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Quality of work life and risk of sexual dysfunction in nurses

Calidad de vida laboral y riesgo de disfunción sexual en enfermeras

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ABSTRACT

Unsatisfactory personal experiences and relationships in the work environment are associated with negative sexual outcomes. Female sexual dysfunction (FSD) is the disturbance of any of the phases of orgasm. Quality of work life (QWL) is the worker's perception between work demands and coping techniques. Objective.: To determine the association between quality of work life and the risk of female sexual dysfunction in nurses of a public hospital in Callao, Peru. Methods: Observational, cross-sectional, analytical study conducted in nurses of the Hospital Nacional Daniel Alcides Carrión (HNDAC) of the Constitutional province of Callao, Peru. The risk of FSD was measured with the Rosen test. CVL was measured with the CVP-35 questionnaire. Statistical analysis was performed with the STATA version 15 program. A value of p<0.05 with a 95% CI was considered significant. Results: The study involved 168 nurses who responded completely. The dimensions of CVL associated with DSF were direct support (p=0.01), intrinsic motivation (p=0.003), the question on work disconnection (p=0.007), monthly income (p=0.003), marital status (p=0.001) and alcohol consumption (p=0.014). There was no association in the multivariate analysis. Conclusion: In the present study there was no association between dimensions of quality of work life and confounder-adjusted risk of female sexual dysfunction.

Key words: Work-life balance, Sexual dysfunction, Nurses, female

Las experiencias y relaciones personales insatisfactorias en el ámbito laboral se asocian a resultados negativos en el aspecto sexual. La disfunción sexual femenina (DSF) es la alteración de cualquiera de las fases del orgasmo. La calidad de vida laboral (CVL) es la percepción del trabajador entre las exigencias del trabajo y las técnicas de afrontamiento. Objetivo. Determinar la asociación entre la calidad de vida laboral y el riesgo de disfunción sexual femenina en enfermeras de un hospital público del Callao, Perú. Método. Estudio observacional, transversal y analítico realizado en enfermeras del Hospital Nacional Daniel Alcides Carrión (HNDAC) de la provincia Constitucional del Callao, Perú. El riesgo de DSF fue medido con la prueba de Rosen. La CVL fue medida con el cuestionario de CVP-35. El análisis estadístico se realizó con el programa STATA versión 15. Se consideró significativo un valor de p<0,05 con un IC de 95%. Resultados. El estudio contó con la participación de 168 enfermeras que respondieron de forma completa. Las dimensiones de CVL asociadas a DSF fueron apoyo directo (p=0,01), motivación intrínseca (p=0,003), la pregunta sobre desconexión de trabajo (p=0,007), el ingreso mensual (p=0,003), el estado civil (p=0,001) y consumo de alcohol (p=0,014). No hubo asociación en el análisis multivariado. Conclusión: En el presente estudio no existió una asociación entre las dimensiones de la calidad de vida laboral y el riesgo de disfunción sexual femenina ajustado por confusores.

Palabras clave. Equilibrio entre vida personal y laboral, Disfunción sexual, Enfermeras

INTRODUCTION

Female sexual dysfunction (FSD) has increased worldwide, with prevalence varying by region. In Spain, a prevalence of up to 42.5% has been reported⁽¹⁾, while in the Middle East it reaches 61%⁽²⁾. In Latin America, specifically in Mexico, the prevalence of FSD is 43%⁽³⁾, while in Peru, the risk in young university women reaches 39.9%(4). Likewise, it has been published that women working in the health sector have a FSD of 85%, with 75% of alterations in sexual desire(5).

