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Male circumcision as HIV prevention in Africa: debates and resistance

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Abstract

While the practice of male circumcision (MC) is declining in Western countries, its promotion in order to prevent HIV/AIDS is currently implemented in Eastern and Southern Africa, where it is not frequently carried out and where the HIV epidemic is very widespread. However, in spite of the scientific demonstration of MC’s efficacy, its advocacy as a method to prevent HIV/AIDS has generated controversy, with its most extreme opponents denouncing a conspiracy by an occult organisation of powerful “circumcisers”. Drawing on an analysis of scientific papers and the responses they have elicited in the journals where they are published and on Internet sites, this article sheds light on this opposition and its connotations. It situates the distorted vision of Africans and of their sexuality – as expressed through these publications and reactions – in a post-colonial context where the ex-colonisers’ domination over ex-colonised populations is perpetuated under different forms. Finally, it analyses the action designed in Western countries and exerted on African bodies as an instance of biopower involving medical experimentation transfers to Southern countries. When deprived of any symbolic dimension and practised with a prophylactic objective, MC appears emblematic of such biopower.

Keywords: Male circumcision, HIV/AIDS, Africa, controversies, biopower, post-colonial context.

Introduction

Male circumcision (MC) is one of the oldest surgical operations in the world. Yet it remains highly controversial. Where some people identify an effective means for avoiding sexually transmitted diseases, others see useless surgery, unacceptable mutilation, both barbarous and
reactionary, either performed for bad religious or cultural reasons or promoted by puritans opposed to sexual satisfaction. Whereas the results of randomised controlled trials (RCTs) carried out in 2005 and 2007 in Africa showed its efficacy in preventing HIV infection in men, its frequency has significantly decreased with newborns in the U.S. — a country where it was once widely practiced, notably, in higher social classes and on White men. While the neonatal MC rate was 56% in 2006 — already far lower than in the second half of the twentieth century: 84% of men born in the United States in the 1970s (Xu et al., 2007) — it dropped by 32.5% in 2009\(^1\). Moreover, under the impetus of a network of activists allied, notably, with natural health advocates, anti-circumcision leagues clinched enough signatures (over 7,200) to introduce a bill in the San Francisco and San Diego 2011 ballots prohibiting and penalising neonatal circumcision\(^2\). In the United Kingdom, where Queen Victoria had set the example by having her sons circumcised, the circumcision rate fell in the late twentieth century to 15.8% among men aged 16-44 years in 2000 (Dave et al., 2003)\(^3\). Western governments — notably, the United Kingdom, Finland, Sweden, the Netherlands, Australia, and New Zealand — tend to restrict the practice of neonatal circumcision, which was relatively widespread in the twentieth century. It must not be routine practice and can only be justified by medical or religious reasons, sometimes only in a hospital institution. Qualified persons and/or doctors should practise it under anaesthesia.

Beyond issues regarding integrity of the human body and free will, controversies on circumcision have proved very impassioned. MC is practised, on the one hand, for religious

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**Notes**

\(^1\)Review of circumcision data for 6,571,500 newborn U.S. boys in 2006-2009, drawn from a representative electronic health care reimbursement database, presented at the 18\(^{th}\) International AIDS Conference in Vienna, 2010, by Dr. El Bcheraoui, an epidemic intelligence service officer in the division of HIV/AIDS prevention at the Centers for Disease Control and Prevention. It is worth noting that the MC rate is difficult to assess with precision by merely referring to operations performed in a medical institution (in this case, on newborns), as an undetermined number of ritual circumcisions are not performed in such settings.

\(^2\)The MGM Bill (Male Genital Mutilation Bill) accessible on mgmbill.org (consulted June 2011).

\(^3\)A rate evaluated on the occasion of a broad national survey: the National Survey of Sexual Attitudes and Lifestyles (Natsal).
and/or cultural reasons (which are deeply rooted but nonetheless denounced by its opponents); and, on the other hand, for medical reasons: malformations, preventing infections. It is supported by its proponents, and vilified by its adversaries who consider it as a sexual mutilation operated on a person who has not reached the age of consent.

In fact, current debates should be grasped and unravelled both in their local and global dimension. One cannot avoid asking why an increasing number of people contest MC, particularly in Western countries, at a time when international organisations — the WHO and UNAIDS — or North American — USAID and PEPFAR — are striving to promote this practice in order to curb the HIV epidemic in Eastern and Southern Africa, where its prevalence is very high and MC infrequent. Few countries, however, easily accept this promotion. In most concerned countries, the international entities cited above experience difficulties in finding political partners and relays: hence disseminating circumcision is, to say the least, a slow process. To these difficulties, one must add the fact that law in South Africa punishes circumcision before age 18.

