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PII: S2414-6447(24)00040-X

DOI: https://doi.org/10.1016/j.glohj.2024.08.001

Reference: GLOHJ 172

To appear in: Global Health Journal

Received date: 2 March 2024 Revised date: 28 June 2024 Accepted date: 6 August 2024



Please cite this article as: Padam P Simkhada, Edwin van Teijlingen, Manju Gurung, Samjhana Bhujel, Kalpana Gyawali, Sharada P Wasti, Workplace harassment faced by female Nepalese migrants working aboard, *Global Health Journal* (2024), doi: https://doi.org/10.1016/j.glohj.2024.08.001

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#### RESEARCH PAPER

## Workplace harassment faced by female Nepalese migrants working aboard

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### **Abstract**

## **Background**

Nepal has a long history of labour migration over the years. Migrants can experience a range of problems in their destination countries, and women are more at risk than men. This paper is the first to explore the problems faced by Nepalese women migrants while working abroad.

### **Methods**

This study was conducted among 1,889 women who were registered as migrant returnees at an organisation called Pourakhi Nepal. The study extracted and analysed data from a non-governmental organisation that supports returning female migrant workers in Nepal.

#### Results

Around half (43.1%) of the women were 35 or older, 30.9% were illiterate, and 63.6% were in their first overseas job. More than one-third (38.5%) had self-reported workplace harassment. Physical violence was the most prevalent (68%), followed by verbal abuse (37.5%), mental stress (29.7%), and sexual abuse (14.1%). Women who were illiterate (adjusted odds ratio [AOR]1.25, 95% confidence interval [CI]: 1.01 to 1.55), unmarried (AOR 1.27, 95% CI: 1.05 to 1.56), worked abroad twice or more years (AOR 1.35,

95% CI: 1.10 to 1.66), changed their place of work (AOR 2.38, 95% CI: 1.42 to 4.01), lived without

documents (AOR 1.24, 95% CI: 1.03 to 1.50), worked as domestics (AOR 3.56, 95% CI: 2.03 to 6.23),

worked in other than Gulf Cooperation Council countries (AOR 1.45, 95% CI: 1.06 to 1.99), women who

did not have a fixed salary (AOR 1.64, 95% CI: 1.28 to 2.10) and did not receive salary (AOR 3.71, 95%

CI: 2.88 to 4.77) were more likely to be harassed at work.

Conclusion

Our findings suggest that the host governments should introduce and enforce policies protecting women

in the workplace. Migrant women should be provided with better information about health risks and

hazards as well as how to improve preventive measures in destination countries to reduce workplace

harassment.

Keywords: Health problems; Migration; Exploitation; Middle East; South Asia

1. Introduction

Migration is a global phenomenon and it is formally recognised by the Sustainable Development

Goals as a powerful tool for poverty reduction. There are more international migrants in the world today

than ever before, and migration is an increasingly important contributing factor to Nepal's economy; more

than a quarter (28%) of Nepal's gross domestic product is based on remittances from abroad.<sup>2,3</sup>

Approximately 3.5 million Nepalese are working as migrant workers in the Middle East, Malaysia, and

India.<sup>4</sup> The Gulf Cooperation Council (GCC) countries and Malaysia are the most attractive destinations

with 88 per cent of Nepalese migrant workers opting for these countries in 2018 or 2019.<sup>3</sup> Although the

overwhelming majority of migrant workers are male, it is estimated women represent between five to ten

per cent of Nepal's migrant workers.<sup>5</sup>

The health and well-being of migrants are often neglected although it is both a public health and a

human rights issue for both sending and host states. Evidence suggests that migrant workers are at high

risk due to hazardous occupational exposures, leading to injuries and death, for example, domestic workers

often end up in unregulated jobs in the host country, 7 or white-collar workers. 8 Previous research also

revealed that migrant workers are overrepresented in physically demanding high-risk jobs such as

manufacturing, mining, construction, and farming and have a higher proportion of occupational issues,

including discrimination, and exploitation, than native-born workers. 9-12 Moreover, more than 1000 deaths

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occur annually among Nepalese migrant workers, and many more cases of injuries, mental and physical health problems in the Middle East and Malaysia. Workplace-related harassment is becoming a problem in all sectors of the economy, this has led to the formulation of anti-harassment policies by several non-government organizations (NGOs). Migrant women often do domestic work in the private sphere where they are more vulnerable to abuse and exploitation at the hands of employers and can suffer a range of physical and mental stressors. Limited mobility, exploitation, long working hours and unsanitary lifestyles can lead to an increase in occupational health problems. Although men and women make up equal proportions of international migrants, more research has been conducted on men despite migrations having different implications for men and women in both the sending and host country. However, no comprehensive evidence synthesis has been conducted to understand the workplace harassment and abuses faced by Nepalese female migrant workers abroad. Therefore, this study was conducted to assess harassment and problems in the workplace experienced by Nepalese women migrants during foreign employment.