'Normal' female sexual function is defined on the basis of statistical values, cultural norms, or both⁽⁴⁾ and is divided into four stages: arous-



al, plateau, orgasm, and resolution. Sexual dysfunction is a disturbance in any of these stages and its prevalence is higher in adulthood and old age⁽⁵⁾. Although accurate diagnosis is made by a mental health professional through the application of the DSM-5 Manual⁽⁶⁾, screening instruments can be useful in estimating the risk of FSD

Good sexual health can offer a number of benefits. Sexual intercourse is considered a form of mild-to-moderate intensity physical activity, similar to climbing two flights of stairs or walking briskly⁽⁷⁾. Regular sexual intercourse can enhance endothelial nitric oxide synthase (eNOS) expression and increase nitric oxide (NO) production, leading to vasodilation and explaining its cardiovascular benefits⁽⁸⁾. On an emotional level, pleasurable intercourse can reduce the burden of stress load and improve the quality of the couple's relationship, strengthening intimacy, trust, passion, and love⁽⁷⁾.

There are factors associated with the risk of FSD, such as marriage of 10 or more years, low frequency of sexual intercourse, dissatisfaction or poor communication with the partner, lack of affection in the marital relationship, sexual impotence of the partner, low level of education, age over 40 years, multiparity, postmenopausal state, medical history (pelvic surgeries, depression, consumption of certain medications, harmful habits), history of physical mistreatment, sexual abuse or both; as well as working in inadequate working conditions(6).

Quality of work life (QWL) refers to the worker's perception of the balance between work demands and the coping strategies he/she uses⁽⁹⁾. This variable is composed of psychological and social factors that include subjective elements linked to personal experience at work, as well as objective factors that relate to the work environment and content⁽¹⁰⁾. In the case of health personnel in Spain, the QWL score was medium-high(11), while in Latin America only 30% of employees reported having an QWL considered high⁽¹²⁾.

Regarding the association between QWL and the risk of FSD, unsatisfactory personal experiences and relationships in the work environment are associated with negative sexual outcomes, with work stress being an intervening variable in this relationship⁽¹³⁾. For some women, occupational stress was independently associated with reduced orgasm and lubrication(14). For example, health care personnel working during epidemics were affected psychologically and sexually by the heavy workload. Reports during the COVID 19 pandemic indicate a marked association between decreased sexual desire (OR: 2.6; p=0.001) and being a health care worker⁽¹⁵⁾. Job stress is known to be frequent in nurses due to work overload in both inpatient and outpatient services(16). The association between QWL and sexual health has not been fully studied in this occupational group in the context of the COVID 19 pandemic(17). Therefore, our main objective was to determine the association between OWL and the risk of FSD adjusted for potential confounders in nurses at a public hospital in the constitutional province of Callao, Peru. Secondarily, we also identified some associated variables.

METHODS

An observational, cross-sectional, analytical study was conducted following the recommendations of the strategy for strengthening the reporting of observational studies in epidemiology (STROBE)(18). The study population consisted of nurses from the Hospital Nacional Daniel Alcides Carrión (HNDAC) in the Constitutional province of Callao, Peru. The HNDAC has 565 inpatient beds and is one of the hospitals with the highest workload in the entire region⁽¹⁹⁾.

The study included nurses with an active work contract with the HNDAC, with a minimum of 12 months of experience and who agreed to participate, as long as they did not have a history of depression. Files that did not have data on the main variables were excluded. The sample size was calculated using the mean comparison formula of our quantitative independent variable (QWL) divided into two groups according to the presence or absence of our outcome variable (FSD). We used the online statistical program OpenEpi Version 3.1, with a confidence level of 95% and a statistical power of 80%. The research team conducted a pilot study in 2021⁽²⁰⁾, the results of which are available online. From these results, a mean difference of 1.08 was considered. The minimum required size was 86 participants for the group with RDSF and 68 for the group without RDSF.



To carry out the data collection, nurses were asked to voluntarily participate in their workplaces, giving them the option of completing the survey in physical or digital format through a form on the Google Forms platform. The time required to complete the survey was around 30 minutes, but an extension of up to 24 hours was allowed if requested by the research subject. Non-probability convenience sampling was carried out during the recruitment period, from January to June 2022.

