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Understanding motives for intravaginal practices amongst Tanzanian and Ugandan women at high risk of HIV infection: The embodiment of social and cultural norms and well-being

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A B S T R A C T
Some types of intravaginal practices (IVP) may increase the risk for HIV acquisition. This is particularly worrisome for populations with dual high prevalence of HIV and IVP. Women involved in transactional sex are at increased risk for HIV infection in sub-Saharan Africa. Social, cultural and economic influences are strong drivers of IVP in this population. To explore this, we carried out a qualitative research study to investigate the drivers and motivations for using IVP within a large observational study of women at high risk of HIV in Tanzania and Uganda from September 2008 to September 2009. Of the 201 women selected, 176 women took part in a semi-structured in-depth interview. Additionally, in Tanzania, eight focus group discussions among study participants and community members were carried out to obtain information on community norms and expectations. IVP were motivated by overlapping concerns with hygiene, morality, sexual pleasure, fertility, relationship security, and economic security. These motives were driven by the need to meet cultural and social expectations of womanhood, and at the same time attend to personal well-being. Among women involved in transactional sex in East Africa, interventions aimed at modifying or eliminating IVP should attend to local cultural and social norms as well as the individual as an agent of change.

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I n t r o d u c t i o n

Intravaginal practices (IVP) are a collection of behaviours in which women modify the structure and environment of the vagina, including intravaginal cleansing and insertion of substances in the vagina (e.g. finger washing with soapy water, insertion of pulverised herbs). IVP are highly prevalent amongst women involved in transactional sex in sub-Saharan Africa (Allen et al., 2010; Fonck et al., 2001; Francis et al., 2013; McClelland et al., 2006; Nagot et al., 2007; Watson-Jones et al., 2007), and this population is also at increased risk of HIV infection (Baral et al., 2012; Kapiga et al., 2002; Valley et al., 2007; Watson-Jones et al., 2007). Over the past 15 years, there has been growing evidence of an association between some types of IVP and HIV acquisition, as well as reproductive tract infections, such as bacterial vaginosis (Low et al., 2011; Martin Hilber, Francis, et al., 2010; Myer et al., 2004). It is presumed that IVP disrupts the vaginal environment, thus increasing susceptibility to infection. Additionally, these practices may interfere with female controlled HIV prevention methods such as microbicides (Van Der Straten, Cheng, Chidanyika, De Bruyn, & Padian, 2010).

Three studies have investigated interventions to reduce or eliminate IVP: two studies in the US aimed to reduce douching; and one study in Kenya investigated the feasibility of intravaginal cleansing cessation (Grimley, Oh, Desmond, Hook, & Vermund, 2005; Klebanoff et al., 2006; Masese et al., 2012). All studies reported a reduction in vaginal cleansing or douching, although it is not known whether this reduction was maintained after the studies ended. The two US studies focused on individual behaviour change and adherence. The study in Kenya focused on individual behaviour change, and individual motivations and social support for IVP cessation.

Several studies exploring IVP in sub-Saharan Africa have revealed broad social, economic and cultural influences on IVP (Allen et al., 2010; Fonck et al., 2001; Francis et al., 2013; McClelland et al., 2006; Nagot et al., 2007; Watson-Jones et al., 2007). To explore this, we carried out a qualitative research study to investigate the drivers and motivations for using IVP within a large observational study of women at high risk of HIV in Tanzania and Uganda from September 2008 to September 2009. Of the 201 women selected, 176 women took part in a semi-structured in-depth interview. Additionally, in Tanzania, eight focus group discussions among study participants and community members were carried out to obtain information on community norms and expectations. IVP were motivated by overlapping concerns with hygiene, morality, sexual pleasure, fertility, relationship security, and economic security. These motives were driven by the need to meet cultural and social expectations of womanhood, and at the same time attend to personal well-being. Among women involved in transactional sex in East Africa, interventions aimed at modifying or eliminating IVP should attend to local cultural and social norms as well as the individual as an agent of change.