Thus, we face a paradox, which lies at the core of this article: why should different principles in terms of circumcision practice be applied in Africa and not in other areas, notably, in Western countries? Why should circumcision be considered as an African, exceptional, solution to prevent AIDS? To cast light on this paradox, we shall first consider developments in research and scientific discussions: it has taken a long time to demonstrate the efficacy of circumcision based on Random Controlled Trials (RCTs). As we shall see below, this demonstration has not succeeded in terminating scientific polemics on the issue. Then we shall examine the implications of the fact that circumcision is considered as an African solution to AIDS, i.e., an exception. Such implications have multiple dimensions. They unfold in different contexts: first, in a racial context involving a representation of superior or inferior races; and, secondly in a colonial legacy context. This has been developed in a huge body of so-called scholarly literature. Racial hierarchy have been used to explain why Africa was more severely affected by the AIDS epidemic, with a reference to uncontrolled sexuality. The argument was
based on “evidences” that did not even need to be justified since they were such a massive consensus.

Furthermore, Africa has become a prime area for scientific globalisation: many clinical trials, notably with pharmaceutical products, are conducted — sometimes in highly questionable conditions. This fact may help explain why African populations tend to distrust scientific research of which they are the actual or potential subjects. Finally, promoting circumcision can be understood as exercising a bio-power, via government action, over human bodies whose sanitary, prophylactic dimension takes precedence over their symbolic dimension.

1. **Male circumcision in the scientific arena**

In a first section, I shall analyse the scientific research conducted in Africa on MC as HIV infection prophylaxis. For this purpose, the Pubmed, Medscape, Emsbase, Aidsline databases, as well as the databases of identified peer-reviewed journals, were searched for articles using statistical methods and reviews of such articles. The retrieved articles were all read and categorized manually to capture the range of comments, arguments and critics. My review seeks to follow the research process that had led to carrying out RCTs — a process based on arguments and counter-arguments relative to MC — and, subsequently, to examine the reactions to these RCTs. It does not address their scientific reliability nor the appropriateness of methods used. Based on a sociological approach, it examines their discourse, their objectives and conclusions, as stated by the authors.

*The randomized controlled trials*

In order to understand the huge disparity of HIV-infection prevalence in Sub-Saharan Africa, notably, the contrast between West Africa, relatively unaffected, and Southern and Eastern

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4 Analyses of the internal validity of the research projects are found in the literature and integrated into our approach.

5 The UNAIDS global report on the AIDS epidemic (2010) shows how contrasted is the prevalence in different countries: 25.9% in Swaziland, 24.8% in Botswana, 23.6% in Lesotho versus 0.7% in Mauritania, 0.8% in Niger, 0.9% in Senegal. [http://www.unaids.org/globalreport/global_report.htm](http://www.unaids.org/globalreport/global_report.htm) (consulted June 2010).
Africa, the need to carry out RCTs became obvious after a mass of heterogeneous data had accumulated. Three RCT with comparable designs showed that MC was effective against HIV acquisition. A first RCT was carried out between 2002 and 2005 in a periurban setting near Johannesburg, Orange Farm, in South Africa (Auvert et al., 2005). 3,274 HIV-negative men, aged 18-24 years, were randomized, 1,617 to immediate and 1,656 to later circumcision. They received a compensation of 300 rands (about 45 US $) for their participation. The other benefit for their inclusion in the trial was a medical follow-up. After circumcision, men were advised to wait for complete healing (about one month) before resuming sexual activity. During the trial, they received repeated information on HIV prevention and other sexually transmitted diseases, as well as free condoms. They were followed up at regular intervals for sexually transmitted diseases and HIV infection, and their sexual behaviour was investigated by questionnaires to control the comparability between the two arms of the trial. The RCT was stopped early at 18 months after a planned interim analysis showed a significant 61% reduction in HIV risk. At endpoint, 20 circumcised participants were HIV infected versus 49 uncircumcised ones.

These results were confirmed in two trials with a similar design carried out in Kenya (Bailey et al., 2007) and in Uganda (Gray et al., 2007), also stopped early as evidence emerged that MC provided significant benefits. The trial carried out at Kisumu in Kenya on 2,784 men aged 18-14 years, yielded results very close to those of Auvert et al. (2005): 60% reduction of HIV risk in the circumcised men. The trial conducted in a rural area at Rakai in Uganda (Gray et al., 2007) on 4,996 men aged 15-49 years was similar to the preceding ones, except for its wider age range. It was also stopped early after an interim analysis showed significant efficacy of MC. The estimated reduction of risk of HIV infection was 55%. The results of the three RCTs are

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6 Even between countries of Southern and Eastern Africa, sharp contrasts can be observed: for Swidler (2009) who compares the contrasted HIV prevalence rates in Botswana (23,6%) and Uganda (7%), “what is missing [in Botswana] is precisely the activation of social solidarities, the sense of community and the mobilization of collective identities” (144).

7 The UNAIDS global report on the AIDS epidemic (2010) shows how contrasted is the prevalence in different countries: 25.9% in Swaziland, 24,8% in Botswana, 23,6% in Lesotho versus 0,7% in Mauritania, 0,8% in Niger, 0,9% in Senegal. http://www.unaids.org/globalreport/global_report.htm (consulted June 2010).

8 As in the following two RCTs, the ethical aspects were taken into consideration (Cleaton-Jones, 2005).
remarkably close: MC more than halves the risk of infection by HIV but the protection is partial. Therefore, the authors insist condoms remain the safest protection against HIV when they are — properly— used.

**Prior research**

The three RCTs produced their results after nearly two decades of intense debates on the protective role of MC against HIV, which I shall now examine to shed light on the long process of evidence search.

