Intimate partner violence experienced by HIV-infected pregnant women in South Africa: a cross-sectional study

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ABSTRACT

Objectives: Intimate partner violence (IPV) during pregnancy may be common in settings where HIV is prevalent but there are few data on IPV in populations of HIV-infected pregnant women in Southern Africa. We examined the prevalence and correlates of IPV among HIV-infected pregnant women.

Setting: A primary care antenatal clinic in Cape Town, South Africa.

Participants: 623 consecutive HIV-infected pregnant women initiating lifelong antiretroviral therapy.

Measures: IPV, depression, substance use and psychological distress were assessed using the 13-item WHO Violence Against Women questionnaire, the Edinburgh Postnatal Depression Scale (EPDS), Alcohol and Drug Use Disorders Identification Tests (AUDIT/DUDIT) and the Kessler 10 (K-10) scale, respectively.

Results: The median age in the sample was 28 years, 97% of women reported being in a relationship, and 70% of women reported not discussing and/or agreeing on pregnancy intentions before conception. 21% of women (n=132) reported experiencing ≥1 act of IPV in the past 12 months, including emotional (15%), physical (15%) and sexual violence (2%). Of those reporting any IPV (n=132), 48% reported experiencing 2 or more types. Emotional and physical violence was most prevalent among women aged 18–24 years, while sexual violence was most commonly reported among women aged 25–29 years. Reported IPV was less likely among married women, and women who experienced IPV were more likely to score above threshold for substance use, depression and psychological distress. In addition, women who reported not discussing and/or not agreeing on pregnancy intentions with their partner prior to conception were significantly more likely to experience violence.

Conclusions: HIV-infected pregnant women in the study reported experiencing multiple forms of IPV. While the impact of IPV on maternal and child health outcomes in the context of HIV infection requires further research attention, IPV screening and support services should be considered within the package of routine care for HIV-infected pregnant women.

Trial registration number: NCT01933477.

Strengths and limitations of this study

- The experiences and correlates of intimate partner violence among HIV-infected pregnant women are not well documented, particularly in sub-Saharan African populations.
- These data demonstrate persistent associations of intimate partner violence with mental health concerns, substance abuse and unplanned pregnancy in this population.
- However, the data are cross-sectional, and thus the temporal nature of these associations requires additional investigation.

BACKGROUND

Intimate partner violence (IPV) is a major public health concern globally and is associated with negative consequences for victims’ physical, mental and reproductive health. Defined as any behaviour within an intimate relationship that causes physical, psychological or sexual harm to those in the relationship, the prevalence of physical and/or sexual IPV among women in sub-Saharan Africa is commonly estimated to be over 30%.1

IPV is associated with a number of negative health sequelae, including psychological distress, alcohol and drug use, unintended pregnancy and an increased risk of HIV infection.2–6 In South Africa, experiences of violence appear to be associated with increased sexual risk behaviours and HIV infection.7–10 However, while most research has focused on the role of IPV in HIV acquisition, IPV experienced by HIV-infected women warrants particular attention, as IPV and its correlates may play an important role in women’s ability to adhere to antiretroviral therapy (ART) both during pregnancy and postpartum.11–14

IPV is of particular concern in the context of pregnancy, and the prevalence of physical IPV during pregnancy has been estimated at
up to 28% globally. While the effect of pregnancy on the risk of IPV is debated, several studies have suggested that in some settings pregnancy may increase IPV possibly related to psychosocial and/or economic stressors introduced by unintended pregnancy. One recent study from Durban, South Africa, reported on changes in IPV experiences during pregnancy and postpartum, and found levels correlated with specific characteristics of relationships. Yet there remain few insights into how diagnosis of HIV status, psychosocial factors, pregnancy intentions and partner involvement in pregnancy planning may be associated with experiences of IPV in pregnancy among HIV-infected women.

Despite the important potential interactions between pregnancy, IPV and HIV, data on IPV in HIV-infected pregnant women are few. We examined the prevalence and correlates of IPV among HIV-infected women seeking antenatal care in Cape Town, South Africa. Our aims were (1) to describe the prevalence of different forms of IPV during the past 12 months and (2) to explore demographic and relationship characteristics and psychological variables as possible correlates of IPV in the past year. As part of this, since a previous HIV diagnosis may represent a significant relationship stressor in this setting, we hypothesised that levels of IPV would be lower in women who did not know their HIV status before the current pregnancy, compared with women who knew that they were HIV positive.

