(s)</b>	Moi Teaching and Referral Hospital
<b>Project Period</b>	7/1/2021-6/30/2026
<b>Sponsor(s)</b>	NIH
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	EA-IeDEA: Syndemics Study
<b>Principal Investigator(s)</b>	Kara Wools-Kaloustian (Indiana University)
<b>Collaborator(s)</b>	Suzanne Goodrich (Indiana University), Jennifer Syvertsen (University of California, Riverside), Jayne Kulzer (UCSF), Maurice Aluda (FACES/RCTP/KEMRI), Lukoye Atwoli (Moi University), Edith Kwobah (Moi Teaching and Referral Hospital)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	Aim 1: Identify community and clinic-based services available for treatment of substance use and mental health disorders in the three research sites. Aim 2: Determine the prevalence of substance use (drug and alcohol) and mental health disorders in patients enrolling into care. Aim 3: Assess the impact of substance use, mental health disorders and dual diagnoses on patient adherence and retention in the cascade. Aim 4: Conduct qualitative interviews with a sub-sample of cohort patients to explore access, use, and experiences with substance use and mental health services.
<b>Site(s)</b>	Moi Teaching and Referral Hospital
<b>Project Period</b>	12/17/2018 - ongoing
<b>Sponsor(s)</b>	NIH-NIAID
<b>Status</b>	Ongoing -- Follow Up Continues. Enrollment has finished but participants are still receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	EA-IeDEA: The Desire to Avoid Pregnancy Post-partum (DAPP Study)
<b>Principal Investigator(s)</b>	Wycliffe Kosgei (Moi Teaching and Referral Hospital)
<b>Collaborator(s)</b>	Caitlin Bernard (Indiana University)
<b>Study Type</b>	Tool development/validation
<b>Specific Aim(s)</b>	The aims of this study are to: 1. Conduct focus group discussions (FGDs) and field-testing, we will engage women and providers living in western Kenya to modify the existing scale items and responses and test the performance of these modified items to develop a final adapted DAP scale. 2. Evaluate the psychometric performance of the adapted DAP scale, including internal consistency, confirmatory fit to a one-factor model, and predictive validity, including whether DAP scale score predicts contraceptive use postpartum. 3. Compare the performance of the adapted DAP scale between Women living with HIV vs Women Not Living with HIV. We will leverage the cohort of women enrolled in the MANGO-Kenya study, which plans to recruit up to 400 women living with HIV and 400 women not living with HIV enrolling in ANC at MTRH. The 800 participants will be contacted and asked to participate in this sub-study during the postpartum period.
<b>Site(s)</b>	Uasin Gishu (Moi Teaching and Referral Hospital)
<b>Project Period</b>	9/7/2020 – ongoing
<b>Sponsor(s)</b>	NIH
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	Enhancing Preventive Therapy of Malaria in children with Sickle Cell Anemia (SCA) in East Africa (EPiTOMISE)
<b>Principal Investigator(s)</b>	Festus Njuguna (Moi University)
<b>Collaborator(s)</b>	Steve Taylor (Duke University), Wendy O'Meara (Duke University)
<b>Study Type</b>	Randomized, three-arm, open-label, clinical trial
<b>Specific Aim(s)</b>	Aim 1: Compare the efficacy of daily Proguanil with that of monthly sulfadoxine/pyrimethamine-amodiaquine (SP-AQ) or monthly dihydroartemisinin-piperaquine (DP) to prevent <i>P. falciparum</i> malaria in children with sickle cell. Aim 2: Compare the efficacy of daily Proguanil, monthly SP-AQ, and monthly DP to prevent painful events in children with sickle cell anemia. Aim 3: Compare the impact of malaria chemoprophylaxis regimens on molecular markers of parasite drug resistance to Proguanil, SP-AQ, and DP.
<b>Site(s)</b>	Homa Bay
<b>Project Period</b>	6/1/2016 - 2/28/2021
<b>Sponsor(s)</b>	NIH-NHLBI
<b>Status</b>	Complete -- Follow up and data analysis are complete and the study is closed.

<b>Study Title</b>	Estimating the relative effectiveness of contraceptive implants for HIV-positive women on antiretroviral therapy
<b>Principal Investigator(s)</b>	Rena Patel, University of Washington
<b>Collaborator(s)</b>	Beatrice Jakait (Moi Teaching and Referral Hospital), Caitlin Bernard (Indiana University)
<b>Study Type</b>	Retrospective
<b>Specific Aim(s)</b>	To assess the relative effectiveness of Levonorgestrel-based (LNG) implants with concomitant efavirenz-based ART among a random subsample of HIV-positive women attending AMPATH-supported HIV treatment facilities using chart reviews and phone interviews.
<b>Site(s)</b>	All AMPATH sites.
<b>Project Period</b>	5/1/2016-1/25/2021
<b>Sponsor(s)</b>	NIH - NIAID
<b>Status</b>	Complete -- Follow up and data analysis are complete and the study is closed.

<b>Study Title</b>	Ethnic Specific Risk Stratification in Early Pregnancy for Identifying Mothers at Risk of Gestational Diabetes Mellitus in Eldoret Kenya
<b>Principal Investigator(s)</b>	Wycliffe Kosgei (Moi Teaching and Referral Hospital)
<b>Collaborator(s)</b>	Astrid Christoffersen (University of British Columbia), Sonak Pastakia (Purdue University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	Aim 1: To determine the prevalence rates of GDM in rural and urban populations. Aim 2: To assess the impact of the risk factors of interest (age, BMI and family history) for GDM in early pregnancy. Aim 3: To develop and validate of composite risk score for GDM with the risk factors of interest and/or point-of-care HbA1c.
<b>Site(s)</b>	Moi Teaching and Referral Hospital, Uasin Gishu

<b>Project Period</b>	6/13/2016 - ongoing
<b>Sponsor(s)</b>	UK Medical Research Council; Warwick University
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.

<b>Study Title</b>	Evaluating reproductive and HIV outcomes and decision-making among HIV-positive women on dolutegravir: A prospective, observational cohort at AMPATH, Kenya
<b>Principal Investigator(s)</b>	John Humphrey (Indiana University)
<b>Collaborator(s)</b>	Rena Patel (University of Washington), Mercy Maina (AMPATH), Julie Thorne (University of Toronto), Beatrice Jakait (AMPATH), Caitlin Bernard (Indiana University)
<b>(O)Study Type</b>	Retrospective analysis of AMRS data and telephone surveys
<b>Specific Aim(s)</b>	Aim 1. To evaluate key reproductive health and HIV outcomes among women initially on DTG-containing ART. Aim 2: To investigate factors facilitating provider and patient decision-making for HIV-infected women choosing between ART and contraceptive choices.
<b>Site(s)</b>	
<b>Project Period</b>	7/9/2020 – 6/30/2022
<b>Sponsor(s)</b>	NIH; Indiana University
<b>Status</b>	Complete -- Follow up and data analysis are complete and the study is closed.

