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# Uncovering the Roots of Psychological Abuse in the Workplace in Bangladesh

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#### **Research Article**

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## **Abstract**

The workplace is a pivotal arena in the lives of employees, where they strive for professional growth and financial stability. In Bangladesh, with its diverse workforce, the workplace plays a crucial role in shaping the lives of millions. Using the Quarterly Labour Force Survey 2016-17 data conducted by the Bangladesh Bureau of Statistics, this paper delves into the roots of psychological abuse in the workplace in Bangladesh, aiming to inform policies and interventions that promote employee well-being and a healthy work environment. The sample size for this study comprises 159,791 economically active individuals. For the statistical analysis, both bivariate and multivariate analyses were applied. Logistic regression analysis reveals that younger workers, females, and those with lower levels of education have a higher likelihood of experiencing workplace psychological abuse. Moreover, working in certain sectors (e.g., manufacturing and services) and occupations (e.g., elementary occupations and working as an employee) increases the likelihood of abuse, as do temporary and full-time employment, hazardous work environments, and informal job arrangements. Urban locations also correlate with a higher probability of psychological abuse, while specific divisions within Bangladesh exhibit varying risks. These insights can inform targeted interventions and policies to foster a safer and more supportive work environment in Bangladesh.

**Keywords:** Psychological Abuse; Workplace; Labor Force Survey; Logit Model; Bangladesh

**Abbreviations:** WHO: World Health Organization; OSHA: Occupational Safety and Health Administration; RMG: Ready-Made Garment; QLFS: Quarterly Labour Force Survey; BBS: Bangladesh Bureau of Statistics.

#### Introduction

A workplace is an ecosystem where employees devote a substantial portion of their lives to pursue professional fulfilment and economic well-being. It is also a space where dynamics of power, hierarchy, and interpersonal relationships are integral parts of daily operations. Bangladesh is a country with a diverse workforce where the significance of the workplace is magnified as it plays an important role in shaping the lives of millions. While the workplace provides chances for cooperation, innovation, and career success, it may also contain a dark aspect of working life: 'Psychological Abuse'.

Psychological abuse often referred to as emotional abuse or workplace bullying which goes beyond traditional forms of harassment or discrimination. It involves hostile verbal and nonverbal acts excluding physical contact, aimed at adversely affecting an individual's sense of self as a capable worker and person [1]. This form of abuse, characterized by consistent and enduring hostility [2], includes behaviours like verbal aggression, intimidation, humiliation, isolation, and manipulation. Such acts, often insidious and subtle, create a hostile and toxic work environment, eroding not only victims' personal lives but also impacting productivity, morale, and the organization's reputation [1]. Supervisors subjecting subordinates to psychological abuse pose significant challenges for employees [3,4].

In both developed and emerging nations, workplace violence and aggression have become major issues, particularly in the last several years [5-8]. The World Health Organization (WHO), the Occupational Safety and Health Administration (OSHA), the International Labour Organization (ILO), and other organizations have taken notice of this issue on a global scale and are working hard to create laws and regulations that will stop workplace abuse and violence. ILO Convention No. 190 (C190), which was adopted in 2019, aims to confront and stop violence and harassment in the workplace everywhere [9]. Governments who approve C190 will also implement the necessary laws and policies, which is worth emphasizing. As per the previously mentioned standard, workplace violence and harassment encompass a range of inappropriate conduct and behaviours that are either one-time or recurring, to cause physical, psychological, sexual, or financial harm. This includes harassment and violence based on gender [10].

Weak framework and law enforcement, ignorance of workplace abuse among employers and employees, and a malfunctioning human resource system only increased the problem in developing nations [11,12]. In Bangladesh's ready-made garment (RMG) industry, 61.7% of workers, regardless of gender, reported experiencing workplace violence. Matsuura and Teng claimed that although workers in the RMG sector were subjected to frequent insults and shouting matches, only female employees reported instances of sexual harassment. They also said that damaging activities were considered by the supervisors as an essential element in getting the workers to produce the desired results [13]. The 2006 Labour Act and Penal Code 1860 were implemented by the Bangladeshi government to safeguard workers' rights and prevent workplace exploitation [14].

Bangladesh is a country with a diverse and dynamic workforce, where the workplace is an integral part of

daily life. The impacts of psychological abuse need careful consideration. Against this backdrop, this study aims to explore and uncover the roots of psychological abuse in the workplace in Bangladesh. As the country stands at the crossroads of economic transformation and social progress, it is very important to address the issue of psychological abuse. This study aims to guide policy development and intervention approaches to ensure psychological well-being and, a sound working environment for all employees and promote their overall health condition.

To undertake policies in favour of workplace safety and security, it is imperative to explore the factors associated with psychological abuse in the workplace. In this regard, this paper particularly aims to answer the following four questions (i) are workers' personal, household and human capital-related characteristics such as age, sex, marital status, household size, educational attainment, and so on, associated with the likelihood of being subjected to workplace psychological abuse?, (ii) are there any differences in psychological abuse in the workplace across the country's sectors and occupations?, (iii) do workplace features such as number of people engaged in the workplace, workplace ownership, job structure, contract agreement, occupational environment, and so on, have any relation with the probability of being psychologically abused?, and (iv) do geographical characteristics such as rural-urban and divisions have any association with the likelihood of workplace psychological abuse?

# **Literature Review**

Several studies have examined the causes of psychological abuse in workplaces worldwide. The analysis of Einarsen et al. revealed that there are some common antecedents such as power imbalances, organizational culture and lack of leadership support [15]. Bullying is strongly related to the symptoms of post-traumatic stress and mental health problems. The bullying in workplace is a major contributor to high levels of intention to quit, and low levels of job satisfaction [16]. The study found limited or no connections between being subjected to bullying and its impact on performance, sleep issues, absenteeism and core self-assessment of the individuals targeted [16].

Age can be a factor in vulnerability to psychological abuse. Employees at a young age entering the workforce may lack confidence and experience. This situation makes them more susceptible to mistreatment [17]. The type of abuse may differ depending on the perpetrator's age. Older workers may use more covert, indirect methods, whereas younger ones may use more overt strategies [18]. Age can also be influential for employees to cope with workplace

abuse. Younger individuals are more inclined to confront or leave the job in response to the abuse [17]. On the other side, older workers may adopt coping strategies to deal with the abuse because of being more experienced and financially secure [19].

