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# **Original Research Article**

# "Workplace Mental Health Disorders in Garments Workers"

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# **Abstract**

Workplace Mental Health Disorders can affect health if there is an inappropriate interaction between the type and content of the work, the organizational environment and the worker's capabilities. The objective was to determine the relationship between labor psychosocial factors and psychic disorders in workers of a Garments Factory. According to the National Mental Health Survey conducted by WHO in 2013-2015 about 16.05 percent of the adult population in the country are suffering from mental disorders. ICDDR, B's review in 2019 bumped that number to a prevalence range between 16-31 percent. Regrettably, the inference that can be drawn is that up to 50.5 million Bangladeshis are either unemployed, or are actively hiding their mental illness related issues at work. Labor psychosocial factors can affect health if there is an inappropriate interaction between the type and content of the work, the organizational environment and the worker's capabilities. The objective was to determine the relationship between labor psychosocial factors and psychic disorders in workers of a garments factory. This is an observational, cross-sectional and analytical study in Asrotex Limited and Taqwa Fabrics Limited, Gazipur, Bangladesh from August to September -2021. The data were collected with the both Garments Factories at Work instrument and the Goldberg General Health Questionnaire. 110 workers participated, 54% were women and 46% men. 40% perceived the presence of negative psychosocial factors at medium level, the most frequent being the labor requirements and the role of the worker. In relation to mental health, 15% were considered as a "case", the most frequent disorders were: sleep disturbances, anxiety and depression and behavior disorders. Psychosocial factors were related to anxiety and depression (p<0.05). The relationship between occupational psychosocial factors and psychic disorders was confirmed.

Keywords: Labor Psychosocial Factors, Psychic Disorders, Mental Health.

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# Introduction

Nobody can deny that jobs and careers are paramount part and parcel of our lives. Generally a person who works in garments is called garment workers. Someone whose occupation is making or repairing garments products is called garment workers. Someone says that the persons who makes or mends dresses in the factory or garment industry is called garment workers [1]. Along with providing a source of income, they help us to fulfill our personal aims, build social networks and serve our nation or communities. Historically, the attention to occupational health threats focused on the physical, chemical environmental risks that cause most accidents and diseases [2]. Mental health includes our emotional, psychological, and social well-being. It affects how we think, feel, and act. It also helps to determine how we

handle stress, relate to others, and make choices. Mental health is zenith important at every phases of life, from childhood and adolescence through adulthood. Mental health is defined as a state of well-being in which every individual realizes his or her own potential, can accommodate with the normal stresses of life, can work productively and fruitfully, and is able to make a contribution to her or his community. The importance of these has been increasingly recognized, which has led to an increase and deepening of the issue [3, 4], the Member States of the World Health Organization (WHO) talked about these factors in relation to mental health and human development [5]. Caplan and Collaborators since 1975 [6] (cited in the report of the joint ILO/WHO committee in 1984 considered the existence of unfavorable psychosocial factors of professional origin and defined them as characteristics of the work environment that created a threat to the individual. More recently, there are three ways to refer to psychosocial aspects: as psychosocial factors, psychosocial risk factors and psychosocial risks. The first are descriptive, they refer to the organizational structure, the psychosocial conditions of work such as corporate culture, work environment, leadership style or job design [7], factors that, as such, may being positive or negative about the activity and the quality of work life of people, being positive they encourage the personal development of individuals, while when they are unfavorable they harm their health and well-being [8]. The latter are predictive, and act as triggers of work stress and stress [7] and as psychosocial risks, psychosocial factors are likely factors of damage to health, are always negative and can affect both physical health as well as psychological [2]. The definition of these factors is the one referred by the International Labor Organization (ILO) that serves as a starting point for its study, it is understood that: "Psychosocial factors at work consist of interactions between work, its environment, the satisfaction in the work and the condition of the organization, on the one hand, and on the other, in the abilities of the worker, his needs, his culture and his personal situation outside the work, all of which through perceptions and experiences it can influence health, performance and job satisfaction" [9, 10]. On the other hand, psychic disorders for Halgin & Whitbourne et al., [11] are a clinically significant behavioral or psychological syndrome or pattern, which occurs in an individual and is associated with a disturbance or disability or with a significant risk of dying, of suffering pain or a significant loss of reality. Now, there are endless psychic disorders, for the present investigation the pictures of depression, anxiety, psychosomatic disorders, and social dysfunction and sleep disorders were taken, which are alterations that are not highly disabling, such as those in which there is a loss of contact with reality [12]. Mental health can be considered an insufficiently studied area, especially in relation to psychosocial factors, partly because the same mental health has been poorly documented in research papers and most of these are exclusively in cases of mental disorders nosologically diagnosed [7]. On the other hand, in our country recently there are legal obligations for the protection of workers against labor psychosocial factors. Hence the importance of identifying as a central objective of this work the relationship between labor psychosocial factors and psychic disorders in the workers of two Garments Factory located in the metropolitan area of Gazipur.