<b>Study Title</b>	Evaluation of Chronic Hypoxemia from Cardiopulmonary Disease Among Patients Admitted to a Referral Hospital in Western Kenya and Their Perspectives on Oxygen Use
<b>Principal Investigator(s)</b>	Neelima Navuluri (Duke University)
<b>Collaborator(s)</b>	David Lagat (Moi University), Peter Kussin (Duke University), Lameck Diero (Moi University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	Aim 1: Determine the prevalence of chronic hypoxemia from cardiopulmonary disease and the associated in-hospital mortality rate among patients admitted to Moi Teaching and Referral Hospital (MTRH) inpatient medicine wards from August 2019 - June 2021. Aim 2: Characterize patients with chronic hypoxemia admitted to MTRH by determining demographic and environmental risk factors, associated co-morbidities such as HIV, and underlying etiologies. Aim 3: Assess quality of life measures among patients with chronic hypoxemia and their perspectives on oxygen therapy.
<b>Site(s)</b>	Moi Teaching and Referral Hospital, Uasin Gishu
<b>Project Period</b>	9/1/2019 - ongoing
<b>Sponsor(s)</b>	NIH-Fogarty
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	Feasibility and acceptability of Enhanced Patient Care (EPC) for adult HIV patients with unsuppressed viral loads in western Kenya
<b>Principal Investigator(s)</b>	Juddy Wachira (Moi University)

<b>Collaborator(s)</b>	Becky Lynn Genberg (John Hopkins University), Ira Wilson (Brown University), Abraham Siika (Moi University), Omar Galarraga (Brown University), Paula Braitstein (University of Toronto), Ann Mwangi (Moi University), Sylvester Kimaiyo (Moi University), Jonathan Dick (Indiana University), Michael Bart Laws (Brown University)
<b>Study Type</b>	Randomized Controlled Trial
<b>Specific Aim(s)</b>	Aim 1. Determine the impact of system-level factors on patient engagement (clinic adherence) among adult HIV patients. Aim 2. Assess the feasibility and acceptability of enhanced patient care (EPC) clinics for promoting patient engagement (clinic adherence) among patients with unsuppressed viral load ( $\geq 400$ ). Aim 3. Determine the cost effectiveness of EPC for engagement of patients with unsuppressed viral load.
<b>Site(s)</b>	Busia
<b>Project Period</b>	7/3/2017 - 12/30/2022
<b>Sponsor(s)</b>	NIH
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.

<b>Study Title</b>	Harambee: Integrated Community-Based HIV/NCD Care & Microfinance Groups in Kenya
<b>Principal Investigator(s)</b>	Omar Galárraga (Brown University)
<b>Collaborator(s)</b>	Becky Lynn Genberg (Johns Hopkins University), Juddy Wachira (Moi University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	Aim 1: To evaluate the extent to which integrated community-based HIV care with group microfinance affects retention in care and viral suppression among PLHIV in rural western Kenya using a pragmatic cluster randomized intervention design of 40 existing (majority HIV+) microfinance groups to receive microfinance plus either: (A) integrated community-based HIV care, or (B) standard care. Aim 2: To identify specific mechanisms through which microfinance and integrated community-based care impact viral suppression. Aim 3: To assess the cost-effectiveness of microfinance and integrated community-based care delivery to maximize future policy and practice relevance of this promising intervention strategy.
<b>Site(s)</b>	Busia, Trans Nzoia
<b>Project Period</b>	7/5/2019 - 4/30/2024
<b>Sponsor(s)</b>	NIH-NIMH
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	HIV-related outcomes at the AMPATH Drug Resistance Clinic in Kenya
<b>Principal Investigator(s)</b>	John Humphrey (Indiana University)
<b>Collaborator(s)</b>	Shamim Ali (Moi University), Bilal Syed (Moi University), Suzanne Goodrich (Indiana University), Celia Ngetich (MTRH), Beatrice Jakait (MTRH), Rami Kantor (Brown University), Adrian Gardner (Indiana University)
<b>Study Type</b>	Retrospective
<b>Specific Aim(s)</b>	Aim 1: Describe the clinical characteristics of patients attending the AMPATH HIV Drug Resistance Clinic, including the prevalence of drug resistance mutations. Aim 2: Describe the virologic and ART

	outcomes of patients failing second and third-line ART, including the proportion of patients who achieve viral suppression following enrollment in the clinic and the proportion experiencing an ART regimen change.
<b>Site(s)</b>	Uasin Gishu
<b>Project Period</b>	3/3/2020 – 6/30/2022
<b>Sponsor(s)</b>	None
<b>Status</b>	Complete -- Follow up and data analysis are complete and the study is closed.

<b>Study Title</b>	leDEA: Sentinel Research Network (SRN)
<b>Principal Investigator(s)</b>	Niharika Samala (Indiana University)
<b>Collaborator(s)</b>	Kara Wools-Kaloustian (Indiana University), Lameck Diero (Moi University), Suzanne Goodrich (Indiana University), Edith Kwobah (Moi University), Mercy Karoney (Moi University), Felix Barasa (MTRH), Alexa Monroy (Children’s Hospital Los Angeles), Samir Gupta (Indiana University), Fatuma Some (Moi University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	To establish a network of research sites, the Sentinel Research Network (SRN), and to capture and analyze standardized data among PLHIV in LMICs. Through this network, we further seek to implement studies on cardiovascular risk factors, mental health, alcohol and other substance use disorders, as well as liver disease prevalence and associated factors among PLHIV accessing care in LMICs.
<b>Site(s)</b>	Moi Teaching and Referral Hospital
<b>Project Period</b>	8/1/2020 - 7/31/2022
<b>Sponsor(s)</b>	NIH-NIAID
<b>Status</b>	Ongoing -- Follow Up Continues. Enrollment has finished but participants are still receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	Impact of COVID-19 on adolescents living with HIV in Kenya
<b>Principal Investigator(s)</b>	Rami Kantor (Brown University)
<b>Collaborator(s)</b>	Winstone Nyandiko (Moi University), Rachel Vreeman (Mount Sinai)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	Aim 1: Investigate changes in ART adherence, mental health and socio-economic well-being related to COVID-19, and their association with viral failure and DR outcomes in Kenyan ALWH. Aim 2: Estimate exposure to COVID-19 and association with viral failure and DR outcomes among Kenyan ALWH enrolled in the parent grant.
<b>Site(s)</b>	Bungoma, Moi Teaching and Referral Hospital, Trans Nzoia, Uasin Gishu
<b>Project Period</b>	8/20/2020 - 5/31/2024
<b>Sponsor(s)</b>	NIH
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	Impact of Infection Prevention Care Bundles on Surgical Site Infections Post Cesarean Section in Moi Teaching and Referral Hospital
<b>Principal Investigator(s)</b>	Adrian Gardner (Indiana University)
<b>Collaborator(s)</b>	Wycliffe Kosgei (MTRH), Faith Sila (MTRH), Jackline Opondo (MTRH), Shem Kinara (MTRH), Betty Rop (MTRH), Sarah Esendi (MTRH), Mercy Jelimo (MTRH), Vitalis Orango (MTRH), Luke Sartino (IU Health), Catherine Sartino (IU Health), Marnie Sieber (IU Health), William Fadel (IU Health), Kristen Kelley (IU Health), Bilal Jawed (Indiana University)
<b>Study Type</b>	Pre-post study design
<b>Specific Aim(s)</b>	The aims of this study are: 1. Identify the current healthcare provider antimicrobial prescribing patterns for patients undergoing cesarean section and implement cesarean section surgical site surveillance at MTRH. 2. Determine the antimicrobial susceptibility patterns in cesarean section wound infections and compare against antimicrobials prescribed. 3. Identify the baseline prevalence of surgical site infections and analyze the short- and long-term complications of SSI after cesarean section 4. Calculate and analyze the prevalence of health disparities in patients having cesarean section complications 5. Based on objectives 1-4, develop a surgical site infection practice bundle and policy designed around pertinent risk factors: determinants of health, antimicrobial use, modifiable risk factors and clinical gaps in care and implement surgical site infection bundle and policy and evaluate outcomes.
<b>Site(s)</b>	Moi Teaching and Referral Hospital, Uasin Gishu
<b>Project Period</b>	1/1/2022 -
<b>Sponsor(s)</b>	Pfizer
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	Implementing a Model of Improved Care for Infectious Diseases and Antibiotic Stewardship across Multiple Levels of the Health System in Western Kenya
<b>Principal Investigator(s)</b>	Charles Kwobah (Moi University)
<b>Collaborator(s)</b>	Shamim Ali (Moi University), Suzanne Goodrich (Indiana University), Adrian Gardner (Indiana University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	The aim of this project is to optimize appropriate antibiotic use in order to improve clinical outcomes while minimizing unintentional consequences of use, including the emergence of antimicrobial resistance.
<b>Site(s)</b>	Bungoma, Elgeyo Marakwet, Moi Teaching and Referral Hospital, Uasin Gishu
<b>Project Period</b>	10/1/2019 – 9/30/22
<b>Sponsor(s)</b>	Pfizer Foundation
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.