In the USA, abuse by co-workers affected 2.3 million men and 1.1 million women, according to a nationally representative telephone study conducted in 1995-1996. The study found that the type of abuse varied depending on the gender of the victims. In addition, the study's data shows that compared to female employees, male employees were less likely to disclose the incident. However, there was no difference in colleague violence observed by age, race, or educational attainment, according to this report [20]. Female employees may face higher levels of abuse which includes undermining behaviours such as withholding information, undermining opinions and excluding from important decision-making [17]. Men may express lower self-esteem and work satisfaction, whereas women may report symptoms of anxiety and depression more frequently. Female employees are more likely to take emotion-focused coping strategies to deal with the bullying in workplace and male employees take problemfocused coping strategies. The gender difference in coping mechanisms may have impacts on psychological well-being [21]. Marital status might not be much discussed as the other factors in harassment research. Divorced women face more oppression and they are at an increased risk of being harassed a work [22].

The education level of the employees is an important factor for being psychologically abused. A study showed that 32% of the workers who had experienced abuse didn't have any formal education, 32% of them had primary education, and 31% of the workers had secondary education [23]. Gender-based violence is more prevalent in the garment sector of South and Southeast Asian nations including Bangladesh, Vietnam, Indonesia, India, and Cambodia due to power imbalances and inadequate protection [24].

According to a survey by Garment Workers Diaries in Bangladesh, 48% of workers in the garment industry, including 50% of women and 41% of men, reported experiencing verbal abuse. Among those facing psychological abuse, 13% of women and 7% of men experienced frequent verbal abuse, while 57% of women and 54% of men encountered it occasionally. The study also revealed that the workplace hierarchy played a role, with 87% of workers who experienced verbal abuse, including 85% of women and 92% of men, reporting abuse from their male superiors. In contrast, 9% of female and 10% of male workers experienced verbal abuse from their male co-workers [25].

Mayhew and Quinlan used qualitative data from surveys to show that workers in Australia who are typically engaged on a short-term contract, casual or subcontract, or as day labourers, are more vulnerable to abuse at work [26]. People who worked full-time were found to be more vulnerable to workplace bullying than those who worked part-time, according to a different study centred on public sector firms in the UK [27]. A study on white-collar workers in India found that almost 58 % of the people mentioned themselves as the victim of bullying. Other 42 % of people didn't see themselves as the victim, even though they experienced some negative behaviour. Some of them took the negative behaviour as just a part of their workplace [28]. Physical workplace violence is less common than psychological abuse at work worldwide, according to Mayhew and Chappell [29].

Drawing from the existing literature on factors associated with workplace psychological abuse, it is apparent that no single study has comprehensively examined the various dimensions that could contribute to this issue. These dimensions include workers' personal characteristics, variables, household-level human capital-related factors, socioeconomic aspects, workplace features, and geographical variables, all of which may significantly impact the experience of psychological abuse. Notably, there is a dearth of comprehensive research in these areas, especially when considering the specific context of Bangladesh. This paper fills the literature gaps based on the latest nationally representative survey namely the QLFS 2016-17, conducted by BBS [30]. This paper also presents unique insights that can inform policy reforms aimed at enhancing the safety and security of workers in their workplaces. These insights are derived from an individual-level perspective and offer valuable recommendations for policy development.

#### Method

### **Data**

This study utilized data from the Quarterly Labour Force Survey (QLFS) 2016-17 in Bangladesh, which is a nationally representative cross-sectional random sample conducted by the Bangladesh Bureau of Statistics (BBS) during 2016-2017. The QLFS 2016-17 provides micro-data at both household and individual levels. It contains a total of 493,886 observations and 480 variables. The study used the annual weighting provided by the BBS, as the data was collected on a quarterly basis. While the QLFS includes data at both the individual and household levels, this study specifically focused on individual-level data.

According to the QLFS 2016-17, an individual aged 15 years or older who has worked for at least one hour

during the seven days preceding the survey, or has a job but is temporarily absent from work or available if work is available, is considered economically active. The data regarding psychological abuse in the workplace is associated with the primary job in the QLFS 2016-17, and thus, for the purposes of this study, the primary job is considered as the workplace. The QLFS includes a total of 159,791 observations for the economically active population, of which only 2.43%, or approximately 3,880 workers, reported experiencing psychological abuse in the workplace.

#### **Measures**

**Dependent Variable:** The QLFS data covers four types of abuse in the workplace-(i) constantly shouted at/repeatedly insulted, (ii) beaten/physically hurt, (iii) sexually abused (touched), and (iv) other abuse. The outcome variable of interest is whether a worker or an individual is psychologically abused or not. Hence, based on the first type of abuse (constantly shouted at/repeatedly insulted), this study created a dichotomous variable score of 1 =

yes (psychologically abused at the workplace), and 0 = no (otherwise) for the outcome measure. Therefore, the dependent variable used in this paper, psychological abuse status, takes one of the following two values:

 $psy\_abuse = \{1 \text{ if the individual is psychologically abused } 0 \text{ if otherwise} \}$ 

Independent Variables: The explanatory variables used in this study include personal characteristics (such as age, female dummy, marital status dummy), human capital-related variables (such as education, training dummy), household characteristics (such as whether the individual is head of the household, household size), socio-economic factors (such as the occupation of the worker, industry where the worker is employed), workplace features (such as TPE in the workplace, type of institution, temporary vs permanent job, full time vs part-time job, occupational environment, nature of workplace agreement, informal vs formal sector job, work duration) as well as geographic location (such as urban dummy, division dummies) (Table 1).

