Usual source of healthcare and use of sexual and reproductive health services by female sex workers in Brazil

Fonte habitual de cuidado em saúde e o uso de serviços de saúde sexual e reprodutiva entre mulheres trabalhadoras do sexo no Brasil

Fuente habitual de cuidado de salud y el uso de los servicios de salud sexual y reproductiva entre mujeres trabajadoras sexuales en Brasil

ARTIGO ARTICLE

Talita Castro Garcia Matteoni ¹ Laio Magno ^{1,2} Carla Gianna Luppi ³ Alexandre Grangeiro ⁴ Celia Landmann Szwarcwald ⁵ Inês Dourado ¹

doi: 10.1590/0102-311X00188120

Correspondence

L. Magno

Departamento de Ciências da Vida, Universidade do Estado da Bahia.

Rua Silveira Martins 2555, Salvador, BA 41000-150, Brasil. laiomagnoss@gmail.com

¹ Instituto de Saúde Coletiva, Universidade Federal da Bahia, Salvador, Brasil.

² Departamento de Ciências da Vida, Universidade do Estado da Bahia, Salvador, Brasil.

³ Escola Paulista de Medicina, Universidade Federal de São Paulo, São Paulo, Brasil.

4 Faculdade de Medicina, Universidade de São Paulo, São Paulo, Brasil.

⁵ Instituto de Comunicação e Informação Científica e Tecnológica em Saúde, Fundação Oswaldo Cruz, Rio de Janeiro, Brasil.

Abstract

The fact of having a usual source of care can improve access to health services and preventive activities. The article aimed to estimate the proportion of factors associated with usual source of care among female sex workers. This was a socio-behavioral survey with 4,328 female sex workers, ≥ 18 years, in 12 Brazilian cities. Female sex workers were recruited by the respondentdriven sampling method (RDS). A descriptive profile was performed of the female sex workers who had usual source of care and the association was analyzed between usual source of care and indicators of access to HIV prevention and reproductive health. As effect measure, the study used adjusted odds ratio (OR) in a logistic regression model. The data were weighted by the RDS-II estimator. 71.5% of the female sex workers reported having a usual source of care, and of these, 54.3% cited primary healthcare (PHC) as their main usual source of care. Among female sex workers 18-24 years of age, there was an association between usual source of care and having a Pap smear test (OR = 2.27; 95%CI: 1.66-3.12), seven or more prenatal visits (OR = 2.56; 95%CI: 1.30-5.03), and the use of a contraceptive method (OR = 1.64; 95% CI: 1.09-2.46). Among female sex workers ≥ 25 years, there was an association between usual source of care and attending talks on sexually transmitted infections (STIs) (OR = 1.45; 95%CI: 1.12-1.89), prior knowledge of post-exposure prophylaxis (OR = 1.32; 95%CI: 1.02-1.71), and history of Pap smear test (OR = 1.92; 95%CI: 1.54-2.40). The study's results showed that female sex workers have PHC as their main usual source of care. usual source of care can also positively impact care and activities in reproductive health and prevention of HIV and STIs in this population group.

Sex Workers; Women's Health; Primary Health Care; Health Services Accessibility; Sexual and Reproductive Health



Introduction

Usual source of care can be defined as relying on the same health service or healthcare worker in case of a health problem or need ¹. Studies show that usual source of care can reduce costs with hospitalization, increase coverage of preventive and health promotion activities, improve timely access to healthcare, and allow the supply of more equitable care for individuals and populations ²,³. usual source of care is associated with longitudinal and continuing healthcare, facilitating comprehensive care ^{4,5}.

In the individual context, studies have reported important results among persons with a usual source of care, such as better self-rated health and experiences with the care provided by services ⁶, better quality in terms of accessibility, use of services, and continuity of care, including by primary healthcare services ⁷, annual health visits by adolescents ⁸, and higher odds of mammogram tests for women ⁹.

In Brazil, data from the *National Health Survey* (PNS) of 2013 estimated that 74.5% of the population had a usual source of care, which was associated with better self-rated health and less use of urgent and emergency services ¹⁰. However, there are no data on usual source of care among more socially vulnerable populations such as female sex workers.

The female sex workers population in Brazil is estimated at 0.8% of the female population 15 to 49 years of age ¹¹. Compared to women in the general population, female sex workers have greater need of healthcare and disproportionately high rates of specific diseases such as HIV and other sexually transmissible infections (STIs) ¹². The profile of female sex workers is associated with low schooling, worse socioeconomic and work conditions, high-risk sexual practices for HIV infection, and illicit drug use ^{13,14}.