<b>Study Title</b>	Integrating hypertension and diabetes screening and management with HIV care services for older adults: Feasibility study
<b>Principal Investigator(s)</b>	Jepchirchir Kiplagat (Moi University)
<b>Collaborator(s)</b>	Kara Wools-Kaloustian (Indiana University), Jemima Kamano (Moi University), Sonak Pastakia (Purdue University), Violet Naanyu (Moi University), Rajesh Vedanthan (NYU)
<b>Study Type</b>	Mixed methods
<b>Specific Aim(s)</b>	Specific aims: To lay the groundwork for integrated HIV and NCD services, this project aims to; i) Determine unmet needs for hypertension and diabetes screening and treatment in OALWH ii) Assess feasibility and acceptability of utilizing AMPATH's HIV care platform to provide diabetes and hypertension screening and treatment services to older adults living with HIV.
<b>Site(s)</b>	Moi Teaching and Referral Hospital, Uasin Gishu
<b>Project Period</b>	7/1/2021 – 6/30/2022
<b>Sponsor(s)</b>	NIH-Fogarty International Center
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.

<b>Study Title</b>	JSVCT109 "A global multicenter, randomized, double-blind, placebo-controlled, phase III clinical trial to evaluate the efficacy, safety, and immunogenicity of recombinant COVID-19 vaccine (Sf9 cell) for the prevention of COVID-19 in adults aged 18 years and older"
<b>Principal Investigator(s)</b>	Sylvester Kimaiyo (Moi University)
<b>Collaborator(s)</b>	Nicholas Kirui (Moi Teaching and Referral Hospital), Thomas Andale (Moi Teaching and Referral Hospital)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	1.To evaluate the efficacy of recombinant COVID-19 vaccine (Sf9 cells) in preventing virologically confirmed (PCR positive) symptomatic COVID-19 cases first occurring 28 days after completion of 3 vaccination doses, regardless of severity 2. To evaluate the incidence of SAEs, MAAEs and AESIs from Day 0 through 6 months after completion of 3 doses vaccination and the reactogenicity(the incidence of solicited AEs and unsolicited AEs) in all participants.
<b>Site(s)</b>	Elgeyo Marakwet, Kakamega, Moi Teaching and Referral Hospital, Nandi, Trans Nzoia, Uasin Gishu, Vihiga
<b>Project Period</b>	10/4/2021 - 3/31/2023
<b>Sponsor(s)</b>	WestVac Biopharma Co., Ltd. and West China Hospital of Sichuan University
<b>Status</b>	Ongoing -- Follow Up Continues. Enrollment has finished but participants are still receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	Making Inroads to Strengthen the Health of Adolescents (MAISHA)
<b>Principal Investigator(s)</b>	Leslie Enane (Indiana University)
<b>Collaborator(s)</b>	Edith Apondi (Moi University), Rachel Vreeman (Mount Sinai), Winstone Nyandiko (Moi University), Elizabeth Lowenthal (University of Pennsylvania)

<b>Study Type</b>	Cross-Sectional
<b>Specific Aim(s)</b>	Aim 1. To quantify missed opportunities along the HIV care cascade among adolescents prior to hospitalization in western Kenya, by examining timing and outcomes of HIV diagnosis, linkage to and retention in care, and viral suppression. (Secondary Aim: To determine the causes of hospitalization and mortality among adolescents with HIV in western Kenya); Aim 2. To define critical barriers contributing to delays or failures in the care cascade, as well as facilitators to care, and to identify areas of potential intervention.
<b>Site(s)</b>	Moi Teaching and Referral Hospital, Uasin Gishu
<b>Project Period</b>	4/12/2017 - ongoing
<b>Sponsor(s)</b>	Indiana University
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.

<b>Study Title</b>	Maternal Newborn Health Registry
<b>Principal Investigator(s)</b>	Fabian Esamai (Moi University)
<b>Collaborator(s)</b>	Sherri Bucher (Indiana University), Edward Liechty (Indiana University), Irene Marete (Moi University), Constance Tenge (Moi University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	A multicenter (8 sites in 7 countries) prospective, population-based registry which enrolls women during pregnancy and tracks pregnancy, delivery, and postnatal maternal and neonatal outcomes through 42 days postpartum. A vital registry system allows the Global Network to document maternal and neonatal mortality, design trials to address the major causes of poor outcomes, assess the outcome of our interventions, and ultimately, disseminate the results as the basis of public health policy.
<b>Site(s)</b>	Bungoma, Busia, Kakamega
<b>Project Period</b>	10/15/2008 - ongoing
<b>Sponsor(s)</b>	NIH-NICHD
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up. No update provided for the current reporting period.

<b>Study Title</b>	Mobile Mental Health Monitoring and Support for Adolescents with HIV in Kenya
<b>Principal Investigator(s)</b>	Rachel Vreeman (Mount Sinai)
<b>Collaborator(s)</b>	Winstone Nyandiko (Moi University), Edith Apondi (MTRH), Bree Weaver (Indiana University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	Aim 1: Assess the feasibility, acceptability, and usability of a cell phone-based intervention to provide mental health services (tele-therapy and tele-peer support) for HIV-infected adolescents in Kenya. Aim 2: Evaluate the user engagement with both the cell phone-based intervention and the clinical care system throughout the monitoring period using counselor reports, usage tracking, and clinical database evaluation. Aim 3: Describe key clinical, mental, and emotional health outcomes for this cohort during the monitoring period, including medication and clinic adherence, viral suppression, depression symptoms and other behavioral or emotional symptom reports, and engagement with support services such as peer support groups.

