

HIV knowledge, risk perception, and safer sex practices among female sex workers in Port Moresby, Papua New Guinea

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Abstract: Sex workers are considered a high-risk group for sexually transmitted infections, including human immunodeficiency virus (HIV), and are often targeted by prevention interventions with safer sex messages. The purpose of this study was to explore the extent to which knowledge of HIV and perception of risk influence safer sex practices among female sex workers (FSWs) in Port Moresby, Papua New Guinea. FSWs (n = 174) were recruited from 19 sites to participate in the study. Qualitative data were collected using semistructured interviews with FSWs (n = 142) through focus group discussions and (n = 32) individual interviews. In addition, quantitative data were collected from all FSWs using a short structured, demographic questionnaire. Data were analyzed using recurring themes and calculations of confidence intervals. Despite some common misperceptions, overall, most FSWs were basically aware of the risks of HIV and informed about transmission and prevention modalities but used condoms inconsistently. Most reported using condoms 'sometimes', almost one-sixth 'never' used condoms, only a fraction used condoms 'always' with clients, and none used condoms 'always' with regular sexual partners (RSPs). Among these FSWs, being knowledgeable about the risks, transmission, and prevention of HIV did not translate into safe sex. The findings suggest that certain contextual barriers to safer sex practices exist. These barriers could heighten HIV vulnerability and possibly may be responsible for infection in FSWs. Specific interventions that focus on improving condom self-efficacy in FSWs and simultaneously target clients and RSPs with safer sex messages are recommended.

Keywords: HIV knowledge, risk perception, safer sex practices, female sex workers, clients, regular sexual partners

Introduction

Papua New Guinea (PNG) has one of the most rapidly growing human immunodeficiency virus (HIV) epidemics in the Asia Pacific Region, with heterosexual transmission accounting for an increasing fraction of all new infections. In PNG, as in many developing countries, unsafe sex is the primary mode of HIV transmission.² In these settings, young females, especially female sex workers (FSWs), are the first group to be observed with the virus and disproportionately affected.^{2,3} In 1998, in PNG, a study of 407 FSWs in Port Moresby and Lae reported an HIV prevalence of 17% (34 of 205).4 At the same time, the prevalence among pregnant women was 0.37% and among the adult population in the entire country was 0.19%. In 2004, the prevalence of the HIV infection nearly quadrupled to 1.4% in pregnant women compared with 0.37% in 1998.⁵ However, more recent data indicate that the prevalence of HIV infection has risen nearly by seven-fold to 1.5% within the general population compared with 0.19% in 1998.6

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Of the 407 FSWs surveyed, 85% reported not to have used condoms consistently with their clients, 34% reported never to have used condoms, and only 9% always used condoms with their regular sexual partners (RSPs).⁴ These findings are reported consistently for PNG.^{7–11} Due to such risky sexual behaviors, it is widely perceived that FSWs will play a significant role in the HIV epidemic in PNG.^{12,13}

As the debate on the role of FSWs in HIV transmission intensifies in PNG, the role of clients and RSPs of FSWs in HIV transmission has been grossly overlooked. A study in 1994 reported that clients of FSWs were a mixture of 23% single, 3% widowed, and 74% married men. The profiles of the clients consistently reported, among others, 4,8 were policemen, soldiers, electricians, government employees, loggers, miners, managers of businesses and agricultural stations, sailors, truckers, and security guards. 9 So far there are few or no data on the social and behavioral characteristics of clients and RSPs of FSWs. In PNG, FSWs themselves refer to their clients and other sexual partners with terms that designate how well they know them and how regular they are as sexual partners. In general terms, they refer to clients as men who buy or pay for sex, locally known as 'K-pap' or 'pumuk man'. They also refer to RSPs as steady, noncommercial partners/boyfriends,4,8,9 locally known as 'lewa' (liver or heart) or 'wantoks'. 9 In 1994, an ethnography study reported that RSPs comprise married men who may have other sexual partners but according to FSWs are highly valued partners because they are gentle in their ways, make enjoyable sexual partners, and provide emotional support.9 Although there are no data describing how long relationships between FSWs and RSPs tend to last, available data show that RSPs are not pimps. Disturbingly though, these studies have reported low and inconsistent condom use among FSWs with their clients and RSPs. 4,8,9