### **MATERIAL AND METHODS**

This is an observational, cross-sectional and analytical study in Asrotex Limited and Taqwa Fabrics Limited, Gazipur, Bangladesh from August to September -2021. The data were collected with the both Garments Factories at Work instrument and the Goldberg General Health Questionnaire. The study

included all those workers who had more than two months in the Factory because they were stable at work and exposed to different psychosocial factors in the work area, 110 participants were selected by simple random sampling; incomplete surveys were removed.

#### **Evaluation Instruments:**

The data collection instruments were a selfadministered questionnaire that contained three sections: the first one integrated with the sociodemo graphic and labor variables, the second by the scale of Psychosocial Factors in the Academic Work of Silva Gutiérrez, which has 7 Likert-type subscales, which ranges from 0 (never) to 4 (always) and evaluates: conditions. workload. content characteristics of the task, labor requirements, worker's role, social interaction and organizational aspects, performance compensation. For their evaluation, the scores were added, and the following levels were considered: <55 low level, from 56 - 121 medium and from 122 to 184 high. The scores that correspond to high and medium levels are considered as indicators of the presence of negative psychosocial factors at work. This instrument has an average reliability between the factors with a Cronbach Alpha of 0.8817, so we can assume that it has construct validity and acceptable internal reliability [13]. The third instrument used was the Goldberg General Health Questionnaire -GHQ-30, standardized version Lobo M. et al. [14] is a suitable instrument for the evaluation of the general state of health and personal well-being, especially psychological aspects, and the initial screening of psychopathology. The scale is subdivided into 5 factors: psychosomatic symptoms, anxiety-depression, sleep disturbances, behavior and interpersonal relationships [15]. For its evaluation a point was assigned for columns 3 or 4 (it can be any value); and 0 points for columns 1 and 2 (can be any value). Columns 3 and 4 are added in the qualification, 1 and 2 are omitted. In the score 7/8 was taken as the optimum cut-off point to be considered as a "case" or probable psychological disorder (sensitivity of 77% and specificity 90% (from the Smoked Magazine-2004 [16] this instrument has an internal consistency with a Cronbach's Alpha coefficient of 0.97 (Godoy-2002[17].

#### **Process:**

The application of the data collection instruments was carried out within the work areas, in the space allocated by the directors of the institution and in the time established by the same Factory in order not to interrupt the work for a long time.

## STATISTICAL ANALYSIS

For the statistical analysis of the data, the type of variable was considered: For the socio- labor variables of quantitative type, measures of central tendency (average) and dispersion measures were obtained, in those of qualitative type absolute and relative frequencies were obtained. Descriptive analyzes

were carried out to assess the prevalence of psychosocial factors in workers. To find the relationship between occupational psychosocial factors and psychic disorders, Chi Square was used in which an association with a value of p <0.05 was used, a confidence interval (CI) that did not include the unit, and an OR >1.

#### RESULTS

The sample consisted of a total of 110 workers with an age range between 18and 58 years, an average of 33.4 years (± 7.608), of which 54% (59) are women and 46% (51) men, 33.63% were married, in terms 19.09% had finished high school and 46.36 Secondary and 4.54 had a bachelor's degree (Table 1).

Table-1: Sociodemographic characteristics of the workers of a Garment Factory.

Variable		Frequency	%		
Gender	Female	54	59.0		
	Male	46	51.0		
Marital status	Married	37	33.63		
	Single	31	28.18		
	Free union	15	13.63		
	Separated	11	10.0		
	Divorced	12	10.90		
Scholarship	Primary	21	19.09		
	Secondary	51	46.36		
	High School	33	30.0		
	Bachelor's degree	5	4.54		
Age: Range: 18-58 years, Average 33.4 (± 7.608)					

84.5% (41) of the workers had a permanent contract, with an age range of 1 to 7 years, an average

of 1.2 years ( $\pm 1.820$ ) working for the institution. 61.8% (Table 2).

Table-2: Labor characteristics of the workers of a Garment Factory.

Variable		Frequency	%		
Contractual condition	Permanent	41	84.5		
	Non-Permanent	65	11.8		
	Eventual	4	3.6		
Turn	Morning	68	61.8		
	Night	42	38.2		
Stall	Operational	5	4.54		
	Technical	8	7.27		
	Administrative	7	6.36		
	Supervisor	10	9.09		
	General Worker	80	72.72		
Age in the Factory: Average: 1.2 years (± 1.820), range of 1 to 7 years					

The results of the workers' perception of psychosocial factors in general are mainly at the low level with 60% (66), and 40% (44) at the medium level. According to the different areas that make up the instrument used for the evaluation of psychosocial factors, it was observed that 26.4% (29) of the workers

perceive labor demands at a high level, followed by 56.4% (62) at the medium level, 47.3% of the respondents perceive the workload at the medium level, the area that evaluates the role of the worker and career development 45.5% of the workers perceive it at the middle level and 8.2% at the high level (Table 3).

Table-3: Perception of workers on the presence of Psychosocial Factors according to the scale of Psychosocial Factors.