<b>Site(s)</b>	Uasin Gishu
<b>Project Period</b>	1/1/2017 - 12/31/2018
<b>Sponsor(s)</b>	NIH-NIMH
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.
<b>Study Title</b>	
	Multicenter Study of Pomalidomide Monotherapy in HIV-Infected Individuals with Kaposi Sarcoma (KS) in Sub-Saharan Africa (SSA)
<b>Principal Investigator(s)</b>	Naftali Busakhala (Moi University)
<b>Collaborator(s)</b>	Evangeline Njiru (Moi University), Susan Krown (Memorial Sloan Kettering), Samantha Vogt (Johns Hopkins)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	The study objective is to determine if pomalidomide monotherapy induces an antitumor efficacy and whether it is safe and tolerable, in order to justify its further development for treatment of HIV-associated KS in sub-Saharan Africa.
<b>Site(s)</b>	Kisumu, Moi Teaching and Referral Hospital
<b>Project Period</b>	7/15/2021-Ongoing
<b>Sponsor(s)</b>	NIH
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.
<b>Study Title</b>	
	NeolInnovate Collaborative Consortium
<b>Principal Investigator(s)</b>	Sherri Bucher (Indiana University)
<b>Collaborator(s)</b>	Saptarshi Purkyastha (Indiana University), Fabian Esamai (Moi University)
<b>Study Type</b>	n/a
<b>Specific Aim(s)</b>	The NeolInnovate Collaborative Consortium is a multi-disciplinary international coalition of faculty, students, and post-graduate trainees led by IU School of Medicine and Alupe University College (Moi University) and partnering with Moi Teaching and Referral Hospital (Kenya), IUPUI, Purdue University, and University of Notre Dame. The Consortium builds, deploys, and evaluates innovative solutions by which to equip, empower, and strengthen health care providers, communities, and health systems. These efforts supply partners and stakeholders with the knowledge, skills, and tools by which to successfully disseminate, implement, scale-up, and sustain evidence-based, life-saving interventions to improve maternal and newborn outcomes.
<b>Site(s)</b>	n/a
<b>Project Period</b>	n/a
<b>Sponsor(s)</b>	None
<b>Status</b>	Preparing grant submissions. No update provided for the current reporting period.
<b>Study Title</b>	
	Neurodevelopmental Screening in Children Born to HIV-Infected Mothers in Kenya

<b>Principal Investigator(s)</b>	Megan McHenry (Indiana University)
<b>Collaborator(s)</b>	Eren Oyungu (Moi University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	AIM 1: Determine and compare the reliability and validity of neurodevelopmental screening tools and assessments for use among children aged 18-36 months in Kenya. The objective for this aim is to identify an optimal screening tool and assessment for use in Kenya. AIM 2: Evaluate neurodevelopmental screening implementation in an existing healthcare system in Kenya. •Sub-aim 2a: Develop a contextualized implementation plan and Sub-aim 2b: Pilot a ND screening program at one MCH clinic in Kenya. In addition, we will assess the effectiveness of ND screening, as determined by sensitivity; specificity; and positive and negative predictive values.
<b>Site(s)</b>	Uasin Gishu
<b>Project Period</b>	9/30/2018 - 8/31/2022
<b>Sponsor(s)</b>	NIH-NIMH
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	Neuropsychiatric Genetics of African Populations -Psychosis (NEUROGAP-P)
<b>Principal Investigator(s)</b>	Lukoye Atwoli (Aga Khan University)
<b>Collaborator(s)</b>	Gabriel Kigen (Moi University), Edith Kwobah (Moi University), Wilfred Emonyi (Alupe University)
<b>Study Type</b>	Cross-Sectional
<b>Specific Aim(s)</b>	Aim 1: To determine the phenotypic presentation of psychotic disorders in African populations. Aim 2: To describe the genetic variation between patients with psychotic disorders and those without in African populations. Aim 3: To examine the association between genetic variation and risk for schizophrenia and bipolar disorder in African populations. Aim 4: To provide opportunities for training of African scientists in neuropsychiatric genetics research. Target number of participants has since been reviewed to 5,200
<b>Site(s)</b>	Bungoma, Elgeyo Marakwet, Kakamega, Moi Teaching and Referral Hospital, Nandi, Trans Nzoia, West Pokot
<b>Project Period</b>	7/1/2017 - 6/30/2022
<b>Sponsor(s)</b>	Broad Institute of MIT; Harvard University
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	Optimizing HIV treatment monitoring strategies under resource constraints
<b>Principal Investigator(s)</b>	Rami Kantor (Brown University)
<b>Collaborator(s)</b>	Ann Mwangi (Moi University), Lameck Diero (Moi University), Joseph Hogan (Brown University)
<b>Study Type</b>	The research will use previously collected data and blood samples stored from previously IREC approved AMPATH studies.
<b>Specific Aim(s)</b>	1) Develop and apply scalable statistical framework for optimal targeting of gold standard diagnostic tests used to monitor HIV treatment under resource constraints; 2) Apply causal inference techniques to calibrate decision rules using estimated decision utilities; 3) Develop methods to

	optimize pooling strategies for viral load testing in resource limited settings; 4) To implement and cross validate new algorithms for viral load pooling using samples from drug resistant patients
<b>Site(s)</b>	All AMPATH clinics
<b>Project Period</b>	2/3/2016 – 10/31/2022
<b>Sponsor(s)</b>	NIH-NIAID
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.

<b>Study Title</b>	Optimizing Linkage and Retention to Hypertension Care in Rural Kenya (LARK)
<b>Principal Investigator(s)</b>	Valentin Fuster (Mount Sinai)
<b>Collaborator(s)</b>	Jemima Kamano (Moi University), Violet Naanyu (Moi University), Diana Menya (Moi University), Sylvester Kimaiyo (Moi University), Rajesh Vedanthan (NYU Grossman School of Medicine), et al.
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	The objective of this project is to utilize a multi-disciplinary implementation research approach to address the challenge of linking and retaining hypertensive individuals to a hypertension management program. Aim 1: Identify the facilitators and barriers to linking and retaining individuals with high blood pressure to a hypertension care delivery program, using a combination of qualitative research methods. Aim 2: Evaluate the effectiveness of CHWs equipped with a tailored behavioral communication strategy and a smartphone-based tool in improving linkage and reducing blood pressure among hypertensive patients, by conducting a cluster randomized trial comparing: 1) usual care (CHWs with standard training on recruitment of individuals with any chronic condition); 2) CHWs with an additional tailored behavioral communication strategy; and 3) CHWs with a tailored behavioral communication strategy an also equipped with smartphone-based tool linked to the AMRS. Aim 3: Evaluate the incremental cost-effectiveness of each intervention arm of the cluster randomized trial. Study population: Enrollment remains closed for this study. 2890 individuals (69.9percent women) were enrolled (708 UC, 709 MF, 740 GMV, and 733 GMV-MF).
<b>Site(s)</b>	Nandi, Uasin Gishu
<b>Project Period</b>	4/1/2012 - 3/31/2022
<b>Sponsor(s)</b>	NHLBI; NYU Grossman School of Medicine
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.