Broad Theme	Variable Name	Variable Description
	age	Age of the worker
Personal Characteristics	female	1=if the worker is female, 0=otherwise
Gharacteristics	married	1=if the worker is married, 0=otherwise
	no_edu	1=if the worker has no education-reference category
	pri_edu	1=if the worker has primary education
	sec_edu	1=if the worker has secondary education
Human capital	hsec_edu	1=if the worker has higher secondary education
variables	tertiary_edu	1=if the worker has tertiary education
	madrasa_edu	1=if the worker has madrasa education
	training	1=if the worker received vocational training in the last 12 months, 0=otherwise
Household	hh_head	1=if the worker is the head of the household, 0=otherwise
characteristics	hh_size	Number of the members in the household
	manuf	1=if the worker is employed in the manufacturing sector, 0=otherwise
Socioeconomic	serv	1=if the worker is employed in the services sector, 0=otherwise
characteristics	element_occup	1=if occupation of the worker is elementary, 0=otherwise
	employee	1=if the employment status of the worker is "employee", 0=otherwise

	TPE_1	1=if total persons engaged in the workplace is 1-reference category
	TPE_2_4	1=if total persons engaged in the workplace are 2-4
	TPE_5_9	1=if total persons engaged in the workplace are 5-9
	TPE_10_24	1=if total persons engaged in the workplace are 10-24
	TPE_25_99	1=if total persons engaged in the workplace are 25-99
	TPE_100_249	1=if total persons engaged in the workplace are 100-249
	TPE_250+	1=if total persons engaged in the workplace are 250+
	not_specified	1=if total persons engaged in the workplace are not specified
VAT- alamba a Contrara	govt_inst	1=if the worker is employed in the government institution-reference category
Workplace features	NGO	1=if the worker is employed in an NGO
	private_inst	1=if the worker is employed in the private institution
	Household	1=if the worker is employed in the household
	temp_job	1=if the job is temporary, 0=permanent
	full_job	1=if the job is full time, 0=part time
	occup_env	1=if the environment of the workplace is hazardous, 0=otherwise
	oral_contact	1=if the job is based on the oral agreement, 0=otherwise
	informal_job	1=if the worker is employed in informal sector, 0=otherwise
	work_dur	Working hours of the worker in a week
	urban	1=if the worker is employed in urban areas, 0=otherwise
	Mymensingh	1=if the worker is employed in Mymensingh division, 0=otherwise
	Barishal	1=if the worker is employed in Barishal division, 0=otherwise
Geographical variables	Chattogram	1=if the worker is employed in Chattogram division, 0=otherwise
	Khulna	1=if the worker is employed in Khulna division, 0=otherwise
	Rajshahi	1=if the worker is employed in Rajshahi division, 0=otherwise
	Rangpur	1=if the worker is employed in Rangpur division, 0=otherwise
	Sylhet	1=if the worker is employed in Sylhet division, 0=otherwise

Source: Authors' tabulation based on the variables used in this study.

**Table 1:** Variables and their description used in this study.

**Regression Methodology:** For the statistical analysis, we follow a two-step process, beginning with bivariate analysis and then proceeding to multiple logistic regression. In the bivariate analysis, we utilize two-sample t-tests and chisquare tests to examine the relationship between each explanatory variable and the outcome of psychological abuse. This initial step helps us identify significant factors associated with psychological abuse in the workplace. These selected determinants are then included in the next stage, which is logistic regression. Logistic regression is one of the most commonly used techniques for modelling binary responses. If  $\omega$  denotes the probability of an event (e.g., experiencing psychological abuse in the workplace) and

 $X = \{X_1, X_2, \dots, X_K\}$  denotes the set of k independent variables, then the logistic regression model expresses the logarithm of odds of the event as follows:

$$\log\left(\frac{\omega}{1-\omega}\right) = \alpha_0 + \alpha_1 X_1 + \alpha_2 X_2 + \dots \alpha_k X_k$$

where are the coefficients associated with the explanatory variables and are estimated by the maximum likelihood method. A prime reason for the popularity of logistic regression is that  $\exp \alpha_i$  has an intuitive interpretation in terms of the ratio of odds of the event of interest resulting from one unit change in X (when continuous) or ratio of the odds for the category of interest of X (when binary) to the

odds for the reference category. Moreover, it is possible to estimate the average marginal effects, which provide insight into the probability of the event of interest happening as a result of a one-unit change in X (for continuous variables) or the probability for the specific category of X (for binary variables) in comparison to the probability for the reference category.

#### **Results**

## **Descriptive Statistics and Bivariate Analysis**

This section outlines the fundamental characteristics and bivariate analysis of the final sample. It presents t-statistics and corresponding p-values for continuous variables, along with chi2 statistics for categorical variables. The final sample had a mean age of 37.56 years (Table 2). A two-sample t-test indicates a significant age difference between psychologically abused and not psychologically abused samples.

76.33% of the final sample were male, and 23.67% were female. Among psychologically abused workers, 56.06% were male and 43.94% were female. In contrast, among those not psychologically abused, 76.83% were male, and 23.17% were female. The gender variable is statistically significant (chi2 statistics=904.14, p-value<0.001), suggesting differences between psychologically abused and not psychologically abused samples in terms of gender.

In the overall sample, 81.08% were married, while 18.92% were unmarried. Among psychologically abused workers, 57.27% were married, and 42.73% were unmarried. In contrast, among those not psychologically abused, 81.67% were married, and 18.33% were unmarried. The p-value of less than 0.001 for marital status indicates a significant difference between psychologically abused and not psychologically abused samples.

25.28% had no education, 26.51% had primary education, 32.81% had secondary education, 7.62% had higher secondary education, 7.5% had tertiary education, and 0.28% had madrasa education in the overall sample. Among psychologically abused workers, the respective percentages were 34.66%, 30.57%, 28.48%, 4.56%, 1.57%, and 0.15%. In contrast, among not psychologically abused samples, the percentages were 25.05%, 26.41%, 32.92%, 7.69%, 7.65%, and 0.29%. The categorical variable, education status, is statistically significant, suggesting an association between psychological abuse and education levels.

Only 2.33% of the final sample received training in the last 12 months. Among psychologically abused workers, 1.26% received training, while 2.36% received training among those not psychologically abused. The training status

variable is statistically significant, indicating a potential association between psychological abuse and training status.

In the final sample, 58.98% assumed the role of household head. However, among those psychologically abused, only 29.92% were household heads, whereas among the not psychologically abused, 59.7% held this position. This distinction is statistically significant (chi2 statistic=1.40E+03, p-value<0.001). The mean household size for the entire sample is 4.54, and this difference is also statistically significant.

Employment sectors revealed notable disparities within the sample. Specifically, 16.31% were from the manufacturing sector, while 83.69% were from other sectors. Among psychologically abused workers, 36.26% were in the manufacturing sector, compared to only 15.82% among those not psychologically abused. In terms of service sector distribution, 51.01% represented the overall sample, with 47.14% from the service sector among psychologically abused workers and 51.11% among the not psychologically abused. These sectoral differences are statistically significant, suggesting an association with psychological abuse.

Examining occupation status, 18.08% held elementary positions in the overall sample. Notably, the psychologically abused sample had a higher proportion (40.75%) in elementary occupations, compared to 17.52% for the not psychologically abused. In total, 47.28% were employees, with 83.97% of psychologically abused individuals falling into this category, while 46.26% of not psychologically abused individuals were employees.