METHODS
The study setting was a large primary healthcare facility in the community of Gugulethu. This former township in Cape Town is home to ~350,000 residents of predominantly low socioeconomic status (SES). Both HIV infection and interpersonal violence are prevalent in this setting, with trauma a leading cause of death among young adults and ~30% of pregnant women testing HIV positive in local antenatal care services.

This cross-sectional analysis uses data from a multi-phase implementation science study evaluating strategies for delivering HIV care and treatment services to HIV-infected women and their children during pregnancy and the postpartum period (NCT01933477). In order to be eligible, HIV-infected pregnant women needed to be at least 18 years of age, not using ART and eligible for ART initiation based on current local guidelines during the study period (from March to June 2013, this was based on CD4 cell count or clinical staging; after June 2013, all HIV-infected pregnant women were ART-eligible regardless of CD4 count or disease stage). Patients were enrolled into the study consecutively and no sampling was conducted.

Measures
Data were collected by trained interviewers working in a private room adjacent to the antenatal clinic. Interviewers were from a counseling background with specific training in conducting interviews on sensitive and stigmatized topics, including HIV diagnoses and/or IPV. IPV was assessed using the WHO Violence Against Women questionnaire developed for the WHO Multi-country Study on Women’s Health and Domestic Violence against Women. This 13-item tool investigates whether participants have experienced specific acts of violence perpetrated by an intimate partner in the past 12 months, with subsections on physical, psychological and sexual violence. Distinctions between moderate and severe physical violence are based on the likelihood of the act of violence resulting in severe harm or injury to the victim.

Timing of HIV diagnosis was based on the participant’s self-report as a binary measure of diagnosis during the current pregnancy or before the current pregnancy. A composite SES score was calculated based on the participant’s highest level of education, employment, housing type and number of household assets. The standardised scores were then divided into tertiles for the lowest, middle and highest SES groups. Relationship characteristics were self-reported by participants. Pregnancy intention agreement data were based on whether participants had discussed with their partner and agreed to become pregnant before conception.

Data on alcohol and drug use dependence and/or abuse collected using the Alcohol Use Disorders Identification Test (AUDIT) and the Drug Use Disorders Identification Test (DUDIT) which screen for alcohol and drug use and alcohol-related and drug-related problems, respectively. Hazardous drinking was defined as a score of ≥3 using the AUDIT-Consumption (AUDIT-C) scoring system, as previously described for use in women accessing primary care. Illicit drug use was categorised as ‘any drug use’ versus ‘no drug use’ but was not included in multivariate models, given the low proportion of women reporting substance use other than alcohol in this sample.

Psychological distress was measured using the Kessler 10 (K-10) scale, a 10-item tool measuring the frequency of symptoms of non-specific psychological distress, including symptoms of depression and anxiety. Participants with a summed score of ≥21.5 were considered above the threshold for psychological distress, as has been previously described as the optimal threshold among pregnant women in South Africa. Depression was quantified using the Edinburgh Postnatal Depression Scale (EPDS), a 10-item questionnaire assessing depressive symptoms during the previous week. Responses elicited by a frequency scale were summed to generate an overall depression score. A score of ≥13 classified participants as being above the threshold for probable depression, as described in the original development of the scale. Although originally developed for use in postpartum women, the measure has been validated for use during pregnancy.
Ethical considerations
Throughout the study period, women reporting IPV were referred to a local non-governmental organisation (NGO) offering counselling services and, following local standard of care, counselled on their options to seek protection and redress via the South African Police Service. All participants completed written informed consent prior to study participation.

Data analysis
Analyses used Stata V.12.0 (Stata Corporation, College Station, Texas, USA). Descriptive statistics of the outcome of interest and all potential correlates were reported for the total sample. Bivariate analyses were conducted using Wilcoxon rank sum tests for continuous variables, and $\chi^2$ or Fisher’s exact tests for binary variables. All $p$ values were based on a two-sided $\alpha$ at 0.05. We stratified estimates of different types of IPV by timing of HIV diagnosis and partner involvement in pregnancy planning in order to better understand the relationships between these variables. Crude logistic regression models tested the associations between total violence, defined as the experience of any form or act of IPV in the past 12 months, and maternal characteristics. Separate multivariable models were built to evaluate the independent associations between IPV and relationship characteristics, and IPV and maternal psychological characteristics. Following standard practice, independent variables were retained in models if they were persistently associated with IPV, and/or if their removal altered associations involving other covariates. Results are presented as ORs with 95% CIs.