To date, condoms remain the single most effective means to reduce the transmission of sexually transmitted infections (STIs)¹⁴ and to protect against HIV.¹⁵ In FSWs, a number of studies have shown an association between increased condom use and declined rates of STIs, including new HIV infections.^{16,17} Even though the production and distribution of condoms have increased worldwide¹⁸ and safer sex messages continue to reach FSWs through social marketing, behavior change communication strategies, and public health policies,³ these efforts have not always resulted in consistent condom use.^{8,19,20}

In an attempt to explain this outcome, a number of researchers have suggested that condom use in FSWs is determined by the social context within which the sexual behavior occurs.^{19,21,22} In resource-constrained settings, researchers have found that certain intrinsic factors act as 'barriers' rather than 'enablers' to safer sex practices.^{21,23–25} These barriers include underdevelopment/poverty,^{24,26} gender inequalities/cultural norms,^{27,28} knowledge/risk perception,^{29,30} negotiation ability/self-efficacy,^{8,22} and other aspects of the environment.^{21,31}

In the quest to understand the determinants of risky sexual behavior among FSWs in Port Moresby, this article reports on a study that explored HIV knowledge and risk perception and how these translated into safer sex practices. We aimed to document the practical barriers to safe sex practices and contribute to programming decisions and HIV policy.

Methods

This study is the sixth component of a large United Nations Population Fund (UNFPA) operational research grant to the project on comprehensive models of STI/HIV/AIDS prevention for sex workers and their clients in the Asia Pacific region. Details of the program funded by the grant have been reported elsewhere.32 This qualitative study reports on an in-depth assessment of the HIV situation among FSWs in Port Moresby. We report here on HIV knowledge, risk perception, sexual behaviors, and safe sex practices among FSWs. The study was carried out between April and June 2004. As part of the UNFPA grant, a mapping and size estimation exercise was conducted earlier in 2003.33 The exercise identified the locations where FSWs solicited their clients in Port Moresby. Examples of the locations included guest houses, wharves, urban villages, and settlements. The data reported here were collected from FSWs across these locations as part of an existing HIV project.

FSWs from our earlier studies, existing HIV projects, and new referrals were recruited to participate in the study. The new referrals were recruited using peer-mediated contact. Participation was voluntary, and those who agreed by verbal consent were fully briefed about the study objectives and procedures. Participants were eligible if they were aged 14 years and older and had sold sex for money or goods in the previous month. Participants then chose to take part in either a focus group discussion (FGD) or an individual interview. They were also asked to complete a short structured questionnaire where sociodemographic data were obtained. In this study, a RSP refers to a steady, noncommercial sexual partner or a steady, nonpaying boyfriend of a FSW.

Participants who chose to take part in an interview were interviewed at a time and location convenient to them. The interview was semistructured with open-ended questions on HIV knowledge, perceived risk, and safe sex. For those who chose to take part in an FGD, a facilitator and two researchers facilitated the sessions of up to 10 FSWs per group. The same open-ended questions were employed as those used in individual interviews. Interviewers and facilitators were female. A tape recorder was used, and participants were assured that they could turn it off at any time should they become anxious. The interviews and discussions were conducted in local pidgin and lasted about 90 min. Information was recorded verbatim, translated, summarized, and reviewed together with participants for accuracy.

The interview and focus group data were analyzed together. Thematic analysis was used to identify recurring themes. The data in each theme were then contrasted and compared in order to identify commonly held correct perceptions and misperceptions about HIV/STI, risk perception, sexual practices, and barriers and enablers to implementing safe sex. For each behavior that we were interested in, the full range of practices was identified and, where possible, FSWs were allocated to a practice group. Data from the short structured questionnaire were entered, converted, and confidence intervals for proportions analyzed using Confidence Interval Analysis (CIA) version 1.0 (Statistics with Confidence, London, UK). The study was approved by the Research Committee of the School of Medicine and Health Sciences, University of PNG (UPNG), and the Medical Research Advisory Committee, National Department of Health, PNG.