**Biological evidence**

In 1986, two clinicians, Fink and Alcena, assumed a link between HIV infection and absence of MC. ‘The majority of men from Central Africa are not circumcised; there is frequent mini-ulceration of the foreskin of the penis. This represents an easy portal of entry for the virus.’ (Alcena, 1986, 446). The biological basis for MC protection was later described later by Szabo and Short (2000): the foreskin contains more Langerhans/dendritic cells and CD4/CD8 T lymphocytes, all target cells for HIV. By reducing the surface of the foreskin, MC reduces the number of these target cells. Weiss et al. (2010) cite recent researches that confirm this explanation.

**Data on the protective function of MC before the RCTs**

Although indigenous African healers recommend MC for protection against sexually transmitted infections (Green et al., 1993), the first epidemiological studies on the prevalence of HIV infection in Africa found contrasting situations (Moses et al., 1990). The question was to find out if the observed differences were attributable to MC. More than forty observational studies were aimed at tackling this question. Among the first ones, Bongaarts et al. (1989) compared 409 African ethnic groups with an approximate method and concluded that MC provided an explanation for the disparity of HIV prevalence in Africa. Using a prospective methodology, Cameron et al. (1989) confirmed the link between the absence of MC, genital ulcers — two
interrelated factors — and HIV infection, studying the HIV-incidence of the clients of prostitutes with a very high HIV-prevalence (85%).

During the following decades, research intensified. Data on MC was synthesized in review articles. Analyzing a series of observational studies, Caldwell and Caldwell (1994) already emphasized the controversial aspect of the protective effect of MC. 'The role of male non-circumcision has been presented in epidemiological studies which claimed a level of statistical association usually accepted as approaching proof in other investigations. These studies have been largely ignored for reasons that may not be entirely scientific' (Caldwell and Caldwell, 1994: 23). Moses et al. (1994) found that 18 cross-sectional studies, out of 26 included in their review, showed an association between MC and lower risk. They stressed the reliability of the data. ‘Most of the Bradford-Hill criteria of causation are met: strength of association, consistency, temporality, biologic gradient and theoretical plausibility, coherence, analogy’ (Moses et al., 1994: 207). Halperin and Bailey (1999) reviewed ten years of studies on the association between MC and reduction in HIV risk. The evidence seemed so clear to them that they recommended that 'the international health community [to] add MC services to the current limited armamentarium of AIDS prevention measures in countries with a high prevalence of heterosexually transmitted HIV and STDs... [Otherwise] medical professionals and public health authorities may inadvertently be harming the very individuals whom they are trying to help' (Halperin and Bailey, 1999: 1814). But to confirm the link between MC and HIV protection, possible confounding factors such as religious, cultural practices and sexual behaviours must be controlled. This was done in two articles comparing the prevalence of HIV infection in four African cities with contrasting rates of HIV infection: moderate in Cameroon and Benin, where MC is widespread or very high in Kenya and Zambia, where most men are not circumcised (Auvert et al. 2001).

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9 Cross-sectional studies provide a "snapshot" of the frequency of a disease in a population at a particular point in time.
Doubts and caution

From the onset of the epidemic in Africa, it was difficult to sort the wheat from the chaff in the accumulating data on MC. At a national level, the data was often not significant. African borders have been arbitrarily traced in the colonial era and ethnic groups with different circumcising tradition live in the same countries. Moreover, some ethnic groups practising MC showed higher rates of HIV infection. This could be explained later by the assumption that the later MC is practised the less protective it is, as men resume sexual activity too early. Besides, genital contact may be considered as a way to heal the MC wound.

Opinions against the benefits of MC were voiced. In an influential review article, Vincenzi and Mertens (1994) expressed several criticisms that were picked up and amplified in numerous subsequent publications. They contested the biological plausibility of MC: ‘It is unclear what the portal of entry is for HIV’ (Vincenzi and Mertens, 1994: 156). Data was judged heterogeneous and contradictory, lacking a coherent explanatory model. They cited numerous biases: hygiene practices, sexual behaviour, misclassification of exposure, unreliability of self-reports on MC. Such criticisms were acceptable but one of their arguments seems rather surprising, all the more as no effort was made to support it: scientific journals allegedly have a publication bias in articles supporting MC. In their concluding remarks, the authors wondered whether the interpretation of the MC data relied on faith or evidence. Rather — they concluded after throwing oil on the fire of subjectivity — the effects of MC should be subject to an objective scientific analysis and not be debated in an impassioned and emotional fashion.

Reservations were also voiced in several epidemiological studies and reviews confirming the beneficial effects of MC (O’Farrell & Egger, 2000; Weiss et al., 2000). Lowered risk of HIV infection could be due to religious proscriptions and strict rules of hygiene. In a cohort study carried out on 5,507 seronegative men and 410 serodifferent couples (Gray et al., 2000), the data was considered confusing because some of the participants were Muslim. A letter reacting

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10 The use of this word doubtless relates to the religious dimension of MC, not mentioned directly here.
to this article (Halperin et al., 2002) backed the positive role of MC by evoking mounting biological evidence, and in their reply, Gray et al. (2002) still recommended caution and implementing RCTs. Reviews looked at confounding factors (Bailey et al., 2001; Hayes, 2001; Quigley et al., 2001) and concluded that the data in favour of MC was not sufficiently convincing.