<b>Study Title</b>	Participatory research approach to the development of an enhanced mentor mother strategy (PaRADE-MMS)
<b>Principal Investigator(s)</b>	James Carlucci (Indiana University)
<b>Collaborator(s)</b>	Rosa Chemwey (Moi University), Kara Wools-Kaloustian (Indiana University), Violet Naanyu (Moi University), Edwin Were (Moi University)
<b>Study Type</b>	Cross-sectional
<b>Specific Aim(s)</b>	Aim 1: Assess perceptions of existing MM services and the ability of these services to identify and then impact modifiable factors that influence HIV-affected mother-infant dyads' PMTCT outcomes. Aim 2: Develop an enhanced MM strategy that can respond to the specific needs of HIV-affected

	mother-infant dyads and that is acceptable and feasible for implementation in resource-constrained settings.
<b>Site(s)</b>	Busia, Moi Teaching and Referral Hospital, Uasin Gishu
<b>Project Period</b>	10/27/2022 -
<b>Sponsor(s)</b>	NIH-NICHD
<b>Status</b>	Not started -- Study activities have not begun.

<b>Study Title</b>	Prevalence and Impact of SARS-CoV-2 Among Pregnant Women in Low- and Middle-income Countries
<b>Principal Investigator(s)</b>	Fabian Esamai (Moi University)
<b>Collaborator(s)</b>	Edward Liechty (Indiana University), Sherri Bucher (Indiana University), Irene Marete (Moi University), Constance Tenge (Moi University), Osayame Ekhaguere (Indiana University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	Aim 1: To determine the prevalence of COVID-19 antibodies in pregnant/recently delivered women in 8 Global Network sites using antibody testing. Aim 2: To compare the maternal, fetal, and neonatal outcomes of COVID-19 antibody positive women vs. antibody negative women including low-birthweight, preterm birth, fetal growth restriction, stillbirth, and neonatal mortality. Aim 3: To assess knowledge, attitudes and practices of pregnant women related to COVID-19 and its prevention during pregnancy.
<b>Site(s)</b>	Bungoma, Busia, Kakamega
<b>Project Period</b>	11/15/2020 - ongoing
<b>Sponsor(s)</b>	NIH-NICHD
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up. No updates provided for the current reporting period.

<b>Study Title</b>	Prevalence of hypertension among postpartum women with preeclampsia (PET) in Kenya: a prospective cohort study
<b>Principal Investigator(s)</b>	Gerald Bloomfield (Duke University)
<b>Collaborator(s)</b>	Felix Barasa (MTRH), Rebecca Lumsden (Duke University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	Aim1: To determine the prevalence of hypertension at 6 months postpartum among Kenyan mothers with preeclampsia. Sub-aim 1.1: To define the BP trajectory during the postpartum period among Kenyan mothers with preeclampsia. Aim 2: To identify risk factors associated with persistent hypertension among Kenyan mothers with preeclampsia. Aim 3: To characterize the acute cardiac structural and functional abnormalities among Kenyan mothers with preeclampsia. Aim 4: To explore post-delivery follow-up care for women with PET, including knowledge, location, barriers and rates of follow up
<b>Site(s)</b>	Moi Teaching and Referral Hospital
<b>Project Period</b>	1/6/2020 - ongoing
<b>Sponsor(s)</b>	NIH-FIC

<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis. We completed study follow-up and data collection as of May 31, 2021. We are now in the process of data cleaning and analysis and will be preparing for manuscript writing over the next 6 months. No updates provided for the current reporting period.
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<b>Study Title</b>	Prevention of maternal and neonatal death/infections with a single oral dose of Azithromycin in women in labor (in low- and middle-income countries): a Randomized Controlled Trial (The A-PLUS study)
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<b>Principal Investigator(s)</b>	Alan Tita (University of Alabama at Birmingham)
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<b>Collaborator(s)</b>	Fabian Esamai (Moi University), Paul Nyongesa (Moi University), Ed Liechty (Indiana University), Sherri Bucher (Indiana University), Osayame Ekhaguere (Indiana University)
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<b>Study Type</b>	Prospective
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<b>Specific Aim(s)</b>	Aim 1: To test the effectiveness of a single dose of prophylactic intrapartum azithromycin compared to placebo in reducing the risk of the composite outcome of maternal death or sepsis. Aim 2: To separately test the effectiveness of a single oral dose of intrapartum azithromycin prophylaxis (2 g) compared to placebo in reducing the risk of the composite outcome of intrapartum/neonatal death or sepsis.
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<b>Site(s)</b>	Bungoma, Busia, Kakamega
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<b>Project Period</b>	10/30/2019 - ongoing
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<b>Sponsor(s)</b>	NIH
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<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis. No updates provided for the current reporting period.
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<b>Study Title</b>	Primary Health Integrated Care Project For Chronic Conditions In (PIC4C) Kenya: Pilot Project
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<b>Principal Investigator(s)</b>	Jemima Kamano (Moi University)
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<b>Collaborator(s)</b>	Thomas Andale (MTRH), Nicholas Kirui (MTRH), Imran Manji (MTRH), Ann Mwangi (Moi University), Peter Itsura (Moi University), Philip Tonui (Moi University), Kibet Keitany (MTRH), Violet Naanyu (Moi University)
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<b>Study Type</b>	Prospective
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<b>Specific Aim(s)</b>	1. Explore perceived barriers and facilitators to the prevention and management of select NCDs (Diabetes, hypertension, cancers of cervix and breast) at the primary health care level by; patients, community members and health providers in Busia and Trans Nzoia counties. 2. Describe the process of implementation of the integrated hypertension, diabetes, cervical cancer and breast cancer prevention and management model within primary health care setting in Trans Nzoia and Busia counties. 3. Evaluate the effectiveness of the integrated chronic care model for hypertension, diabetes, cervical and breast cancers within primary health care setting in Busia and Trans Nzoia counties of western Kenya. 4. Estimate the incremental cost and budget impact of scaling up the proposed project in Busia and Trans Nzoia counties of western Kenya.
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<b>Site(s)</b>	Busia, Trans Nzoia
<b>Project Period</b>	8/1/2018 - 1/31/2022
<b>Sponsor(s)</b>	World Bank (Access Accelerated)
<b>Status</b>	Complete -- Follow up and data analysis are complete and the study is closed.
<b>Study Title</b>	Prospective study of Lopinavir based ART for HIV Infected children globally (LIVING study) 2
<b>Principal Investigator(s)</b>	Winstone Nyandiko (Moi University)
<b>Collaborator(s)</b>	Dalton Wamalwa (University of Nairobi), Samwel Ayaya (Moi University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	<p>Primary objective: Evaluate the effectiveness of LPV/r pellets in addition to AZT/3TC (or ABC/3TC) paediatric fixed dose combination (FDCs) tablet under routine treatment conditions in HIV infected infants and young children who cannot swallow tablets.</p> <p>Secondary objectives: (1) Document the safety of LPV/r pellets and AZT/3TC or ABC/3TC; (2) Assess the population pharmacokinetics of LPV/r and NRTIs when administered as LPV/r pellets plus AZT/3TC or ABC/3TC; (3) Measure adherence to the new formulation; (4) Evaluate children acceptability of the LPV/r pellets and associated dual NRTIs as well as ease of use by the care giver.</p>
<b>Site(s)</b>	Moi Teaching and Referral Hospital, Uasin Gishu
<b>Project Period</b>	4/14/2016 - Closed
<b>Sponsor(s)</b>	Drugs for Neglected Diseases initiative (DNDi)
<b>Status</b>	Complete -- Follow up and data analysis are complete and the study is closed.
<b>Study Title</b>	PT4A (Peers and Technology for Adherence, Access, Accountability, and Analytics)
<b>Principal Investigator(s)</b>	Rajesh Vedanthan (New York University)
<b>Collaborator(s)</b>	Sonak Pastakia (Purdue University), Antoinette Schoenthaler (NYU), Andrea Troxel (NYU), Benson Njuguna (MTRH), Jeremiah Laktabai (MTRH), Imran Manji (MTRH), Ann Mwangi (MTRH), Jonathan Dick (Indiana University), Dustin Duncan (Columbia University), Tina Tran (Temple University), Becky Genberg (Johns Hopkins University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	The overall objective of this project is to utilize the PRECEDE-PROCEED framework to conduct transdisciplinary, translational implementation research focused on improving medication adherence for hypertension control. Aim 1: will identify micro- and macro-level contextual factors that might influence the implementation of the PT4A strategy (individual, family, clinician, health system, and environment), using qualitative methods. Aim 2: We will then use a human-centered design approach to refine the PT4A intervention using the findings from Aim 1. Sub-Aim 2.1: will evaluate the intervention for acceptability and appropriateness using focus group discussions with patients, peers, and clinical staff. In Sub-Aim 2.2: we will then conduct a pilot of the intervention and conduct focus group discussions with patients, peers, and clinical staff to evaluate feasibility. We will also evaluate impact on systolic blood pressure, medication adherence, and fidelity of implementation.
<b>Site(s)</b>	Bungoma, Trans Nzoia, Uasin Gishu
<b>Project Period</b>	9/25/2020 - 8/31/2021
<b>Sponsor(s)</b>	NIH-NHLBI