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HIV incidence among the HIV-negative participants was
facilities such as bars, nightclubs, and lodges in the capital city of
commercial sex workers (CSW) or employed in entertainment fa-
and Kahama. HIV incidence was 3.7 per 100 women-years (Kapiga
et al., 2013). In Uganda, the cohort study recruited 645 HIV negative
study have been described elsewhere (Kapiga et al., 2013;
cohort study conducted among women at increased risk of HIV in
Selection of participants

Methodology

In sub-Saharan Africa, transactional sex has been described as a
continuum from gift-giving in long-term relationships to for-
malised commercial sex work (MacPherson et al., 2012). Women
involved in transactional sex are expected by male clients to pre-
se themselves with the preferred vaginal state (Hull et al., 2011;
Lees, 2013; Martin Hilber et al., 2012). This expectation, alongside
concerns about HIV infection, may influence the frequency and
prevalence of IVP amongst women who are involved in trans-
actional sex. For example, a study in Tanzania found that cleansing
was conducted more often before transactional sex than non-
transactional sex to ensure cleanliness, and after transactional sex
to reduce the risk of HIV infection (Allen et al., 2010). Furthermore,
higher frequency of sex amongst women involved in transactional
sex has been found to be associated with more frequent intra-
vaginal cleansing and insertion (Francis et al., 2013).

In the light of the potential harm of IVP, reported high preva-
ience among women involved in transactional sex, and evidence of
broader social, cultural and economic influences on IVP, the authors
carried out a qualitative research study to explore IVP and investi-
gate motivations for IVP among participants in an observational
study in the Lake Victoria region of Tanzania and Uganda who have
been found to have high HIV incidence and high prevalence of re-
ported transactional sex. The aim of this paper is to describe the
drivers and motivations for IVP amongst these women.

Methodology

Selection of participants

Qualitative data collection was nested within an observational
cohort study conducted among women at increased risk of HIV in
Tanzania and Uganda. The methods of the observational cohort
study have been described elsewhere (Kapiga et al., 2013;
Vandepitte et al., 2011). In brief, in Tanzania the cohort study
recruited 966 HIV negative women employed in bars, guesthouses
and other food and recreational facilities in three towns adjacent to
gold or diamond mines in North–West Tanzania: Geita, Shinyanga,
and Kahama. HIV incidence was 3.7 per 100 women-years (Kapiga
et al., 2013). In Uganda, the cohort study recruited 645 HIV negative
and 382 HIV positive women who were either self-identified
commercial sex workers (CSW) or employed in entertainment fa-
cilities such as bars, nightclubs, and lodges in the capital city of
Kampala. HIV incidence among the HIV-negative participants was
3.6 per 100 women-years (Vandepitte et al., 2013). For both cohort
studies the women were followed up every three months; follow-
up in Tanzania ended after 12 months, and in Uganda is ongoing.

Qualitative research was carried out as part of a sub-study to
explore IVP in both countries (IVP Study). Consenting participants
were asked to self-complete a pictorial paper-based diary every day
for six weeks (42 days), and to participate in an in-depth interview
(IDI) at the end of this period (see Francis et al., 2013; Francis et al.,
2012). All participants were asked to only report on practices related
to intravaginal cleansing or insertion. In Tanzania, the IVP Study
randomly selected 50 women from two of the three towns (Geita
and Kahama, N = 681) at their enrolment visit. Of these, 39 and 41
completed IDIs respectively (see Fig. 1). For the IVP Study in Uganda,
101 women were enrolled by selecting every fourth participant at
any follow up visit: nine were enrolled at their three month clinic
visit, and the remainder between their 6–15 month visits. A total of
96 participants completed an IDI (see Fig. 1). In both countries,
women who did not complete an IDI were those that were lost to
follow-up. For the IVP study, data were collected from September
2008 to August 2009 in Tanzania and from June to September 2009
in Uganda. The quantitative data from the diary have been reported
elsewhere, with a prevalence of intravaginal cleansing of 96% in
Tanzania and 100% in Uganda, and a prevalence of intravaginal
insertion of 10% in Tanzania and 46% in Uganda (Francis et al., 2013).

In-depth interviews

IDIs obtained a detailed understanding of IVP reported in the
diary and explored motivations for IVP use. Several topics were
adapted from the WHO Gender, Sexuality, and Vaginal Practices
(GSVP) study questionnaire, including questions on IVP initiation,
traditional and modern influences, the nature and origin of prod-
ucts, physical results after using IVP, harmful effects from IVP, and if
the participant’s partner was aware of IVP use (Martin Hilber, Hull,
et al., 2010). In addition, women were asked about their work,
family life, sexual relationships, hygiene during menstruation, and
general bathing habits. All IDIs were conducted by female research
assistants in a private room at the cohort study clinics. In Tanzania,
all IDIs were digitally recorded with the exception of one partici-
patant who did not consent to recording and instead notes were
taken; and in Uganda, given the concerns over use of recording in
this setting, notes were taken with direct quotations noted. The
interviewers were experienced with this approach.