Results

A total of 174 FSWs from 19 locations participated in a total of 16 FGD (n = 142, 82%) and 32 in-depth interviews (n = 32, 18%). Table 1 shows the sociodemographic characteristics of the FSWs. They ranged from 14 to 44 years old, with the largest groups comprising FSWs in their most productive years (14–20 and 21–30). The majority of FSWs were divorced, poorly educated, exclusively sold sex for a living, and had engaged in sex work for more than 3 years. More than half had RSPs. Table 2 shows HIV/STI knowledge, condom use, and risk perceptions of the FSWs. All FSWs had heard of HIV/ AIDS, and 98% were adequately informed about HIV transmission through sexual contact. Almost three-quarters were aware that condoms are the most effective means of preventing HIV, but condom use with clients was 'sometimes' 79% (95% CI: 73-85), 'never' 15% (95% CI: 10-21), and 'always' 6% (95% CI: 3–11). Condom use with RSPs was 'sometimes' 18% (95% CI: 12-24), 'never' 82% (95% CI: 93-99), and 'always' 0% (95% CI: 0-02). Each FSW had an average of three condoms at hand during the FGD and knew where to

Table I Sociodemographic characteristics of FSWs in Port Moresby (n = 174)

Characteristics	% or (mean)	95% CI or range
14–20	36.0	29-43
21–30	32.0	25-39
31–40	19.0	21-25
41–50	13.0	8–18
Education		
None	30.0	_
Primary	70.0	_
Marital status		
Single	24.0	_
Married	35.0	_
Divorced	41.0	_
Current boyfriend/RSPs status		
With current RSPs	64.0	_
Without current RSPs	36.0	_
Religion (Christian)	100	_
No. of children/FSW (mean)	(2)	1-4
Living arrangements		
Alone	33.0	_
Friends	24.0	_
Relatives	18.0	_
Protectors (guards of FSWs)	12.0	_
Shared guest house with peers	7.0	_
Parents	6.0	-
Income besides sex work		
No	75.0	-
Yes	25.0	-
Place of sex work		
Port Moresby only	52.0	_
Outside Port Moresby	48.0	_
Years engaged in sex work		
I-3 years	32.0	25-39
4–6 years	28.0	21-34
7–9	21.0	15-27
10 and above	18.0	14-25
No. specific years (on and off)1	1.0	0.2-3

Note: One person did not fit.

Abbreviations: FSWs, female sex workers; CI, confidence interval; RSPs, regular sexual partners.

obtain them at no cost. The most frequently reported reasons for not using condoms included clients' dislike (40%), trust (35%), and inability to negotiate (22%). Most FSWs perceived themselves at risk of HIV; however, most believed that their chances of getting infected were higher through sex work than through their private sexual relationships.

HIV/STI knowledge

Widely held correct perceptions

Participants were asked whether they had heard of HIV/STIs and, if so, how they were transmitted and prevented; whether they could tell if someone had the virus; and whether they believed HIV was curable. Data from FGD and interviews

Table 2 HIV/STI knowledge, condom use, and risk perceptions of FSWs in Port Moresby (n = 174)

Characteristics	% or	95% CI
	(mean)	or rang
HIV knowledge		
Heard of HIV	100	98-100
Aware HIV is transmitted through	98.0	95–97
sexual contacts		
Aware condom use prevents HIV	70.0	63–76
Condom use		
Condom use with clients 'always'	6.0	3-11
Condom use with clients 'sometimes'	79.0	73–85
Condom use with clients 'never'	15.0	10-21
Condom use with RSPs 'always'	0.0	0–2
Condom use with RSPs 'sometimes'	18.0	12-24
Condom use with RSPs 'never'	82.0	93–99
No. of condoms in possession	(3)	4–5
during interview (mean)		
Reasons for inconsistent condom use		
Client dislike/refusal	40.0	33-48
Trust	35.0	28-42
Unable to negotiate use	22.0	16-28
Inconvenient to use	3.0	1–7
STI knowledge		
Heard of STIs	72.0	65–79
Heard of gonorrhea	70.0	63–77
Syphilis	68.0	61–75
Chlamydia	25	19–32
Trichomonas	12	7–17
Had STI treatment in the last	83	77–88
I2 months		
Vaginal discharge an STI symptom	32	25-39
Vaginal itch an STI symptom	27	20-34
Lower abdominal pain an STI	11	6-16
symptom		
Risk perceptions		
Chance of catching HIV	69	62–76
from client		
Chance of catching from RSPs	31	24–38