#### 2. Methods

## 2.1. Data source and study populations

The study was based on secondary analysis <sup>20</sup> of information collected from 1,889 returnee female migrants with an emergency shelter run by Pourakhi Nepal over an eight-year period (July 2009 to March 2017). Pourakhi Nepal as a NGO provides short to medium-term shelter and emotional support including transportation, counseling and health care services to returned migrant women in need. An interview was conducted by a counselor from Pourakhi Nepal, using the client information form during their stay at the shelter. Our research team then extracted the required information from the client's information using a questionnaire form. The primary outcome variable in the analysis was self-reported workplace harassment during the women's stay abroad. The questionnaire established whether women answered "yes" or "no" to the question asked by shelter staff, i.e., did you face any workplace-related harassment while you were working in abroad? Harassment in this study is self-reported and refers to systematic repeated unethical acts that reduce the worker's sense of self-worth, as the victim cannot defend herself.<sup>21</sup>

### 2.2. Data analysis

The data set was cleaned by the authors and transferred to SPSS without identifying individual women. It was analysed using descriptive statistics and multivariate logistic regression analyses to find any independent factors associated with workplace harassment faced during the abroad work. The primary

outcome variable in the analysis was self-reported workplace harassment during the women's stay abroad. The dependent variable was faced workplace harassment', and the independent variables were: socio-demographic, migration, and work-related variables, whereas workplace harassment was coded 0 = no and 1 = yes. Independent variables were considered significant at a value of P < 0.05.

### 2.3. Ethical consideration

Ethical approval was obtained from the Nepal Health Research Council (NHRC 150/2012). Individual women were asked for verbal consent, and no identifiers were recorded in the electronic dataset to maintain anonymity and confidentiality in this data set.

### 3. Results

### 3.1. Demographic characteristics of the study

A total of 1,889 women were analysed. Over one-third (36.3%) respondents were below 30 years followed by under half (43.1%) were aged 35 and above, more than half (55.4%) were from indigenous caste/ethnic groups and nearly a quarter were Dalits (24.6%), with a low social status. Just under one-third (30.9%) of the women were illiterate, plus another 27.9% who could read and write but had very little schooling. One-fifth (20.2%) was unmarried followed by a quarter (24.6%) divorced and for 63.6% it was their first foreign employment. More than half (55.5%) of all women worked in Kuwait and 21% in Saudi Arabia. More than one-third (38.5%) of women had experienced workplace harassment The finding shows the reason behind returned home was due to heavy workload (37.5%) and just over a quarter (25.2%) of women returned home due to torture in the workplace (presumably severe beatings, burnings, etc.) at the hands of employers, followed by sexual abuse (14.1%), not getting their salary (12.9%), being falsely accused (4.9%), and pregnancy (3.4%) (Table 1).

Table 1. Demographic characteristics of female respondents (n = 1,889).

Variables	n (%)		
Age group			
< 30 years	686 (36.3)		
30–< 35 years	388 (20.5)		
≥ 35 years	815 (43.1)		
Caste/ethnicity			
Brahmin/chhatri	367 (19.4)		
Indigenous	1,046 (55.4)		
Dalit (low status)	464 (24.6)		