RESULTS
Between March 2013 and April 2014, 623 women were eligible for this analysis. Women in the sample were aged between 18 and 44 years, with a median age of 28 years, and 97% reported isiXhosa as their home language. The median gestation at the time of administration of the questionnaire was 26 weeks. Overall, 97% of participants reported being in a relationship at the time of the interview; one-quarter were married, and 41% were living with their partner. Over one-third of participants (36%) reported having disclosed their HIV status to their partner. Relationship duration ranged from 3 months to 20 years, with a median duration of 3 years. The prevalence of probable depression in this sample was 11% ($n=68$), and 35 women (6%) scored above the threshold for psychological distress. A total of 162 women (26%) reported levels of alcohol use during the past 12 months consistent with hazardous drinking, and 4 women (0.6%) reported illicit drug use.

Table 1 shows the prevalence of specific responses to the IPV questionnaire overall and by age category. Overall, 21% of women ($n=132$) reported experiencing at least one act of IPV in the preceding 12 months.

Table 1 Reported experiences of intimate partner violence (IPV) during the past 12 months, stratified by age, among HIV-infected pregnant women in Cape Town, South Africa

|                       | All ages n (%) | 18–24 n (%) | 25–29 n (%) | 30–34 n (%) | 35+ n (%) | p Value |
|-----------------------|----------------|-------------|-------------|-------------|-----------|---------|
| Number of women       | 623            | 159         | 221         | 170         | 73        |         |
| Any IPV               | 132 (21)       | 40 (25)     | 45 (20)     | 33 (19)     | 14 (19)   | 0.554   |
| Emotional violence    |                |             |             |             |           |         |
| Insulted you/made you feel bad | 92 (15)   | 28 (18)     | 30 (14)     | 23 (14)     | 11 (15)   | 0.686   |
| Belittled/humiliated you | 69 (11)   | 23 (14)     | 20 (9)      | 17 (10)     | 9 (12)    |         |
| Scared/intimidated you on purpose | 48 (8)    | 14 (9)      | 17 (8)      | 11 (6)      | 6 (8)     |         |
| Threatened to hurt you or someone you care about | 30 (5) | 8 (5) | 7 (3) | 10 (6) | 5 (7) |         |
| Physical violence     |                |             |             |             |           |         |
| Slapped or threw something at you | 96 (15)   | 31 (20)     | 30 (14)     | 25 (15)     | 10 (14)   | 0.417   |
| Pushed/shoved you     | 57 (9)         | 19 (12)     | 18 (8)      | 14 (8)      | 6 (8)     |         |
| Severe physical violence | 43 (7)     | 14 (9)      | 13 (6)      | 11 (6)      | 5 (7)     |         |
| Hit you with a fist or something else that could hurt you | 27 (4) | 6 (4) | 8 (4) | 9 (5) | 4 (5) |         |
| Kicked you, dragged you or beat you up | 28 (4)   | 11 (7)      | 8 (4)       | 7 (4)       | 2 (3)     |         |
| Choked or burnt you on purpose | 18 (3)    | 5 (3)       | 6 (3)       | 6 (4)       | 1 (1)     |         |
| Threatened to use or used a gun, knife or other weapon against you | 8 (1) | 4 (3) | 1 (0.5) | 3 (2) | 0 |         |
| Sexual violence       |                |             |             |             |           |         |
| Physically forced you to have sexual intercourse when you did not want to | 14 (2) | 1 (0.6) | 9 (4) | 3 (2) | 1 (1) | 0.147* |
| Had unwanted sexual intercourse because you were afraid of what he might do | 14 (2) | 1 (0.6) | 9 (4) | 3 (2) | 1 (1) |         |
| Forced you to do something sexual that you found degrading or humiliating | 8 (1) | 0 | 5 (2) | 2 (1) | 1 (1) |         |

*Fisher’s exact test used; all other $p$ values generated using $\chi^2$ tests.
Specifically, 15% (n=92) reported emotional violence, 15% (n=96) reported physical violence (classified as severe violence in 7% of women) and 2% (n=14) reported sexual violence. Emotional and physical violence was most prevalent among 18–24 year-olds and sexual violence was most commonly reported among women aged 25–29 years. Of those who reported IPV, 63 participants (10% of the overall sample and 48% of those who reported any IPV) experienced two or more types of violence in the last year; the most common combination of violence was physical and emotional violence, reported by 8% of women (n=51) (figure 1).