A series of questions were raised, notably, the type of MC, its protective function against other sexually transmitted infections, the reasons for practicing MC, the impact of the age at which it is carried out, and its scientific foundations. Finally, a Cochrane meta-analysis\(^\text{11}\) (Siegfried et al., 2003) emphasized the methodological heterogeneity of the studies, as well as their inconsistent quality, and concluded there was no strong evidence of the benefits of MC. The results of observational studies were limited by confounding factors and it was necessary to await results of RCTs to get unquestionable data.

*Scientific criticism: back to “real life”*

As the gold standard of medical research\(^\text{12}\), the RCTs on MC were expected to put an end to debate, at least as regards its scientific aspects, since issues of implementation and acceptability may widen the gap between efficacy and efficiency. RCTs constitute a working model where researchers can exercise maximum control but in the real world, things may be very different. Moreover, ‘there is an inevitable role of judgment in weighting evidence, even within the constraints of a formal statistical meta-analysis’ (Marks, 2009, 98). And along with this judgment, there are ‘conflicts over the quality of evidence and over the appropriate role of evidence in directing practice’ (Ibid. 99).

The publication of the RCTs gave rise to numerous letters where critics repeatedly referred to the same arguments and questioned the methodology. The criticism was focused on the quality of evidence. The RCTs took place over a short period. What would be the impact of

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\(^\text{11}\) The Cochrane collaboration aims to be a global resource for systematic review and a critical appraisal of research articles. Set up by experts according to a highly codified procedure, Cochrane reviews are a basic reference.

\(^\text{12}\) ‘Because the randomized trial and especially the systematic review of several randomized trials is so much more likely to inform us and so much less likely to mislead us, it has become the ‘gold standard’ for judging whether a treatment does more harm than good’ (Sackett et al., 1996: 72).
MC over the long term? Participants were provided medical follow-up and repeated counselling. What would happen when these conditions were no longer present? Garenne (2006) doubted that the protective effects of MC could be maintained over the long term, using the analogy of insufficiently safe contraceptive methods that do not succeed in preventing unwanted pregnancy. According to him, the 61% protection rate shown by Auvert et al. (2005) only represents a decrease in the annual risk. MC will have less impact on HIV infection over several years (Green et al., 2008). Arguments against MC repeated criticisms about confounding factors from before RCTs (Potterat et al., 2006) as though evidence provided by the latter was not valid.

'Male circumcision is not the vaccine we have been waiting for', stated Green et al. (2008) in the title of their article. 'Thousands of African men now line up to get circumcised in the mistaken belief that it will save them from HIV [...] The public is misled; false hope is promoted from uncertain conclusions' (Green et al, 2008: 193). The world health community should scrutinize the data and examine 'several other factors that might have influenced and skewed the results' (ibid.), especially the supposed high proportion of non-sexual transmission. MC is dangerous because of contaminated medical instruments, exposure to blood, a false sense of security, and, last but not least, risk compensation behaviours, as African males would be too happy to do without condoms. Myers and Myers (2008) again condemned a pro-circumcision lobby impatient to achieve their ends by the promotion of a license for unprotected sex. MC will foster out-of-control sexuality13.

Numerous experts — academicians, members of international organizations and major foundations — issued a rejoinder expressing their surprise ‘at the degree of resistance to something which seems to them both self-evidently good and worthwhile, and also entirely consistent with the “scientific” biomedical paradigm within which they operate’ (Wamai et al, 2008: 399). They restated the fact that scientific evidence was “overwhelming”, that the HIV epidemic was devastating and the many other prevention strategies disappointing; early termination of the RCTs was due to the high level of efficacy of MC; the data was consistent and

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13 This assertion is infirmed by the data of the RCT carried out in Kisumu, Kenya (Mattson et al., 2008).
the observed effects were ‘virtually identical to [those] seen in many previous observational studies’ (ibid.: 400). As South African, Kenyan and Ugandan cohorts are being followed up for long-term risk reduction, ‘there is no reason why the protective effect of foreskin removal would decline over time’ (ibid.). Furthermore, there is no increase in reported risky behaviour of circumcised men, the so-called risk compensation. Addressing the recurrent statement that many infections were not due to heterosexual contacts — hence the protection by MC would be useless —, the authors replied that ‘this theory has been repudiated by the WHO and virtually all reputable scientists’ (ibid.). They repeated that no serious or permanent complications or after-effects of MC were reported. With regard to confounding factors, RCTs, are designed to control them. The authors remind that they complied with ethical rules and that ‘it is unethical to deny safe MC services in high prevalence settings’ (ibid.: 401). In conclusion, ‘as more and more people in sub-Saharan Africa become needlessly infected with HIV, the time has come for urgent and decisive leadership, not circular and unscientific arguments about an intervention whose efficacy has been proven beyond a reasonable doubt’ (ibid.: 403). For Rennie et al. (2007), it would be unethical not to take the preventive opportunities offered by MC seriously. It was apparently as effective as the vaccine everyone has been looking forward to (Klausner et al., 2008). Finally, a Cochrane meta-analysis (Siegfried et al., 2009) confirmed the protective effect of MC.

