

Keletso Makofane

Curriculum Vitae

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EDUCATION

- Current **PhD Candidate, Population Health Sciences (Social Network Epidemiology), T.H. Chan School of Public Health, Harvard University, Boston, United States**
Thesis: Networked Resources and Health in South Africa – Towards a Materialist Social Epidemiology
- 2012 **MPH, Biostatistics, Mailman School of Public Health, Columbia University, New York, United States**
- 2009 **BBusSci, Actuarial Science, University of Cape Town, Cape Town, South Africa**
Awarded with first class honors with distinctions in Mathematics and in Statistics

OTHER ACADEMIC AFFILIATIONS

- Current Scholar, O'Neill Institute for National and Global Health Law at Georgetown University

PROFESSIONAL EXPERIENCE

- 2014 – 2017 MSM Technical Advisor, Anova Health Institute, Johannesburg, South Africa**
Led strategy, monitoring and evaluation of men who have sex with men (MSM) Community Health Outreach Program. Oversaw the expansion of this program from 10 staff members in 3 South African cities to over 35 staff members in 7 cities. This involved planning and budgeting for the expansion, and leading recruitment of staff and procurement of equipment. Developed and implemented new national M&E system for Outreach Program, and various management tools and processes that coordinate program activities and foster quality improvement. Oversaw Anova Health Institute Community Linkages Project, which engages external organizations in order to collaborate on community outreach activities targeting men who have sex with men (MSM).
- 2013 – 2017 Senior Programs and Research Consultant, Global Forum on MSM and HIV (MSMGF), Johannesburg, South Africa**
Managed technical support program that supports MSM-led community-based organizations in Kenya and Zimbabwe. Advised various public health programs in Africa on HIV programming for MSM. As technical assistance provider to the USAID/FHI360 Linkages Program, contributed to key populations HIV program design in Angola and Botswana. Hosted regional meetings to disseminate latest guidance on HIV programming among MSM. Represented the MSMGF at high-level meetings and consultations in the United Nations system, and presented research conducted by the MSMGF to key stakeholders.

2012 – 2013 Programs and Research Associate, Global Forum on MSM and HIV (MSMGF), Oakland, United States

Provided technical support to 3 LGBT-led NGOs that conduct HIV prevention, care and treatment programs among men who have sex with men (MSM) in Kenya and Zimbabwe. Planned and conducted analyses of data from the Global Men's Health and Rights (GMHR) Survey. Collaborated in the writing of research reports and manuscripts for publication based on findings from GMHR survey data. Prepared materials for presentations at high level meetings and consultations.

2012 Guest Editor, Q-Zine, New York, United States

Guest edited an issue of Q-Zine – a bilingual (English and French) quarterly online magazine by, for, and about LGBTI and queer Africans and allies. Curated writing on the theme of "Friends, Family, and Community" (http://issuu.com/q-zine/docs/qzine_4_fr).

2011 – 2012 Intern, HIV/AIDS Practice, Bureau of Development Policy, United Nations Development Programme, New York, United States

Interned for Dr. Cheikh Traore, Senior Advisor – Sexual Diversity. Edited materials on MSM and transgender people for the ground-breaking Global Commission on HIV and the Law report (<http://www.hivlawcommission.org/>). Edited guidance document for needs assessment process in the MSM and Transgender Populations Multi-City HIV Initiative.

2011 Monitoring and Evaluation Intern, International Center for AIDS Care and Treatment Programs (ICAP), Nairobi, Kenya

Evaluated linkages to care and retention in care among pediatric HIV patients in 40 treatment facilities in Kenya under the guidance of Dr. Muhsin Sheriff, M&E Director, ICAP-Kenya. Concluded that over time, retention of pediatric patients has steadily improved. Results also pointed to the need for integrated systems for tracking patients across different facilities. Presented findings to ICAP's national programs team and the monitoring and evaluation team.

2010 Research Assistant, Centre for Actuarial Research (CARE), University of Cape Town, South Africa

Assisted Professor Rob Dorrington, Director of CARE, in programming the ASSA2008 AIDS and Demographic model for tracking the demographic impact of HIV in South Africa. Processed and analyzed national AIDS survey data from antenatal clinics to estimate prevalence and incidence of HIV in South Africa.