The dependent variable was the risk of female sexual dysfunction (RFSD) measured with the female sexual function index (FSFI) developed by Rosen et al. in 2000 and translated into Spanish in 2004⁽²¹⁾. This instrument is free and available online(22). It consists of 19 questions covering 6 sexual domains (desire, arousal, lubrication, orgasm, satisfaction, and pain), each with 5 to 6 response options. The score for each domain is multiplied by a coefficient and summed to obtain the total score, which ranges from 2 to 36 points. The average score per domain and the total score were calculated, with a lower score being an indicator of higher risk of RFSD. In addition, a categorization of the variable was established considering a score less than or equal to 26 points as a present risk of sexual dysfunction⁽²³⁾. In 2020 the validation of the FSFI was published in a sample of Colombian women, obtaining a sensitivity of 87.7%, a specificity of 73.9% and an area under the curve of 85.9%⁽²⁴⁾.

The independent variable, QWL, was measured with the professional quality of life questionnaire (CVP-35), based on the demand control model formulated by Karasek⁽²⁵⁾, validated, and adapted to Spanish by Cabezas⁽²⁶⁾, which is freely available. This questionnaire consists of 35 questions grouped into 3 categories: direct support (13 questions), intrinsic motivation (9 questions) and workload (11 questions), in addition to including two questions outside the aforementioned categories relating to overall quality of work life and the ability to disconnect from work. Each question was rated on a Likert-type scale from 1 to 10⁽²⁶⁾. The final score was the average obtained in each dimension. For the first two dimensions, it was considered that the higher the score, the better the QWL, while for the workload dimension, the higher the score, the lower the QWL. Previous studies in the Spanish population have shown that the internal consistency of each dimension is acceptable (Cronbach's α between 0.7)⁽²⁷⁾

Sociodemographic data were collected including age, marital status (single, married, cohabiting, widowed, divorced/separated), and number of children. In addition, medical history was collected, such as harmful habits (alcohol, tobacco), atherosclerotic cardiovascular diseases such as diabetes or arterial hypertension (AHT), and nutritional status was assessed through body mass index (BMI) according to the World Health Organization (WHO) classification⁽⁶⁾. Descriptive data were also collected on the work component, including the services in which they worked (adult outpatient clinic, child outpatient clinic, adult hospitalization, child hospitalization, emergency and critical care, recovery, and sterilization center), average salary, number of shifts per month, hours of work per day and number of institutions in which they worked.

The data were compiled in a collection matrix in the Microsoft Excel program and the double digitization technique was used for quality control. Statistical analysis was performed using STATA version 15 and no missing values were considered in any of the analyses. Numerical variables were summarized by median and interquartile range, while categorical variables were summarized with absolute and relative frequencies. The Shapiro-Wilk statistical test was used to assess normality. The association of numerical variables in two groups was estimated using the Mann Whitney U test, while the Fisher exact test was used for categorical variables. The strength of association between QWL and DSF risk was assessed using Poisson-type generalized linear models with robust variance to calculate crude (cPR) and adjusted (aPR) prevalence ratios. A model was constructed that included the associated variables in the bivariate analysis as well as some potential theoretical confounders such as age, alcohol, smoking, comorbidities, and obesity. A value of p<0.05 with a 95% confidence interval was considered significant.

The study was approved by the Institutional Research Ethics Committee of the University (CIEI-Científica) with official letter number 187-2020-PREB15; the confidentiality of the participants was maintained using a system of codification of personal data.



RESULTS

Data from 168 nurses who met the established selection criteria were analyzed (Figure 1). Univariate analysis found that the median age was 37 years and 40.5% (n=68) were single. In addition, 67.5% of the nurses reported consuming alcohol at least 1 time per month. In terms of QWL, a mean of 6.19 was obtained for the direct support dimension, 5.86 for the workload dimension, and 7.77 for the intrinsic motivation dimension. RSFD was present in 81 of the 168 nurses (see Tables 1 and 2).