<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.
<b>Study Title</b>	SAFI (Stigma in AIDS Family Inventory) Validation Study
<b>Principal Investigator(s)</b>	Rachel Vreeman (Mount Sinai)
<b>Collaborator(s)</b>	Winstone Nyandiko (Moi University), Irene Marete (Moi University), Violet Naanyu (Moi University), Hai Liu (Indiana University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	The specific aims for the SAFI validation study were: Aim 1: Identify and modify HIV/AIDS stigma questionnaire items for maximum reliability and content validity to measure perceived, enacted and internalized HIV/A stigma among Kenyan families with HIV-infected children. Aim 2: Assess the validity of the measures of perceived, enacted and internalized H/A stigma compared to independent construct measures including pediatric adherence to therapy and children's physical, psychological and social outcomes. Aim 3: Examine whether disclosure of a child's HIV status reduces perceived, enacted, or internalized stigma for families with disclosed children compared to families with non-disclosed children.
<b>Site(s)</b>	Bungoma, Busia, Moi Teaching and Referral Hospital, Nandi, Trans Nzoia, Uasin Gishu
<b>Project Period</b>	12/17/2013 - 12/31/2015
<b>Sponsor(s)</b>	NIH-NIMH
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.
<b>Study Title</b>	Scaling Up Primary Health Integrated Care for Chronic Conditions in Kenya: An Implementation Research Project (PIC4C Scale Up Study)
<b>Principal Investigator(s)</b>	Pablo Perel (London School of Hygiene and Tropical Medicine)
<b>Collaborator(s)</b>	Jemima Kamano (Moi University), Edwine Barasa (Kenya Wellcome Trust Research Programme), Ellen Nolte (London School of Hygiene and Tropical Medicine), Gasparrini (London School of Hygiene and Tropical Medicine), Adrianna Murphy (London School of Hygiene and Tropical Medicine), Ruth Willis (London School of Hygiene and Tropical Medicine), Prof. Hanson (London School of Hygiene and Tropical Medicine), Anthony Etyang (Kenya Wellcome Trust Research Programme), Vincent Were (Kenya Wellcome Trust Research Programme), Violet Naanyu (Moi University), Nicholas Kirui (Moi University)
<b>Study Type</b>	Cross-Sectional
<b>Specific Aim(s)</b>	1) To understand the implementation process to assess the quality of leadership and management; levels of stakeholder involvement; adequacy of support mechanisms and resources; ability to adapt the intervention locally; and quality of communication and of monitoring and feedback; 2) To understand the experiences of patients to assess whether and how well the PIC4C model meets the needs of those affected by the selected NCDs; 3) To assess the health benefits (on hypertension, diabetes and cancer control) and potential unintended consequences (on HIV viral suppression) of the implementation of the PIC4C pilot 4) To evaluate the effectiveness of the NHIF chronic care benefit package to provide financial risk protection, to be responsive to the needs of individuals, to influence equity, efficiency, quality of care, and service delivery.

<b>Site(s)</b>	Busia, Trans Nzoia
<b>Project Period</b>	8/1/2020 – 8/31/2022
<b>Sponsor(s)</b>	UK Medical Research Council (MRC) through Global Alliance for Chronic Diseases
<b>Status</b>	Ongoing -- Follow Up Continues. Enrollment has finished but participants are still receiving research-related intervention, interaction, or follow up. No updates provided for the current reporting period.