Table 2 describes the prevalence of any IPV by women’s demographic and relationship characteristics. In bivariate analyses, women who reported IPV in the past year were less likely to be married, and more likely to use illicit drugs and to score above the threshold for hazardous alcohol use, psychological distress and depression. Those who experienced violence were also more likely to have not discussed pregnancy with their partner and/or not agreed with their partner to become pregnant prior to conception, compared with women who had not experienced violence.

Table 3 shows the results of logistic regression models examining the association between any reported IPV and participant relationship characteristics (model A) and psychological variables (model B). Among relationship characteristics, being married appeared protective against IPV in both unadjusted analyses and after adjusting for age and SES (adjusted OR 0.52; 95% CI 0.30 to 0.91). The association between IPV and women’s discussing and/or agreeing to the pregnancy with their partner was significant in the unadjusted model, but the association did not reach statistical significance in the adjusted model (adjusted OR 1.33; 95% CI 0.82 to 2.14). Among psychological variables, there were strong and persistent associations between IPV and hazardous alcohol use (OR 3.49; 95% CI 2.29 to 5.33), psychological distress (OR 3.64; 95% CI 1.68 to 7.86) and depression (OR 2.06; 95% CI 1.15 to 3.68).

Table 4 shows the distribution of types of IPV according to women’s discussion of pregnancy with their partner. Women who reported discussing pregnancy and agreeing on the pregnancy with their partner prior to conception were significantly less likely to report experiencing violence overall (p=0.029) and physical violence specifically (p=0.010) compared with women who had either not discussed or not agreed to the pregnancy with their partner prior to conception. However, the prevalence of emotional violence was only slightly lower in women who discussed and agreed on the pregnancy with their partner, and levels of sexual violence were similar in both groups. When stratified by timing of HIV diagnosis, no associations were observed between discussion around pregnancy and reported IPV among women who were diagnosed during the current pregnancy. However, the associations between discussion around pregnancy and overall violence (p=0.028) as well as physical violence specifically (p=0.027) remained significant among women diagnosed prior to the current pregnancy.

DISCUSSION

These data demonstrate a significant burden of IPV in this population of HIV-infected pregnant women, with 21% reporting any IPV in the preceding 12 months. Of those who reported violence, 48% experienced two or more types, most often both physical and emotional violence (8% of the sample). Women who experienced

Figure 1  Venn diagram of types of violence experienced during past 12 months among HIV-infected pregnant women in Cape Town, South Africa. IPV, intimate partner violence.
violence were more likely to be unmarried, substance users, and to score above the threshold for psychological distress and depression. Not discussing and/or not agreeing on pregnancy with a male partner prior to conception was found to be significantly associated with experience of any form of IPV, and with physical IPV specifically, among women diagnosed with HIV before the current pregnancy.

The estimated past-year prevalence of any type of IPV in this setting (21%) is notable and in keeping with previous reports from South Africa. Extending beyond previous reports, we were able to distinguish specific forms of IPV, and found that the reported prevalence of sexual IPV specifically was markedly lower than other types of IPV (2%); this appears consistent with previous research. Women’s demographic characteristics did not appear to be strong predictors of IPV, consistent with reviews from the region which have reported mixed findings on the impact of demographics on IPV risk. In addition, experiences of IPV in the previous 12 months were consistently associated with mental health variables, including psychological distress, depressive symptoms and substance use. These findings were independent of women’s demographic characteristics, in keeping with previous research and pointing to the significant psychological comorbidity of IPV.

During this analysis, we hypothesised that a previous HIV diagnosis would represent a significant relationship stressor, and in turn that levels of IPV in the previous 12 months would be lower in women who did not know their HIV status before the pregnancy, compared with women who knew that they were HIV positive. This was based on previous findings that an HIV diagnosis may serve as a significant trigger for IPV in many relationships. However, we found no difference in IPV prevalence between women who had been diagnosed with HIV previously compared with those newly diagnosed during the current pregnancy. It is possible that many women do not disclose their HIV status to partners or, if they do, that the risk of experiencing IPV in this population of women is not modified by knowledge of HIV diagnosis. While HIV remains stigmatised in this setting, the prevalence of HIV may mean that an HIV diagnosis is not a specific relationship stressor independent of other relationship and sociodemographic factors. We do not have data on disclosure prior to reported IPV, however, and further research is required to explore this finding.