Focus group discussions

At the end of the study, eight FGDs were carried out in Tanzania
with female traditional healers (2), male bar patrons (2), main cohort
participants who reported intravaginal insertion (2), and main
cohort participants who reported intravaginal cleansing (2). Each
FGD included 8 to 10 participants, and main cohort participants were
selected irrespective of whether they were in the IVP study. The
FGDs were led by same-sex research assistants and took place in a
private place in a local bar or restaurant during closed hours. Topics
included prescribing with IVP (female traditional healers); male
expectations of the vaginal state and knowledge of IVP (male bar
patrons); and motives for IVP, types of IVP, stigma related to IVP and
resistance or support for changing IVP (women who reported
cleansing and insertion). All topic guides included questions on
cultural and social norms surrounding IVP and sexual relationships.

Analysis

In Tanzania, all FGDs and IDIs were conducted in Swahili,
recorded, transcribed and translated into English. An external
translator quality checked 20% of the translations. In Uganda, all FGDs and IDIs were conducted in English or Luganda, and notes were written in English. In Uganda, the IDIs were written up from notes immediately after each interview. Coding and analysis of the translated transcripts and notes of FGDs and IDIs were carried out using NVIVO version 8 (QSR International Pty Ltd., Doncaster, Australia). Demographic details from the IDI participants’ clinical interviews were imported from the main cohort study database to NVIVO.

The data analysis was guided by a framework analysis approach (Pope, Ziebland, & Mays, 2000). An initial coding structure based on the study objectives was developed a priori by authors SF and SL. The social scientists coordinating the qualitative research at the two sites (FZ and BA) were trained in NVIVO and simultaneously carried out initial coding on 10% of the transcripts before checking with each other for consistency. Following this, the coding structure was revised by SL, SF, FZ, and BA according to concepts emerging from the data. On completion of coding, SL conducted a comparative analysis across the concepts to explore themes related to motivations and drivers of IVP.

Ethical statement

The main cohort studies and the qualitative sub-study were approved by the London School of Hygiene and Tropical Medicine Ethics Committee, the Tanzanian National Institute for Medical Research Medical Research Coordinating Committee, the Science and Ethics Committee of the Ugandan Virus Research Institute and the Ugandan National Council for Science and Technology. In both sites, participants were required to give written informed consent.

Results

Tanzanian participants

Demographic data from the IDI participants’ clinical interview are reported in Table 1. In Tanzania, women attending the IDI had a mean age of 28. About half of the women had completed primary school, and a few reported never attending school. The majority of the women were Christian with the remainder being Muslim. Just over half of the women worked in bars, hotels and guesthouses, and the other half worked in other facilities such as independent food vendors (mamalishe) or small grocery stores. Age of first sex ranged from 13 to 24. Most women reported being separated, divorced or single, and relatively few women reported living with a partner. In Tanzania, 41% of the participants reported receiving money or gifts for sex in the past three months.

Further characteristics were obtained from the IDI data. Around half the women reported that they earned less than 1 US dollar a day. No data were obtained for the money earned or types of gifts given for transactional sex. The majority of women lived alone in a rented single room or in a compound at their place of work. Mamalishe were more likely to live with their family (partner and/or children), although the majority of women reported leaving their children with a relative in their home town or village to enable