The most frequent health problems in female sex workers are related to sexual and reproductive health, such as abortion, unplanned pregnancy, situations related to maternal health, and STIs, besides frequent mental health issues resulting from exposure to situations of physical and sexual violence ^{15,16}. There are also associations with factors that increase structural vulnerability, such as the criminalization of sex trade establishments, housing instability, violence, discrimination, and stigmatization of sex work and in health services ^{17,18}. This same context involves barriers in access to services for HIV prevention and adequate healthcare ^{19,20}.

The main barriers in access to health services for female sex workers and reported in the literature are related to sexual and reproductive health, lack of financial resources, shame in seeking health services, discrimination by healthcare staff, and distance from their homes to the services ²¹.

Given female sex workers' need for healthcare and the importance of having a usual source of care to decrease the barriers to access, this study aims to estimate the proportion of usual source of care and associated factors among female sex workers in Brazil.

Methodology

Study design and population

The study's data are from a survey conducted in 4,328 female sex workers in 12 cities of Brazil from July to November 2016. The survey aimed to estimate the prevalence of HIV, syphilis, and hepatitis B and C and to monitor risk practices for these infections. The 12 cities were selected by then-Department of Surveillance, Prevention, and Control of STIs, AIDS, and Viral Hepatitides (DIAHV) Brazilian Ministry of Health, based on geographic criteria and the epidemiological relevance of the HIV/AIDS epidemic in these cities ^{22,23}. The study was approved by the Institutional Review Board of the Oswaldo Cruz Foundation (Fiocruz; approval number 1.338.989). All participants signed informed consent, guaranteeing anonymity, voluntary participation, and the possibility of leaving the study at any moment.

Sampling process

The minimum sample size was set at 350 female sex workers for each city, and the women were recruited by the respondent-driven sampling (RDS) method, in which participants themselves recruit their peers ²⁴.

The first participants, called "seeds", were selected by the researchers to represent the heterogeneity of the female sex workers population, according to demographic and socioeconomic conditions. The seeds were selected after conducting a qualitative formative survey through in-depth interviews and focus groups with female sex workers to establish the study's logistic organization in each city. From 5 to 10 seeds began the recruitment in the study's cities, and each seed received 3 invitations to invite female sex workers from their contact networks (recruitment chains) ²⁵. Inclusion criteria were women \geq 18 years of age who reported at least one sexual relation in exchange for money in the previous 4 months and presented a valid invitation for participation in the study.

For the recruitment's success, RDS requires a system of primary and secondary incentives. The primary incentive consisted of a beauty kit (a toiletry bag containing a mirror, nail polish, lipstick, male and female condoms, and lubricant gel), a snack, and BRL 30.00 (USD 5.00) for transportation. The secondary incentive was BRL 15.00 (USD 2.50) as a form of reimbursement for each person recruited (maximum of three).

Data collection was done in public healthcare units located in the respective cities. Participants answered a questionnaire applied by previously trained interviewers, containing sociodemographic variables, knowledge on STIs, access to social support, access to educational and preventive material on STIs, frequency of testing for HIV, syphilis, and hepatitis B and C, access to and use of healthcare, sexual practices, alcohol and drug use, and history of discrimination.

Variables

Usual source of care was defined according to the following question: "Do you usually go to the same place, the same doctor, or the same health service when you need healthcare?" (yes, no). The health services cited as usual source of care were categorized as: (i) primary healthcare (PHC) (health post or family health unit); (ii) specialized public services (specialized clinics, specialized healthcare centers, polyclinics, and public hospital outpatient departments); (iii) private (private medical offices and physicians, or healthcare workers at the commercial establishment where they work as female sex workers); (iv) public and private emergency departments (urgent care units or other public emergency care units or private hospital emergency departments); and (v) none (has no usual source of care or cites a pharmacy as the source).

The analysis was performed in two stages. The first aimed to know the profile of female sex workers that have a usual source of care, and next those that had a usual source of care C were analyzed according to the characteristics of the female sex workers, considering three dimensions: (i) sociode-mographic and sex work characteristics: age (18-24 and \geq 25 years), skin color (white, black, brown, and other), schooling (primary or incomplete secondary versus complete secondary or more), income (BRL 1.00-500.00, BRL 501.00-1,000.00, and > BRL 1,000.00), main sex work location (commercial establishments and places on the street); (ii) participation in nongovernmental organizations (NGOs) for sex workers' human rights (no, yes); and (iii) violation of human rights: report of discrimination in the healthcare service due to being a sex worker (no, yes) and changes in care from health services when the individual discloses that she is a female sex workers (no, yes).

The second stage analyzed whether usual source of care was associated with greater access to health, considering HIV prevention and reproductive health. The target indicators for HIV prevention were attendance at talks on STIs/HIV in the last 6 months (no, yes), received male condoms in the last 6 months (no, yes), received female condoms in the last 6 months (no, yes), HIV test any time in life (no, yes); knowledge of PEP – post-exposure prophylaxis (no, yes). Indicators of use of reproductive health services were Pap smear test (never/more than 2 years before versus less than two 2 years before), number of prenatal visits (< 7 and \geq 7) for pregnancy in the last two years, and contraceptive method (except condoms) at the time of the survey (birth control pill, diaphragm, IUD, and injectable contraceptive) (no, yes).