PUBLICATIONS

Peer-Reviewed Journal Articles

Makofane, K., van der Elst, E. M., Walimbwa, J., Nemande, S., & Baral, S. D. (2020). From general to specific: moving past the general population in the HIV response across sub-Saharan Africa. *Journal of the International AIDS Society*, 23, e25605. doi:10.1002/jia2.25605

Cowger, T. L., Davis, B. A., Etkins, O. S., Makofane, K., Lawrence, J. A., Bassett, M. T., & Krieger, N. (2020). Comparison of weighted and unweighted population data to assess inequities in coronavirus disease 2019 deaths by race/ethnicity reported by the US Centers for Disease Control and Prevention. *JAMA network open*, 3(7), e2016933-e2016933. doi:10.1001/jamanetworkopen.2020.16933

Bekker, L. G., Alleyne, G... Makofane, K. & Beyrer, C. (2018). Advancing global health and strengthening the HIV response in the era of the Sustainable Development Goals: the

International AIDS Society—Lancet Commission. *The Lancet*, 392(10144), p. 312-358.
doi:10.1016/S0140-6736(18)31070-5

Ayala, G., Santos, G.M., Arreola, S., Garner, A., Makofane, K., Howell, S. (2018). Blue-Ribbon Boys: factors associated with PrEP use, ART use and undetectable viral load among gay app users across six regions of the world. *Journal of the International AIDS Society*, 21(S5), e25130. doi:10.1002/jia2.25130

Beck, E.J., Shields, J.M... Makofane, K. & Low-Beer, D. (2018). Developing and implementing national health identifiers in resource limited countries: Why, what, who, when and how?. *Global Health Action*, 11(1), p.1440782. doi:10.1080/16549716.2018.1440782.

Flores, J.M., Santos, G.M., Makofane, K., Arreola, S., & Ayala, G. (2017). Availability to and Use of Substance Abuse Treatment Programs among Substance-Using Men-Who-Have-Sex-With-Men Worldwide. *Substance Use & Misuse*. doi:10.1080/10826084.2016.1253744.

Scheim, A., Santos, G-M., Arreola, S., Makofane, K., Do, T., Hebert, P., Thomann, P., & Ayala, G. (2016). Inequities in access to HIV prevention services for transgender men: results of a global survey of men who have sex with men. *Journal of the International AIDS Society*, 19(3Suppl 2). doi:10.7448/IAS.19.3.20779

Santos, G-M., Makofane, K., Arreola, S., Do, T., Ayala, G., Hebert, P., Beck, J., & Wilson, P. (2016). Reductions in access to HIV prevention and care services are associated with arrest and convictions in a global survey of men who have sex with men. *Sexually Transmitted Infections*. doi:10.1136/sextrans-2015-052386

Scheim, A., Arreola, S., Do, T., Makofane, K., Santos, G-M., Thomann, M., Wilson, P.A., & Ayala, G. (2015). Potential for Conceptual Bias in Studies of Racial Disparities in HIV Infection. *JAIDS: Journal of Acquired Immune Deficiency Syndromes*, 68(3), e42-e43. doi:10.1097/QAI.0000000000000388

Santos, G-M., Do, T., Beck, J., Makofane, K., Arreola, S., Pyun, T., Hebert, P., Wilson, P.A., & Ayala, G. (2014). Syndemic Conditions Associated with Increased HIV Risk in a Global Sample of Men Who Have Sex with Men. *Sexually Transmitted Infections*, 90(3), 250-253. doi:10.1136/sextrans-2013-051318

Arreola, S., Santos, G-M., Beck, J., Sundararaj, M., Wilson, P.A., Hebert, P., Makofane, K., Do, T.D., & Ayala, G. (2014). Sexual Stigma, Criminalization, Investment, and Access to HIV Services among Men Who Have Sex with Men Worldwide. *AIDS and Behavior*, 19(2), 227-234. doi:10.1007/s10461-014-0869-x

Ayala, G., Makofane, K., Santos, G-M., Arreola, S., Hebert, P., Thomann, M., Wilson, P., Beck, J., & Do, T.D. (2014). HIV Treatment Cascades That Leak: Correlates of Drop-Off from the HIV Care Continuum among Men Who Have Sex with Men Worldwide. *Journal of AIDS & Clinical Research*, 5(8). doi:10.4172/2155-6113.1000331