2. Outside the scientific arena: resistance and disputation

The detractors of MC would not cease their struggle. Their goal is henceforth to slow down or even prevent the scaling up that was carried out after 2007 mainly by WHO and UNAIDS with the involvement of USAID, PEPFAR, the Bill and Melinda Gates Foundation and the Global Fund to Fight AIDS, Tuberculosis and Malaria.

We now face two opposite coalitions of actors: in favour of MC promotion, a number of scientists working in the HIV-infection field and members of international organisations. Against circumcision promotion, the “intactivists” (as they call themselves) include, amongst persons
with various political and religious leanings, clinicians, notably, paediatricians\textsuperscript{14}, who operate outside the HIV-infection field. They hold highly influential positions in anti-circumcision leagues and express their opposition on numerous Internet sites. The impact of these leagues is difficult to ascertain, but their presence on the Internet and intensive lobbying have resulted in legislative actions that may well spread.

The data I shall present below will draw on manual analysis of multiple articles and letters to scientific journals, and in order to put these into perspective, newspaper articles, websites and blogs where similar or close arguments were developed.

\textit{An arduous implementation: the long road from evidence to public policy}

In 2007, a review meeting\textsuperscript{15} was organized at Montreux by the WHO and UNAIDS to confront different points of view, notably those of social scientists. Many participants were critical about MC, and did their part in fuelling controversy. If the research evidence was clear, consensus was far from achieved (Berer, 2007).

Reacting to the fact that MC is ‘just a snip’, as described by a participant in a former WHO/UNAIDS meeting, Aggleton (2007) maintains that ‘few if any investigations contain robust controls for confounding factors such as social background, sexual behaviour or penile hygiene’ (Aggleton, 2007: 19). The strengthening advocacy in favour of MC he perceived was based on a collusion between public health and social control. Since prevention programs have failed, he argues, there is a backlash to biomedical interventions and their implicit moral constraint. The flawed results of the RCTs are promoted by a powerful coalition. ‘Evidence from recent trials, which at the very least requires continued scientific scrutiny, is now trumpeted as “truth”. Opponents... have been silenced and marginalized under the onslaught. Curious alliances have arisen between clinicians, advocates, religious leaders and moral entrepreneurs’ (ibid.: 20).

\textsuperscript{14} The American Academy of Paediatrics issued a 1999 statement opposed to newborn circumcision that had a dramatic impact on parents' decisions and induced several states to withdraw Medicaid coverage. See \url{http://www.aap.org}

\textsuperscript{15} URL (consulted July 2011) \url{www.who.int/hiv/pub/malecircumcision/meetingreport_nov07/en/index.html/}
Dowsett and Couch (2007) echoed these statements. They evoked the “euphoria” of participants at the international conference in Toronto in 2006, while ‘many were less sanguine’ (Dowsett and Couch, 2007: 34) and pushed aside, notably the social scientists who were ‘sceptical about the narrow form of “science” being touted as the only form of evidence needed [...] The clamour for circumcision silenced many questions, overrode any misgivings and swept sceptics to the side lines’ (ibid.). MC is a discriminatory procedure promoted as an African solution. It would surely lose its benefits in real world settings. The methodology of the RCTs was also disputed: findings were taken out of context; the double-blind method was impossible, intensive counselling does not exist in real settings. The adverse effects of MC will develop over time. These authors advise to remain ‘wary of the indecent haste with which the discussion about MC has been swept up in a tide of enthusiasm based on only one, albeit significant, part of the evidence base needed for recommending such a radical public health initiative’ (ibid.: 42).

Buvé et al. (2007) warned against precipitation and advised to hurry up slowly (Festina Lente is the title of their article), considering that ‘the biggest challenge is how to deliver a complex prevention package that combines a surgical procedure with a behaviour change intervention’ (Buvé et al., 2007: 58). How could MC be practiced under proper conditions in insufficient health services? ‘The biggest bottleneck when going to scale with MC will be the lack of human resources’ (ibid.: 59). Actually, it is not the only bottleneck: political and popular resistance appears to be much more significant.

Despite the efforts of the international organizations involved in its promotion, one can only note that, on the field, the diffusion of MC is slow and political involvement sometimes reluctant16 (Kagumire, 2008; Katz and Wright, 2008). In January 2010, Mary Shaba, the Malawian secretary to the Office of the President, responsible for HIV/AIDS and Nutrition,

decided not to promote MC because of a lack of evidence supporting the practice\textsuperscript{17}. Conversely, Kenya performed 91,300 MC between 2009-June 2010\textsuperscript{18}, but except in the Nyanza Province where the MCs were performed, the majority of Kenyan men are traditionally circumcised. On the reverse, only 350 MC were reported in Namibia at the same period and 542 in Rwanda. The countries with the highest HIV rate made some efforts: 6,180 MC in Botswana (24.8% prevalence) and 10,000 in Swaziland (25.9% prevalence). With a population of respectively 2 MM. and 1.2 MM., there is indeed a long way to go before achieving a significant impact on the epidemic. Even if a public policy needs time to gain acceptance, one may wonder if the slow development of MC in eastern and southern African countries where it is promoted does not reflect a mounting opposition in Western countries.