Bivariate analysis found that several dimensions of the QWL were significantly associated with RSFD, including direct support (p=0.01), intrinsic motivation (p=0.003) and the work disengagement question (p=0.007). In addition, monthly income (p=0.003), marital status (p=0.001) and alcohol consumption (p=0.014) also showed a significant association with RSFD. All these results are presented in Tables 1 and 2.

To answer the research question, a Poisson regression analysis with adjusted model (for the variables age, marital status, alcohol consumption, working hours, monthly income, and the scores of each dimension) was carried out. No association was found between the QWL and RSFD dimensions (direct support PR: 1.02, Cl: 0.89-1.17, p: 0.739; intrinsic motivation PR: 0.91, Cl: 0.77-1.17, p: 0.272 and workload PR: 1.05, Cl: 0.94-1.17, p: 0.330). However, an association was observed between age (PR: 1.02, Cl: 1.00-1.03, p: 0.002), marital status (married PR: 0.51, Cl: 0.33-0.79, p: 0.003 and cohabiting PR: 0.32, Cl: 0.14-0.70, p: 0.004) and monthly income (PR: 0.99, Cl:

FIGURE 1: PARTICIPANT SELECTION FLOWCHART.

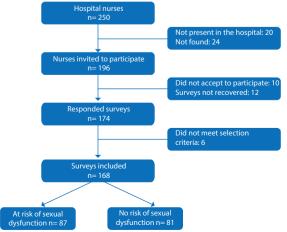


Table 1. Sociodemographic characteristics of nurses according to risk of sexual dysfunction* (n=168).

		At risk	No risk			
Variables	Total n	of sexual	of sexual	p		
	(%)	dysfunction n (%)	dysfunction n (%)	value		
Age P50 [RIQ]	37 (48-31)	39 (51-31)	36 (43-31)	0.113ª		
rige		arital status	30 (43 31)	0.001 ^b		
Single	68 (40.5)	40 (49.4)	28 (32.2)			
Married	44(26.2)	16 (19.8)	28 (32.2)			
Cohabitant	30 (17.9)	7 (8.6)	23 (26.4)			
Widowed	5 (2.9)	3 (3.7)	2 (2.3)			
Separated/ divorced	21 (12.5)	15 (18.5)	6 (6.9)			
	Alcoh	ol consumption		0.014 ^b		
Never	54 (32.5)	34 (42.5)	20(23.3)			
1 time per month	84 (50.6)	38 (47.5]	46 (53.5)			
2-4 times a month	26 (15.7)	8 (10)	18 (20.9)			
2 times a week or more	2 (1.2)	0 (0.0)	2 (2.3)			
		Tobacco		0.673 ^b		
Never	163 (97.0)	78 (96.3)	85 (97.7)			
At least 1 cigarette per day	5 (2.9)	3 (3.7)	2 (2.3)			
	Nuti	ritional status		0.193 ^b		
Normal weight	88 (52.4)	40 (49.4)	48 (55.2)			
Overweight	48 (28.6)	21 (25.9)	27 (31.0)			
Obese	32 (19.1)	20 (24.7)				
Comorbidities						
None	146 (86.9)	70 (86.4)	76 (87.4)			
HT	18 (10.7)	9 (11.1)	9 (10.3)			
DM	4 (2.4)	2 (2.5)	2(2.3)			

X=mean, SD=standard deviation, p50=median, IQR=interquartile range.

^a=Mann Whitney U test, ^b=Fisher's exact test.

0.99-1.00, p: 0.019) and the dependent variable. These variables were adjusted for all the variables in the crude analysis (see Table 3).

DISCUSSION

In this study, no evidence was found to suggest an association between the dimensions of the QWL and RSFD adjusted for sociodemographic variables, harmful habits, comorbidities, and monthly income. In particular, low scores on the direct support dimension were not significantly associated with a higher prevalence of RSFD. However, it is important to keep in mind that

^{*}Risk of sexual dysfunction was assessed with the Rosen test: with risk of sexual dysfunction <= 26 points, without risk of sexual dysfunction > 26 points. HT=hypertension, DM=diabetes mellitus.