Makofane, K., Beck, J., Lubensky, M., & Ayala, G. (2014). Homophobic Legislation and Its Impact on Human Security. *African Security Review*, 23(20), 186-195. doi:10.1080/10246029.2014.913832

Pyun, T., Santos, G-M., Arreola, S., Do, T., Hebert, P., Beck, J., Makofane, K., Wilson, P.A., & Ayala, G. (2014). Internalized Homophobia and Reduced HIV Testing among Men Who Have Sex with Men in China. *Asia-Pacific Journal of Public Health*, 26(2), 118-125. doi:10.1177/1010539514524434

Santos, G-M., Beck, J., Wilson, P.A., Hebert, P., Makofane, K., Pyun, T., Do, T., Arreola, S., & Ayala, G. (2013). Homophobia as a Barrier to HIV Prevention Service Access for Young Men Who Have Sex with Men. *JAIDS: Journal of Acquired Immune Deficiency Syndromes*, 63(5), e167-e170. doi:10.1097/QAI.0b013e318294de80

Ayala, G., Makofane, K., Santos, G-M., Beck, J., Do, T.D., Hebert, P., Wilson, P.A., Pyun, T., & Arreola, S. (2013). Access to Basic HIV-Related Services and PrEP Acceptability among Men Who Have Sex with Men Worldwide: Barriers, Facilitators, and Implications for Combination Prevention. *Journal of Sexually Transmitted Diseases*, 2013. doi:10.1155/2013/953123

Makofane, K., Gueboguo, C., Lyons, D., & Sandfort, T. (2013). Men Who Have Sex with Men Inadequately Addressed in African AIDS National Strategic Plans. *Global Public Health*, 8(2), 129-143. doi:10.1080/17441692.2012.749503

Invited Journal Articles

Makofane, K., Spire, B. and Mtetwa, P. (2018). Tackling global health inequities in the HIV response. *The Lancet*, 392(10144), pp.263-264. doi: 10.1016/S0140-6736(18)31441-7

Beyrer, C., Makofane, K., Orazulike, I., Diouf, D., & Baral, S.D. (2016). Towards Equity in Service Provision for Gay Men and Other Men Who Have Sex with Men in Repressive Contexts. *PLoS Medicine*. doi: 10.1371/journal.pmed.1002154

Book Chapters

Makofane, K., Brown, C..., Baral, S. Mental health needs in Sub-Saharan Africa. (2020). In Nakamura, N. & Logie, C. (Eds.), *LGBTQ Mental Health: International Perspectives and Experiences*. Washington DC: APA Publishing.

Makofane, K., & Sandfort, T. HIV Prevention for MSM. (2014). In Hope, T.J., Stevenson, M. & Richman, D. (Eds.), *Encyclopedia of AIDS*, 1-6. New York: Springer.

Commissioned Reports

World Health Organization. (2018). *Focus on key populations in national HIV strategic plans in the WHO African Region* (No. WHO/AF/CDS/HIV/02.2018). World Health Organization. Regional Office for Africa. Available: <https://www.who.int/hiv/pub/toolkits/key-population-report-afro/en/>

Book Reviews

Makofane, K. (2013). Unspoken Facts: A History of Homosexualities in Africa. *Culture, Health & Sexuality*, 15(Suppl 1), 114-116. doi: 10.1080/13691058.2012.732749

Other Published Reports

Ayala, G., Makofane, K., Do, T.D., Santos, G.M., Beck, J., Scheim, A.I., Hebert, P., Arreola, S. (2015) *Rights in action: Access to HIV services among men who have sex with men*. LINKAGES at FHI360, and MSMGF. Retrieved from FHI 360 website:

<https://www.fhi360.org/sites/default/files/media/documents/linkages-msm-rights-in-action.PDF>

Arreola, S., Makofane, K., & Ayala, G. (2014). *MSM Values & Preferences Regarding Use of Antiretroviral Therapy as Prevention*. World Health Organization. Geneva, Switzerland. Retrieved from World Health Organization website: http://apps.who.int/iris/bitstream/10665/128117/1/WHO_HIV_2014.19_eng.pdf