Muslim	12 (0.6)
Education	
Illiterate	583 (30.9)
Literate/informal	527 (27.9)
Primary level (1–5)	370 (19.6)
Secondary level and above	409 (21.6)
secondary lever and above	105 (21.0)
Marital status	
Married	1,043 (55.2)
Unmarried	382 (20.2)
Divorced/Widow/Separated	464 (24.6)
Employment	
First time abroad	1,202 (63.6)
Two or more times	687 (36.4)
1 wo of more times	067 (30.4)
<b>Host country</b>	
Kuwait	1,039 (55.0)
Saudi Arabia	396 (21.0)
United Arab Emirates	174 (9.2)
Lebanon	104 (5.5)
Oman	71 (3.7)
Other countries	105 (5.6)
<b>Self-reported workplace harassment</b> (positive)	728 (38.5)
	728 (38.5)
Harassments**†	~(0)
Harassments*† Physical abuse	495 (68.0)
Harassments*† Physical abuse Verbal abuse	495 (68.0) 273 (37.5)
Harassments*† Physical abuse Verbal abuse Mental	495 (68.0) 273 (37.5) 216 (29.7)
Harassments*† Physical abuse Verbal abuse	495 (68.0) 273 (37.5)
Harassments*† Physical abuse Verbal abuse Mental	495 (68.0) 273 (37.5) 216 (29.7)
Harassments*† Physical abuse Verbal abuse Mental Sexual	495 (68.0) 273 (37.5) 216 (29.7)
Harassments*† Physical abuse Verbal abuse Mental Sexual  Work problem‡ (n = 881)	495 (68.0) 273 (37.5) 216 (29.7) 103 (14.1)
Harassments*† Physical abuse Verbal abuse Mental Sexual  Work problem‡ (n = 881) Heavy workload (positive)	495 (68.0) 273 (37.5) 216 (29.7) 103 (14.1) 330 (37.5)
Harassments*† Physical abuse Verbal abuse Mental Sexual  Work problem <sup>‡</sup> (n = 881) Heavy workload (positive) Unemployment (positive) Restrictions in contacting family (positive)	495 (68.0) 273 (37.5) 216 (29.7) 103 (14.1) 330 (37.5) 77 (8.7)
Harassments*† Physical abuse Verbal abuse Mental Sexual  Work problem <sup>‡</sup> (n = 881) Heavy workload (positive) Unemployment (positive) Restrictions in contacting family (positive)  Reason for returning* (n = 1,839)	495 (68.0) 273 (37.5) 216 (29.7) 103 (14.1) 330 (37.5) 77 (8.7) 60 (6.8)
Harassments*† Physical abuse Verbal abuse Mental Sexual  Work problem <sup>‡</sup> (n = 881) Heavy workload (positive) Unemployment (positive) Restrictions in contacting family (positive)  Reason for returning** (n = 1,889) Contact completed	495 (68.0) 273 (37.5) 216 (29.7) 103 (14.1) 330 (37.5) 77 (8.7) 60 (6.8) 560 (29.6)
Harassments*† Physical abuse Verbal abuse Mental Sexual  Work problem* (n = 881) Heavy workload (positive) Unemployment (positive) Restrictions in contacting family (positive)  Reason for returning* (n = 1,889) Contact completed Torture at work	495 (68.0) 273 (37.5) 216 (29.7) 103 (14.1) 330 (37.5) 77 (8.7) 60 (6.8) 560 (29.6) 476 (25.2)
Harassments*† Physical abuse Verbal abuse Mental Sexual  Work problem* (n = 881) Heavy workload (positive) Unemployment (positive) Restrictions in contacting family (positive) Reason for returning* (n = 1,839) Contact completed Torture at work Voluntary return	495 (68.0) 273 (37.5) 216 (29.7) 103 (14.1) 330 (37.5) 77 (8.7) 60 (6.8) 560 (29.6) 476 (25.2) 380 (20.1)
Harassments*† Physical abuse Verbal abuse Mental Sexual  Work problem‡ (n = 881) Heavy workload (positive) Unemployment (positive) Restrictions in contacting family (positive)  Reason for returning* (n = 1,839) Contact completed Torture at work Voluntary return Illness	495 (68.0) 273 (37.5) 216 (29.7) 103 (14.1) 330 (37.5) 77 (8.7) 60 (6.8) 560 (29.6) 476 (25.2) 380 (20.1) 270 (14.3)
Harassments*† Physical abuse Verbal abuse Mental Sexual  Work problem <sup>‡</sup> (n = 881) Heavy workload (positive) Unemployment (positive) Restrictions in contacting family (positive) Reason for returning* (n = 1,889) Contact completed Torture at work Voluntary return Illness Unpaid salary	495 (68.0) 273 (37.5) 216 (29.7) 103 (14.1) 330 (37.5) 77 (8.7) 60 (6.8) 560 (29.6) 476 (25.2) 380 (20.1) 270 (14.3) 244 (12.9)
Harassments*† Physical abuse Verbal abuse Mental Sexual  Work problem‡ (n = 881) Heavy workload (positive) Unemployment (positive) Restrictions in contacting family (positive)  Reason for returning* (n = 1,889) Contact completed Torture at work Voluntary return Illness Unpaid salary Family problems	495 (68.0) 273 (37.5) 216 (29.7) 103 (14.1) 330 (37.5) 77 (8.7) 60 (6.8) 560 (29.6) 476 (25.2) 380 (20.1) 270 (14.3) 244 (12.9) 96 (5.1)
Harassments*† Physical abuse Verbal abuse Mental Sexual  Work problem‡ (n = 881) Heavy workload (positive) Unemployment (positive) Restrictions in contacting family (positive)  Reason for returning* (n = 1,889) Contact completed Torture at work Voluntary return Illness Unpaid salary Family problems Falsely accused	495 (68.0) 273 (37.5) 216 (29.7) 103 (14.1) 330 (37.5) 77 (8.7) 60 (6.8) 560 (29.6) 476 (25.2) 380 (20.1) 270 (14.3) 244 (12.9) 96 (5.1) 92 (4.9)
Harassments*† Physical abuse Verbal abuse Mental Sexual  Work problem <sup>‡</sup> (n = 881) Heavy workload (positive) Unemployment (positive) Restrictions in contacting family (positive)  Reason for returning* (n = 1,889) Contact completed Torture at work Voluntary return Illness Unpaid salary Family problems Falsely accused Failing medical	495 (68.0) 273 (37.5) 216 (29.7) 103 (14.1) 330 (37.5) 77 (8.7) 60 (6.8) 560 (29.6) 476 (25.2) 380 (20.1) 270 (14.3) 244 (12.9) 96 (5.1) 92 (4.9) 70 (3.7)
Harassments*† Physical abuse Verbal abuse Mental Sexual  Work problem‡ (n = 881) Heavy workload (positive) Unemployment (positive) Restrictions in contacting family (positive)  Reason for returning* (n = 1,889) Contact completed Torture at work Voluntary return Illness Unpaid salary Family problems Falsely accused	495 (68.0) 273 (37.5) 216 (29.7) 103 (14.1) 330 (37.5) 77 (8.7) 60 (6.8) 560 (29.6) 476 (25.2) 380 (20.1) 270 (14.3) 244 (12.9) 96 (5.1) 92 (4.9)