In addition, these results suggest that women who reported IPV in the preceding 12 months were more likely to have either not discussed pregnancy with their partner, or not agreed with their partner to become

Table 2  Association between reported experiences of any IPV during the past 12 months and participant characteristics among HIV-infected pregnant women in Cape Town, South Africa

| Total n (%) | Any IPV n (%) | No IPV n (%) | p Value |
|------------|--------------|-------------|--------|
| Number of women | 623 | 132 | 491 | 0.237* |
| Demographic and relationship characteristics | | | |
| Median age (IQR) | 28 (24–32) | 28 (24–31) | 28 (25–32) | 0.281 |
| Socioeconomic status | | | |
| Highest | 214 (34) | 46 (35) | 168 (34) | 0.617 |
| Middle | 226 (36) | 41 (31) | 185 (38) | 0.064† |
| Lowest | 183 (29) | 45 (34) | 138 (28) | 0.050 |
| Time of first HIV-positive test | | | |
| During current pregnancy | 342 (55) | 75 (57) | 267 (54) | 0.032 |
| Before current pregnancy | 281 (45) | 57 (43) | 224 (46) | 0.569 |
| Currently in a relationship | 606 (97) | 25 (95) | 481 (98) | 0.873 |
| Married to partner (n=606) | 151 (25) | 19 (15) | 132 (27) | 0.005 |
| Cohabiting with partner (n=606) | 246 (41) | 44 (35) | 202 (42) | 0.369 |
| Median relationship duration in years (IQR; n=606) | 3 (2–6) | 3 (2–6) | 3 (2–6) | 0.569 |
| HIV status disclosed to partner (n=606) | 217 (36) | 44 (35) | 173 (36) | 0.873 |
| Report of other sexual partner(s) during past 12 months | | | |
| Not discussed and/or not agreed | 429 (70) | 101 (78) | 328 (68) | 0.029 |
| Discussed and agreed | 185 (30) | 29 (22) | 156 (32) | 0.001 |
| Not discussed and/or not agreed | 102 (16) | 25 (19) | 77 (16) | 0.001 |
| Pregnancy intention agreement with partner (n=614) | | | |
| Alcohol use (AUDIT-C), above threshold (≥3) | 162 (26) | 62 (47) | 100 (20) | 0.032† |
| Any drug use (DUDIT) | 4 (0.6) | 3 (2) | 1 (0.2) | 0.005 |
| Psychological distress (K-10), above threshold (≥13) | 35 (6) | 18 (14) | 17 (3) | 0.001 |
| Depression (EPDS), above threshold (≥13) | 68 (11) | 27 (20) | 41 (8) | 0.001 |

*Wilcoxon rank sum test used; all other p values generated using χ² tests.
†Fisher’s exact test used.
AUDIT-C, Alcohol Use Disorders Identification Test–Consumption; DUDIT, Drug Use Disorders Identification Test; EPDS, Edinburgh Postnatal Depression Scale; IPV, intimate partner violence; K-10, Kessler 10.
pregnant, prior to conception. This association did not persist after adjustment for demographic and other relationship characteristics, but is still intriguing in suggesting how IPV risk may be increased during pregnancy for many women. Recognising that a large fraction of pregnancies are unintended in South Africa and globally, understanding how relationship dynamics and IPV risk may be modified by pregnancy in different contexts is an important avenue for future research. Further, our results suggest that the association between discussion around pregnancy and experiencing IPV may be modified by the timing of HIV diagnosis, with this association only observed among women who were diagnosed prior to pregnancy.

This analysis is subject to a number of important limitations. This is a cross-sectional study that cannot establish the temporal relationship between IPV and associated risk factors. Furthermore, the nature of the WHO questionnaire used to measure IPV does not allow us to establish the frequency of violent acts, the nature of a woman’s relationship with a perpetrator, nor the timing in relation to the current pregnancy. Related to this, we assessed IPV in the late second and early third trimester (median, 26 weeks gestation), and it is possible that additional experiences of violence during pregnancy were not detected due to this timing. More detailed information regarding violence before, during and after pregnancy specifically would shed more light on the effects of pregnancy on the risk of IPV. In addition, under-reporting is a common concern in this type of research, due to the sensitivity and stigma often associated with violence. It is well documented that IPV, especially of a sexual nature, is a major source of stigma that may be a barrier to reporting. In this study, we made every effort to reduce the possibility of under-reporting through interviewer training, use of private interview space and assurances of appropriate confidentiality, but some under-reporting may be inevitable.