Statistical analysis

The data analysis considered the complex sampling design for recruitment by RDS, that is, dependence between observations resulting from the recruitment chains and the unequal probabilities of selection. The question in the questionnaire that measured the size of each sex worker's contact network was: "How many female sex workers that work here in the city do you know personally, that is, you know them, and they know you?" The sample was weighted by the RDS-II estimator ²⁶. The analysis was performed in Stata, version 14 (https://www.stata.com). Details of the weighting procedure were described by Damacena et al. ²⁵.

To know the profile of the female sex workers that have a usual source of care, we performed a descriptive analysis of the weighted frequency with an estimate of the respective 95% confidence intervals (95%CI). The analysis of association between usual sourcer of care and the target variables used as measure of effect the odds ratios (OR) and respective 95%CI. The final model included variables with p-value ≤ 0.20 in the bivariate analysis. Two multivariate models were performed, stratified by age 18-24 years versus ≥ 25 years, since a difference was observed in relation to usual source of care and age bracket: (i) model with indicators of measures of STI and HIV prevention, and (ii) model with indicators of use of reproductive health services.

Results

Of the 4,328 recruited female sex workers, we excluded 83 seeds from the RDS, since they were picked intentionally by the researchers, and 4,245 female sex workers (98.1%) thus entered the analysis. Most of the recruited female sex workers were over 25 years of age (66.3%), with brown self-reported race/ skin color (52.3%), with complete secondary schooling or more (52.2%), and with a monthly income of up to BRL 1,000.00 (56.2%) (data not shown).

A usual sources of care was reported by 71.5% (95%CI: 69.59-73.29) of the female sex workers, and more than half (54.31%) reported PHC as the principal type of usual source of care. As for indicators of STI and HIV prevention, the majority received male condoms (81.9%) and had undergone an HIV test sometime in life (77.5%), while a minority had attended talks (24.4%), received female condoms (33.6%), and were aware of PEP (31.1%). As for indicators of use of reproductive health services, 51.5% of the female sex workers had undergone a Pap smear test in the previous 2 years, 59.3% reported 7 or more prenatal visits in a pregnancy in the last 2 years, and 53.3% used contraceptive methods (not counting condoms) (Table 1).

The proportion of individuals with a usual source of care was higher in female sex workers 25 years or older (73.1%), with brown skin color (72.8%), and with monthly income from BRL 501.00 to BRL 1,000.00 (75.1%). As for indicators of STI and HIV prevention, having a usual source of care was more frequent among female sex workers that had attended talks on HIV/STIs in the previous 6 months (77.8%), received male condoms in the previous 6 months (72.6%) or female condoms in the previous 6 months (75.6%), were familiar with PEP (75.9%), and had undergone an HIV test sometime in life (73.1%). In relation to use of reproductive health services, usual source of care was more frequent in female sex workers who had undergone a Pap smear test in the previous 2 years (78.6%), who had 7 or more prenatal visits during a pregnancy in the two years prior to the interview (80%), and who used contraceptive methods (70.7%) (Table 2).

In the multivariate analysis, among female sex workers 18 to 24 years of age, there was an association between usual source of care and Pap smear test (OR = 2.27; 95%CI: 1.66-3.12), seven or more prenatal visits in a pregnancy in the previous two years (OR = 2.56; 95%CI: 1.30-5.03), and the use of contraceptive methods (OR = 1.64; 95%CI: 1.09-2.46). This age bracket also showed a borderline association between usual source of care and attendance at talks on STIs in the last seis months (OR = 1.40; 95%CI: 0.99-2.07). Female sex workers 25 years or older showed an association between usual source of care at talks on STIs in the last seis months (OR = 1.40; 95%CI: 0.99-2.07). Female sex workers 25 years or older showed an association between usual source of care and attendance at talks on STIs in the last six months (OR = 1.45; 95%CI: 1.12-1.89), prior knowledge of PEP (OR = 1.32; 95%CI: 1.02-1.71), and Pap smear test (OR = 1.92; 95%CI: 1.54-2.40). This age bracket also showed a borderline association between usual source of care and having

Table 1

Usual source of care, types of usual source of care, indicators of sexually transmissible infections (STIs) and HIV prevention, and indicators of use of reproductive health services among female sex workers in 12 Brazilian cities, 2016.