<b>Study Title</b>	Spatial scales of Plasmodium falciparum generations; implications for elimination
<b>Principal Investigator(s)</b>	Andrew Obala (Moi University)
<b>Collaborator(s)</b>	Wendy O'Meara (Duke University), Diana Menya (Moi University)
<b>Study Type</b>	Prospective cohort
<b>Specific Aim(s)</b>	The overall goal is to match infections in malaria-infected mosquitoes to malaria infections in humans in order to understand what persons infected each mosquito and the distance between the donor and the location where the mosquito was trapped. Aim 1: Measure the genetic relatedness of infections within the same household compared to the relatedness of infections at further distances to determine whether this relationship differs in fever 'hotspots' (geographic clusters of high fever incidence) and fever 'coldspots'. Aim 2: Trap malaria mosquito vectors and identify infected mosquitoes to determine the source of the mosquito's infection by sequencing parasites in the mosquito salivary glands and comparing to parasite genotypes in humans.
<b>Site(s)</b>	Bungoma
<b>Project Period</b>	7/1/2019 - 6/30/2021
<b>Sponsor(s)</b>	NIH-NIAID
<b>Status</b>	Ongoing -- Follow Up Continues. Enrollment has finished but participants are still receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	Stated Preference Analysis to Refine PMTCT Service Delivery in Kenya (SPARK) study
<b>Principal Investigator(s)</b>	John Humphrey (Indiana University)
<b>Collaborator(s)</b>	Edwin Were (Moi University), Winstone Nyandiko (Moi University), Violet Naanyu (Moi University), Bett Kipchumba (MTRH), Marsha Alera (AMPATH), Alan McGuire (Indiana University), Beverly Musick (Indiana University), James Carlucci (Indiana University), Constantin Yiannoutsos (Indiana University), Gregory Zimet (Indiana University), Kara Wools-Kaloustian (Indiana University)
<b>Study Type</b>	Cross-Sectional
<b>Specific Aim(s)</b>	Aim 1. Identify the relative importance of key PMTCT services according to PPHIV in western Kenya. Aim 2. Explore the influence of various characteristics of PPHIV on their preferences for different PMTCT services.
<b>Site(s)</b>	Busia, Moi Teaching and Referral Hospital, Uasin Gishu
<b>Project Period</b>	6/1/2021 - ongoing
<b>Sponsor(s)</b>	NICHD
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	Stawisha Jamii - Development of a Family-Level Problem Solving Intervention for Adolescents Living with HIV
<b>Principal Investigator(s)</b>	Leslie Enane (Indiana University)
<b>Collaborator(s)</b>	David Ayuku (Moi University), Eve Puffer (Duke University), Courtney Myers (Indiana University), Edith Apondi (Moi Teaching and Referral Hospital), Paula Braitstein (University of Toronto), Kara Wools-Kaloustian (Indiana University), Rachel Vreeman (Mount Sinai University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	Aim 1. Engage key stakeholders to determine the relevant needs and preferences for a family-level problem solving intervention (FPSI) for vulnerable ALHIV. Aim 2. Develop an FPSI for vulnerable ALHIV that is adaptable to address a range of barriers to care experienced at the family or household level. Aim 3. Pilot an FPSI to support HIV care for vulnerable ALHIV.
<b>Site(s)</b>	Bungoma, Kisumu, Moi Teaching and Referral Hospital, Nandi, Trans Nzoia, Uasin Gishu
<b>Project Period</b>	4/11/2022 - ongoing
<b>Sponsor(s)</b>	Unfunded
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	Strengthening Referral Networks for Management of Hypertension Across the Health System (STRENGTHS)
<b>Principal Investigator(s)</b>	Constantine Olieba Akwanalo (Moi University)
<b>Collaborator(s)</b>	Jemima Kamano (Moi University), Benson Njuguna (Moi University), Violet Naanyu (Moi University), Ann Mwangi (Moi University), Timothy Mercer (University of Texas at Austin), Rajesh Vedanthan (NYU), Sonak Pastakia (Purdue University), Jonathan Dick (Indiana University), Makeda Williams (National Heart, Lung and Blood Institute)
<b>Study Type</b>	Cluster randomized controlled trial
<b>Specific Aim(s)</b>	Aim 1: Evaluate the effectiveness of HIT and peer support on one-year change in SBP and CVD risk reduction. Aim 2: Conduct mediation analysis to evaluate the influence of changes in referral network characteristics on intervention outcomes, and a moderation analysis to evaluate the influence of baseline referral network characteristics on the effectiveness of the intervention. Aim 3: Conduct a process evaluation using the Saunders framework, evaluating key implementation measures related to fidelity, dose delivered, dose received, recruitment, reach, and context. Aim 4: Evaluate the incremental cost-effectiveness of the intervention, in terms of costs per unit decrease in SBP, per percent change in CVD risk score, and per DALY saved.
<b>Site(s)</b>	Bungoma, Busia, Nandi, Trans Nzoia, Uasin Gishu
<b>Project Period</b>	9/1/2017 - 5/31/2022
<b>Sponsor(s)</b>	NIH-NHLBI
<b>Status</b>	Ongoing -- Follow Up Continues. Enrollment has finished but participants are still receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	Subclinical Cardiac Dysfunction in Children and Adolescents with and without HIV
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<b>Principal Investigator(s)</b>	Gerald Bloomfield (Duke University)
<b>Collaborator(s)</b>	Winstone Nyandiko (Moi University), Myra Maghasi Koech, (MTRH), Andrew McCrary (Duke University), Piers Barker (Duke University), Svati Shah (Duke University), Nathan Thielman (Duke University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	To determine if advanced echocardiographic measures of cardiac function can detect early stages of cardiomyopathy in CALHIV and if the burden of subclinical changes on echocardiography is dissimilar from HEU and HU children.
<b>Site(s)</b>	Uasin Gishu (MTRH)
<b>Project Period</b>	9/21/2021 - 12/31/2022
<b>Sponsor(s)</b>	NIH-NHLBI
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.

<b>Study Title</b>	The East Africa Consortium for HPV and Cervical Cancer in Women living with HIV/AIDS
<b>Principal Investigator(s)</b>	Patrick Loehrer (Indiana University)
<b>Collaborator(s)</b>	Darron Brown (Indiana University), Miriam Nakalembe (Makerere University), Omenge Orang'o (MTRH), Jeff Bailey (Brown University), Susan Cu-Uvin (Brown University), Aaron Ermel (Indiana University), Peter Itsura (MTRH), Rachel Katzenellenbogen (Indiana University), Agnes Kiragga (Makerere University), Robert Lukande (Makerere University), Ann Moormann (University of Massachusetts), Beverly Musick (Indiana University), Ann Mwangi (MTRH), Damalie Nakanjako (Makerere University), Elly Odongo (MTRH), Kirtika Patel (MTRH), Barry Rosen (Beaumont Health), Yan Tong (Indiana University), Philip Tonui (MTRH), Ronald Tonui (MTRH), Constantin Yiannoutsos (Indiana University), Benson Macharia (MTRH)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	The specific aims for the East Africa Consortium for HPV and Cervical Cancer (EACHC) in Women Living with HIV/AIDS are: Specific Aim 1. To establish a sustainable research infrastructure for an international partnership to conduct impactful research in HPV and cervical cancer in women living with HIV/AIDS Specific Aim 2. To design and execute three integrated projects that advance the knowledge of the environmental and biologic factors leading to cervical cancer in East Africa: Project 1- Preventing cervical cancer in HIV-infected women Project 2- Understanding CIN2+ among HIV infected women after LEEP: An epidemiological and immunohistochemical study Project 3- Determining biological and viral factors associated with clinical progression of cervical dysplasia in HIV-infected women Specific Aim 3. To increase the research workforce capacity in East Africa through mentoring, training programs and targeted pilot projects
<b>Site(s)</b>	Bungoma, Moi Teaching and Referral Hospital, Uasin Gishu, Kampala (Uganda)
<b>Project Period</b>	9/7/2020 - 8/31/2025
<b>Sponsor(s)</b>	NIH-NCI
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	The Effect of Weekly Text Messaging to Improve Retention across the PMTCT Cascade for Pregnant HIV- infected Women: Study Protocol for a Randomized Controlled Trial (WelTel PMTCT)
<b>Principal Investigator(s)</b>	Anna Mia Ekström (Karolinska Institutet)
<b>Collaborator(s)</b>	Edwin Were (Moi University)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	The primary objective is to determine the effectiveness of the WelTel SMS intervention on retention of women living with HIV and their newborns in PMTCT care in urban and rural Kenya. Secondary Objectives 1: To assess adherence to the WelTel SMS intervention among pregnant women and newly delivered mothers living with HIV. Objective 2: To determine adherence to single components of PMTCT among pregnant women and newly delivered mothers living with HIV (ARVs, facility-based delivery, early infant HIV testing, and exclusive breastfeeding). Objective 3: To explore facilitators for and barriers to using WelTel SMS in order to inform any improvements on the model for PMTCT among pregnant women and newly delivered mothers living with HIV as well as PMTCT staff. Objective 4: To evaluate costs from a payer's perspective, of the WelTel SMS for retaining women living with HIV and HIV-exposed infants in clinical follow-up until 24 months post-delivery (discharge from PMTCT).
<b>Site(s)</b>	Busia, Kisumu, Moi Teaching and Referral Hospital, Trans Nzoia, Uasin Gishu
<b>Project Period</b>	6/25/2015 - ongoing
<b>Sponsor(s)</b>	Swedish Research Council
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.