Abbreviations: FSWs, female sex workers; CI, confidence interval; RSPs, regular sexual partners; STI, sexually transmitted infection.

revealed that the majority of FSWs had heard of HIV. One FSW said: "Everywhere you go, people are talking about HIV/AIDS – who does not know about it?" Another one said: "It is in the pamphlets peer educators give us. I have heard so much about HIV". They were aware that HIV is transmissible through sexual contact and pregnant mothers to unborn children. Most FSWs correctly identified condoms as the most effective means of preventing transmission. Several FSWs interjected: "Peer educators give plenty of condoms and say condoms stop HIV". Another said: "Yes, I even have some here". "Me too" concurred a number of FSWs. They were also aware of other prevention methods such as abstinence and being faithful to one uninfected sexual partner. One FSW said: "But how do these methods suit sex workers?

I think they are unrealistic". Most FSWs agreed. In addition, they were aware that HIV is incurable.

Data also revealed that most FSWs interviewed had very basic knowledge about STIs. Most had heard of *Neisseria gonorrhea* and *Treponema pallidum* (syphilis), but very few cited *Chlamydia trachomatis* and *Trichomonas vaginalis* as other STIs. They were aware that STIs can be transmitted through unprotected sex and are preventable and treatable.

Widely held misperceptions

On the other hand, most had limited knowledge about HIV transmission through blood contact. Very few mentioned blood transfusion as a mode of transmission, and none was aware of HIV transmission through the sharing of infected needles or injecting drug use. One FSW showed her lack of knowledge by asking: "Could anyone explain to me how this is so?" Some believed the virus could be transmitted through a curse or a mosquito bite, and others believed that it was possible to tell if someone had the virus. As one FSW said: "Sometime, I hear people say HIV is a curse on bad people, the medicine man can cast the spell", another one said: "HIV people look skinny, pale, and have pimples plenty". Some believed that seeking prompt treatment when sick, washing the genitals soon after ejaculation with an antiseptic household cleaner, and getting married could prevent HIV transmission. One FSW confidently stated: "Once I get married, it means no more sex with clients and therefore no gat HIV". Although she believed that sexual intercourse with multiple sexual partners increased HIV risk, somehow she had misperceived that sexual intercourse with one partner would protect her against the virus.

Common STIs such as *Candida albicans* (thrush), herpes simplex virus (HSV), genital warts, bacterial vaginosis, and *Haemophilus ducreyi* (chancroid), for instance, were virtually unheard of by most FSWs. Over three-quarters stated that they had received STI treatment at least once in the past, yet they were generally not aware of the symptoms associated with these infections. Most had limited knowledge about the role of STIs in HIV transmission and the value of the use of lubricants with condoms. An FSW probed: "No one has said this to me. This is new to me, but how?" In relation to lubricant, another one said: "em same like oil", implying that the use of oil is equally good.

Risk perception

Participants were asked about their perception of HIV risk and how they perceived this risk in both sex work and their private sexual relationships. They were also asked about risk in relation to marijuana and alcohol use.

Data revealed that although most FSWs were aware of HIV risk through sexual contacts, most perceived themselves as more at risk of infection through sex work than through their private sexual relationships. Almost all FSWs misperceived that sexual intercourse with RSPs posed low risk compared with intercourse with clients. One FSW said: "Clients sleep with so many people. They can pick up anything and bring to me, but RSPs are not like that". Most FSWs were unable to identify the links between marijuana/alcohol use and HIV risk. One FSW asked: "What has marijuana or alcohol got to do with HIV? I see no obvious connection".

Sexual behaviors and practices

Participants were asked about their most recent sexual encounter and asked whether they used condoms consistently with clients and RSPs.