| Characteristics of the Tanzanian and Ugandan IDI participants contributing to the qualitative data analysis. |
|---|---|---|
| Tanzania (n = 80) | Uganda (n = 96) |
| Age (mean years, range) | 29 (18–44) | 28 (17–51) |
| Highest level of education | | |
| Never went to school | 7 (9%) | 8 (8%) |
| Primary incomplete | 15 (19%) | 40 (42%) |
| Primary complete | 41 (52%) | 18 (19%) |
| Entered secondary (complete/incomplete) | 16 (20%) | 30 (31%) |
| Religion | | |
| Christian | 59 (75%) | 75 (78%) |
| Muslim | 20 (25%) | 21 (22%) |
| Marital status | | |
| Married | 13 (15%) | 5 (5%) |
| Separated/divorced | 38 (48%) | 67 (70%) |
| Widowed | 4 (5%) | 7 (7%) |
| Single | 24 (30%) | 17 (18%) |
| Cohabiting with a partner | | |
| No | 60 (76%) | 89 (92%) |
| Yes | 19 (24%) | 11 (11%) |
| Main employment | | |
| Commercial sex worker | 0 | 58 (60%) |
| Bar/hotel/guesthouse worker | 48 (60%) | 30 (31%) |
| Other facility worker | 31 (40%) | 8 (8%) |
| Transactional sex in the past 3 months | | |
| No | 47 (60%) | 6 (6%) |
| Yes | 32 (41%) | 90 (94%) |
| Age of first sex (mean years, range) | 17 (13–24) | 19 (8–21) |
| Total lifetime partners | | |
| 0–4 | 31 (39%) | 3 (3%) |
| 5 or more | 26 (33%) | 30 (31%) |
| Don’t remember | 22 (28%) | 63 (66%) |
| Ever forced to have sex | | |
| No | 68 (86%) | 55 (57%) |
| Yes | 11 (14%) | 41 (43%) |
them to work. Most women (71) reported at least one sexual partner. Of these, 32 women had only regular partners (defined as more than one year duration), two had both regular and casual partners, and 37 had only casual partners. Of those that reported a partner, 23% reported more than one sexual partner. Four of the women reported having experienced intimate partner violence from a previous partner.

Ugandan participants

Demographic data from the IDI participant’s clinical interview reported in Table 1 showed that the women had a mean age of 28 years. Half the women never went to school or never completed primary school. Most women were Christian. Most were separated; divorced or single, and only 11% were cohabitating with a partner. The age of first sex ranged from 8 to 21. Sixty-one per cent of women were self-identified CSW (data not shown), and 93% stated that they had received money or gifts for sex in the past three months.

Data from the IDI showed that most of the women lived in rented single rooms in the slums. Most women (86%) had children, and 19% of the women reported that they had terminated a pregnancy at least once. Of the 92 women who reported a sexual partnership: 25 had regular partners, 22 had casual partners, and 45 had both regular and casual partners. Very few women (12%) reported that their regular partners were aware of their involvement in sex work. The money women earned from sex work ranged from around US$1.5 to US$9 per client. Nearly half (43%) of the women reported having experienced both physical and psychological violence perpetrated either by their partners or male sexual clients. As well as physical violence women reported being forced to have unprotected sex.

General description of IVP

Intravaginal cleansing was reported by all women who attended an IDI, and it was seen as a normative practice rooted in ethnic and religious traditions (both Christian and Muslim). In the IDIs, participants reported cleansing daily at different times: during bathing; after toileting; and before and after sex. The most common type of cleansing was internal washing with a finger and water. Whilst the use of water was desirable, none of the women had access to running water. The use of any other substance was common, including finger and water. Substances were inserted by traditional healers, peer-to-peer, and from other women, or from their own experience: I have had a cough before I used the traditional healer who told me to do it. Sometimes I do a little bit of sand and milk. (33 year old CSW, IDI, Kampala, Uganda)

Women who reported insertion and traditional healers who supplied medicine (in Swahili, dawa) reported several different substances used. The traditional healers in Tanzania suggested that it is far more widely practiced than reported by these women. Insertion was often taught as part of initiation into womanhood, by traditional healers, or by Ssenga (literally paternal aunt in Luganda). However, in Kampala women seeking solutions to physical, sexual or emotional problems also learnt about insertion practices from female peers or through hearsay. The higher frequency of the practice among the Ugandan women also suggests that it was linked to the demands of commercial sex work (see below).

Women who reported insertion and traditional healers who supplied medicine (in Swahili, dawa) reported several different substances used. The traditional healers in Tanzania described the use of puréed herbs, leaves and roots. As well as traditional dawa, Tanzanian women reported inserting snuff (puréed tobacco), lemon leaves, cassava leaves, lemon juice, beer, Konyagi (a Tanzanian spirit similar to gin), and shabu (locally mined alum used to purify water). Substances reported by Ugandan women included traditional herbs, Coca-Cola, Omo (laundry detergent), honey, salt, beer or Vaseline. Women either inserted the substance directly in the vagina with a finger, or mixed with ghee (clarified butter) or Vaseline and inserted with a finger. Substances were inserted by the women when experiencing pain, in preparation for sex, or when prescribed by a traditional healer for sexual, relationship or health purposes. Such substances were reported to directly alter the vaginal state (e.g. tightness, removal of fluids), or to alter the behaviour of the sexual partner when contact was made during sexual intercourse (as described below).