TABLE 2. JOB CHARACTERISTICS OF NURSES ACCORDING TO RISK OF SEXUAL DYSFUNCTION * (N=168).

Variables	Total n (%)	At risk of sexual dysfunction n (%)	No risk of sexual dysfunction n (%)	<i>p</i> -value	
Years of working experience P50 [RIQ]	11 (18.5-5)	11 (23-5)	11 (16 -5)		
Work area				0.748 ^b	
Adult outpatient consultation	23(13.8)	14 (17.7)	9 (10.3)		
Adult hospitalization	62 (37.4)	28 (35.4)	34 (39.1)		
Outpatient children	3 (1.8)	1 (1.3)	2 (2.3)		
Children's hospitalization	22 (13.3)	11 (13.9)	11 (12.6)		
Emergency / Critical Care	47 (28.3)	22 (27.9)	25 (28.7)		
OR and recovery	9 (5.4)	3 (3.8)	6 (6.9)		
Working hours per day P50 [IQR]	12 (12 – 12)	12 (12 – 12)	12 (12 – 12)	0.082ª	
Number of 12-hour shifts per month	6 (12-6)	6 (<u>12</u> -6)	6 (10-6)	0.950°	
Monthly income, soles P ^{50 [IQR]}	3.600 (4.600 – 3.500)	3.500 (5.000 – 2.500)	4.000 (6.000 – 3.500)	0.003ª	
QWL p50 [IQR]**					
Direct support	6.19 (7.12-5.23)	5.77 (5.08-6.69)	6.62 (7.38-5.23)	0.011ª	
Workload	5.86 (7.05-4.73)	5.55 (6.91-4.73)	6.18 (7.09-4.82)	0.347ª	
Intrinsic motivation	7.77 (8.55-6.72)	7.44 (8.33-6.22)	8 (8.66-7.11)	0.003ª	
Overall appraisal	7 (8-5)	7 (8-5)	7 (9-6)	0.091ª	
Disengagement from work	6 (8-4)	6 (8-3)	7(8-5)	0.007ª	

OR=operating room, P50=median, IQR=interquartile range, QWL=quality of work life.

a=Mann Whitney U test, b=Fisher's exact test.

**The QWL was measured with the CVP-35: with median comparison.

this study was conducted in the context of the COVID-19 pandemic, which could have led to all research subjects having similar scores on several of the items measured by this dimension. In addition, the sample size limited only to the direct support dimension of the CVP-35 may have limited the ability to detect significant associations in other dimensions. Despite this, it was observed that older age, lack of a current partner, and low financial remuneration were significantly associated with a higher prevalence of RSFD. These findings may be of interest for the implementation of workplace health policies and programs aimed at RSFD prevention.

In our research, nurses with RSFD had lower median scores on the direct support and intrinsic motivation dimensions of the QWL score compared with those without RSFD, suggesting a possible relationship between QWL and sexual dysfunction. This is consistent with previous studies that have found a high prevalence of sexual dysfunction in nurses and other health care professionals associated with factors such as job stress, job dissatisfaction, and an unsupportive work environment. For example, Von Hippel C. et al. in 2019 reported that 50% of sexually active

middle-aged nurses may have sexual dysfunction(28) and Yan Y. et al. found that in them sexual dysfunction was associated with low pay⁽⁹⁾. In addition, Papaefstathiou E. et al. found that job stress was negatively related to lubrication (p=0.031) and orgasm (p=0.012) in health care workers(17). These results highlight the importance of addressing the quality of work life and emotional well-being of health care professionals as a measure to prevent and treat sexual dysfunction.

