"Let's talk about sex": A qualitative study of Rwandan adolescents' views on sex and HIV

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Introduction

Thanks to the widespread availability of combination antiretroviral therapy (cART) in developing countries, HIV-associated mortality in children in sub-Saharan Africa has dropped significantly [1–6]. Therefore, children with perinatally acquired HIV are living longer, maturing into adolescence and becoming sexually active [7, 8]. Studies from both resource-rich (USA and Canada) and resource-poor (Uganda) countries have shown that most perinatally-infected adolescents know their HIV status by the time they are 12 years of age and that over 80% have their first sexual experience knowing that they are HIV infected [7–9]. Subsequently, in addition to coping with the normal stresses of adolescence, they have to deal with several complexities related to HIV. Such complexities include a diminished sense of sexual attractiveness, anxiety about HIV transmission, fear of getting pregnant and having an HIV infected child, and the dilemma of disclosing or not disclosing to (potential) sexual partners [10–12]. HIV-positive adolescents are therefore challenged with balancing
In the African setting, sex and sexuality are rarely discussed [14, 15]. A study [16] in Tanzania and South Africa indicated that nearly half of HIV-infected adolescents had never talked about sexuality with their parents, adult family members or teachers. Poor parent child communication may be associated with risky sexual behavior [17]. Furthermore, most national counseling programs emphasize abstinence, and the provision of condoms is often prohibited in schools despite evidence that some adolescents are sexually active [18–20]. A survey in Uganda found that counseling for HIV-positive adolescents focused entirely on abstinence even though 35% of the youth reported being sexually active and 86% of those who had not yet had sex were planning to do so [21].

To better understand these challenges in our own research setting in Kigali, Rwanda, we conducted a qualitative study with adolescents who had been perinatally infected with HIV and were participating in a prospective cohort study evaluating various aspects of cART.

Methods

Data collection

Study participants were selected from a total of 179 HIV-infected adolescents, aged 12–21 years, aware of their HIV status, who were participating in a prospective cohort study at the HIV outpatient clinic of the Institute of HIV/AIDS and Disease Prevention and Control (IHDPC, formerly TRACPlus) in Kigali. At the time of the study, approximately 600 children and adolescents were receiving care at the TRACPlus clinic, including 444 receiving cART. Of those on cART, 384 had been receiving treatment for over 12 months and 179 of the 384 were over 12 years of age. We contacted the primary caregivers of 89 adolescents who scheduled clinic visits within the two-month time period of this qualitative study. All adolescents who were interested and available, and whose primary caregivers provided consent/assent (see below) were enrolled (n = 42). The study took place from October to November 2010, which was a school break period, to reduce the number of adolescents away at boarding school. The primary caregivers were known by clinic staff, and included parents, other family members and foster care guardians.

All study procedures were conducted in private rooms in a recreational facility several kilometers from the HIV clinic to maximize confidentiality and comfort. Adolescents participated in either a two or 3 day-long mixed-gender workshop (each workshop included a different group of adolescents; total n = 42) and a selection of caregivers participated in one mixed-gender FGD (n = 10). There were two 2-day workshops and one 3-day workshop. The workshops (referred to as FGD-1, 2 and 3) were divided into sessions by discussion topic and included the following topics: Learning one’s own HIV status (disclosure), disclosure to others and related-stigma, issues related to care, treatment, and adherence, health-seeking behaviors and social support, as well as issues about children, relationships, sexual relations, and future desires. Each session started with a role-play, followed by a discussion. The purpose of the role-plays was to focus the adolescents on a topic, make them feel more comfortable with the topic and each other, and to stimulate reactions. In addition, a total of 8 in-depth interviews (IDIs) with adolescents were conducted to minimize the possibility that important information was missed due to group dynamics.

The workshops were moderated by one trained male or female moderator using a topic guide. The moderators knew the adolescents prior to this research project. The moderators were assisted by a notetaker and a study staff member in charge of the tape-recording. The IDIs were conducted by a different interviewer, who had not been part of the workshops. Participants used nicknames instead of their real names during FGDs and IDIs. The interviews were digitally recorded in Kinyarwanda, transcribed verbatim, translated from Kinyarwanda into English, and uploaded into ATLAS.ti for analysis.

Ethics Statement

The Rwandan National Ethics Committee and National AIDS Control Program approved this research. All caregivers gave written informed consent for the adolescents and for themselves (if participating in a FGD themselves), and all adolescents gave written assent (the age of consent in Rwanda is 21). The participants received the equivalent of about 7 US dollar in local currency as a reimbursement for transport and time.