Women reported that they were willing to stop insertion of commercial substances, particularly when hearing negative stories from other women, or from their own negative experiences:

‘And there is a medicine, I was given last year, I mixed it with snuff but it irritated me very much, and that is what made me stop inserting medicine inside the vagina.’ (36 year old Guesthouse worker, IDI, Geita, Tanzania)

Most of the women were introduced to cleansing during adolescence by a female relative, usually their mother, aunt, sister, or grandmother. Most commonly this was when they started their menstruations or were given instruction about sex or marriage:

‘My mother told me that a woman was supposed to be clean all the time; it was when I had my first menses. She showed me how to use the middle finger to cleanse inside the vagina.’ (21 year old CSW, IDI, Kampala, Uganda)

‘[My mother] told me, “once you get married you shouldn’t be dirty, when you have sex with your husband you must bathe and you must clean inside the vagina.”’ (43 year old Guesthouse worker, IDI, Geita, Tanzania)

Other women reported that they were introduced to cleansing in their twenties by peers. In particular, many of the Ugandan CSW learnt new cleansing practices from other CSW. A few women also learnt about cleansing through public health messages, either at school or in health centres:

‘It is due to biology at school, I mean according to how they taught us, how to do cleanliness.’ (20 year old Bar worker, IDI, Geita, Tanzania)

Insertion was less commonly practiced. In IDIs, only nine Tanzanian women and 37 Ugandan women reported inserting a commercial or traditional substance in the previous six weeks. The low frequency of reported insertion in Tanzania may have been due to the stigma that women attach to the practice, and FGDS with the traditional healers in Tanzania suggested that it is far more widely practiced than reported by these women. Insertion was often taught as part of initiation into womanhood, by traditional healers, or by Ssenga (literally paternal aunt in Luganda). However, in Kampala women seeking solutions to physical, sexual or emotional problems also learnt about insertion practices from female peers or through hearsay. The higher frequency of the practice among the Ugandan women also suggests that it was linked to the demands of commercial sex work (see below).

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Whilst many IVP, such as cleansing, were normative, they were highly secretive and women rarely discussed their own personal practices, even with intimate partners.

‘He doesn’t know, I mean he has never discussed whether I have cleansed inside my vagina.’ (19 year old Guesthouse worker, IDI, Kahama, Tanzania).

FGDs with the Tanzanian male bar patrons revealed that whilst none had discussed IVP with their partners, men were aware of IVP. They suspected that women carry out IVP, particularly cleansing and insertion of substances, to secure and maintain sexual relationships. This secrecy was maintained by traditional healers who emphasised that the herbs they provide for insertion in the vagina were not detectable by men, and these herbs were effective because of the secrecy. The secrecy surrounding IVP often led to suspicion and distrust between women and men, especially if the women’s post-sexual cleansing implied that the man was dirty or infectious:

‘…he challenged me as to why I was washing after having sex. I told him that I feel that my whole body smells, and I feel drier when I bathe and sleep comfortably. He said it is impossible for me to be bathed [at night] … he felt as if I am stigmatizing him or perhaps that I will leave him at any time.’ (39 year old Mama-lishe, IDI, Geita, Tanzania)

Motivations as embodiment of cultural and social norms and subjective well being

During the IDIs, women revealed that IVP were influenced by a number of overlapping motives including hygiene, morality, sexual pleasure, fertility, relationship security, and economic security; thus, one type of IVP may serve more than one motivation at the same time. Additionally, these motivations were strongly influenced by two drivers: cultural and social norms and subjective well-being (see Fig. 2, adapted from Martin Hilber et al. 2012). In this way, IVP embodied norms of womanhood surrounding their well-being (see Fig. 2, adapted from Martin Hilber et al., 2012). In this way, IVP embodied norms of womanhood surrounding their moral, sexual, and reproductive roles in society. At the same time, women using IVP were attending to their personal emotional, economic, and physical state, including concerns with the transactional aspect of sex and HIV infection. Below, each motivation is shown to simultaneously address both drivers.