Despite these limitations, this research is one of the few studies to look at IPV specifically among women living in sub-Saharan Africa in the context of two well-documented risk factors for IPV: pregnancy and HIV infection. The prevalence estimates shown here suggest that IPV during pregnancy is a significant burden in this population of women. Coupled with the strong

| (A) Model of demographic and relationship characteristics, adjusted for age and SES | Unadjusted OR (95% CI) | p Value | Adjusted OR (95% CI) | p Value |
|---|---|---|---|---|
| Age | 0.98 (0.94 to 1.01) | 0.231 | 0.99 (0.95 to 1.03) | 0.562 |
| SES | | | | |
| Highest | 1.0 | 1.0 | |
| Middle | 0.81 (0.51 to 1.29) | 0.378 | 0.86 (0.52 to 1.40) | 0.543 |
| Lowest | 1.19 (0.75 to 1.90) | 0.465 | 1.28 (0.79 to 2.10) | 0.319 |
| Marital status | | | | |
| Not married | 1.0 | | 1.0 | |
| Married | 0.47 (0.28 to 0.80) | 0.006 | 0.52 (0.30 to 0.91) | 0.021 |
| Pregnancy intention | | | | |
| Discussed and agreed | 1.0 | | 1.0 | |
| Not discussed and/or not agreed | 1.66 (1.05 to 2.61) | 0.030 | 1.33 (0.82 to 2.14) | 0.248 |
| Time of first HIV-positive test | | | | |
| During this pregnancy | 1.0 | | 1.0 | |
| Before this pregnancy | 0.91 (0.61 to 1.33) | 0.617 | |

| (B) Model of psychological measures, adjusted for age and SES | Unadjusted OR (95% CI) | p Value | Adjusted OR (95% CI) | p Value |
|---|---|---|---|---|
| Age | 0.98 (0.94 to 1.01) | 0.231 | 0.99 (0.95 to 1.03) | 0.660 |
| SES | | | | |
| Highest | 1.0 | | 1.0 | |
| Middle | 0.81 (0.51 to 1.29) | 0.465 | 1.00 (0.60 to 1.65) | 0.076 |
| Lowest | 1.19 (0.75 to 1.90) | 1.59 (0.95 to 2.64) | |
| Alcohol use (AUDIT-C) | | | | |
| Below threshold | 1.0 | <0.001 | 1.0 | <0.001 |
| Above threshold (≥3) | 3.46 (2.31 to 5.20) | 3.49 (2.29 to 5.33) | |
| Psychological distress (K-10) | | | | |
| Below threshold | 1.0 | <0.001 | 1.0 | 0.001 |
| Above threshold | 4.40 (2.20 to 8.81) | 3.64 (1.68 to 7.86) | |
| Depression (EPDS) | | | | |
| Below threshold | 1.0 | <0.001 | 1.0 | 0.015 |
| Above threshold (≥13) | 2.82 (1.66 to 4.80) | 2.06 (1.15 to 3.68) | |

AUDIT-C, Alcohol Use Disorders Identification Test–Consumption; EPDS, Edinburgh Postnatal Depression Scale; IPV, intimate partner violence; K-10, Kessler 10; SES, socioeconomic status.
associations between IPV and mental health variables, this points to a major need for health services strengthening in this area. Specifically, programmes and policies that support the identification of and support for women experiencing IPV are required; these services may be particularly important in the context of pregnancy where there may be separate sequelae for mothers and infants over the long term. While screening programmes alone do not reduce IPV risk, screening paired with appropriate interventions has been shown to significantly lower future risk of IPV, including one programme showing efficacy in South Africa. As most pregnant women in South Africa attend at least four antenatal visits; thus, interventions in maternal health settings, specifically those geared towards HIV-infected women, offer an ideal point of access to this highly vulnerable population.

CONCLUSION

In summary, these data demonstrate an appreciable prevalence of IPV, and specifically physical and emotional violence, in this population of HIV-infected pregnant women. The prevalence of IPV in this study suggests that this is a high-risk population accessing health services requiring continued efforts to further understand and optimise care. While the potential impact of IPV and related factors on ART adherence over time requires further research, IPV-related screening and appropriate support services need to be considered as part of the package of care for ART in pregnancy.

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