The median age of the nurses was 37 years, being slightly higher in women with RSFD (39 years). We found that for each year of age the prevalence of RSFD increased by 2% (PR: 1.02, p: 0.002). The risk of sexual dysfunction increases with age, reaching 22% for women between 50-65 years and up to 47% in women between 66-74 years⁽²⁹⁾. In addition, several authors have found that the frequency of sexual activity also decreases with increasing age. G. Ribes et al. mention that with increasing age, the frequency of sexuality in its genital dimension and sexual desire decreases, being more frequent in women⁽³⁰⁾. Mary Ni Lochlainn BSc et al. publish data where 68% of postmenopausal women

^{*}Risk of sexual dysfunction was assessed with the Rosen test; with risk of sexual dysfunction<=26 points, without risk of sexual dysfunction > 26 points,



TABLE 3. ASSOCIATION BETWEEN QWL AND RISK OF SEXUAL DYSFUNCTION: CRUDE AND ADJUSTED ANALYSIS (N= 168).

Variables	Categories		Raw analysis			Adjusted **		
		PR	CI 95%	p-value	PR	CI 95%	p-value	
QWL	Direct support	0.89	0.81-0.97	0.009	1.02	0.89-1.17	0.739	
	Workload	0.95	0.87-1.05	0.369	1.05	0.94-1.17	0.330	
	Intrinsic motivation	0.88	0.82-0.95	0.001	0.91	0.77-1.07	0.272	
	Overall appraisal	0.94	0.88-1.00	0.092	0.98	0.89-1.07	0.670	
	Disengagement from work	0.91	0.85-0.96	0.003	0.97	0.91-1.33	0.396	
Age, years		1.01	1.01-1.02	0.038	1.02	1.00-1.03	0.002	
I	Marital status							
	Single	Ref			Ref			
	Married	0.62	0.39-0.95	0.032	0.51	0.33-0.79	0.003	
	Cohabitant	0.39	0.20-0.78	0.008	0.32	0.14-0.70	0.004	
	Widowed	1.02	0.48-2.15	0.958	0.67	0.31-1.44	0.314	
	Separated/divorced	1.21	0.86-1.70	0.258	0.95	0.31-1.45	0.824	
Alcol	ol consumption *							
	No	Ref			Ref			
	Yes	0.54	0.29-1.00	0.053	0.59	0.34-1.02	0.063	
	Tobacco use							
	Never	Ref			Ref			
	At least 1 cigarette per day	1.25	0.60-2.61	0.547	0.86	0.45-1.66	0.674	
	Obesity							
No		Ref			Ref			
Yes		1.39	1.00-1.93	0.047	1.29	0.94-1.76	0.109	
(Comorbidities							
None		Ref			Ref			
HT		1.04	0.63-1.70	0.868	0.66	0.41-1.07	0.093	
DM		1.04	0.38-2.82	0.934	0.97	0.32-2.89	0.959	
Working hours per day		1.06	1.01–1.11	0.005	1.04	0.99-1.10	0.080	
Monthly income		0.99	0.99-0.99	0.006	0.99	0.99-1.00	0.019	

QWL=quality of working life, PR=prevalence ratio, Cl=confidence interval, HT=hypertension, DM=diabetes mellitus. Alcohol consumption was considered to be present if alcoholic beverages were consumed at least every two weeks.

present sexual problems⁽³¹⁾. The explanation for this phenomenon could be found in the presence of medical, pharmacological, and biological factors. In women from middle age onwards, menopause and climacteric age produce changes in the adequate lubrication of the vaginal canal, decreasing sexual interest⁽³²⁾.

Regarding the marital status of the nurses in our study, we found that the most common was currently being in a couple (married and cohabiting), which was protectively associated with RSFD (married: PR 0.51 p=0.03; cohabiting PR: 0.32 p: 0.004). These findings are consistent with the results of a study conducted in Cameroon, where women with a history of being married or in a relationship were found to be less likely to have FSD(33). In addition, another study evaluating the prevalence of dysfunction in patients with comorbidities found that those who were widowed (p=0.314) or divorced (p=0.824) were at higher risk of sexual dysfunction compared to those who were married (p=0.003) and cohabiting $(p=0.004)^{(34)}$. It is possible that this is due more to feelings and type of relationship than to the frequency of sexual intercourse, since sexual arousal is a consequence of desire, and the latter has a relationship with emotional intimacy as a motivator of sexual response⁽³⁵⁾.

