FORUM Gender inequality: Bad for men's health

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Men's increased risk of death in ART programmes in sub-Saharan Africa is widely reported but poorly understood. Some studies have attributed this risk to men's poorer health-seeking behaviour, which may prevent them from accessing ART, being adherent to treatment, or remaining in care. In a multicentre analysis of 46 201 adults starting ART in urban and rural settings in South Africa, these factors only partly explained men's increased mortality while receiving ART. Importantly, the gender difference in mortality among patients receiving ART (31% higher for men than women) was substantially smaller than that among HIV-negative South Africans, where men had twice the risk of death compared with women. Yet, this extreme gender inequality in mortality, both within and outside of ART programmes, has not given rise to widespread action. Here it is argued that, despite their dominance in society, men may be subject to a wide range of unfair discriminatory practices, which negatively affect their health outcomes. The health needs of men and boys require urgent attention.

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Sub-Saharan Africa is the centre of the HIV epidemic, with an estimated 68% of all people HIV-infected.^[1] Over the past 10 years, largely through international aid programmes, there has been a dramatic increase in the number of HIV-infected individuals who have started antiretroviral therapy (ART) in the region. Despite early concerns that women may be disadvantaged in ART programmes, disproportionately more women than men have accessed ART in Southern Africa.^[2] In South Africa, for example, 60% of eligible women were receiving ART by mid-2011 compared with 41% of eligible men.^[3]

Men have a higher mortality than women when receiving ART.^[4:8] Although the reasons for this are poorly understood, a number of possible explanations have been suggested; some implicitly blame men for their own poorer outcomes. For example, numerous studies have suggested that men's poorer 'health-seeking behaviour' may prevent them from accessing ART services, being adherent to treatment or remaining in care. But, is this based on evidence or is it an assumption that has gained currency through widespread usage?

To date, there has been no systematic attempt to understand the phenomenon of gender differences on ART. In the past year, we explored the issue in an analysis including 46 201 adults initiating ART in 8 large urban and rural South African cohorts between 2002 and 2009.^[5] As 60% of our patients had civil identification (ID) numbers, it was possible to confirm their vital status through linkage to the National Population Register, estimated to capture over 90% of deaths nationally.^[9] We were also able to track patients with IDs after they were lost to follow-up (LTF) and confirm whether they were alive or dead.

Men's increased mortality on ART unrelated to HIV/AIDS

At the start of treatment, on average men had lower CD4+ cell counts and more advanced HIV disease than women. After we adjusted for such gender differences at ART initiation, men still had a 31% higher risk of mortality than women over 36 months (adjusted hazard ratio (AHR) 1.31, 95% confidence interval (CI) 1.22 - 1.41). Men were more likely to be LTF than women (AHR 1.20, 95% CI 1.12 - 1.28), but not to die after being LTF (AHR 1.04, 95% CI 0.86 - 1.25). Virological responses to ART were similar between men and women and, even among virologically suppressed patients, men were still more likely to die. Women had slightly stronger immunological responses than men, but in analyses restricted to patients who had reached CD4+ cell counts ≥200 cells/µl, the gender difference in mortality persisted (AHR 1.37, 95% CI 1.03 - 1.83). Importantly, however, this difference was smaller than the gender difference in death rates (standardised by age) in a hypothetical cohort of HIVnegative South Africans, where men were twice as likely to die than women. It appears then that the observed differences in mortality while receiving ART may best be explained by background gender differences in mortality in the South African population that are unrelated to HIV/AIDS.

Some more equal than others?

The gender differences in mortality outside of ART programmes suggest a situation of extreme gender inequality. The World Health Organization (WHO) defines gender inequality as 'difference(s) between men and women which systematically