Hygiene

For both the Tanzanian and Ugandan women the main purpose of vaginal cleansing and the insertion of substances was to remove dirt (Swahili - Uchafo and Luganda – Obukyafu). ‘Dirt’ refers to menstrual blood, vaginal discharge and fluids (in Swahili, majinajit) produced during sex, including vaginal fluids, semen or lubrication from condoms:

‘That dirt, even that of the condom, remains there [after sex] so I have to remove it.’ (20 year old Bar worker, IDI, Geita, Tanzania)

Hygiene was also important to women’s own sense of well-being, to treat vaginal infection or discomfort or prevent HIV infection. Some women also inserted herbs to treat vaginal symptoms:

‘I use soap to clean inside the vagina in order to protect myself against HIV infection.’ (23 year old Guesthouse worker, IDI, Kahama, Tanzania)

‘When I started itching my aunt picked herbs for me and she told me to boil them with water and cleanse afterwards when the solution was still warm, then I got better.’ (22 year old CSW, IDI, Kampala, Uganda)

Morality

Both women and men participants emphasised that the ideal state of the vagina is “virgin-like” (in Swahili, kama bikra). This state embodies women’s physical and moral cleanliness:

‘The vagina should tighten so that the man may not discover… how many men she has [just] had sex with. She makes it narrow, she pulls it, she washes with cold water and it returns to its normal condition.’ (Cleansing FGD, Geita, Tanzania)

‘…if you insert herbs for tightening, it will be very hard for your partner to tell that you have just slept with another man.’ (27 year old CSW, IDI, Kahama, Uganda)

Ugandan women especially reported the use of commercial substances to enhance this virgin-like state. This included inserting shabu, Coca-Cola, or detergents used for washing clothes:

‘For instance there is a white powder [shabu] that women insert; it makes the vagina very tight.’ (35 year old CSW, IDI, Kampala, Uganda)

The FGD with Tanzanian male bar patrons highlighted the social pressures on women to ensure a virgin-like state, which the men described as lack of excessive fluid but not too dry, and free from smell and dirt. Smell was a particularly important concern for the men, which they associated with immorality:

‘Once you notice a smell you cannot do that [sex] act with excitement, you will do it whilst angry. Whether you paid for that or your partner decided to give you for free, if you find her dirty you will go ahead and do it two times or just once and then you leave for other activities.’ (Male bar patron FGD, Kahama, Tanzania)

Social moral norms of womanhood were strongly apparent, and women internalised these by reporting their own personal feelings of disgust and shame, and how this affected their perception of well-being:
Sexual pleasure

IVP were also conducted to enhance sexual pleasure. Teachings from older women (or peers) emphasised to these women the importance of cleansing and tightening their vaginas to ensure pleasure for the men. There was, however, an emphasis by many women that cleanliness also enhanced their own sexual pleasure, and this was important for their well-being:

‘...when I clean inside the vagina, definitely I feel a change. ...I mean something like a certain excitement.’ (22 year old Mamalishe, IDI, Geita, Tanzania)

‘That pleasure of being able to receive him...if I have washed inside the vagina in preparation to receive my husband, I feel pleasurable.’ (31 year old Guesthouse worker, IDI, Kahama, Tanzania)

Some women also reported inserting snuff or traditional herbs to enhance their own sexual pleasure. Although one other woman noted that:

‘You know this snuff, some people feel sexual desire [but] when you insert it, even if you had planned to have sex, the desire diminishes.’ (36 year old Guesthouse worker, IDI, Geita, Tanzania)

Treatment for fertility and pelvic pain

Fertility was discussed as an important aspect of womanhood, and women’s concerns about pain in relation to their sexual and reproductive organs were important motivators for IVP. In Tanzania, mchango refers to lower abdominal cramp, which may or may not be menstrual. Several women were advised to treat mchango by inserting snuff into the vagina every day until the pain eased. In Uganda, women reported inserting Coca-Cola to treat bruises and sores resulting from rough sexual intercourse. Other women reported inserting commercially available gels before sex to lubricate the vagina in order to reduce painful sex:

‘...naturally I don’t have vaginal fluid, what I do is use the gel to smooth the vagina and to prevent the pain that I might get when having sex.’ (34 year old, CSW, IDI, Kampala, Uganda)

These practices were the most secretive and were strongly rooted in tradition. In Tanzania, traditional healers provide herbs for mchango, which was seen to prevent conception or cause infertility. To treat mchango traditional healers provided women with snuff mixed with ghee to insert into the vagina or herbs for ingestion. The traditional healers also treat infertility by removing evil spirits (in Swahili, majini) who prevent conception. Islamic healers remove majini by reading a specific text from the Quran or non-Islamic healers use drumming (in Swahili, kupunga) to drive out the spirits.