Data revealed most FSWs had recently engaged in unsafe sex with clients and RSPs despite adequate knowledge. Although most FSWs perceived themselves as more at risk of infection through sex work, condom use with clients was low and inconsistent. Of those who had RSPs, about one-tenth reported to have used condoms 'sometimes', about three-quarters reported 'never' to have used condoms, and none reported to have used them 'always', indicating an overall consistent use of condoms with RSPs to be virtually non-existent. A representative statement made by a FSW during the FGD was: "I do not think my boyfriend will intentionally give me HIV".

Barriers and enablers of safer sex practices

Participants were asked about safer sex practices and what they believed were the enablers and challenges in consistent safe sex practice.

Enablers to implementing knowledge

Data revealed that most FSWs believed that safe sex (100% condom use at all times) is useful and must continue irrespective of its challenges. Data from the short questionnaire also revealed that each FSW had an average of three condoms at hand and during the FDG sessions claimed to carry them at all times. All FSWs knew where to obtain them at no cost from their peer educators, the National AIDS Council, and other aid agencies.

Practical barriers to implementing knowledge

Most FSWs recognized that prevention means, such as abstinence and being faithful to one sexual partner, were unrealistic for sex workers. Although few FSWs (3%) felt

that condom use was inconvenient and took the fun out of sex, about one-third (35%) cited trust, an 'emotional factor', as the main reason for sex without condoms with RSPs. About half (40%) cited clients' refusal as another reason for engaging in unsafe sex. The single most important factor that stood out was the fear of losing an economic benefit should they try to insist on condom use. Twenty-two percent felt they were unable to negotiate condom use, reflecting contextual factors placing FSWs in a weak position to negotiate safe sex. Among these FSWs, a combination of emotional, economic, social, and/or environmental factors served as important practical barriers to safe sex. During the FGD sessions, one sex worker stated: "Our clients know we are desperate for money, so if they refuse condoms and offer extra cash, it is a proposal I can hardly refuse". Another one stated: "At times, I am so broke and need money to survive, I gat no choice". Most FSWs used marijuana, alcohol, and other potent homemade stimulant 'home brews'. Nearly all FSWs who use these substances reported to have had sex under the influence of one or a combination of them but saw no obvious links with HIV risk.

Discussion

In this qualitative study of FSWs in Port Moresby, we were interested in the disparities between knowledge and sexual practices. We wanted to document in detail what FSWs knew, how it translated into safer sex practices, where their knowledge was poor, and what they identified as practical barriers and enablers to safer sex. We found that although the majority of FSWs were adequately informed about HIV transmission through sexual intercourse and prevention through condom use, this knowledge rarely translated into safer sex practices. The findings suggest that significant barriers to the practice of safe sex confront FSWs, an observation that has been reported elsewhere. 19,22 In resource-constrained settings, adequate knowledge and risk perception alone may be insufficient to implement safer sex practices. In this article, we discuss the implications of contextual barriers to safe sex in the context of sex work. In PNG, these may be responsible for the spread of HIV among FSWs.

Studies on the influence of HIV knowledge on safer sex practice have reported mixed results. Although some have found conclusive associations, ^{34–36} others have found mixed results ^{37,38} consistent with our findings. Although some studies found association between individual perception of HIV risk and safer sex practices, ^{39,40} others have found mixed results ^{41,42} consistent with our findings. This implies that safer sex is complex and determined by several factors in different

settings. In this study, several factors acted as barriers for FSWs to implement safer sex knowledge. There are a number of possible explanations for this outcome. It may reflect a lack of ability of FSWs to assess risk and apply knowledge during a sexual encounter.^{30,43} All sexual decision making involves the weighing up of a number of risks, where some risks will be accepted and others will not be accepted.⁴⁴ It may also imply that safer sex knowledge and the dynamics of sexual behavior are two different phenomena, neither of which necessarily influences the other when the sexual encounter is being contemplated. 45,46 It may reflect a sexual behavior that lies within the economic and sociocultural contexts of FSWs, an observation that has been made elsewhere. 19-21,23,27 The majority of FSWs in our study felt compelled to accept additional cash for unsafe sex with clients who refused to use condoms. Here, economic deprivation limited the ability to resist unsafe sex and increased the ability to make unhealthy choices when the fear of losing a paying client and the economic benefit was imminent. In an environment that offers fewer economic choices for FSWs, economic deprivation is likely to influence risky sexual behaviors and heighten exposure to HIV infection. 21,24,26,47