Makofane, K., Beck, J., & Ayala, G. (2014). *MSM in Sub-Saharan Africa: Health, Access & HIV*. The Global Forum on MSM and HIV (MSMGF) and African Men for Sexual Health and Rights (AMShER). Oakland, United States. Retrieved from MSMGF website: http://msmgf.org/files/msmgf/documents/MSMinSSA_PolicyBrief.pdf

Arreola, S., Hebert, P., Makofane, K., Beck, J., & Ayala G. (2012). *Access to HIV Prevention and Treatment for Men who have Sex with Men – Findings from the 2012 Global Men's Health and Rights Study (GMHR)*. The Global Forum on MSM and HIV (MSMGF). Oakland, United States. Retrieved from MSMGF website: http://msmgf.org/wp-content/uploads/2015/09/GMHR_2012.pdf

AWARDS AND HONORS

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| 2016 | Omololu Falobi Award for Excellence in HIV Prevention Research and Community Advocacy |
| 2016 | IOL Young Independent – featured as one of 100 young South Africans who are leading, trailblazing and excelling in their fields |
| 2010 | Amy Biehl Award for Highest-Ranked Candidate in the South African Fulbright Scholarship 2009 round |

GRANTS AND FELLOWSHIPS

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| 2020 | Dissertation Research Grant, Harvard Center for Population and Development Studies |
| 2018 | Travel Grant, Harvard Center for Population and Development Studies |
| 2010 | Rosenfield Global Health Scholar, Columbia University Mailman School of Public Health |
| 2009 | Fulbright Scholarship |
| 2005 | South African Actuaries Development Program Scholarship |

INVITED TALKS

Overview of HIV among Men. (2019, July 20). Men & HIV Forum at the 10th IAS Conference on HIV Science. Mexico City, Mexico.

Why are people still dying of AIDS? (2019, October 20). Fall Uprising National SGAC Conference 2018. American University, Washington D.C., United States of America.

HIV Prevention Among Men who have Sex with Men. (2017, March 9). Wilton Park Conference: Building a stronger HIV prevention movement in Sub-Saharan Africa. Swakopmund, Namibia.

Transgender people in Sub-Saharan Africa. (2017, May 17). INTEREST Workshop. Lilongwe, Malawi.

Where the Rubber Meets the Road: Moving Self-Testing from Theory to Reality for Africa. (2016, July 20). UNITAID/PSI satellite event at 21st International AIDS Conference. Durban, South Africa.

Leaving No One Behind: How to Bring Services to Scale for Key Populations. (2016, July 19). PEPFAR satellite event at 21st International AIDS Conference. Durban, South Africa.

Doing the Real Work: Comprehensive LGBT Community-led HIV Interventions Under the Bridging the Gaps Program (2016, July 16). Action + Access: Rights and Demands of Gay and Bisexual Men in the Global HIV Response! MSMGF Pre-Conference at 21st International AIDS Conference. Durban, South Africa.

WHO Key Populations Guidelines and the MSM Implementation Tool (2015, November 29). Key Populations Pre-Conference at the ICASA 2015 Conference. Harare, Zimbabwe.

Making Funding Work: Update on community engagement in PEPFAR and Global Fund processes. (2015, October 5). COC Regional Workshop: Reflecting, linking and learning among LGBTI organizations in Southern and East Africa. Cape Town, South Africa.

MSM Outreach and the “We The Brave” campaign. (2015, September 8). USAID Symposium: State of the MSM Science and Program for South Africa. Johannesburg, South Africa.

Community at the Center: How Effective Programs for Key Populations can be Delivered and Scaled Up in Difficult Environments. (2014, November 11). Presented at Workshop on Effective HIV Combination Prevention Programming and Budgeting in The Global Fund New Funding Model. Global Fund, UNAIDS, and WHO. Durban, South Africa.

PrEP in MSM Programs Delivered in Challenging Contexts. (2014, July 22). Presented at Newsmakers of the Day press conference on Treatment as Prevention. 20th International AIDS Conference. Melbourne, Australia.

Working Despite Legal and Social Constraints: How Effective Programs for Key Populations can be Delivered in Difficult Environments. (2014, July 20). Presented at Launch of World Health Organization Consolidated Guidelines on HIV Prevention, Diagnosis, Treatment and Care for Key Populations. 20th International AIDS Conference. Melbourne, Australia.