Variables	n	Ν	% *	95%CI
Usual source of care	2,965	4,265	71.5	69.59-73.29
Type of usual source of care				
Primary healthcare	2,221	4,253	54.3	52.30-56.31
Specialized public services	220	4,253	4.64	3.91-5.49
Private services	226	4,253	4.92	4.14-5.83
Public and private emergency departments	288	4,253	6.34	5.43-7.38
None	1,298	4,253	29.8	27.94-31.70
Indicators of STI and HIV prevention				
Attended talks in the previous 6 months	1,173	4,281	24.4	22.7-26.1
Received male condoms in the previous 6 months	3,549	4,292	81.9	80.3-83.4
Received female condoms in the previous 6 months	1,494	4,281	33.6	31.6-35.5
HIV test (lifetime)	3,468	4,292	77.5	75.8-79.1
Prior knowledge of post-exposure prophylaxis	1,395	4,255	31.1	29.3-33.0
Indicators of use of reproductive health services				
Pap smear test in the previous 2 years	2,277	4,260	51.5	49.5-53.5
Use of contraceptive methods	1,598	3,098	53.3	50.9-55.7
\geq 7 prenatal visits in pregnancy in the last 2 years	297	522	59.3	53.64-64.76

95%CI: 95% confidence interval.

* Weighted by the RDS-II estimator.

Table 2

Usual source of care according to indicators of sexually transmissible infections (STIs) and HIV prevention and reproductive health services among female sex workers in 12 Brazilian cities, 2016.

Variables	N *	% **	p-value
Sociodemographic			
Age (years)			
18-24	1,267	68.34	
≥ 25	2,977	73.06	0.02
Race/Skin color			
White	933	69.87	
Black	955	71.05	
Brown	2,159	72.81	
Other (Asian, indigenous)	196	65.4	0.3
Schooling			
Primary and incomplete secondary	1,950	71.93	
Complete secondary or more	2,254	71.05	0.63
Income (BRL)			
1.00-500.00	1,015	69.72	
501.00-1,000.00	1,126	75.06	
> 1,000.00	1,917	71.37	0.09

(continues)

Variables	N *	% **	p-value
Principal place of work			
Closed establishments	2,299	70.95	
Street	1,944	72.07	0.56
Participates in or belongs to NGO for female sex workers human rights			
No	3,765	71.32	
Yes	413	72.86	0.64
Indicators of STI and HIV prevention			
Attended talks in the previous 6 months			
No	3,063	69.36	
Yes	1,135	77.76	0.01
Received male condoms in the previous 6 months			
No	729	67.02	
Yes	3,480	72.55	0.02
Received female condoms in the previous 6 months			
No	2,746	69.64	
Yes	1,454	75.58	0.03
HIV test (lifetime)			
No	822	65.46	
Yes	3,387	73.13	0.05
Prior knowledge of post-exposure prophylaxis			
No	2824	69.4	
Yes	1348	75.93	0.01
Indicators of use of reproductive health services			
Pap smear test			
Never, or more than 2 years before	1,949	63.9	
Less than 2 years before	2,229	78.62	0.01
Use of contraceptive method			
No	1,423	72.95	
Yes	2,764	70.74	0.26
Number of prenatal visits in pregnancy in the last 2 years			
1 to 6	70	70.1	
7 or more	297	80.01	0.04

Table 2 (continued)

NGO: nongovernmental organization.

* Total number of female sex workers sampled;

** Proportion of usual source of care weighted by the RDS-II estimator.

received female condoms in the previous six months (OR = 1.28; 95%CI: 1.00-1.64), and a HIV test anytime in life (OR = 1.34; IC95%: 1.00-1.82) (Table 3).

Discussion

The study showed a high proportion of female sex workers with a usual source of healthcare in Brazil, predominantly in PHC services, the latter consistent with findings in the general population in the last PNS ¹⁰. This phenomenon can be understood as due to the expansion of PHC in previous years as the preferred portal of entry into the Brazilian Unified National Health System (SUS), which is present in the most remote sites in Brazil's territory ²⁷, with community health workers in hard-to-reach communities ²⁸ and healthcare workers trained in basic women's healthcare, such as application of rapid tests and counseling for HIV and other STIs, low-risk prenatal care, and Pap smear test ²⁹.

Table 3

Outcomes 18-24 years ≥ 25 years OR 95%CI OR 95%CI adjusted * adjusted * Indicators of STI and HIV prevention Attended talks on STI in the previous 6 months 1.40 0.99-2.07 1.45 1.12-1.89 Received male condoms in the previous 6 months 1.26 0.88-1.21 1.20 0.88-1.65 Received female condoms in the previous 6 months 1.29 0.89-1.87 1.28 1.00-1.64 HIV test (lifetime) 1.33 0.98-1.82 1.34 1.00-1.82 Prior knowledge of post-exposure prophylaxis 1.33 0.93-1.89 1.32 1.02-1.71 Indicators of use of reproductive health services Pap smear test 2.27 1.66-3.12 1.92 1 54-2 40 ≥ 7 prenatal visits during a pregnancy in the last 2 2.56 1.30-5.03 0.95 0.38-2.36 years Use of contraceptive method 1.64 1.09-2.46 1.01 0.76-1.34

Multivariate model of usual source of care according to indicators of sexually transmissible infections (STIs) and HIV prevention and use of reproductive health services among female sex workers in 12 Brazilian cities, 2016.