<sup>\*</sup>Multiple responses are possible hence add up to more than 100%. †Proportion of those who reported any workplace-related harassment. ‡Only 881 respondents self-reported work-related problems in the datasheet.

# 3.2. Determinants of workplace harassment

Table 2 analyses women migrants who experienced workplace harassment using univariate and multivariate logistic regression analysis. Multivariate binary logistic regression models were also constructed with harassment faced at the workplace as the dependent variable: all the significant bivariate and multivariate logistic regression analysis of the findings are presented in Table 2.

Illiterate women (adjusted odds ratio [AOR] 1.25, 95% confidence interval [CI]: 1.01 to 1.55), unmarried (AOR 1.27, 95% CI: 1.05 to 1.56), who had been to foreign employment twice or more (AOR 1.35, 95% CI: 1.10 to 1.66), who had changed their workplace (AOR 2.38, (95% CI: 1.42 to 4.01), who were without documents AOR 1.24 (95% CI: 1.03 to 1.50), did domestic work (AOR 3.56, 95% CI: 2.03 to 6.23), worked in other than GCC countries (AOR 1.45, 95% CI: 1.06 to 1.99), women who did not have fix salary (AOR 1.64, 95% CI: 1.28 to 2.10) and women who did not receive their salary AOR 3.71 (95% CI: 2.88 to 4.77) faced more workplace-related harassment than other groups in the adjusted logistic regression (Table 2).

In the univariate analysis, a significant difference was observed between the migrant women who faced workplace harassment and those who did not. Women aged 30 to 34 years (P = 0.002) and 35 years and above (P = 0.001) compared to those 30 or younger were more likely to report harassment in the workplace, but this was not statistically significant in the bivariate logistic regression analyses (Table 2).

Table 2. Determinants of workplace harassment by logistic regression (n = 1,889)