Creating Enabling Environments: Community Responses to HIV among MSM in Africa. (2014, April 10). Presented at meeting entitled “Shaping a new phase in HIV Prevention: Towards Sustainable Action, Innovation and Accountability”. UNAIDS. Geneva, Switzerland.

Community Voices: MSM Values & Preferences on PrEP. (2014, March 13). Presented at World Health Organization Guideline Development Group meeting for the Consolidated Guidelines on HIV and Key Populations. WHO. Geneva, Switzerland.

Community Systems Strengthening and Key Populations. (2013, December 7). Presented at satellite event entitled “Closing the Gap: Involvement of Key Affected Populations in HIV programming in Africa”. 17th International Conference on AIDS and STIs in Africa. Cape Town, South Africa.

A Contextual Review of HIV Epidemics in Black Men who Have Sex with Men Across the African Diaspora: Implications for MSM in Sub-Saharan Africa. (2013, May 31). Launch of The Lancet Special Edition: HIV in Men Who Have Sex with Men. Crowne Plaza Hotel, Nairobi, Kenya.

CONFERENCE ACTIVITY

Abstracts Presented

Makofane, K., Kim, H-Y., Adeagbo, O., McGrath N., Seeley, J., Shahmanesh, M., Yapa, M., Tanser, F., Bärnighausen ,T. (2020, July). *Family network spillover in a community-randomized controlled trial of micro-incentives for HIV testing: evidence from the HITS Study.* Late-breaker poster presentation at the 23rd International AIDS Conference. Virtual.

Arreola, S., Martinez, O., Wilson, K., Ayala, G., Makofane, K. (2018, July). *Sexual initiation and quality of life among gay, bisexual and other men who have sex with men worldwide.* Poster presentation at the 22nd International AIDS Conference. Amsterdam, Netherlands.

Makofane, K., Radebe, O., Peters, R.P.H., de Swardt, G., Struthers, H., & McIntyre, J. (2015, June). *Linkage and Retention in a Cohort of Clients of MSM-Targeted Clinics in Johannesburg.* Oral presentation at the 7th South African AIDS Conference, Durban, South Africa.

Santos, G., Makofane, K., Arreola, S., Beck, J., Wilson, P., Hebert, P., Do, T., & Ayala, G. (2014, July). *Criminalization of Same-Sex Behavior is Harmful to Public Health: Significant Reductions in Access to HIV Prevention and Care Services Associated with Arrest and Convictions for Sex Between Men.* Oral presentation at the 20th International AIDS Conference. Melbourne, Australia.

Santos, G., Makofane, K., Arreola, S., Beck, J., Wilson, P., Hebert, P., Do, T., & Ayala, G. (2014, July). *High Prevalence of HIV-Related Risk Behaviors among Mobile App-Using Men who have Sex with Men (MSM): Opportunities for Public Health Interventions through Mobile Social Media.* Poster presentation at the 20th International AIDS Conference. Melbourne, Australia.

Makofane, K., Arreola, S., Beck, J., Wilson, P., Do, T., Hebert, P., Santos, G., Pyun, T., & Ayala, G. (2013, October). *Social/Structural Predictors of Access to HIV Services among African MSM: Implications for Program Design and Delivery.* Poster presentation accepted to the 7th SAHARA Conference, Dakar, Senegal.

Makofane, K., Santos, G., Arreola, S., Wilson, P., Beck, J., & Ayala, G. (2013, May). *Predictors of Survey Drop-out in a Global Survey of Diverse MSM.* Oral presentation at Society for Prevention Research - Diversity Network Committee Symposium, San Francisco, United States.

Arreola, S., Makofane, K., Wilson, P., Do, T., Beck, J., Hebert, P., Santos, M., Pyun, T., & Ayala, G. (2012, July). *PrEP, HIV Testing and Treatment Access among Gay and Other Men who have Sex with Men: Social and Structural Barriers and Facilitators in the Global South and Global North.* Poster presentation at the 19th International AIDS Conference. Washington DC, United States.