95%CI: 95% confidence interval; OR: odds ratio.

* Adjusted by income.

According to Starfield et al. ³, the use of PHC as usual source of care translates as better health outcomes. In Brazil, PHC greatly expanded the coverage of basic health services for the population, following the process of re-democratization with the 1988 *Federal Constitution*, especially for the poorer population and in women's health ³⁰. These data demonstrate the importance of the mode of healthcare based on PHC in Brazil, the principal provider of preventive services for the Brazilian population ³¹. Despite the predominance of PHC as usual source of care among female sex workers, its implementation is not homogeneous across Brazil ^{32,33}, which poses a challenge in large cities, where home care, community activities, and coverage of this service are still limited ^{29,34}.

Use of health services depends on individual needs determined by demographic and social characteristics, in addition to health status and the services' accessibility, acceptability, and adequacy ³⁵. One of the most important demographic characteristics in the determination of health services use is age, a factor that may be heavily associated with overall health status, but other factors include social gender markers, race/color, schooling, income, and social class, which can aggravate individuals' health status by subjecting them to limited conditions for access to health services, as is the situation of many black women on the outskirts of large Brazilian cities, with little access to education, work, and income ^{36,37}.

The study found that indicators of STI and HIV prevention and use of reproductive health services were better among female sex workers with usual source of care. Besides, indicators of use of reproductive health services were better among younger female sex workers with usual source of care. The majority of famele sex workers in this study had a usual source of care related to PHC. We can thus raise the hypothesis that PHC has a positive effect on these indicators, since one of the reproductive health services offered by PHC is family planning, including the prescription of contraceptive methods, among which hormonal contraceptives. Couto et al. ³⁸, in a study of famale sex workers, reported that younger women (18 to 34 years) used more hormonal contraceptives when compared to their older peers, probably due to greater access and receptiveness in health services.

These results may also be related to the expansion and intensification of activities and services in HIV/AIDS prevention in PHC since 2011, strategically integrating the network of prevention, diagnosis, and treatment ^{39,40}. Many of these services are also offered by specialized HIV/AIDS services. Thus, the role of usual source of care related to these specific services in indicators of STI and HIV prevention can be further explored in future studies. In other countries, access by female sex workers to STI and HIV prevention services is more difficult. In Nepal, for example, free distribution of con-

doms is only allowed for married persons, since sex work is illegal, and it is culturally unacceptable for unmarried women to purchase condoms ⁴¹, despite evidence in favor of condom distribution and reduction of HIV incidence among female sex workers and their clients ²⁰.

The study has some limitations. This is a cross-sectional study that cannot assess the chronological sequence of the events in relation to predictive factors. In addition, although RDS is the best method for accessing hard-to-reach populations such as female sex workers, it is a non-probabilistic sampling process, which can affect the population estimates, especially due to the dependence between observations. To overcome these limitations in the RDS, the study used a robust analysis that considered the complex study design and sampling weight to correct the estimates.

Conclusion

The study's findings have important implications for the healthcare model in Brazil and in other countries, especially those that aim to adopt PHC as the health system's backbone. The expansion and consolidation of PHC can increase this population's access to services and thus allow female sex workers to obtain better follow-up and monitoring of their general health needs, since these women had PHC as the principal usual source of care in this study. In this sense, the services comprising PHC are potential spaces for investment in healthcare activities targeted to female sex workers, aimed at decreasing the vulnerabilities to which they are often exposed.

Female sex workers are one of the key populations for dealing with issues related to HIV. Thus, knowing which health services are used by this group and providing a usual source of care may impact care and activities in reproductive health and HIV and STI prevention in this population. It is thus necessary to invest in strategies to link this population to health services and combat stigma and discrimination related to sex work.

Contributors

T. C. G. Matteoni conceived the study, analyzed the data, wrote the article, reviewed the literature, and revised the final version. L. Magno analyzed the data, wrote the article, and revised the final version. C. G. Luppi, A. Grangeiro, C. L. Szwarcwald and I. Dourado wrote the article and revised the final version.

Additional informations

ORCID: Talita Castro Garcia Matteoni (0000-0002-3496-5658); Laio Magno (0000-0003-3752-0782); Carla Gianna Luppi (0000-0001-9183-8594); Alexandre Grangeiro (0000-0001-5157-0597); Celia Landmann Szwarcwald (0000-0002-7798-2095); Inês Dourado (0000-0003-1675-2146).