Data analysis

The IDIs and FGDs were first coded in ATLAS.ti using framework analysis, a process described by Krueger and Casey [22], in which a list of categories was derived after multiple readings of the data. In order to understand issues related to sexuality and future relationships, thematic analysis was used to regroup the codes into broader themes. We recoded and regrouped the entire dataset in successive returns to the data, based not only on the original codes but also on emergent codes. The data were coded first into two umbrella areas: 'sexuality' and 'future'. The umbrella areas were further investigated and four themes emerged: 1) talk about sex; 2) disclosure in relation to sex, love and marriage; 3) children; and 4) hope for the future. All of these themes were inter-related.

Results

Thirty-two of the 89 participants could not be contacted and 9 refused to participate. The two main reasons for refusal were that adolescents did not want to attend more clinic visits or were physically outside of Kigali during the study period. No adolescent stated that they did not want to participate due to the sensitive nature of the topics. Six adolescents were given appointments but did not attend the study workshops. The remaining 42 adolescents were included in the study. All of the adolescents reported that they were HIV-infected perinatally, which was confirmed by their caregivers. About half (48%) of the adolescents reported going for HIV testing as a child because of illness or death of one of their parents, 33% because they felt sick, the remaining (19%) underwent an HIV test because of illness or death of a sibling. All were on cART for at least 12 months and the median duration of cART was 5 years (ranging from 3 to 6 years).

The median age of the adolescents was 17 years (ranging from 12 to 21 years), 45% were females, 45% were orphans, and none were married. The primary caregivers who participated in the FGD included 6 biological parents, two other family members and two foster parents. There were 6 women and 4 men included in the primary caregiver FGD.

Let's talk about sex

During the FGDs and IDIs, the adolescents had much to say about many aspects of sex: from sexual education to feelings about and consequences of sex. Adolescents often discussed extramarital sex using words with negative connotations, such as ubasambanyi, which is a derogative term for premarital sexual behavior and
sexual affairs outside of marriage (Table 1, Quote 1). Ubusanban-nyi was also associated with negative consequences of sex such as acquiring HIV or other sexually transmitted infections (STIs). However, when discussing sex in the context of marriage or children, attitudes were more positive.

Adolescents received information about sex from a variety of sources (school, home, church, and peers) as well as from personal experience. Most adolescents felt that they were receiving sufficient sex education from clinic staff and/or at school, but there were mixed opinions about the amount and quality of the sex education provided by parents and caregivers. These opinions ranged from adequate sex education, to limited advice, to no information at all. In general, adolescents wanted advice from their caregivers on topics related to sex before marriage, and how and when to disclose their HIV status to (potential) sexual or marriage partners. However, although some adolescents said that they were able to speak to their caregivers about these issues, many said that they were not. Furthermore, discussions with caregivers about condom use were often avoided due to the widespread belief that condom education promotes premarital sex (Table 1, Quote 2). Adolescents felt that it is the responsibility of teachers and caregivers. These opinions ranged from adequate sex education, to limited advice, to no information at all. In general, adolescents wanted advice from their caregivers on topics related to sex before marriage, and how and when to disclose their HIV status to (potential) sexual or marriage partners. However, although some adolescents said that they were able to speak to their caregivers about these issues, many said that they were not. Furthermore, discussions with caregivers about condom use were often avoided due to the widespread belief that condom education promotes premarital sex (Table 1, Quote 2).

Adolescents were aware of the ways in which HIV and other STIs can be transmitted, and most knew that HIV transmission could be prevented by abstinence or using condoms. In general they also knew how to use condoms, though stated several reasons why they are often not used: reduced sensation, fear of losing the condom inside the partner, lack of accessibility, and the shame involved in buying condoms. It was not clear whether this was based on hearsay or actual experience. Adolescents discussed that having unsafe sex might lead to STIs, opportunistic infections and increased HIV viral load. For example, one participant said he opted to abstain from sex, even though he experienced a physical need for it, because he was afraid that sex would make his HIV infection worse (Table 1, Quote 3). This physical need for sex was something that the adolescents were beginning to experience or that they learned from their peers. One adolescent in FGD-2 explained that this desire was similar “to crazy dogs in a village that cannot be controlled.” The adolescents clearly struggled with this physical need for sex and the knowledge that premarital sex is considered unacceptable and could lead to HIV transmission, HIV disease progression and other STIs.

Adolescents also spoke about the sexual behaviors of others; they spoke in third-person in reference to watching pornographic films and having sex at different times and in various places. It emerged that some adolescents thought that their HIV-negative peers engaged in more sex and had riskier sexual behavior (e.g. sleeping with sex workers) than their HIV-positive peers. In addition, the adolescents acknowledged that commercial sex exists, and discussed the types of people that they thought become involved in it: the poor or those lacking sex education (Table 1, Quote 4). There was minimal talk about people intentionally infecting others with HIV, but it was mentioned briefly in three of the four FGDs (including the caregivers FGD). The comments were not about actual cases but about hypothetical cases. It was typically discussed in the context of not accepting one’s HIV status and intentionally not using condoms (Table 1, Quote 5).