Economic security

Transactional sex, whether through casual encounters or commercial sex work, was an important means of securing income for these women and contributed to their financial well-being. Most of the women were aware that such sexual encounters put them at risk of HIV, and cleansed after sex to minimise their risk of infection.

Whilst men were aware that women involved in transactional or commercial sex have other sexual partners, normative expectations of a clean and chaste woman influenced their desires. The Ugandan CSW and some Ugandan and Tanzanian facility workers were explicit in discussing the importance of ‘being desirable’ as a way to attract clients to make money. This involves ensuring cleanliness and the virgin-like state, as discussed above:

‘...if you are going to have sex with a man you are supposed to cleanse, you go there when you are clean, it [the vagina] becomes attractive’ (27 year old Bar worker, IDI, Geita, Tanzania).

As well as cleansing to remove dirt and insertion to tighten the vagina, women reported using herbs or commercial substances to stop the flow of menses before transactional sex, as men were unwilling to have sex with menstruating women:

“One day, my friend came to pick me up to go to the street and I told her I was menstruating and she told me to insert soda [a aerated drink] to stop the blood. I did it and no blood came out; I had sex, got money and went back home.” (31 year old CSW, IDI, Kampala, Uganda)

Herbs are also provided by traditional healers for insertion to enhance a woman’s attractiveness. As one Uganda sex worker said ‘You may at times look unpleasant to the customers but if you use these herbs, they will become attracted to you.’ (34 years old CSW, IDI, Kampala, Uganda)

Relationship security

Whilst economic needs drove many of the women’s relationships with men, women also talked about their desire for supportive and loving relationships. Such relationships were reported as important for their well-being. However, the means to secure these relationships were often derived through traditional practices, which drew on ideas of women’s sexual power over men. Such traditional practices, prescribed by traditional healers, involve the insertion of herbs into the vagina with the aim of affecting the man during sexual intercourse. The desired effect is to secure a relationship with a new partner, to ensure love and fidelity, or to reduce discord in on-going relationships. For example, one Ugandan woman reported that her grandmother taught her to prepare a herbal mixture to ensure that her husband remained faithful and stop beating her:

‘I only insert it when I am going to have sex with him...I insert the herbs and have sex when the herbs are still there and thereafter, I remove the herbs and mix them in his food...and we have now settled our arguments after giving him this love potion.’ (22 year old CSW, IDI, Kampala, Uganda)

Discussion

This study has reported qualitative findings on intravaginal cleansing and insertion practices among women living in urban and peri-urban environments involved in transactional sex, either as their main source of income or as a supplement to other sources of income, and represent a continuum of transactional sex (MacPherson et al., 2012). We aimed to describe, IVP and motivations for this population. Findings from this study revealed that IVP were influenced by a number of overlapping motives including hygiene, morality, sexual pleasure, fertility, relationship...
vaginas are mirrored in local discourses on morally "dirty" fluids linked with reproduction become "dangerous and polluting" when they are of no further use (p. 628). Amongst the participants in this study, including male bar patrons from FGDs, vaginal wetness also indicates moral "dirtyness", indicating that a woman is unfaithful or promiscuous. Leclerc-Madlala (2002) also found that amongst the Zulu "associations of "wet" and "loose" vaginas are mirrored in local discourses on morally "loose" women" (p. 14). Thus, the dirt removing practices of the women in our study, either through cleansing internally with finger, cloth, water with or without soap, or insertion of cleansing products, enabled them to present themselves as physically and morally clean, and fulfill social and cultural norms surrounding womanhood in these contexts. Women's concerns with fertility were also a motivation for IVP, as well as the reduction of pelvic pain. Participants were also motivated to use IVP to address concerns about sexuality. Whilst IVP practices to tighten and present a virgin-like state were done to enhance male sexual pleasure, women also cleansed and inserted substances to enhance their own sexual pleasure. This contrasts with other studies in Mozambique and South Africa that suggest that women's motives for vaginal practices only focus on sexual pleasure for men (Braunstein & van der Wijgert, 2003; Scorgie et al., 2009). Bagnol and Mariano (2008) also note, however, that vaginal practices amongst Mozambican women affect sexual wellbeing, which was seen as "a view of having a pleasurable and successful sexual encounter" (p. 583). For the women in Mozambique “success” was understood as the conception of a child (Bagnol & Mariano, 2008). For the women in our study, "success" was described as involving a complexity of desirability and sexual pleasure driven by social rules and economic needs. Ethnographic work with similar women in Mwanza City has revealed a rejection of traditional ideas of men's control over women's sexuality and a wish for sexual freedom, albeit within prevailing moral ideas of the respectable woman (Lees, 2013).