In the workplaces where individuals faced psychological abuse, 29.2% had a Total Persons Engaged (TPE) of 1, 25.41% had TPE of 250+, and 20.08% had TPE of 2-4. In contrast, those not facing psychological abuse showed different percentages: 34.05% had TPE 2-4, 30.17% had TPE 1, and 6.32% had TPE 250+.

Regarding institutional affiliations, 5.64% of the overall sample was associated with government institutions, 0.71% with NGOs, 82.08% with private institutions, and 11.56% within households. Among psychologically abused samples, 1.62% were linked to government institutions, 0.62% to NGOs, 82.94% to private institutions, and 14.82% to households. Conversely, among not psychologically abused samples, 5.74% were in government institutions, 0.72% in NGOs, 82.06% in private institutions, and 11.48% within households. The type of institution variable was statistically significant (p-value<0.001), indicating differences between psychologically abused and not psychologically abused samples.

33.53% of the total samples had temporary positions, and 66.47% had permanent jobs. Among the psychologically abused sample, 47.60% had temporary jobs, and 52.4% had permanent positions. In contrast, among the not psychologically abused sample, 33.18% had temporary roles, and 66.82% had permanent positions. Job duration analysis revealed that 81.47% of the overall sample had full-time jobs, while 18.53% had part-time employment. Among psychologically abused samples, 86.65% had full-time positions, and 13.35% had part-time roles. Conversely, among not psychologically abused samples, 81.34% had full-time jobs, and 18.66% had part-time jobs. All these findings were statistically significant.

In case of occupational environment, 25.33% worked in hazardous environment and 74.67% worked in non-hazardous environment of the final sample. Among the psychologically abused sample 50.77% and 49.23% worked in hazardous and non-hazardous environment. On the other hand, among not psychologically abused sample 24.70% and 75.30% worked in hazardous and non-hazardous

environment respectively.

In the overall sample, 80.56% held formal jobs, with 19.44% in informal employment. Among those facing psychological abuse, 96.29% were in formal jobs, contrasting with 80.16% for those not facing abuse. The mean weekly work duration was 54.52 hours for the overall sample, 56.18 hours for those facing psychological abuse, and 54.48 hours for those not facing abuse.

50.91% were from urban areas, and 49.09% were from rural areas in the overall sample. Those facing psychological abuse had 66.21% from urban areas and 33.79% from rural areas, while those not facing abuse had 50.53% and 49.47%, respectively. In the divisional breakdown, individuals facing psychological abuse were 37.84% from Dhaka, 24.95% from Chattogram, 14.66% from Rangpur, 8.92% from Khulna, 7.84% from Rajshahi, 3.51% from Sylhet, 2.19% from Barishal, and 0.10% from Mymensingh. For those not facing abuse, the percentages were 26.41%, 16.46%, 14.9%, 13.66%, 12.02%, 7.56%, 7.51%, and 1.48%, respectively.

Broad indicators	Sub-indicators	Overall sample (%) (n=159,791)	Psychologically abused samples (n=3,880)	psychologically	t/chi2 statistics	P-value
Age	Mean age*	37.56	27.81	37.8	46.94	0
Gender	Female	37,829 (23.67)	1,705 (43.94)	36,124 (23.17)	904.14	0
Gender	Male	121,962 (76.33)	2,175 (56.06)	119,787 (76.83)	904.14	U
Marital status	Married	129,554 (81.08)	2,222 (57.27)	127,332 (81.67)	1.50E+03	0
Maritai status	Not married	30,237 (18.92)	1,658 (42.73)	28,579 (18.33)	1.50E+05	
	No education	40,394 (25.28)	1,345 (34.66)	39,049 (25.05)		0
	Primary education	42,357 (26.51)	1,186 (30.57)	41,171 (26.41)		
	Secondary education	52,426 (32.81)	1,105 (28.48)	51,321 (32.92)		
Education	Higher secondary education	12,173 (7.62)	177 (4.56)	11,996 (7.69)	423.5	
	Tertiary education	11,988 (7.50)	61 (1.57)	11,927 (7.65)		
	Madrasa education	453 (0.28)	6 (0.15)	447 (0.29)		
The single state of the state o	Received	3,723 (2.33)	49 (1.26)	3,674 (2.36)	10.0	0
Training status	Not received	156,068 (97.67)	3,831 (98.74)	152,237 (97.64)	19.9	19.9 0
H 1 Cd 1 1 111 1	Head	94,244 (58.98)	1,161 (29.92)	(29.92) 93,083 (59.70)		
Head of the household head	Not head	65,547 (41.02)	5,547 (41.02) 2,719 (70.08) 62,828 (40.30)		1.40E+03	0
Household size	Mean household size*	4.54	4.33	4.54	6.8	0
Manufacturing as at	Manufacturing	26,066 (16.31)	1,407 (36.26)	24,659 (15.82)	1 205 . 02	0
Manufacturing sector	Other sectors	133,725 (83.69)	2,473 (63.74)	131,252 (84.18)	1.20E+03	U