HIV and disclosure in the context of sex, love, and marriage

Adolescents spoke about future partnerships mostly in terms of marriage and the sero-status of the person they envisioned marrying (i.e. HIV-positive or negative). Some adolescents said that they would prefer to marry another person with HIV, because both partners would experience similar problems related to HIV (Table 2, Quote 1). Others spoke about how they might fall in love with someone who is not infected with HIV (Table 2, Quote 2). Most adolescents felt that they had a right to love and be loved, and that love does not discriminate against HIV. “I would like to reassure you that every one of you has the right to love or be loved. Love is something very important” (Participant from FGD-2). Overall, the adolescents felt that love was an important part of marriage. Yet, some of them worried that even if their partner loved them, he or she may not want to marry them after learning

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**Table 1.** Quotes regarding talking about sex.

| Quote 1 | Young people are generally threatened by epidemics but due to their mentality, they...get involved in hideous behaviors under the pretext that they will seek treatment if they acquire any infection... they easily get involved in disgusting deeds. (Participant FGD-3) |
| Quote 2 | Discussion between two participants from FGD-2 regarding condom use and the promotion of premarital sex behavior: ... when a parent tells you about the condom s/he indirectly gives you the right to have premarital sex, everybody our age learns it in primary six that having premarital sex is bad and has consequences...What I wish is that parents should teach their children about abstinence but I do not support the idea of condom. |
| Quote 3 | My mum is a devoted religious person, she says that sex is a sin and she is averse to condoms. You cannot talk about it with her...I do not know if she even knows it exists. There are parents with whom you cannot talk about condom use, they say you are already a sinner. |
| Quote 4 | If you consider prostitutes, you will find out that most of them are poor people...As for the young lady who joins prostitution while she belongs to a rich family, it is the case of a child who did not have the chance to talk about reproductive health by her parents. |
| Quote 5 | Some say 'it is not my mistake, if I infect somebody I do not care'. I see it at work, you pay all your attention so that you do not get infected or do not infect...some other people say 'let me infect this one, after all, it was not my mistake'. (Participant parent FGD) |

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[Note: The text contains multiple instances of Table 1 without a corresponding table structure in the provided content. It is essential to ensure that all necessary data is represented accurately and clearly in the text.]
about the HIV status. The caregivers, however, seemed confident that their children would marry (Table 2, Quote 3).

Some adolescents said that one should not disclose one’s HIV status unless there are marriage plans because it could be detrimental to the relationship (Table 2, Quote 4). Further, one’s “love career” may be ruined if one disclosed to casual partners (Table 2, Quote 5). Overall, adolescents agreed that disclosure to marriage partners is important, but opinions about boy/girlfriends were mixed: “I really beg you, do not tell your boy/girlfriend that you are infected if s/he is not planning to get married to you. Yes, you should tell the truth, but not to anybody. Nobody here is going to get married now, do not go telling your boy/girlfriend in order to gain more affection or confidence from him/her. You may ruin your love career.” (Participant FGD-2).

Desire to have children

The main worry about having biological children was the risk of passing HIV on to them. Some adolescents spoke about adoption as an alternative (Table 3, Quote 1); two participants declared that they would avoid having children altogether because of their HIV status. In quote 2 (Table 3), one participant was worried about having HIV-infected children and another participant reassured her/him not to worry about it because prevention of mother to child transmission (PMTCT) strategies are available in Rwanda. The adolescents were well aware of the availability of PMTCT options, which gave them hope about having biological children in the future (Table 3, Quote 3). Some adolescents put religious ideas before the fear of having infected children: the Bible says that one should get married and have children, and they thought that that edict should be followed.

Hope for the future

Generally, the adolescents spoke about their future role in society, especially regarding education and career, in a positive manner, because each person is “the hope for future Rwanda, [we] are the future leaders of this country, there is no reason for losing hope to the extent of denying [ourselves] chances of education” (Participant from FGD-2). Despite this, they were aware that HIV is still stigmatized and that there would be challenges. For example, one adolescent discussed inability to work due to illness, saying “Sometimes he is discouraged with studies to the extent of saying ‘what am I studying for?’ … And he makes efforts, but he keeps thinking about himself and the problems of the illness he has, and does not do well in class.” Some adolescents also expressed loss of hope for the future for other reasons, such as not succeeding in finding a marriage partner, or not being able to have children for fear of transmitting HIV to these children, as discussed above.