TEACHING EXPERIENCE

- 2021 Guest Lecture: Health, Human Rights, and Social Networks. (March 1). Colloquium in Public Health. Mr. Nick Diamond, Albion College
- 2021 Guest Lecture: Social Networks and Health Disparities. (February 12). EpiCH Webinar Series Spring. University of Minnesota
- 2020 Guest Lecture: (December 3). Evolutionary Theory. Prof. C. Brandon Ogbunu, Yale University
- 2020 Guest Lecture: Social Epidemiology of HIV among sexual minority men. (October 2). HIV/AIDS: Global Epidemic, Political Power, and Lessons for Public Health, Prof. M. Kavanagh, Georgetown University
- 2020 Teaching Fellow: Advanced Epidemiologic Methods, Prof. J. Robins, Harvard University
- 2020 Teaching Fellow: HIV Interventions: Rationale, Design, and Evaluation, Prof C. Sudfeld, Prof. K. Mayer, Harvard University
- 2020 Tutor: Quantitative Research Methods in Population Health Sciences II, Dr J. Chen & Prof. T. VanderWeele, Harvard University
- 2019 Tutor: Quantitative Research Methods in Population Health Sciences I, Dr. J. Chen & Prof. M Hughes, Harvard University
- 2019 Teaching Fellow: Social and Behavioral Research Methods, Dr. J. Chen, Harvard University
- 2019 Teaching Fellow: Quantitative Research Methods in Population Health Sciences II, Dr J. Chen & Prof. T. VanderWeele, Harvard University
- 2018 Teaching Fellow: Quantitative Research Methods in Population Health Sciences I, Dr. J. Chen & Prof. M Hughes, Harvard University

RESEARCH PROJECTS

2020 – Current Networked Resources and Health in South Africa: Towards a Materialist Social Epidemiology

The goal of my PhD thesis project is to examine the effect of networked material resources on individual health using novel network analytic methods. To do this, I will use a new set of methods called Auto-G-Computation in the context of a large observational cohort study. These methods provide a useful empirical lens for understanding how SES affects health across social ties since they were developed to test causal hypotheses in the context of interdependence of observations. My project will be the first application of these methods in a public health study of this scale.

2018 – Current Co-Investigator, ConnectWorks Study

The goal of this study is to investigate the extent to which the Harvard Population Health Sciences PhD program shapes the pattern of inter-departmental collaboration among students at the Harvard TH Chan School of Public Health. Using social network analytic methods, this longitudinal study will describe changing patterns of collaboration, socializing, learning, and social support among students over time.

2010 – 2017 Co-Investigator, Gay Men’s Health and Rights (GMHR) Study

The primary goals of this study are to develop, implement, analyze and disseminate findings from the GMHR online surveys (2010, 2012, and 2014-2015) and qualitative interviews from over the past five years; and to iteratively refine and test a theoretical model of gay men’s sexual health.

BOARDS AND COMMITTEES

2020 – Current	Member, Global Black Gay Men’s Connect Board of Directors
2019 – Current	Member, LVCT Health Board of Directors
2018 – Current	Member, Governing Council, International Aids Society
2018	Member, Expert Group for The Global Commission on HIV and the Law
2017 – Current	Member, International Aids Society/Lancet Commission on the Future of Global Health and the HIV Response
2016 – Current	Member, World Health Organization (WHO) Strategic and Technical Advisory Committee on HIV
2016	Member, World Health Organization (WHO) HIV Think Tank
2016 – Current	Member, Global Platform to Fast-Track HIV Responses among Gay Men, Bisexual Men and Other MSM
2016 – 2017	Member, EQUIP Key Populations Technical Working Group
2016 – 2017	Member, Regional Oversight Committee for KP REACH
2015 – 2017	Member, World Health Organization (WHO) Civil Society Reference Group on HIV
2015 – Current	Member, Africa Key Populations Experts Group
2014	Member, Writing Team for MSM Implementation Tool (entitled “Implementing Comprehensive HIV and STI Programmes with Men Who Have Sex with Men: Practical Guidance for Collaborative Interventions”)
2014	Member, Guideline Development Group for World Health Organization (WHO) Consolidated Guidelines on HIV for Key Populations

MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

Public Health Association of South Africa
International AIDS Society

SERVICE TO PROFESSION

Peer-Reviewer:
Journal of the International Aids Society

PLOS One
African Journal of AIDS Research
Sexually Transmitted Infections
Critical Public Health
African Journal of AIDS Research
BMC Medicine
The BMJ