\textit{The offensive against MC: uncovering a conspiracy}

The issue of MC was caught between studies that attempted to untangle cause from effect on one hand, and strong resistance, on the other. Opponents of MC express their viewpoint mainly in letters reacting to published scientific articles in favour of MC and in a host of websites\textsuperscript{19}. Most of their leaders are not researchers but rather clinicians, often paediatricians opposed to newborns’ circumcision. Van Howe (1999) considered MC as scientifically unfounded and dangerous. He denied that studies carried out in Africa showed that circumcised men were less exposed to HIV risk: he argued that they have more partners and that condoms do not stay on their penises. In a letter to \textit{The Lancet}, Darby (2004) repeated the same methodological arguments: selection bias, religion as a confounding factor, inadequate statistical analysis.

Likewise, for Van Howe et al. (2005), epidemiological research on MC wrongfully depicted itself as scientific. “Several opinion pieces published in the medical literature have been portrayed as “studies”...Scientific efforts to understand, contain and prevent HIV infection are more likely to


\textsuperscript{19} Some websites opposed to MC: cirp.org; circumcisionandhiv.com; nocirc.org; doctorsopposingcircumcision.org; stopinfantcircumcision.org; intactamerica.org; mgmbill.org.
be successful when the scientists involved in this endeavour can gather and analyze data objectively and rationally rather than use AIDS as yet another excuse to promote an old blood rite' (Van Howe et al., 2005: 264). But these authors’ criticism is not confined to the scientific aspects. In an escalation of arguments, they accuse researchers, supposedly circumcised themselves and considering ‘their incomplete penis...[as] superior to the intact penis’ (ibid.) of proselytising in favour of a barbaric practice. ‘Should healthy body parts be amputated to conform to cultural and religious practices of scientists from outside cultures?’ (ibid.) In the same line, Boyle (2004) stated there was a positive bias for MC among circumcised researchers — if this was the case he prudently added.

‘HIV transmission is heavily dependent on certain sexual behaviours, not anatomy’ (Van Howe et al., 2000: 1467). Szabo and Short’s (2000) biological arguments are attributed to a retrograde and puritanical Victorian period, to backward tribal customs, to decades of pressure by circumcisers playing on fears: the foreskin cannot be an ‘error of nature’ (Cruz, 2000: 1468). The criticized authors reacted by condemning their opponents’ dogmatic position. ‘It would be unfortunate if the zealous opponents of neonatal male circumcision in developed countries... distracted attention from the glaring fact that in Central and Southern Africa, where 24.5 million people are infected with HIV, circumcision could offer some immediate protection against spread of the disease’ (Szabo and Short, 2000: 1594).

Increasing the escalation, Boyle (2003) describes numerous negative effects of MC. It provokes an ‘emotional defence against (one’s) own painful feelings of grief for a lost body part and reduced sexual function’ (Boyle, 2003: 427). The catalogue of these undesirable effects was eclectic: unhappiness, anger, sadness, feeling incomplete, cheated, hurt, concerned, frustrated, abnormal, and violated. Circumcised men would be prone to alcohol dependence and the use of drugs, as well as solitude, marital problems, anti-social behaviours, domestic violence, rape, sexual abuse of children, theft and suicide. In front of this bleak picture, the practice of MC is described as ‘wishful fantasy’ generating ‘a calamitous worsening of the HIV/AIDS epidemic’ (ibid.). For Hill and Denniston (2003), members of Doctors Opposing Circumcision, 90% of the
sub-Saharan African epidemic was not due to heterosexual transmission but to iatrogenic transmission through blood that could only be increased by MC practiced under poor hygienic conditions. They state that only 30% of infections are attributable to sexual activity. Besides, MC could change sexual behaviours by increasing risky practices. The authors raised the threat of what ‘African males’ may think or do, ‘abused and exploited by scientists who recommend the circumcision policy, sensitive of previous colonial exploitation and suspicious of the biological warfare origin of the virus’ (Hill and Denniston, 2003: 496).

They warned against the political consequences of the probable failure of MC: ‘African males would have sacrificed their erogenous tissue for a false hope of preventing HIV infection’ (ibid.).

As more evidence accumulated in favour of MC, the criticisms became sharper. For Hellsten (2004), the promotion of MC, a ‘genital mutilation’, absurd and irrational, will allow all sorts of other mutilations: ‘We would have no justification for stopping (parents) cutting off their children’s ears, fingers or noses{ftnote}20{ftnotetext}if their religion or cultural beliefs demand it’ (Hellsten, 2004: 249). It will also foster all sort of evils: ‘a sexual disinhibition, and for women, unsafe, maybe also forced, sex’ (ibid.:251). He too points toward a conspiracy: the reasons to practice MC are a ‘mere smokescreen to cover up the actual social, political or economic reasons that are behind the preservation of genital mutilation in any given cultural context’ (ibid.: 250). But the worst is yet to come. ‘In a modern, American, market oriented society male circumcision became a form of commercial exploitation of children when physicians, in cooperation with transnational biotechnology corporations, looked for the sales of marketable and economically profitable products made from harvested human foreskins that could further be used in the pharmaceutical industry’ (ibid.:251). Medicine is in league with the powerful and dangerous global pharmaceutical industry in an illegal trade. And this in the name of a science without ethical bounds that ‘can be a double edge sword that readily lends itself as an alibi for strongly held preferences and cultural biases’ (ibid.).