Acknowledgements

The authors wish to thank the female sex workers that participated in the study, the local fieldwork teams in the 12 cities, the collaborating NGOs, the Department of Chronic Diseases and Sexually Transmitted Infections/Ministry of Health, and researchers Paulo Roberto Borges, Orlando Ferreira, Giseli Damacena, Neide Gravato, Rita Bacuri, Helena Brigido, Hermelinda Macena, Ana Brito, Mark Drew C. Guimarães, Wanessa de Almeida, Karin Regina Luhm, Isete Maria Stella, Adriana Espinola, Tiana Varela, and Francisca Sueli da Silva.

References

- 1. Starfield B. Is primary care essential? Lancet 1994; 344:1129-33.
- Damiano PC, Momany ET, Tyler MC, Penziner AJ, Lobas JG. Cost of outpatient medical care for children and youth with special health care needs: investigating the impact of the medical home. Pediatrics 2006; 118:e1187e94.
- 3. Starfield B, Shi L. The medical home, access to care, and insurance: a review of evidence. Pediatrics 2004; 113 Suppl 4:1493-8.
- Da Cunha EM, Giovanella L. Longitudinalidade/continuidade do cuidado: identificando dimensões e variáveis para a avaliação da Atenção Primária no contexto do sistema público de saúde brasileiro. Ciênc Saúde Colet 2011; 16:1029-42.
- Starfield B. Access, primary care, and the medical home: rights of passage. Med Care 2008; 46:1015-6.
- Du Z, Liao Y, Chen C-C, Hao Y, Hu R. Usual source of care and the quality of primary care: a survey of patients in Guangdong province, China. Int J Equity Health 2015; 14:60.
- Tsai J, Shi L, Yu W-L, Lebrun LA. Usual source of care and the quality of medical care experiences: a cross-sectional survey of patients from a Taiwanese community. Med Care 2010; 48:628-34.
- Ryan S, Riley A, Kang M, Starfield B. The effects of regular source of care and health need on medical care use among rural adolescents. Arch Pediatr Adolesc Med 2001; 155:184-90.
- 9. Blewett LA, Johnson PJ, Lee B, Scal PB. When a usual source of care and usual provider matter: adult prevention and screening services. J Gen Intern Med 2008; 23:1354-60.
- 10. Dourado I, Medina MG, Aquino R. The effect of the Family Health Strategy on usual source of care in Brazil: data from the 2013 National Health Survey (PNS 2013). Int J Equity Health 2016; 15:151.
- Departamento de DST, Aids e Hepatites Virais, Secretaria de Vigilância em Saúde, Ministério da Saúde. Pesquisa de conhecimentos, atitudes e práticas na população brasileira. Brasília: Ministério da saúde; 2016. (Série G Estatística e Informação em Saúde).
- Damacena GN, Szwarcwald CL, Souza Júnior PRB, Dourado I. Risk factors associated with HIV prevalence among female sex workers in 10 Brazilian cities. J Acquir Immune Defic Syndr 2011; 57 Suppl 3:S144-52.
- Damacena GN, Szwarcwald CL, Souza Júnior PRB. HIV risk practices by female sex workers according to workplace. Rev Saúde Pública 2014; 48:428-37.
- 14. Li Y, Detels R, Lin P, Fu X, Deng Z, Liu Y, et al. Prevalence of human immunodeficiency virus and sexually transmitted infections and associated risk factors among female sex workers in Guangdong Province, China. J Acquir Immune Defic Syndr 2010; 53 Suppl 1:S48-53.