	Services	81,515 (51.01)	1,829 (47.14)	79,686 (51.11)			
Services sector		1 1			23.89	0	
	Other sectors	78,276 (48.99)	2,051 (52.86)	76,225 (48.89)			
Occupation status	Elementary	28,895 (18.08)	1,581 (40.75)	27,314 (17.52)	1.40E+03	0	
	Other occupations	130,896 (81.92)		128,597 (82.48)			
Employment status	Employee	75,390 (47.18)	3,258 (83.97)	72,132 (46.26)	2.20E+03	0	
	Other employment			, ,			
	TPE_1	48,179 (30.15)	1,133 (29.20)	47,046 (30.17)			
	TPE_2_4	53,870 (33.71)	779 (20.08)	53,091 (34.05)			
	TPE_5_9	15,884 (9.94)	374 (9.64)	15,510 (9.95)			
Total Persons Engaged (TPE)	TPE_10_24	11,049 (6.91)	265 (6.83)	10,784 (6.92)	2.50E+03	0	
3.8.1	TPE_25_99	7,818 (4.89)	188 (4.85)	7,630 (4.89)			
	TPE_100_249	3,039 (1.90)	135 (3.48)	2,904 (1.86)			
	TPE_250+	10,845 (6.79)	986 (25.41)	9,859 (6.32)			
	Not specified	9,107 (5.70)	20 (0.52)	9,087 (5.83)			
	Government	9,020 (5.64)	63 (1.62)	8,957 (5.74)			
Type of institution	NGO	1,139 (0.71)	24 (0.62)	1,115 (0.72)	151.23 0		
Type of institution	Private	131,155 (82.08)	3,218 (82.94)	127,937 (82.06)	131.23	U	
	Household	18,477 (11.56)	575 (14.82)	17,902 (11.48)			
Tomporovivia normanant	Temporary	53,582 (33.53)	1,847 (47.60)	51,735 (33.18)	353.23	0	
Temporary vs permanent	Permanent	106,209 (66.47)	2,033 (52.40)	104,176 (66.82)	333.23	U	
Eull time ve next time	Full time	130,177 (81.47)	3,362 (86.65)	126,815 (81.34)	70.74	0	
Full time vs part time	Part time	29,614 (18.53)	.53) 518 (13.35) 29,096 (18.66)		70.74		
Oggunational environment	Hazardous	40,474 (25.33)	1,970 (50.77)	38,504 (24.70)	1.40E+03	0	
Occupational environment	Non-hazardous	119,317 (74.67)	1,910 (49.23)	117,407 (75.30)	1.40E+03	<u> </u>	
Inh amana	Oral contact	52,453 (32.83)	2,624 (67.63)	49,829 (31.96)	2.20E+03	0	
Job agreement	Written contract	107,338 (67.17)	1,256 (32.37)	106,082 (68.04)	2.20E+03	0	
F 1 . ( 1:1	Informal job	128,721 (80.56)	3,736 (96.29)	124,985 (80.16)	(20.4	0	
Formal vs informal job	Formal job	31,070 (19.44)	144 (3.71)	30,926 (19.84)	628.4	0	
Work duration (hours in a week)	Mean work duration*	54.52	56.18	54.48	-4.91	0	
C 1	Urban	81,346 (50.91)	2,569 (66.21)	78,777 (50.53)	272.65	0	
Spatial	Rural	78,445 (49.09)	1,311 (33.79)	77, (49.47)	372.65	0	
	Dhaka	42,644 (26.69)	1,468 (37.84)	41,176 (26.41)			
	Mymensingh	2,316 (1.45)	4 (0.10)	2,312 (1.48)			
	Barishal	11,793 (7.38)	85 (2.19)	11,708 (7.51)			
5	Chattogram	26,631 (16.67)	968 (24.95)	25,663 (16.46)		6	
Division	Khulna	21,638 (13.54)	346 (8.92)	21,292 (13.66)	740.88	0	
	Rajshahi	23,529 (14.72)	304 (7.84)	23,225 (14.90)			
	Rangpur	19,314 (12.09)	569 (14.66)	18,745 (12.02)			
	Sylhet	11,926 (7.46)	136 (3.51)	11,790 (7.56)			
Data are the number of observati		,. == ()	()	, ()	ı		

Data are the number of observations (percentage).

**Table 2:** Descriptive statistics and bivariate analysis of the samples.

<sup>\*</sup>Data are presented as the mean of the variables.

# **Findings of the Logit Analysis**

Table 3 presents the estimated coefficients, odds ratio and average marginal effects derived from logit estimates. The estimated coefficients of the logit model show the log odds of the workers experiencing psychological abuse in the workplace compared to those who do not. Among personal characteristics, age and marital status exhibit highly significant and negative associations with workplace psychological abuse, while the female gender has a highly significant and positive association. As worker's age increases, the log odds of experiencing psychological abuse decrease by 0.06. Conversely, being female increases the log odds by 0.56, and being married decreases it by 0.19.

In terms of human capital variables, education levels demonstrate highly significant and negative associations with workplace psychological abuse. Workers with primary, secondary, higher secondary, tertiary, and madrasa education have log odds reductions of 0.66, 0.80, 0.97, 1.53, and 1.18, respectively. On the other hand, the coefficient for training is negative and statistically insignificant.

Household characteristics reveal that being the head of a household and larger household sizes are highly significant and negatively associated with workplace psychological abuse. Being the head decreases the log odds by 0.48, while each additional member in the household decreases it by 0.04.

Work-related variables show that workers in manufacturing, services, elementary occupations, and employees exhibit highly significant and positive associations with reporting psychological abuse. Workers in

the manufacturing sector have a 0.49 increase in log odds, while those in the services sector increase by 0.98. Workers in elementary occupations experience a 1.10 increase, and "employee" employment status results in a 1.15 increase.

Regarding workplace features, workplaces with 2 to 4 workers, 5 to 9 workers, or 10 to 24 workers have a highly significant and negative relationship with workplace psychological abuse compared to single-worker workplaces. The log odds decrease by 0.51, 0.43, and 0.34, respectively. Conversely, workplaces with over 250 workers have a highly significant and positive association, with log odds increasing by 0.34. Moreover, working in NGOs, private companies, or households instead of government institutions increases the log odds by 0.88, 0.62, and 0.83, respectively.

Variables such as temporary jobs, full-time jobs, hazardous occupational environments, informal jobs, and longer work durations exhibit highly significant and positive associations with experiencing psychological abuse. Temporary jobs increase the log odds by 0.11, full-time jobs by 0.12, hazardous environments by 0.84, informal jobs by 0.35, and each additional hour of work per week by 0.01.

Geographical factors indicate that the urban environment is highly significant and positively associated with experiencing psychological abuse, with log odds increasing by 0.16. Among divisional dummies, Mymensingh, Barishal, Khulna, Rajshahi, and Sylhet show highly significant and negative associations, while Chattogram and Rangpur exhibit highly significant and positive associations with psychological abuse.