Discussion

Being born with HIV brings additional challenges to adolescence, especially around the time of sexual debut and when facing disclosure to potential sexual and marriage partners. Overall, adolescents in this study felt that they experienced similar sexual needs and dilemmas (e.g. condom negotiation) as most other adolescents, but with an added layer of complexity due to fears related to HIV transmission or rejection. Adolescents desired more advice from their parents or caregivers on these topics. Although they struggled with aspects of sex, love, marriage and having children, most agreed that they would find love, be married and have children in the future.

Studies conducted in Zambia [23] and Uganda [24] also found that HIV-positive adolescents expect a future that includes the same educational and career opportunities as their non-HIV infected peers, as well as marriage and having children. However, a study in Zimbabwe reported that feelings of despair, hopelessness and sense of imminent death are common among young people infected with HIV [25]. The adolescents in our study, as well as adolescents in Kenya, Namibia, and other Sub Saharan African countries, expressed the need for more life skills education and training to cope with the complexities related to sex and disclosure to sexual partners, especially from parents or caregivers [24,26–28]. However, in Uganda, parents and caregivers expressed the communication difficulties related to sexuality, understanding adolescents’ behavior, imparting life skills, and supporting
adolescents to disclose their HIV status or live responsibly in a situation of non-disclosure [29].

Earlier studies have found that disclosing HIV status to a sexual partner often results in negative outcomes such as rejection by romantic partners and/or the community and stigma [30, 31]. Previous rejection, fear of rejection, and thinking about partner perceptions have often been reported as barriers for disclosing HIV status to the sexual partner [31, 32]. WHO recognizes disclosure as a complicated issue and recommends that “adolescents be counselled about the potential benefits and risks of disclosure of their HIV status and empowered and supported to determine if, when, how and to whom to disclose” [33]. However, these guidelines do not provide concrete recommendations on when and how to disclose to sexual partners.

Our study had two main limitations. First, it was difficult to differentiate between actual experiences and hearsay in the group discussions. For example, it was often not clear whether the adolescents themselves were sexually active and whether they had disclosed their HIV status to sexual partners or not. We assume that some but not all of the adolescents had been sexually active themselves, and even if they had been, that their real life experiences were limited. Second, the participants were receiving cART treatment in the capital city Kigali, and were research-experienced; they might therefore not be representative of all HIV-positive adolescents in Rwanda.

Our findings have important implications for HIV prevention as well as HIV treatment and care programming in Rwanda. Strengthening the life skills of HIV-positive adolescents, as well as HIV treatment and care programming in Rwanda.

References


Author Contributions

Conceived and designed the experiments: PRM EK JV RP PR SPG JVDW KRB. Performed the experiments: PRM JR CK KRB. Analyzed the data: JIVN PRM BAK EK KRB. Wrote the paper: JIVN PRM BAK EK JV RP PR SPG JVDW KRB. Analyzed the data: JIVN PRM BAK EK KRB. Performed the experiments: PRM JR CK KRB. Wrote the paper: JIVN PRM BAK EK JV RP PR SPG JVDW KRB.

Table 3. Quotes regarding the desire to have children.

<table>
<thead>
<tr>
<th>Quote 1</th>
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<tbody>
<tr>
<td>But as for having children, I think it is a very difficult problem for me. I wonder if any child I deliver will not be like me, That is the reason why I would prefer to adopt a child whom I can raise together with my partner. (Participant FGD-1)</td>
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<th>Quote 2</th>
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<tr>
<td>Though I no longer think of it, I sometimes wonder if I will get married and my child will have the same problem I have [HIV-infected] and also suffer in this world. With my child asking me ‘what’s up mum?’ Always troubling me. Or, will I get married and keep relaxing only with my husband without having children? I would like to convince [another participant] that she should get married, because it is written in the Bible ‘have children and multiply’. God did not say ‘do not get married’! Thus, she has to create and idea of her future in her mind, without considering that the child may also get sick. (Participants FGD-2)</td>
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<th>Quote 3</th>
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<td>…since this protection [PMTCT] is possible today, there is no reason to say we will not have children…there is a possibility for a mother to give birth to an uninfected child, I think that when it’s time for us to have children there will be more possibilities. I think there is no reason of not having children. (Participant FGD-2)</td>
</tr>
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</table>

doi:10.1371/journal.pone.0102933.t003
30. Battles HB, Wiener LS (2006) Don’t tell him you have HIV unless he’s ‘the one”: romantic relationships among adolescents and young adults with perinatal HIV infection. AIDS Patient Care STDS 20(12): 746–754.