- Khan MR, Turner AN, Pettifor A, Van Damme K, Rabenja NL, Ravelomanana N, et al. Unmet need for contraception among sex workers in Madagascar. Contraception 2009; 79:221-7.
- Love R. Street level prostitution: a systematic literature review. Issues Ment Health Nurs 2015; 36:568-77.
- 17. Dourado I, Guimarães MDC, Damacena GN, Magno L, Souza Júnior PRB, Szwarcwald CL, et al. Sex work stigma and non-disclosure to health care providers: data from a large RDS study among FSW in Brazil. BMC Int Health Hum Rights 2019; 19:8.
- Lima FSS, Merchán-Hamann E, Urdaneta M, Damacena GN, Szwarcwald CL. Fatores associados à violência contra mulheres profissionais do sexo de dez cidades brasileiras. Cad Saúde Pública 2017; 33:e00157815.
- 19. Shannon K, Strathdee SA, Goldenberg SM, Duff P, Mwangi P, Rusakova M, et al. Global epidemiology of HIV among female sex workers: influence of structural determinants. Lancet 2015; 385:55-71.
- Beyrer C, Crago A-L, Bekker L-G, Butler J, Shannon K, Kerrigan D, et al. An action agenda for HIV and sex workers. Lancet 2015; 385:287-301.
- 21. Wahed T, Alam A, Sultana S, Rahman M, Alam N, Martens M, et al. Barriers to sexual and reproductive healthcare services as experienced by female sex workers and service providers in Dhaka city, Bangladesh. PLoS One 2017; 12:e0182249.
- 22. Szwarcwald CL, Damacena GN, Souza-Júnior PRB, Guimarães MDC, Almeida WS, Souza Ferreira AP, et al. Factors associated with HIV infection among female sex workers in Brazil. Medicine (Baltimore) 2018; 97(1 Suppl):S54-61.
- 23. Szwarcwald CL, Almeida WS, Damacena GN, Souza-Júnior PRB, Costa Ferreira-Júnior O, Guimarães MDC. Changes in attitudes, risky practices, and HIV and syphilis prevalence among female sex workers in Brazil from 2009 to 2016. Medicine (Baltimore) 2018; 97(18 Suppl 1):S46-53.
- Johnston LG, Sabin K. Sampling hard-to-reach populations with respondent driven sampling. Methodological Innovations 2010; 5:38-48.
- 25. Damacena GN, Szwarcwald CL, Souza Júnior PRB, Ferreira Júnior OC, Almeida WS, Pascom ARP, et al. Aplicação da metodologia Respondent-Driven Sampling em pesquisa biológica e comportamental com mulheres trabalhadoras do sexo, Brasil, 2016. Rev Bras Epidemiol 2019; 22 Suppl 1:e190002.
- Salganik MJ, Heckathorn DD. Sampling and estimation in hidden populations using respondent-driven sampling. Sociol Methodol 2004; 34:193-240.
- Garnelo L, Lima JG, Rocha ESC, Herkrath FJ. Acesso e cobertura da atenção primária à saúde para populações rurais e urbanas na região norte do Brasil. Saúde Debate 2018; 42:81-99.

- Nunes CA, Aquino R, Medina MG, Vilasbôas ALQ, Pinto Júnior EP, Luz LA. Visitas domiciliares no Brasil: características da atividade basilar dos agentes comunitários de saúde. Saúde Debate 2018; 42:127-44.
- 29. Santos AM, Giovanella L, Mendonça MHM, Andrade CLT, Martins MIC, Cunha MS. Práticas assistenciais das Equipes de Saúde da Família em quatro grandes centros urbanos. Ciênc Saúde Colet 2012; 17:2687-702.
- Paim J, Travassos C, Almeida C, Bahia L, Macinko J. The Brazilian health system: history, advances, and challenges. Lancet 2011; 377:1778-97.
- Pinto HA, Sousa ANA, Ferla AA. O Programa Nacional de Melhoria do Acesso e da Qualidade da Atenção Básica: várias faces de uma política inovadora. Saúde Debate 2014; 38:358-72.
- 32. Fausto MCR, Giovanella L, Mendonça MHM, Seidl H, Gagno J. A posição da Estratégia Saúde da Família na rede de atenção à saúde na perspectiva das equipes e usuários participantes do PMAQ-AB. Saúde Debate 2014; 38:13-33.
- 33. Medina MG, Hartz ZMA. The role of the Family Health Program in the organization of primary care in municipal health systems. Cad Saúde Pública 2009; 25:1153-67.
- 34. Giovanella L, Mendonça MHM, Escorel S, Almeida PF, Fausto MCR, Andrade CLT, et al. Potencialidades e obstáculos para a consolidação da Estratégia Saúde da Família em grandes centros urbanos. Saúde Debate 2010; 1:248-64.

- 35. Macinko J, Lima Costa MF. Access to, use of and satisfaction with health services among adults enrolled in Brazil's Family Health Strategy: evidence from the 2008 National Household Survey. Trop Med Int Health 2012; 17:36-42.
- 36. Barata RB, Almeida MF, Montero CV, Silva ZP. Health inequalities based on ethnicity in individuals aged 15 to 64, Brazil, 1998. Cad Saúde Pública 2007; 23:305-13.
- Mendoza-Sassi R, Béria JU. Utilización de los servicios de salud: una revisión sistemática sobre los factores relacionados. Cad Saúde Pública 2001; 17:819-32.
- Couto PLS, Gomes AMT, Pereira AB, Carvalho JS, Silva JK, Boery RNSO. Uso de anticonceptivos hormonales por prostitutas: correlación con marcadores de vulnerabilidad social. Acta Paul Enferm 2019; 32:507-13.
- 39. Melo EA, Maksud I, Agostini R. Cuidado, HIV/ Aids e atenção primária no Brasil: desafio para a atenção no Sistema Único de Saúde? Rev Panam Salud Pública 2018;42:e151.
- Zambenedetti G, Silva RAN. Descentralização da atenção em HIV-Aids para a atenção básica: tensões e potencialidades. Physis (Rio J.) 2016; 26:785-806.
- 41. Ghimire L, Smith WCS, van Teijlingen ER. Utilisation of sexual health services by female sex workers in Nepal. BMC Health Serv Res 2011; 11:79.

