

MILLIONS OF 'SNIPS' WILL BOLSTER OUR HEALTH SYSTEM



Kelly Curran, Technical Director of the HIV/AIDS and Infectious Diseases Department at Johns Hopkins University. Picture: Chris Bateman

Scaling up male circumcision (MC) coverage to 80% of men and neonates in South Africa over the next 5 years would avert more than 1 million new HIV infections by 2025 – but this is unlikely to happen.

The startling prevention claim emerged from modelling data presented by Kelly Curran, Technical Director of the HIV/ AIDS and Infectious Diseases Department at Johns Hopkins University, who was in Cape Town this October to attend an AIDS/TB meeting of global researchers.

She told *Izindaba* that MC trials in Uganda, Kenya and South Africa had shown a 60% reduction in HIV infection among heterosexual men, prompting aggressive World Health Organisation (WHO) guidelines for high HIV, low male circumcision prevalence countries 2 years ago. The goal now was to increase the scale-up of MC coverage among young men to 80% over the next 5 years in 13 eligible countries in Africa's East and Southern regions, namely South Africa, Namibia, Botswana, Swaziland, Lesotho, Malawi, Zambia, Zimbabwe, Mozambique, Tanzania, Kenya (Nyanza Province only), Uganda and, Rwanda. Nyanza Province in Kenya was identified because it had low male MC coverage and an HIV prevalence three times higher than the rest of the country.

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Curran said a modelling exercise in Swaziland assessing the number of procedures that were required 'per infection averted' showed that as few as five circumcisions would avert one infection. This had 'huge potential' for countries with high HIV incidences such as South Africa. Curran said that in spite of the start-up difficulties, the pay-off was huge. Modelling exercises suggested that the cost of averting an estimated 4 million new HIV infections in the 13-country region over 5 years would be around R7.5 billion – eventually saving R150 billion in treatment costs. 'That's a pretty small investment for such a big return,' she said.

Similar modelling predicts that a scale-up of such magnitude (over 5 years) would in South Africa alone avert 20% of new infections and avoid more than 1 million new HIV infections in 15 years' time (when the incremental effect has kicked in).

Reaching 80% coverage in all 13 countries would require approximately 28 million procedures over 5 years.

To stress just how effective male circumcision was, Curran said a modelling exercise in Swaziland assessing the number of procedures that were required 'per infection averted' showed that as few as five circumcisions would avert one infection.

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South Africa's MC preparation status

However, the consensus view at the South African National AIDS Council (SANAC) is that MC should be introduced next year as part of a broader, strongly broadcasted package of sexual health and behavioural interventions.

Professor Helen Rees, head of the Reproductive Health and HIV Research Unit at Witwatersrand University (RHRU) and co-chair of SANAC's Programme Implementation Committee said a plan to upscale the provision of MC within this context was currently being developed.

The process had engaged SANAC's civil society sectors on the science of MC for HIV prevention while providing a platform for sharing views on policy development and implementation. Traditional leaders were involved in discussing the balance between traditional circumcision practices and medical male circumcision as well as concerns about unsafe circumcision practices outside the realms of established traditional practices.

Professor Francois Venter, President of the HIV Clinicians Society of South Africa, a senior Director at RHRU and an MC advocate, stressed that it would require 'serious energy, money and resources' for an effective scale-up of what he believed should be a stand-alone service. He downplayed other oft-cited barriers to implementation such as culture and risk disinhibition, saying the former was often driven by vested political interests under the guise of protecting traditional healer turf.

He described MC as 'an incredibly exciting' way of accessing men who as a group are notoriously elusive when it comes to addressing their health. It would create unprecedented opportunities for counselling on HIV risk reduction, gender violence and alcohol abuse, plus STI treatment and HIV testing. Women, by contrast, regularly accessed the system (family planning, pregnancy, birth, and maternal and child care).

Alluding to the initially fatally slow local ART rollout (a handful of pilot sites), a frustrated Venter said South Africa suffered from 'the disease of too much analysis and too little implementation'.

Manual for male circumcision under local anaesthesia Consultations in Tanzania Training manual and package Swaziland, Zambia, Kenya Monitoring & evaluation toolkit and Lesotho UNAIDS/WHO ethical guidance 2007 2005 2006 2008 ANRS 60% Quality assurance Implications for risk reduction quidance women in South Africa WHO/UNAIDS Orange Farm convene global Communication package expert consultation US NIH announces Situation analysis toolkit 53%/ 51% risk reduction Operational Guidance in Kisumu/ Rakai 18

Taking MC to Practice: Landmark Events

An MC operational

programme would need workers, facilities, advertising, focus and project planning with intellect 'to make it real. It's like building the Gautrain: it won't happen by itself", he added.