	-1	-2	-3
Variables	Coefficient	Odds Ratio	Average Marginal Effects
222	-0.0633***	0.939***	-0.00133***
age	-0.00235	-0.0022	-5.12E-05
formala	0.563***	1.755***	0.0118***
female	-0.0467	-0.082	-0.000987
married	-0.185***	0.831***	-0.00388***
	-0.0409	-0.034	-0.000862
pri_edu	-0.663***	0.516***	-0.0172***
	-0.0482	-0.0249	-0.00133
sec_edu	-0.803***	0.448***	-0.0198***
	-0.0508	-0.0227	-0.00136
hsec_edu	-0.986***	0.373***	-0.0228***
	-0.092	-0.0343	-0.0018

tertiary_edu	-1.525***	0.218***	-0.0294***
terdary_edd	-0.15	-0.0327	-0.00189
madrasa_edu	-1.184***	0.306***	-0.0256***
maurasa_euu	-0.422	-0.129	-0.00556
training	-0.162	0.85	-0.00341
training	-0.157	-0.134	-0.00331
hh hoad	-0.478***	0.620***	-0.0101***
hh_head	-0.0508	-0.0315	-0.00107
hh cizo	-0.0392***	0.962***	-0.000826***
hh_size	-0.0106	-0.0102	-0.000224
manuf	0.490***	1.632***	0.0103***
manuf	-0.0763	-0.124	-0.00161
a o my	0.981***	2.667***	0.0206***
serv	-0.059	-0.157	-0.00126
alamant aggun	1.100***	3.004***	0.0231***
element_occup	-0.0457	-0.137	-0.000989
amplayaa	1.150***	3.157***	0.0242***
employee	-0.0761	-0.24	-0.00162
TDE 2 4	-0.510***	0.600***	-0.0108***
TPE_2_4	-0.0613	-0.0368	-0.00138
TDE CO	-0.426***	0.653***	-0.00934***
TPE_5_9	-0.0778	-0.0508	-0.00169
TDE 10 24	-0.340***	0.712***	-0.00770***
TPE_10_24	-0.0866	-0.0617	-0.00191
MDE 25 00	-0.169	0.845	-0.00408*
TPE_25_99	-0.103	-0.0867	-0.00242
TDE 100 240	0.126	1.134	0.00342
TPE_100_249	-0.118	-0.134	-0.00329
TDE 250.	0.336***	1.400***	0.00988***
TPE_250+	-0.0907	-0.127	-0.00275
· · · · · · · · · · · · · · · · · · ·	-3.184***	0.0414***	-0.0283***
not_specified	-0.237	-0.0098	-0.00127
NCO	0.876***	2.402***	0.0162***
NGO	-0.253	-0.608	-0.00569
	0.620***	1.858***	0.0102***
private_inst	-0.148	-0.275	-0.00191
h 1 11	0.829***	2.292***	0.0150***
household	-0.16	-0.368	-0.00239
	0.108***	1.114***	0.00228***
temp_job	-0.0383	-0.0427	-0.000806

full tala	0.119**	1.126**	0.00250**
full_job	-0.0598	-0.0673	-0.00126
	0.844***	2.327***	0.0178***
occup_env	-0.0393	-0.0916	-0.000847
	0.0798	1.083	0.00168
oral_contact	-0.0568	-0.0616	-0.0012
: C 1 : - 1-	0.346***	1.414***	0.00728***
informal_job	-0.0974	-0.138	-0.00205
1 1	0.00831***	1.008***	0.000175***
work_dur	-0.0011	-0.00111	-2.32E-05
1	0.162***	1.176***	0.00341***
urban	-0.0399	-0.0469	-0.00084
	-2.604***	0.0740***	-0.0548***
Mymensingh	-0.509	-0.0376	-0.0107
D + 1 1	-0.900***	0.407***	-0.0189***
Barishal	-0.117	-0.0477	-0.00248
Ol	0.357***	1.429***	0.00751***
Chattogram	-0.0491	-0.0702	-0.00104
771 1	-0.263***	0.769***	-0.00553***
Khulna	-0.0675	-0.0519	-0.00142
D : 1 1:	-0.358***	0.699***	-0.00754***
Rajshahi	-0.0686	-0.048	-0.00145
	0.414***	1.514***	0.00872***
Rangpur	-0.0564	-0.0853	-0.00119
a. II	-0.857***	0.425***	-0.0180***
Sylhet	-0.0972	-0.0412	
	-4.189***	0.0152***	-0.00205
Constant	-0.21	-0.00319	
Observations	1,59,791	1,59,791	
LR chi2(39)	9172.23	9172.23	
Prob > chi2	0	0	1,59,791
Pseudo R2	0.2512	0.2512	
Log-likelihood	-13672.35	-13672.354	

Standard error in parentheses. See Table 1 for abbreviations.

**Table 3:** Logit estimates of psychological abuse in the workplace.

One of the key reasons why logistic regression is widely used is because the term "exp"  $(\alpha_i)$  has a straightforward interpretation. A higher odds ratio signifies an increased likelihood of a worker experiencing psychological abuse, with an odds ratio exceeding 1 indicating higher odds, and those below 1 suggesting lower odds.

The estimated odds ratio suggests that with the increase in the age of the workers, the workers have 0.94 times fewer odds to be experiencing psychological abuse. It is seen that if the worker is female, the odds of her experiencing psychological abuse are 1.76 times more than that of a male worker. Married workers have 0.83 times lower odds to be

<sup>\*\*\*</sup> p<0.01, \*\* p<0.05, \* p<0.1

experiencing psychological abuse than unmarried workers.

Turning our attention to education levels, we find that workers with primary, secondary, higher secondary, tertiary, and madrasa education experience odds that are 0.52, 0.45, 0.37, 0.22, and 0.31 times lower, respectively, compared to those with no primary schooling. This suggests a significant educational impact on the likelihood of experiencing psychological abuse.

Household dynamics play a crucial role as well. If the individual is the head of the household, the odds of his/her experiencing psychological abuse are 0.62 times lower odds than the worker who is not the head of the household. With the increase in the size of the households, the workers have 0.96 times fewer odds to be experiencing psychological abuse.

When we explore employment sectors, we find that workers in the manufacturing sector have 1.63 times higher odds of experiencing psychological abuse, while those in the services sector face odds that are 2.67 times higher. Workers employed in elementary occupations encounter significantly higher odds, approximately 3.00 times greater, compared to their counterparts in other sectors. Similarly, "employee" employment status leads to 3.16 times higher odds.

A worker employed where 2–4, 5–9, and 10–24 employees are engaged in a firm, as opposed to 1 worker, is at lower odds but a worker employed where more than 250 employees is at higher odds to be experiencing psychological abuse. Moreover, those engaged in NGO, private, and household employment have around 2.40, 1.86, and 2.29 times, respectively greater odds of being abused as opposed to a worker employed in a government institution.

Job attributes also have a marked impact. Temporary jobs result in 1.11 times higher odds of experiencing psychological abuse, while full-time employment leads to 1.13 times higher odds. Working in a hazardous environment corresponds to 2.33 times higher odds and informal sector employment results in odds that are 1.41 times higher. Furthermore, with each additional hour worked per week, the odds increase by a factor of 1.00.