Variables	W	Workplace Harassment				Univariate				Multivariate			
			No [n	No [n (%)]		(	CI	P	AOR	CI		Р	
Age group								Ċ.					
< 30 years	303	44.2	383	55.8		Reference				Reference			
30-< 35 years	136	35.1	252	64.9	1.57	1.18	2.10	0.002	1.05	0.72	1.51	0.808	
≥ 35 years	289	35.5	526	64.5	1.55	1.19	2.01	0.001	1.02	0.50	1.16	0.203	
Education status									,				
Literate	486	37.2	820	62.8	Reference				Reference				
Illiterate	242	41.5	341	58.5	1.23	1.01	1.50	0.044	1.25	1.01	1.55	0.041	
Marital status													
Married etc.	381	36.5	662	63.5		Reference				Reference			
Unmarried	347	41.0	499	59.0	1.21	1.00	1.45	0.046	1.27	1.05	1.56	0.017	
Episodes of foreign	n emplo	yment											
First time	235	34.2	452	65.8		Re	ference			F	Reference		
Two and more	493	41.0	709	59.0	1.34	1.10	1.63	0.003	1.35	1.10	1.66	0.004	
Had changed worl	kplace												
No	488	33.4	975	66.6		Ref	erence			F	Reference		
Yes	240	56.3	186	43.7	2.58	2.07	3.21	< 0.001	2.38	1.42	4.01	0.001	
Legal status at wo	rkplace												
Documented	419	36.5	729	63.5		Reference				Reference			
Undocumented	309	41.7	432	58.3	1.24	1.03	1.50	0.023	1.24	1.03	1.50	0.023	
Types of work													
Company	16	17.8	74	82.2		Reference				Reference			
Domestic	712	38.5	1087	61.5	3.03	1.75	5.24	< 0.001	3.56	2.03	6.23	< 0.00	
Work/destination	country												
GCC countries	662	39.4	1018	60.6		Reference				Reference			
Other countries	66	31.6	143	68.4	1.41	1.04	1.92	0.029	1.45	1.06	1.99	0.021	
Had fixed salary													
Yes	525	34.5	997	65.5	Reference				Reference				
No	203	55.3	164	44.7	2.35	1.86	2.96	< 0.001	1.64	1.28	2.10	< 0.00	
Received salary							., .						
Yes	104	19.9	418	80.1		Reference				Reference			
No	624	45.6	743	54.4	3.37	2.65	4.20	< 0.001	3.71	2.88	4.77	< 0.00	

AOR: Adjusted odds ratio: CI: Confidence interval; GCC: Gulf Cooperation Council.

### 4. Discussion

Our finding clearly demonstrates a variation in the degree and kind of workplace problems faced by women during their foreign employment. More than one-third (38.5%) of Nepalese migrant women faced some forms of workplace-related harassment which included physical (68.0%), verbal (37.5%), mental (29.7%), and sexual abuse (14.1%). Various studies from Nepal have reported that female migrants are at risk of verbal, sexual and physical abuse. 6, 22, 23 A study on Sri Lankan female migrant returnees from the Middle-East found that they suffered from assault, false allegations, deprivation from food, minimal health care facilities, and non-payment when they were in the country of foreign employment.<sup>24</sup> Filipino home-care workers in Israel reported having workplace injuries and experiencing verbal abuse and hunger.<sup>25</sup> Moreover, in an Indian study, 28% of women reported that their employers had harassed them.<sup>26</sup> The findings of studies on female migrant workers are generally consistent with our study. Our study suggests that women being illiterate AOR 1.25 (95% CI 1.01 to 1.55), unmarried AOR 1.27 (95% CI 1.05 to 1.56) and doing domestic work AOR 3.56 (95% CI 2.03 to 6.23) were significantly associated with workplace harassment. The overwhelming majority of Nepalese migrant women worked as domestic staff and/or were illiterate (Table 1 and Table 2) both factors made them more vulnerable to harassment, especially since the domestic work is of a private nature and often invisible to the outside world. The literature indicates that workplace harassment has a power dynamic, women are more likely targets because they are the least powerful staff in the workplace.<sup>27</sup> Low levels of education increase women's risk of harm in the workplace. Victims of violence and harassment often experience damaging psychological and physical effects. Our finding shows that one-fourth (25.2%) of migrant women returned home due to what they describe as torture in the workplace, which represents a very high proportion. The threat of physical violence, unsafe working conditions and exploitation at work increases health problems among the migrant workers in our study. Similar findings were reported in Sri Lankan female migrant workers in Middle-Eastern countries and Filipino female migrant workers in Hong Kong. <sup>24, 28</sup> In Portugal, migrant domestic workers also reported workplace abuse, including delayed payment, sexual harassment, withholding of food, and discrimination.<sup>29</sup> Each destination country and organisation should clearly mandate migrant workers' safety and anti-harassment and discrimination policies, and these policies must be vigorously enforced. Although pre-departure training orientation is mandatory in Nepal for departing migrant workers, our findings show that many women do not get any training and those women who have not taken pre-departure training were more likely to suffer harassment. Our study shows that there is a