Neonatal MC 'problematic'

Rees said including neonatal MC as part of any public sector activity was problematic given strict child health legislation about medical procedures on children. Public health practitioners opposed to MC roll-out as a mass anti-HIV/AIDS intervention claim epidemiological uncertainties, economic, cultural, ethical and logistical factors render it 'impractical and unjustified'. They accuse MC proponents of 'overstating the evidence in the current climate of desperation', saying this reduces the scope for informed consent while ignoring the rights of newborn children for whom the ethical principle of non-maleficence cannot be upheld.¹

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Observational data for the nine South African provinces showed 'no evidence' that HIV transmission between 1994 and 2004 was slower in those provinces with higher levels of circumcision² – though non-medical MC is known to be less effective.

A 2002 population-based survey (3 025 respondents) showed that a third of South African men are circumcised, most of them black, over 50, living in rural areas and speaking Sipedi or IsiXhosa. Most MC among whites and Indians takes place in childhood in hospital settings while among blacks most MC is performed after the age of 17 and outside a hospital setting. ³

In contrast to the Xhosa practice of full circumcision, Zulus traditionally promoted partial circumcision (*ukugweda*), whose HIV-protective benefits are unknown. Proponents argue that acceptability of MC among uncircumcised men in southern Africa is high, at about 60 - 70% (Orange Farm, South Africa, 59%)⁴ while combining medical MC with traditional initiation will minimise adverse events and morbidity.⁵

The most heated MC debate at the 2008 International AIDS Conference in Mexico was around condom use and marginalisation of women.¹

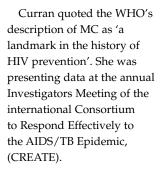
Who's doing what?

Western Kenya currently leads the MC field at 44 000 procedures towards their 150 000 per year goal (most of them done in the last year), followed by Zambia at 12 500 in two years (with 2 million to go).

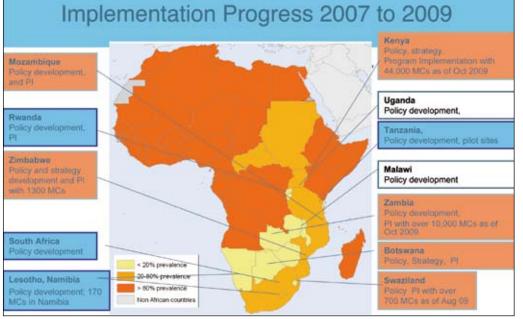
Curran told *Izindaba* that 'the first 1 000 MCs are the hardest because you have to get systems, training and commodities in place, just as you had to with ART'. Some six to seven years ago many influential people were saying that scaling up ART in Africa was 'impossible'. 'It (male circumcision) needs a massive scale-up – a few pilot sites here and there won't do it,' she emphasised.

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Addressing questions about resistance to MC, Curran said that she and fellow advocates had learnt the hard way that pure clinical trial data were often not enough to convince policy makers, clinicians and patients to act. However, when biological data were added, the picture often became more meaningful



for them. She explained that this involved describing how circumcision prevented HIV infection by removing the foreskin where a profusion of immune system target cells resided.

Let the critics have their say

It was also crucial to provide 'a space for detractors' to air their concerns. 'It's easy to say, please, look at the evidence, but people's personal beliefs drive much of how they see the world. There are valid concerns for example, about whether women will still be able to negotiate condoms and whether it would act as a disinhibitor for young men (long-term followup at the Kenyan trial site found no evidence for the latter).

She said another effective motivator was 'benchmarking' or applying peer pressure among countries. This happened in Windhoek in June this year, where a stocktaking of progress since the WHO and UNAIDS issued their country guidelines on MC in March 2007, called 'Two Years and Counting', took place. The ministries of health and national AIDS councils from most of the 13 countries involved, plus a handful of researchers and some NGOs attended, each country presenting a status report before being grouped according to progress for discussion.

The most advanced, Kenya and Zambia, joined those who were furthest behind to share lessons learnt so far. She said that because both a partially and fully protective HIV vaccine were 'some time off', male circumcision was a vital tool, although 'hardly the holy grail'.

In spite of this, after the period of abstinence during wound healing (about 3 weeks), 'there are no adherence issues, once the foreskin is gone it's gone. We just need to scale up'.

World Cup opportunity?

With the football World Cup looming for South Africa next year and HIV prevention advocates tailoring their campaigns to take advantage of it, Curran suggested describing male circumcision as 'the goalkeeper'. 'But as we all know, a goalkeeper is only as good as his defenders.'

She described these defenders as including couples' HIV counselling and testing and other risk reduction strategies like abstinence, partner reduction and using condoms.

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Praising the leadership on male circumcision at WHO and UNAIDS, Curran said they had consistently reminded the international HIV community and policy makers that the evidence on male circumcision was 'overwhelming and that this intervention needs to be scaled up for maximum impact'. Her unit's aim at Johns Hopkins University was to create the opportunities, an enabling environment and provide management support and motivation to countries willing to act on best evidence.

Most of the medical male circumcisions in the 13-country region are being done under local anaesthesia using one of the three surgical techniques recommended by WHO: forcepsguided, dorsal slit and sleeve resection.



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