Resumo

Ter uma fonte habitual de cuidado pode melhorar o acesso a servicos de saúde e acões de prevenção. Assim, o objetivo foi estimar a proporção e fatores associados à fonte habitual de cuidado entre mulheres trabalhadoras do sexo. É um inquérito sociocomportamental com 4.328 mulheres trabalhadoras do sexo, ≥ 18 anos, realizado em 12 cidades brasileiras. Essas mulheres foram recrutadas pelo método respondent-driven sampling (RDS). Foi realizada uma análise descritiva do perfil das mulheres trabalhadoras do sexo que possuíam fonte habitual de cuidado e investigada sua associação aos indicadores de acesso à prevenção do HIV e à saúde reprodutiva. Utilizou-se como medidas de efeito o odds ratio (OR) ajustado em um modelo de regressão logística. Os dados foram ponderados pelo estimador RDS-II. Referiram ter fonte habitual de cuidado, 71,5% das mulheres trabalhadoras do sexo e, destas, 54,3% indicaram a atenção primária à saúde (APS) como a principal fonte habitual de cuidado. Entre as mulheres trabalhadoras do sexo com idades de 18-24 anos, observou-se associação entre a fonte habitual de cuidado e a realização de exame de preventivo ginecológico (OR = 2,27; IC95%: 1,66-3,12), realização de sete ou mais consultas de pré-natal (OR = 2,56; IC95%: 1,30-5,03) e utilização de método contraceptivo (OR = 1.64; IC95%: 1.09-2.46). Entre as mulheres trabalhadoras do sexo com idade ≥ 25 anos, verificou-se associação entre a fonte habitual de cuidado e a participação em palestras sobre infecções sexualmente transmissíveis (IST) (OR = 1,45; 1,12-1,89), conhecimento prévio de profilaxia pós--exposição (OR = 1,32; IC95%: 1,02-1,71) e realização de exame de preventivo ginecológico (OR = 1,92; IC95%: 1,54-2,40). Os resultados deste estudo mostraram que as mulheres trabalhadoras do sexo têm a APS como principal fonte habitual de cuidado. Além disso, a fonte habitual de cuidado pode impactar nos cuidados e acões em relação à saúde reprodutiva e à prevenção de HIV e IST nessa população.

Profissionais do Sexo; Saúde da Mulher; Atenção Primária à Saúde; Acesso aos Serviços de Saúde; Saúde Sexual e Reprodutiva

Resumen

Contar con una fuente habitual de cuidado puede mejorar el acceso a servicios de salud, así como las acciones de prevención. El objetivo fue estimar la proporción de fuente habitual de cuidado, y analizar factores asociados entre mujeres trabajadoras del sexo de 12 ciudades brasileñas. Se trata de una encuesta sociocomportamental con 4.328 mujeres trabajadoras del sexo, edad ≥ 18 años en 12 ciudades brasileñas. Las mujeres trabajadoras del sexo se reclutaron mediante el método respondentdriven sampling (RDS). Se realizó un análisis descriptivo del perfil de las mujeres trabajadoras del sexo que poseían fuente habitual de cuidado. Y se analiza la asociación entre fuente habitual de cuidado e indicadores de acceso a la prevención del VIH, así como a la salud reproductiva, a través del odds ratio (OR) ajustado en modelos de regresión logística. Los dados fueron ponderados mediante el estimador RDS-II. Un 71,5% de las mujeres trabajadoras del sexo informaron tener fuente habitual de cuidado, de estas un 54,31% indicaron la atención primaria en salud. Entre las mujeres trabajadoras del sexo con ≥ 25 años se observó una asociación entre fuente habitual de cuidado y participación en ponencias sobre infecciones sexualmente trasmisibles (IST) (OR = 1,45; IC95%: 1,12-1,89), uso de método anticonceptivo (OR = 1.64; IC95%: 1.09-2.46), conocimiento previo de la profilaxia pos-exposición (OR = 1,32; IC95%: 1,02-1,71), haber realizado un examen preventivo ginecológico (OR = 1,92; IC95%: 1,54-2,40) y haber tenido 7 o más consultas prenatales (OR = 2,56; IC95%: 1,30-5,03). Los resultados de este estudio muestran que las trabajadoras sexuales tienen la APS como su principal fuente habitual de atención. Además, la fuente habitual de atención puede impactar la atención y las acciones en relación con la salud reproductiva y la prevención del VIH y las ITS en esta población.

Trabajadores Sexuales; Salud de la Mujer; Atención Primaria de Salud; Accessibilidad a los Servicios de Salud; Salud Sexual y Reproductiva

Submitted on 30/Jun/2020 Final version resubmitted on 18/Jan/2021 Approved on 29/Jan/2021