Another barrier to condom use that emerged was the inability to negotiate condom use. About one-quarter of the FSWs in our study felt that they were in no position to negotiate condom use, as mentioned previously, reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that relegates females to passive positions, Reflecting a cultural norm that

Finally, trust emerged as the main barrier to safe sex with RSPs, reflecting the characteristics of intimate sexual relations where the use of condoms diminishes once a rapport is established.^{57,58} None of the FSWs reported to have used condoms consistently with their RSPs, an observation that has been made previously in PNG.4,7,8,10,11 Although some FSWs felt that their RSPs would not intentionally infect them, others believed there was no need for condom use because trust was established. Irrespective of adequate transmission and prevention knowledge, the interpretation of a personal sense of perceived risk took a whole new meaning. 45,59 This risk perception bias associated with RSPs is dangerous, as RSPs may also contribute to HIV^{3,60} just as clients could.⁶¹ As FSWs are more vulnerable to HIV, areas of misperceptions that increase vulnerability must be given considerable attention when planning interventions, stressing that unsafe sex is unsafe regardless of the sexual partner and that trust does not offer protection.

Our study has a number of limitations. First, sex work is illegal in PNG and, as a result, it was impossible to obtain a random sample of FSWs. In spite of this, we were able to report on a large sample of FSWs, most of whom were participants in our existing HIV programs. Second, our findings may not represent the views of all FSWs in PNG, as we focused on FSWs in Port Moresby only, but consistent findings have been reported previously. Finally, our data were collected through focus groups; therefore, it did not allow us to collect individual stories of condom use negotiation due to the private nature of this information. Although there was a general consensus that negotiation of condom use is challenging, this would need to be explored further through one-on-one interviews.

That said, our study offers insights into the risky sexual behaviors of FSWs in Port Moresby from which programmatic decisions are recommended. Our findings highlight that safe sex practice is not determined by the availability of, access to, and promotion of condoms alone, but also by complex contextual, emotional, and other environmental factors. Until effective strategies are implemented to address these factors, no progress on HIV will be sustained. A comprehensive HIV prevention framework that seeks to work toward changing long-standing contextual factors that increase vulnerability in FSWs is required.^{3,21} For FSWs, the vital element is empowerment.^{21,62} Overall, it means inclusion of targeted efforts that invest in universal education, 63 economic independence^{64,65} through poverty alleviation and community development schemes, 66,67 sustainable livelihoods, 62,64,68,69 gender equity, 48 and policy reform. 3,70

Furthermore, safer sex messages have reached most FSWs and they do not need to be convinced about it; however, they need to be enabled to practise it. 21,23,71 Specific behavior change programs that promote condom self-efficacy in FSWs^{34,72} and improve condom use in clients and RSPs^{3,60} are required. More often than not, HIV programs rarely target clients and RSPs of FSWs, with whom the final decision for safe sex may rest. 73-75 More so, research and other prevention interventions, such as health promotion, HIV testing, and treatment services, including tenofovir gel, that target these groups are long overdue.³ We recommend that these services correspond to the specific needs of clients and RSPs of FSWs, who are often overlooked under most circumstances.³ Our study shows that clients and RSPs play pivotal roles in safe sex decision making and have the power to influence the terms of the sexual practice. Males are therefore crucial to

sustaining safe sex^{3,60,61} and must be targeted in programs that are gender sensitive, promote messages of safety, and mediate mutual responsibility for safe sex.⁴⁸

Finally, we strongly recommend that programs must revisit the areas of misperceptions identified in this study, avoid promoting messages such as abstinence and being faithful to one uninfected sexual partner that are considered unrealistic in the context of sex work, and intensify prevention efforts on illicit drug and alcohol use for FSWs. FSWs must have the means to protect themselves within their private and commercial sexual relationships. ⁴² Given that FSWs are the worst affected by the HIV epidemic in PNG, visible political leadership and supportive policies are required, ³ without which we risk significant ramifications for the progression of HIV. We argue that HIV policies and program interventions must address these barriers, including the root causes of vulnerability.

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Disclosure

The authors report no conflicts of interest in this work.

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