\footnote{Here, Hill and Denniston repeat word for word a sentence from an article by Ntozi (1997, 99) that puts forward a measured position on MC and recommends proceeding to RCTs.}
Backing the opposition to MC, a conspiracy theory is clearly voiced and its xenophobic dimension is hardly concealed. Its anti-Semitic stance becomes quite clear in two titles of the "Foreskin Man" MGMBill comic book series, two Kindle eBooks21, condemned by the Anti-defamation League because of its 'age-old anti-Semitic canards such as ...the accusation that Jews ritually murder Christian children... [or] when a character complains that the "pro-circumcision lobby" has 'all the well-connected doctors and lawyers'22.

3. **Understanding the resistances: a contextual analysis**

As seen above, the discourse against male circumcision is articulated around three main arguments: an arbitrary power over Black African bodies exerted by big international organizations and its colonial reminiscences; an inadequate scientific research and the distrust it fosters; the exceptionality of the African situation. Situating these arguments in their context helps to understand the resistances to the implementation of the practice.

*Blaming the victims*

Drawing on a long tradition of racist and eugenic discourses, a common explanation of AIDS dissemination throughout Africa considers that the disease is the consequence of an over-abundant, uncontrolled, primitive sexuality, compounded by disintegrating social structures and ensuing deculturation (Vaughan, 1991). 'The disease was deflected onto Africa as primal other, Africa as an icon of dangerous desire, Africa as the projection of a self never fully tameable’ (Comaroff, 2007, 197). Such assertions are so widely shared they do not even need to be proven. Furthermore, a demonstration of AIDS growth in Africa as anti-scientific as Rushton and Bogaert’s (1989), based on a pseudo-evolutionist theory arguing that Blacks are unable to control their impulses, was published in a review as prestigious as Social Science and Medicine. Subsequently, the distorted and stigmatising nature of the scholarly discourse on AIDS in Africa was highlighted (Bibeau, 1991; Vaughan, 1991). Over a decade later, such criticism is still relevant. 'Century-old stereotypes that emphasize exotic and exceptional sexuality encumber the

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attempts to understand the intensity of the HIV/AIDS epidemic’ (Stillwagon, 2003, 811). Assumptions without investigation have been made about the higher number of sexual partners but surveys have showed that people in Africa do not have more partners than Westerners.23

Challenged by this rather unflattering description, Africans have attempted to reverse the stigma: thus, South African president Thabo Mbeki rejected the association between AIDS and sexually transmitted disease on the grounds that it ‘perpetuates Western racist stereotypes — and the Euro-American propensity to use African bodies for experimentation and profit’ (Comaroff, 2007, 214). Africans’ resistance to Western attempts at controlling their sexuality is quite understandable indeed.

*Using and controlling African bodies*

African countries are increasingly used as operational fields for medical and pharmaceutical research, public health actions, and mass therapies. This trend is not new but its intensification is obvious. Via such interventions, many international organisations as well as powerful pharmaceutical firms control, or even replace existing low-resource power structures and political authorities. Hence, they are able to escape any form of control and violate current ethical rules enforced in Western countries. From the Western world’s viewpoint, bio-medical actions are justified forms of sanitary interference motivated by humanitarian emergency, poor resources, and political shortcomings (Nguyen, 2009). But viewed by those who are the targets of these actions, they generate distrust, suspicion and multiple rumours that attempt to explain such dubious condescension. Two logics are at work: an economy of resentment, whereby the past constitutes an inexhaustible reservoir of painful memory, and an economy of suspicion, whereby the present is interpreted through the lens of an intense mistrust of anyone making any claim to authority’ (Fassin, 2007: XIX). The infamous Tuskegee syphilis experiment (1932-1972), a ‘clinical trial’ that followed over four decades the natural (i.e., with no treatment) evolution of syphilis in a Black Population segment from Alabama fuelled a conspiracy theory,

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23 As shown in longitudinal studies in South Africa, Uganda and Zimbabwe, three countries with high prevalence: Todd, Cremin, McGrath and al., 2008.
according to which ‘AIDS is a form of racial genocide employed by Whites to exterminate Blacks’ (Jones, 1993, 2). Likewise, in Africa, many rumours circulate on condoms, treatments, drugs tested in clinical trials, which are all considered as vectors for conspiracies schemed by Whites to harm Africans, undermine their fecundity (Kaler, 2009) and spread diseases.