IVP also addressed women's concerns with securing and maintaining relationships. The use of substances in the vagina to manipulate human relations is not unique to the women of Tanzania and Uganda. Bagnol and Mariano (2008) reported similar ideas among women in Mozambique and suggested that their actions were 'part of an ongoing effort to transform the world around them or to seek to ensure balance and harmony' (p. 583). Scorgie et al. (2009) found that vaginal practices among Zulu women provided a means to take control of a relationship and ensure fidelity. In our study, an important aspect of manipulating human relations was to ensure attraction, love, and fidelity through the secret insertion of substances prescribed by a traditional healer. The use of "love potions" has been described in detail by Wickström (2008); Love potions for the Zulu offer one way to "do love", to strengthen a relationship or win somebody's love, which is both a possibility and a threat in people's lives' (Wickström, 2008, p. 47). For these women, it was trust and fidelity that women sought and the ensuing security of a relationship that IVP provided. Thus, certain IVP drew on traditional practices and a cosmological view that human relationships can be manipulated.

**Adaptation of IVP to reduce harm**

In light of the growing evidence around the link between IVP and HIV risk, there are concerns within the HIV prevention research community that women may need to adapt some types of IVP, such as reducing the insertion of substances which may harm the vaginal epithelium (Martin Hilber, Chersich, van de Wijgert, Rees, & Temmerman, 2007). In a systematic review of meanings and motivation of vaginal practices, Martin Hilber et al. (2012) found that in a range of contexts women adapt IVP to their needs and circumstances. This supports our findings that women in Tanzania and Uganda have adapted their practices, particularly to address their subjective well-being: participants were concerned about their health, and therefore cleansed to avoid reproductive tract infections and HIV acquisition. The findings reveal that economic motives also provide a stimulus for adapting IVP in this population as women must attract and maintain sexual partners with the "preferred vaginal state", whilst protecting themselves from infection.

Many women reported willingness to eliminate the use of soaps or other potentially harmful substances if advised by health workers; however, they may be more resistant to eliminating all types of IVP especially those associated with deep cultural and social norms of womanhood. The variety of different products to enhance sexuality and sexual health used between Tanzania and Uganda has provided further evidence that IVP could be adapted. Women chose products based on availability, but also by highly localised notions of effectiveness and peer recommendations (i.e. hearsay). In many cases this led to the use of substances that were never intended for IVP; such as snuff, Coca-Cola and shabu. However, women may be willing to replace a "harmful" practice with another type of IVP that addresses the same motivation. Importantly, interventions that address cultural and social norms, for example by collaborating with older experienced women or traditional healers, or the use of a peer educator programme or social marketing, may be able to provide further support for a modification of IVP in this population.
A limitation of this study was that IVP is a sensitive behaviour and therefore participant responses may have been subject to social desirability bias. This bias may have been magnified because the IDI took place within the study clinics where participants may have received messages from cohort clinic staff about avoiding potentially harmful vaginal practices, or that simply being in a study about IVP changed IVP behaviour, that is the Hawthorne effect (McCarney et al., 2007). This may have been especially so with insertion, which was rarely reported in Tanzania. It must also be noted that reports by traditional healers suggesting that insertion was more widespread in Tanzania may also be biased given that their livelihood depends in part on prescribing products for insertion.

Conclusion

In this population, interventions aimed at modifying, reducing or eliminating IVP should attend to overarching cultural and social norms and economic drivers in addition to individual behaviour change and adherence. Interventions that encourage IVP cessation may bias reporting on IVP, and may not have a long-term robust effect. Alternatively, interventions that take account of these norms and drivers could encourage women to cleanse with plain water as an alternative to other potentially harmful substances, and engage key community members (e.g. experienced older women or traditional healers) to support the intervention. Additionally, in the context of microbiocide intervention studies, women participating in a clinical trial could be encouraged to delay cleansing after sex (rather than eliminate cleansing) if microbiocide efficacy depends on the product remaining in the vagina for a period of time after sex.

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