In the present study, we found that the median monthly income was 4,000 soles for women without RSFD and 3,500 soles for women with RSFD. A significant inverse association was observed between RSFD and monthly economic income (PR: 0.99, p: 0.019), i.e., for every one sol increase in salary, RSFD decreased by 1%. Similar findings were published in a study conducted in China, where participants with a salary higher than 5,000 yuan/ month did not present RSFD compared to those

^{**}Adjusted: adjusted for all variables



with a salary lower than 3,000 yuan/month who showed a higher RSFD (OR = 1.820, CI95% = 1.265 to 2.618)⁽⁸⁾. In addition, another study conducted in Ecuador also found that economic position associated with low income increased RSFD(36) as well as symptom severity by age.

Our study has certain limitations. Since it is a cross-sectional study, we have not been able to evaluate the variable of temporality and, therefore, we can only show associations, but not causality. Given that there are no previous studies on this topic in Latin America, we believe that this work represents a first approximation to the phenomenon. An accurate diagnosis of sexual dysfunction would require a good clinical history including medical and sexual history, as well as a physical examination and, if necessary, laboratory tests. However, the Rosen test tool has a high sensitivity (87.7%) and specificity (73.9%)(24), has been validated in many countries around the world and is accepted for the screening of this health problem. Regarding the tool used to assess CVP, it has demonstrated acceptable internal consistency, although we have not found previous publications reporting its sensitivity and/or specificity results.

Although psychological variables (stress, anxiety, depression)(12) have been demonstrated as causes of sexual dysfunction, we did not include them in our study because adding more questions to our data collection instrument would have increased the rejection rate. The sample size was calculated for only one dimension of the CVP questionnaire (the direct support dimension) because of its feasibility, which limits the generalizability of the results. In addition, the use of non-probability convenience sampling means that the population studied is not representative. Despite these limitations, we believe that the research question is interesting and that the results of RFSD prevalence are relevant from a public health point of view.

The main strength of our study lies in having identified a high prevalence of female sexual dysfunction, which is an easily identifiable health problem through screening and is treatable. Moreover, its prevalence is expected to increase with age, reaching an estimated 43% in the 40-49 age group(37). We believe that these results can improve health strategies to prevent and identify sexuality-related problems in health personnel.

CONCLUSIONS AND RECOMMENDATIONS

After performing the analysis of the data obtained, we can conclude that no significant association was found between the different dimensions of quality of work life (QWL) and work-related sexual dysfunction (WRSD), when adjusting for possible confounding factors. The direct support dimension, although it obtained low scores, did not have a significant impact on the prevalence of RSFD. In addition, it is important to note that due to the context of the COVID-19 pandemic, several of the items in this dimension obtained similar scores. It is possible that the limitation of the sample size to only the direct support dimension of the CVP-35 may have influenced the lack of association in the other dimensions. On the other hand, an association was found between age, marital status, and monthly income with the dependent variable, suggesting that these variables may influence the occurrence of RSFD.

It is recommended to future researchers in the field of female sexual dysfunction (FSD) that, for a more accurate diagnosis, complete medical histories should be taken, including medical and sexual history, and physical examinations and, if necessary, laboratory tests should be performed. Likewise, it is suggested that tools with fewer questions be designed to evaluate or screen for FSD and thus reduce the rejection rate in data collection. In addition, it would be convenient to explore variables that were not explored in depth in this study, such as the presence of metabolic diseases, pregnancy, partner abuse and religion. On the other hand, it is recommended to carry out multicenter studies at the national level that include the male population in order to increase the sample size and representativeness of the sample. It is important to mention that, according to data from the Ministry of Health, only 7.8% of nurses work in Metropolitan Lima, equivalent to a total of 688 nursing professionals⁽³⁸⁾. These findings point to the need to improve the sexual health care of nursing professionals and to conduct more studies in the Peruvian context.

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