Like vaccination resisters in the Western countries (Hobson-West, 2007), people in Southern and Eastern African countries resist health technologies, such as MC, which is not supposed to cure but to prevent partially the unknown risk of a disease: surgery on a very sensitive — and symbolic — part of a sane male body. Of course, such resistance is difficult to understand and may appear illogical to researchers who have dedicated their energy studying MC, as well as to actors in charge of promoting it. While they acknowledge that health public action requires time, they have no doubts about the fact that the practice of circumcision should extend for the well being of all, as the emergency is to curb the devastating epidemic. The exceptionality of AIDS legitimises a form of therapeutic domination, reminiscent of a colonial past, which, decades after its official end, still serves as a matrix to explain the present (Nguyen & Sama, 2008; Nguyen, 2010). ‘This framing of AIDS as a humanitarian crisis is empirically justified; however doing so mobilizes a range of political and therapeutic technologies that highlight the biopolitical dimension of HIV interventions and point to how they effectively enact under the rubric of AIDS a government-by-exception’ (Nguyen, 2009, 202).

The deepening discrepancy between a policy of promoting MC in Africa and a tendency to curb its frequency in the Western world threatens to severely jeopardise its acceptance by populations for which its signification is prophylactic rather than symbolic; for these populations, it is far from obvious that health is a value superior to others (Fassin, 2007), and over which each person should exert individual control, in the name of a “biological citizenship”

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24 Notably, White doctors who infect the condoms they manufacture with the HIV virus (in the form of ‘tiny worms’) (Stadler, 2003).

25 Narratives revolving around blood abound in the rumours circulating during clinical trials, whether it is taken from young children in Ghana (Newton et al., 2009) or at a trial on the PRO 2000 microbicide (Stadler and Saethre, 2010) – where a women said: ‘We are always giving blood, we will end up having no blood at all’ (p. 349) – or, even worse, stolen during a pneumococcal vaccine trial in the Gambia (Fairhead et al., 2006).
— a corollary of Western biomedicine. ‘In the West novel practices of biological choice are taking place within a ‘regime of the self’ as a prudent yet
enterprising individual, actively shaping his or her life course through acts of choice’ (Rose and Novas, 2005, 460). In lower-resource countries where all sorts of uncontrollable dangers threaten people’s daily lives, this ‘regime of the self’ is hardly in tune with the way individuals cope with their immediate problems. Seeking to compel them to conform to this approach, and blaming them when they resist, amounts to exerting a form of symbolic violence against them.

Conclusion: A turning point, MC versus the promotion of anti HIV treatments

As is the case with other medical actions, such as vaccinations, the implementation of MC in Southern and Eastern Africa faces a number of obstacles, which we have endeavoured to highlight. Indeed, a behavioural modification as loaded with significance as MC is not easily accepted by populations for which it is alien. Those who strive to promote circumcision are animated by the best will in the world; they trust that with patience, a good strategy and an appropriate, efficient, painless technology, they will succeed in overcoming these obstacles, especially if local political authorities cooperate. However, one can understand why such acceptance by populations is not guaranteed. In countries where HIV/AIDS infection prevalence is highest, MC promoters are caught between the emergency that dictates their action and slow progress in terms of disseminating the practice. Nonetheless, epidemiological data is clear, whether in terms of prevalence in countries where circumcision is widespread or not, or in RCT results. But local political motivation is deficient, and men are recalcitrant. This situation would be difficult to grasp without using the conceptual elements we have developed, and which vividly highlight the root causes of such reluctance: reminiscences of colonial domination, stigmatisation, and strategies aimed at controlling the human body, interventions parachuted from Western countries. Moreover, how can one accept a recommendation that is simultaneously and increasingly challenged precisely in the very countries attempting to export it? Either MCs are seldom practised in Western countries or its frequency is decreasing. There
are calls to subject MC to legal restrictions or even to prohibit the practice with minors. The growing anti-circumcision movement in the United States needs to globalise its fight by opposing MC in African countries too. Equated by its advocates with deleterious female genital mutilations or to other harmful actions perpetrated on human bodies, MC is seen as reflecting the perpetuation of a primitive state of mind.

Moreover, MC is an inexpensive operation that is performed once in a lifetime. There are no profits to be made, in particular for the powerful pharmaceutical industry, whether it manufactures patented or generic drugs. On the other hand, by disseminating the therapeutic as well as preventive use (by the so-called pre-exposure prophylaxis — PrEP) of antiretroviral drugs, big pharma groups would extend considerably their market shares and profits (Greene, 2007) — even if they cut prices. They could, furthermore, count on international solidarity to finance the dissemination of anti-retroviral treatments in poor countries. Praiseworthy efforts by the Global Fund to Fight AIDS, Tuberculosis and Malaria enable increasing numbers of people in Africa to access the treatment, hence curbing the epidemic, since a properly treated person has practically no risk of transmitting HIV infection. A great number of clinical trials are currently dedicated to PrEP, which is promoted by major organisations or foundations. Many scientists believe PrEP would enable actors to drop behavioural prevention, to rehabilitate biomedicine’s primacy in the realm of AIDS, without having to wait for a hypothetical vaccine. It would indeed supplant MC. No further need to carry out arduous negotiations with human beings to lead them to control their health, just a ‘magic bullet’ that is supposed to be easily acceptable. A ‘magic bullet’, a vector of permanent power over human bodies that would, moreover, generate substantial profits. This is the hope – and probably the illusion – looming at the onset of the fourth decade of the AIDS pandemic.

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