<b>Study Title</b>	The Impact of Using Hemotype SCTM in Screening for Sickle Cell Disease in Neonates, Infants, and Children under Five Years of Age in a Resource-Limited Setting
<b>Principal Investigator(s)</b>	Christopher Mwaniki (Duke University)
<b>Collaborator(s)</b>	Festus Njuguna (Moi University), Ann Greist (Indiana Hemophilia and Thrombosis Centre), Chris Roberson (Indiana Hemophilia and Thrombosis Centre)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	Aim 1: To evaluate the uptake of HSST among immunization population. Aim 2: To evaluate the proportion of those screened with HSST and get followed up through the Hb Electrophoresis. Aim 3: To determine the rate of enrollment of those found to have sickle cell into the comprehensive sickle cell clinic. Aim 4: To evaluate the prevalence of sickle cell among screened children age 5 and below presenting in the immunization clinic at the Homabay county referral hospital.
<b>Site(s)</b>	Homabay County Referral Hospital
<b>Project Period</b>	12/1/2020 - 12/1/2022
<b>Sponsor(s)</b>	None
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	The Prevalence of and Risk Factors for Non-Alcoholic Fatty Liver Disease in Kenya
<b>Principal Investigator(s)</b>	Fatuma Some (Moi University)
<b>Collaborator(s)</b>	Naga Chalasani (Indiana University), Niharika Samala (Indiana University), Suzanne Goodrich (Indiana University), Mercy Karoney (Moi University), Alexa Monroy (Children’s Hospital Los Angeles)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	Aim 1: To determine the prevalence of steatosis and hepatic fibrosis in PLHIV and in individuals without HIV infection where diagnosis is based on predefined clinical, laboratory, and imaging criteria. Aim 2: To develop a bio-specimen bank comprised of serum, plasma, and DNA obtained from PLHIV and in individuals without HIV infection to support the evaluation the independent effects of ART, HIV factors, gene variants, and metabolic abnormalities on risk of fatty liver.
<b>Site(s)</b>	Moi Teaching and Referral Hospital
<b>Project Period</b>	3/1/2021 – 7/31/2022
<b>Sponsor(s)</b>	Indiana University
<b>Status</b>	Ongoing -- Follow Up Continues. Enrollment has finished but participants are still receiving research-related intervention, interaction, or follow up.

<b>Study Title</b>	The Role of PD-1 Pathway and Tissue Microenvironment in HIV-Kaposi Sarcoma and Endemic Kaposi Sarcoma Cohort in Western Kenya
<b>Principal Investigator(s)</b>	Patrick Loehrer (Indiana University)
<b>Collaborator(s)</b>	Toby Maurer (Indiana University), Chite Asirwas (International Cancer Institute)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	To look for the PD-1 pathway in Kaposi sarcoma (KS) tissue from an HIV cohort and endemic cohort
<b>Site(s)</b>	Moi Teaching and Referral Hospital
<b>Project Period</b>	9/1/2015-8/31/2019
<b>Sponsor(s)</b>	NCI supplemental grant
<b>Status</b>	Complete -- Follow up and data analysis are complete and the study is closed.

<b>Study Title</b>	Virologic Treatment Failure and Drug Resistance in HIV-infected Kenyan Children
<b>Principal Investigator(s)</b>	Rachel Vreeman (Mount Sinai)
<b>Collaborator(s)</b>	Winstone Nyandiko (Moi University), Rami Kantor (Brown University), Samuel Ayaya (Moi University), Joe Hogan (Brown University)
<b>Study Type</b>	Prospective cohort (with additional retrospective analyses)
<b>Specific Aim(s)</b>	Aim 1: Determine prevalence of viral failure and examine resistance mutations among a retrospective study cohort of 685 prenatally HIV-infected Kenyan children on 1st-line ART. Aim 2: Investigate associations between specific adherence patterns, ART drug levels and other demographic and clinical factors, with viral failure and drug resistance. Aim 3: Study long-term immunologic, virologic and drug resistance outcomes and their associations in prospectively re-enrolled study participants Aim 4: Enhance analyses of viral failure, drug resistance accumulation and associated demographic and clinical factors by examining the longitudinal banked samples

	available for a subset of the study cohort (n=327). Aim 5: Develop a data-driven intervention algorithm to identify children at risk for viral failure and resistance.
<b>Site(s)</b>	Bungoma, Moi Teaching and Referral Hospital, Trans Nzoia, Uasin Gishu
<b>Project Period</b>	8/2/2017 - 7/31/2020
<b>Sponsor(s)</b>	NIH-NIAID
<b>Status</b>	Ongoing -- Data Analysis Only. Participants have completed all research-related intervention, interaction, and follow up. Research activities are limited to data analysis.
<b>Study Title</b>	World Bleeding Disorders Registry (WBDR)
<b>Principal Investigator(s)</b>	Festus Njuguna (Moi University)
<b>Collaborator(s)</b>	Donna Coffin (World Federation of Hemophilia), Glenn Pierce (World Federation of Hemophilia), Alain Baumann (World Federation of Hemophilia)
<b>Study Type</b>	Prospective
<b>Specific Aim(s)</b>	WBDR will aim to address the following: Aim 1: Identify gaps in evidence related to diagnosis, access to care, treatment, and outcomes in patients that include: <ul style="list-style-type: none"> <li>• Comparative evaluation of preventative treatment regimens (e.g., prophylaxis)</li> <li>• Identification of high-risk populations</li> <li>• Inhibitors and other complications of BD</li> <li>• Trends in treatment patterns over time</li> <li>• Discrepancies in quality of care</li> <li>• Data on factor utilization.</li> </ul> Aim 2: Collection of data to support advocacy initiatives aimed at improving diagnosis and access to care around the world, such as: <ul style="list-style-type: none"> <li>• Burden of disease data:</li> <li>• Annual bleeding rate</li> <li>• Functional assessment</li> <li>• Hospitalization</li> <li>• Lost days of school/work</li> <li>• Educational/employment attainment</li> <li>• Between country discrepancies in factor usage.</li> </ul>
<b>Site(s)</b>	Moi Teaching and Referral Hospital
<b>Project Period</b>	9/6/2018 - ongoing
<b>Sponsor(s)</b>	None
<b>Status</b>	Ongoing -- Open to Enrollment. Participants are being enrolled and receiving research-related intervention, interaction, or follow up.