Geographical factors play a role too. Workers in urban areas face odds that are 1.18 times higher than their rural counterparts. Among divisional dummies, Mymensingh, Barishal, Khulna, Rajshahi, and Sylhet have lower odds, whereas Chattogram and Rangpur exhibit higher odds of experiencing psychological abuse in the workplace.

Despite the odds ratio allowing us to quantify the associations of the explanatory variables with the likelihood

that the outcome variable will take on the value of one, average marginal effects is a more relevant means of presenting data, as differences in probability are measured on a probability scale and not on the odds scale. It allows us to compute the average effects of explanatory variables on probabilities that are non-linear as the probability must be between the range of 0 and 1, conditional on covariates. The last column of Table 3 presents the average marginal probabilities, which can be interpreted as percentage points changes when multiplied by 100.

The estimate of average marginal effects shows that as the age of a worker increases, the probability of that worker facing psychological abuse decreases by 0.13 percentage points. That is, younger workers are more at risk of being victimized in their respective workplaces in the country. When it comes to gender, the probability of being psychologically abused increases by 1.18 percentage points if the worker is female as opposed to male. The likelihood of being psychologically abused decreases by 0.39 percentage points if the worker is married. Moreover, we see that if a worker has primary education as opposed to receiving no formal education at all, it is 1.72 percentage points less likely that he/she will be psychologically abused. However, if a worker has secondary, higher secondary, tertiary, or madrasa education, the probability of experiencing workplace psychological abuse decreases by 1.98, 2.28, 2.94, and 2.56 percentage points, respectively.

The likelihood of being psychologically abused decreases by 1.01 percentage points if the worker is the head of the household. With the increase in the size of the household, the probability of a worker in the household decreases by 0.08 percentage points. If a worker is employed in the manufacturing sector, services sector, elementary occupation or employed as an employee, the likelihood of experiencing workplace psychological abuse increases by 1.03, 2.06, 2.31, or 2.42 percentage points, respectively.

A U-shaped pattern is seen while observing the probability of being psychologically abused along with the change in the number of workers employed in a workplace. The results depict that the likelihood of being abused decreases by 1.08 percentage points if 2–4 workers are employed in a firm, decreases by 0.93 percentage points if 5–9 workers share a workplace at a time, and decreases by 0.77 percentage points when 10–24 workers are employed by a firm, respectively, instead of only 1 worker. However, the probability of being psychologically abused increases by 0.99 percentage points when 250+ employees are employed in an institution as opposed to having only 1 employee.

Based on the type of institution the worker is employed at, it can be said that if a worker works at an NGO instead of

working at a government institution, the probability of that worker being the victim of workplace psychological abuse increases by 1.62 percentage points. Again, the likelihood of facing psychological abuse increases by 1.02 percentage points when the worker is employed at a private institution and the same increases by 1.50 percentage points when he/she is employed in a household.

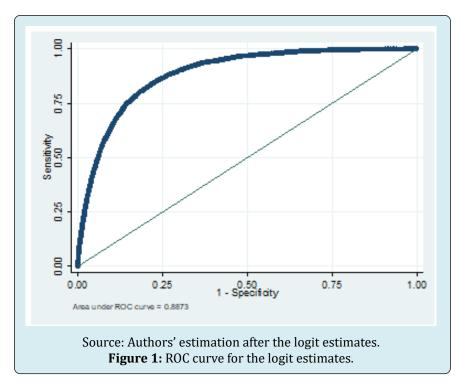
The result also shows that if the job is temporary instead of permanent, then a worker is 0.23 percentage points more likely to be psychologically abused and if the type of employment is full-time as opposed to part-time, it is 0.25 percentage points more likely that the worker may be psychologically abused. The probability of psychological abuse of the worker who works in a hazardous environment can increase by 1.78 percentage points, and the worker employed in an informal job is 0.73 percentage points more likely to be abused than a worker employed in a formal sector job. With the increase in the duration of work in a week, workers become 0.02 percentage points more likely to be psychologically abused. If a worker is employed in urban areas as opposed to rural areas, the probability of that worker being psychologically abused increases by 0.34

percentage points.

## **Robustness Check of the Logit Estimates**

The logistic regression employs maximum likelihood, an iterative method. The logit model in this paper reached results after the seventh successive iteration. The first iteration (iteration 0) represents the log-likelihood of the "null" model, one without predictors, and its log-likelihood is -18258.47. In subsequent iterations, predictors are added, causing the log-likelihood to increase, aiming for maximization. Convergence occurs when the difference between successive iterations is very small, prompting the cessation of iteration, and the results are presented. The log-likelihood value for the final model is -13672.354, based on 159.791 observations.

The likelihood ratio (LR) test indicates an LR chi2 (39) statistic value of 9172.23, with 39 degrees of freedom. The Prob>chi2 value, representing the probability of obtaining the chi2 statistic assuming the null hypothesis (predictors have no effect), is 0.0000, less than 0.05. This high statistical significance implies that one or more predictors significantly impact the dependent variable. The pseudo R2 is 0.2512.



Although the logit model is statistically significant, it is necessary to understand the accuracy of the estimated model. The accuracy can be measured with the help of the receiver operating characteristics (ROC) curve. The ROC curve is a graph of sensitivity versus one minus specificity as the cutoff

c is varied— and calculates the area under it [31]. Figure 1 presents the ROC curve for the estimated logit regression. It shows that the logit model correctly specifies 88.73% of the exposure events, showing a high level of accuracy.

estat classification						
	Logistic :rr.od.el for psy_abuse					
		True				
Classified	D	-D	Total			
+	60	73	133			
-	3820	155838	159658			
Total	3880	155911	159791			
	Classified + if predicted	Pr (D) >= .5				
	True D defined as psy_abuse != 0					
Sensitivity	Sensitivity		1.55%			
Specificity		Pr(-I ~D)	99.95\$			
Positive Predictive Value		Pr(DI +)	45.11%			
Negative Predictive	Negative Predictive Value		97.61%			
False + rate for true	False + rate for true -D		0.05%			
False - rate for true	False - rate for true D		98.45%			
False + rate for classi	False + rate for classified +		54 .89%			
False - rate for classi	False - rate for classified -		2.39%			
Correctly classified			97.56%			

Source: Authors' estimation after the logit estimates.