Table 1. Conceptualising discrimination as a determinant of population health

Aspects of discrimination	On
Туре	Defined in reference to constituent dominant and subordinate groups, and justifying ideology
Form	Legal or illegal; institutional, structural, interpersonal; direct or indirect; overt or covert
Agency	Perpetrated by state or by non-state actors (institutional or individuals)
Expression	From verbal to violent; mental, physical, or sexual
Domain	For example: at home; within family; at school; getting a job; at work; getting housing; getting credit or loans; getting medical care, purchasing other goods and services; by the media; from the police or in the courts; by other public agencies or social services; on the street or in a public setting
Level	Individual, institutional, residential neighbourhood, political jurisdiction, regional economy
Cumulative exposure to	discrimination
Timing	Conception; infancy; childhood; adolescence; adulthood
Intensity	
Frequency (acute, chroni	ic)
Duration	
Pathways of embodying	discrimination (involving exposure, susceptibility and responses to)
#1	Economic and social deprivation: at home, in the neighbourhood and other socio-economic regions
#2	Toxic substances and hazardous conditions (pertaining to physical, chemical, and biological agents): at home, at work, and in the neighbourhood
#3	Socially inflicted trauma (mental, physical or sexual, ranging from verbal to violent): at home, at work, in the neighbourhood, in society at large
#4	Targeted marketing of legal and illegal psycho-active/other substances (alcohol, smoking, other drugs, junk food)
#5	Inadequate healthcare, by healthcare facilities and by specific providers (including access to care, diagnosis, treatment)
Responses to discriminati	ion (protective and harmful)
Protective	Active resistance by individuals and communities (involving organising, lawsuits, social networks, social support) Creating safe spaces for self-affirmation (social, cultural, sexual)
Harmful	Internalised oppression and denial Use of psycho-active substances (legal and illegal)
Effects of discrimination	on scientific knowledge
Theoretical frameworks	
Specific hypotheses	
Data interpretation	
*From: Berkman I F. Social Enidow	iclany London UK Oxford University Press 2000:42; reproduced with permission from Oxford University Press
Data collection Data interpretation	1000gv, London, UK: Oxford University Press. 2000:42: reproduced with permission from Oxford University Press.

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empower one group to the detriment of the other' and which impact negatively on access to healthcare and health status.^[10] Section 9 of the South African Bill of Rights states unequivocally that 'everyone is equal before the law.^[11] Equality includes protection against unfair discrimination (both direct and indirect) on the grounds of gender, and discrimination on any of the grounds mentioned is regarded as unfair unless proven to be fair. But, for many of us, discrimination seems a vague and unmeasurable concept. We have an intuitive sense of what it means, but how do we study it in order to address it? Krieger provides a useful framework to conceptualise how unfair discrimination affects population health (Table 1). On this basis it appears that, despite their dominance in society, men may be subject to a wide range of unfair discriminatory practices over their entire lives, through multiple pathways, with generally harmful responses.

There are few studies exploring the issue of discrimination towards men in health services. In contrast, there is a large body of literature on discrimination and women's health,^[12-21] possibly in response to the historic under-representation of women in research informing medical practice. In 1993 the United States National Institutes of Health (NIH) was mandated by law to ensure that 'women and minority groups' were included in clinical research.^[22] While this was a welcome response to an important omission from international research agendas, is it possible that the pendulum has swung too far? It seems probable that we are unable to recognise gender inequality when it affects men.

The priorities and programmes of large funders appear to confirm the focus on women in HIV/AIDS programmes. For example, the Global Fund for HIV/AIDS, Tuberculosis and Malaria – the largest multilateral HIV/AIDS funding agency – states that equitable access to services is fundamental to its mission but does not include men's poorer access to ART as a key action area. The United States of America, the largest donor on HIV/AIDS, has provided funding for nearly 2.5 million people living with HIV through its President's Emergency Plan for AIDS Relief (PEPFAR) programme. Although disproportionately more women than men have accessed ART, PEPFAR does not prioritise increasing men's access to treatment.

In turn, funders' priorities may affect national ART programmes. In Zambia, 54% of those living with HIV, but 63% of adults starting ART, are women.^[23] In South Africa, too, there is a gender gap: 55% of those living with HIV, but only an estimated 68% of those starting public sector ART, are women.^[24] Yet, the national strategic plans for HIV/AIDS in both countries do not identify male access to ART as a priority, nor do they include action plans to address this gap urgently. The same is true for many other African countries.

This apparent lack of concern for men's needs extends beyond ART programmes to other arenas. Policy documents define gender as the 'socially constructed roles, behaviours, activities and attributes' considered appropriate for men and women in particular settings. ^[10] In practice, however, it seems that gender and women's issues are still regarded as interchangeable. For instance, South Africa has a ministry for women, children and people with disabilities, but nothing comparable for men. Similarly, the United Nations has an Inter-Agency Network on Women and Gender Equality and the third Millennium Development Goal for 2015 is to 'promote gender equality and empower women'. The UNAIDS's Operational Plan on gender addresses 'women, girls, gender equality and HIV', but none of the three action areas refers to the needs of men or boys. Clearly the initiatives listed above are vital, as are initiatives to address the health needs of men. In the words of WHO: 'no one should be sick or die because of gender inequality'.

One last point for readers to consider: Many international and national conferences, including the recent conference of the Southern African HIV Clinicians Society, include tracks on women's health, but not that of men. Is this because there are no HIV-related issues specific to men's health – or is it because the question was not asked?

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