significant association between experiencing harassment and having legal documents to stay in the host country (P < 0.023), with women with illegal documentation being more vulnerable and experiencing more harassment. Nearly one-third of the migrant women in this study who had previously been employed in GCC countries at least three times and more were more likely to have experienced workplace harassment than those who worked elsewhere. A higher percentage of both harassment and the heavy workload was experienced in Kuwait. A study on Indian women working in GCC countries also showed they encountered harassment in the workplace, including extremely long working hours without overtime pay, no rest days, and incomplete and/or irregular payment of wages. Similarly, workplace abuse, physical and sexual assault, denial of salary, sleep deprivation and passport confiscation was reported among Ethiopian migrant women in the Middle East. In both Nepal and host countries, women experience societal gender norms which often put Nepalese migrant women at a greater risk of being exploited. Such norms are hard to change as they are cultural values and beliefs shared amongst men and women alike.  $^{32}$ 

## 5. Implication for policy and practice

The results of the study have the potential to inform the Government of Nepal and other relevant parties, encouraging them to update and enhance evidence-based migration and integration policies and practices. Establishing a national Centre for Migrant Health would significantly improve policy and practice, as it has been done successfully in countries like Norway, Denmark, and Macedonia.<sup>33</sup> The establishment of such a national centre would be significant because more than 3 million Nepalese migrant workers work abroad, with over 5,000 traveling there every day. It is critical to consider female migrants' workplace safety and welfare, as well as to strengthen diplomatic ties with destination countries regarding migrant rights. Migration health centers should closely monitor the health and wellbeing of the migrant populations in those high-risk countries. They should regularly share the key findings in policy briefs so that the government can promptly take the necessary action to improve migrants' rights and wellbeing, as well as ensure the safety and empowerment of their right to seek support during abroad work.

## 6. Strengths and limitations of the study

The strengths of this paper include its large sample and completeness of the data set which allowed for a more in-depth statistical analysis. Moreover, it is an analysis of the largest kind of dataset reporting

on harassment as a health and well-being issue in female migrant workers from Nepal. A number of weaknesses of this study need highlighting, first, the data set was collected by the NGO for monitoring its service supporting female migrant workers on their return home. This means the participants were self-selected. Secondly, harassment was self-reported by returnee female migrants. Thirdly, women may have underreported for many reasons of abuse including fear of retaliation. Lastly, this study is a secondary data analysis whereby the research team had no influence on the data collected, or the original research questions.

### 7. Conclusions

Most Nepalese migrant returnee's women had been employed as domestic workers and around one-third were illiterate, and two-fifths had experienced multiple forms of harassment (physical, verbal, mental and/or sexual). Women reported a range of additional problems they faced during foreign employment such as their heavy workload, non-payment, employers restricting their telephone contact with family members and health-related problems. Due to the dual vulnerability of a woman and a migrant worker, good bilateral agreements between countries should be made to minimize these women's mistreatment and exploitation. International labour unions, pressure groups supporting migrant workers and the international media should highlight and work to improve the rights of migrant workers and reduce work-related abuse. It may help to consider workplace harassment as a public health issue and seek to undertake steps toward promoting a healthier and safer working environment.

### Acknowledgements

We thank to the staff of POURAKHI Nepal who allowed access to data from individual case files.

### Availability of data and materials

The data that support the findings of this study are available on request from the corresponding author. The data are not publicly available due to privacy or ethical restrictions.

## **Competing interests**

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

### **CRediT** authorship contribution statement

**Padam Simkhada:** Conceptualization, Methodology, Writing-review & editing, Supervision Funding Acquisition. **Edwin van Teijlingen:** Conceptualization, Methodology, Writing-rReview & Editing, Funding acquisition. **Manju Gurung:** Conceptualization, Investigation, Project administration. **Samjhana** 

**Bhujel:** Data Curation, Software, Formal Analysis. **Kalpana Gyawali:** Methodology, Writing-review & editing, Funding acquisition. **Sharada P Wasti:** Conceptualization, Methodology, Formal analysis, Writing-original draft, Writing-review & editing.

### Ethics approval and consent to participate

This study was approved by the Nepal Health Research Council (NHRC 150/2012), Nepal's national nodal agency, for ethical clearance of human participants. The study obtained verbal consent from each participant, ensuring their anonymity and confidentiality. There were no names recorded in the secondary data set for analysis.

### **Funding**

This study had financial support from Liverpool John Moores University, UK (Padam Simkhada) and Bournemouth University, UK (Edwin van Teijlingen).

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## **Competing interests**

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