**Table 4:** Estat classification results.

Table 4 shows that the overall rate of correct classification is estimated to be 97.56, with 99.95% specificity and only 1.55% sensitivity.

Logistic model for psy abuse, goodness-of-fit test				
number of observations	159791			
number of covar iate patterns	152844			
Pear son chi2 ( 152804)	134953.32			
Prob > chi2	1.0000			

Source: Authors' estimation after the logit estimates.

**Table 5:** Pearson Goodness-of-fit test.

Table 5 presents the Pearson chi2 goodness-of-fit test for the fitted model. The Pearson chi2 goodness-of-fit test is a test of the observed against the expected number of responses using cells defined by the covariate patterns. The Pearson chi2 value of 134953.32 and Prob>chi2 value of 1.0000 indicates that our model fits reasonably well.

#### **Discussion**

This study aimed to investigate the influencing factors of workplace psychological abuse in Bangladesh. Both bivariate and multivariate analyses were employed to reach our findings. We found that younger individuals have a greater likelihood of experiencing psychological abuse in the workplace than their older colleagues. This result aligns with the research conducted by Aquino, et al. [17] and by others [6,23], but it contradicts the findings of Tjaden, et al. [20], who found no connection between age and workplace psychological abuse.

Our study revealed that female workers are more likely to experience psychological abuse compared to their male counterparts. These findings are consistent with previous studies [6,17,20,23,25]. Moreover, married workers are less likely to encounter abuse at work in comparison to unmarried workers, which is consistent with the conclusions of Ahmed, et al. [23].

We found that as individuals progress in their education, they are less likely to experience psychological abuse. These results are in line with the findings of Ahmed, et al. [23]. Another significant finding is that household heads are less likely to experience psychological abuse compared to non-head households. This finding corresponds to earlier research that linked age to this outcome [17].

A substantial portion of Bangladesh's population works in the manufacturing sector. Among the individuals who reported experiencing psychological abuse, over a third of them came from this sector. Our analysis revealed

that workers in the manufacturing sector are more likely to experience psychological abuse than those in other sectors. This finding is consistent with previous research [23,25], which highlighted the severity of verbal abuse in the readymade garments sector, the largest manufacturing sector in the country. Similar patterns were found among workers in the services sector, aligning with prior research [28].

Occupation type significantly influences the likelihood of experiencing psychological abuse in the workplace. Elementary job holders are more likely to be psychologically abused than non-elementary job holders. Likewise, employees face a higher risk of psychological abuse compared to individuals in other employment types, consistent with previous studies [6,23].

Our study indicated that the probability of psychological abuse is lower when workplaces have 2-24 employees compared to single-worker setups. However, when the number of employees exceeds 250, the risk of abuse increases, a finding consistent with previous research [23]. Moreover, the type of institution is related to workplace psychological abuse, with NGO workers, private institution workers, and household workers facing a higher risk compared to those in government institutions. A similar conclusion was made by Ahmed, et al. [23].

Hazardous work environments, job duration, contract type, and job permanency also play roles in workplace psychological abuse. Full-time workers are more likely to be psychologically abused than part-time workers, in line with previous findings [23,27]. Employees who are contacted orally and those with temporary employment contracts face a greater risk of being abused, which aligns with observations from previous studies [23,26]. Our study also concludes that as the duration of work increases, the probability of a worker being psychologically abused also increases, and job informality raises the risk of abuse. Additionally, workers in urban areas are more likely to experience psychological abuse than those in rural areas [31].

One limitation of the study is the inability to explore the associations between various psychometric characteristics and workplace psychological abuse. Factors such as the motives of perpetrators, work time periods (daytime, nighttime, and overtime), workplace violence regulations, perspectives of managers and supervisors on workplace violence and its handling within organizations, among others, may also be linked to workplace psychological abuse. Unfortunately, the study could not incorporate these elements due to data unavailability. There is potential for future research to delve into these aspects and provide a more comprehensive understanding of the subject.

## **Conclusion**

The workplace, a central part of employees' lives, serves as a platform for professional growth and economic stability. Understanding the dynamics of psychological abuse within this context is essential for fostering a healthy work environment and ensuring the well-being of millions of workers in Bangladesh. Using the latest Quarterly Labour Force Survey (QLFS) 2016-17, conducted by BBS, this research unravelled critical insights. Logistic regression analysis unveiled significant determinants of psychological abuse in the workplace. It was evident that age, gender, education, household dynamics, employment sector, workplace size, job attributes, and geographic location all play crucial roles in influencing the likelihood of experiencing psychological abuse at work.

Among these findings, certain groups faced higher risks. Younger workers, females, and those with lower educational attainment were particularly vulnerable. Furthermore, the choice of employment sector, job attributes, and workplace size also had significant implications. Factors like temporary and full-time employment, hazardous work environments, and informal job arrangements emerged as risk factors for abuse. The geographic location of workplaces also proved to be a significant factor, with urban areas showing a higher probability of psychological abuse. Additionally, specific divisions within Bangladesh exhibited varying risks, emphasizing the need for tailored interventions.

Based on the findings, several targeted policy recommendations emerge to address and mitigate the identified risk factors. Policymakers can consider implementing comprehensive training programs for employers and supervisors to raise awareness about the detrimental effects of psychological abuse and foster a culture of respect and dignity in the workplace. Additionally, establishing clear reporting mechanisms and whistleblower protections can empower victims to come forward without fear of retaliation.

Specific interventions tailored to vulnerable groups, such as younger workers, females, and those with lower educational attainment, are essential. Initiatives promoting inclusivity, equal opportunities, and gender sensitivity in hiring and promotions can contribute to a more equitable work environment. Moreover, recognizing and addressing the risk factors associated with employment sectors, job attributes, and workplace size can guide targeted interventions. For instance, enhancing safety measures in hazardous work environments, regulating informal job arrangements, and ensuring appropriate supervision in various sectors can significantly contribute to reducing the incidence of psychological abuse. Geographically,

efforts should be concentrated on urban areas, where a higher probability of psychological abuse was identified. Implementing awareness campaigns, workplace interventions, and community outreach programs can effectively address this issue in urban settings. Furthermore, recognizing the varying risks in specific divisions within Bangladesh calls for localized strategies and interventions that consider the unique dynamics of each region.

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- **Data Availability Statement:** The data that support the findings of this study are available from the corresponding author upon reasonable request.

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