Subscales	Low		Medium		High	
	Fq.	%	Fq.	%	Fq.	%
Workplace conditions	66	60.0	44	40.0	-	-
Workload	58	52.7	52	47.3	-	-
Content and characteristics of the task	62	56.4	46	41.8	2	1.8
Labor requirements	19	17.3	62	56.4	29	26.4
Role of the worker and career development	51	46.4	50	45.5	9	8.2
Social interaction and organizational aspects	89	80.9	19	17.3	2	1.8
Performance compensation	83	75.5	24	21.8	3	2.7
Total of Psychosocial Factors	66	60.0	44	40.0	-	-

Regarding the psychic disorders evaluated through the Goldberg General Health Questionnaire, it was found that 85% (93) of the participants belong to the "no case" group, which means that they do not present psychic symptoms, while the 15% (17) of the workers correspond to the "case" group, if they

manifest psychic symptoms. Considering the results according to the subscales of the Questionnaire, the main psychic disorders that workers present are: sleep disturbances with 61.8% (68), as well as behavioral disturbances with 56.4% (62) (Table 4).

Table-4: Psychological Disorders of Workers of a Garments Factory according to Goldberg General Health Ouestionnaire (GHO-30).

Questionnuire (311Q 50).					
Disorders	Case		No Case		
	Fq	%	Fq	%	
Somatic symptoms	50	45.5	60	54.5	
Sleep disturbances	68	61.8	42	38.2	
Behavioral disturbances	62	56.4	48	43.6	
Relationships	46	41.8	64	58.2	
Anxiety and severe depression	22	20.00	88	80.0	

**Note:** cut 7/8 = case of psychological disorder

The analysis of the association between the results of the Goldberg instrument considering as "case" risk and high and medium psychosocial factors,

statistical significance was found regarding the role of the worker and career development with an OR = 4.978, (CI of 1.341 - 18.478 and P = 0.010) (Table 5).

Table-5: Relationship between "case" and "no case" according to the results of the GHQ-30 and the presence of psychosocial factors.

Psychosocial Factors	Or	Ci Lower	Ci Higher	P
Workplace conditions.	1.864	0.658	5.278	0.236
Workload.	1.735	0.608	4.951	0.300
Content and characteristics of the task.	2.068	0.723	5.913	0.170
Labor requirements.	1.678	0.350	8.034	0.514
Role of the worker and career development.	4.978	1.341	18.478	0.010
Social interaction and organizational aspects.	2.005	0.620	6.487	0.239
Performance compensation.	1.345	0.427	4.237	0.612
Total Psychosocial Factors	2.479	0.864	7.113	0.085

Note: significant data with values of OR> 1, CI not including the unit. p <.05The relationship between psychosocial factors and psychic symptoms is that anxiety and severe depression show significant

values with an OR 2.656, (CI of 1.021 - 6.908 and a P = 0.041), workers who perceive negative psychosocial factors manifest mainly this variant of psychic disorders (Table 6).

Table-6: Relationship between the sub-scales of the GHQ and the presence of psychosocial factors in the work.

Psychic symptomatology	Or	Ci Lower	Ci Higher	P
Somatic symptoms	1.846	0.853	3.995	0.118
Sleep disturbance	1.135	0.517	2.502	0.749
Alterations of behavior.	1.933	0.879	4.253	0.099
Interpersonal relation	1.497	0.691	3.243	0.305
Anxiety and severe depression.	2.656	1.021	6.908	0.041

Note: specific data with values of OR> 1, CI not specific to the unit and p <.05

## **DISCUSSION**

The psychosocial factors found in the workplace are very broad and range from aspects of the organization and work system to those of human relations in the Factory, these interact and impact on the health of workers, a situation that could be verify in the present investigation. In this study 84.5% (41) of the workers had a permanent contract, with an age range of 1 to 7 years, an average of 1.2 years (±1.820) working for the institution. 61.8% worked in the morning shift and night shift 38.2%.Regarding psychosocial factors,

Aranda and Ibarra *et al.* [18] reported a global prevalence of 58% negative psychosocial factors in operating personnel of a garments factory, data higher than in the present study in which 40% of the population studied perceives them in the middle level; minor data were reported by Gallegos *et al.* in their study 20.3% perceive psychosocial factors ashigh. Of the psychosocial factors studied, labor demands, workload and the role played by the worker and the development of his career, the three negative factors that were presented most frequently, coinciding with

what was reported by Aranda et al. [18]. The role played by the worker and the development of his career was related to psychological disorders, coinciding with the explanation presented by the European Agency for Safety and Health at work 2016 [19], where aspects such as the lack of clarity of job functions; the lack of participation in decision-making, the lack of mastery in the way in which the work is carried out, and the problems of career development, among others, are risk factors for the presence of psychological disorders such as emotional exhaustion and depression. In the present study The labor demands were not related to the psychological disorders analyzed, different situation refers Luna and Martínez et al. [20] in their report of workers of the pharmaceutical industry, they found that the labor demands are important for the presentation of disorders in the workers' health such as sleep disorders, psychosomatic disorders, anxiety, tension headache, among others. The work environment and the way in which work is organized and managed can influence the mental health of employees. The work is beneficial for mental health, because it can provide a greater sense of social inclusion, status and identity and provide a temporary structure, but it can also be negative, it has been observed that many of the psychosocial risk factors in the workplace increase the risk of anxiety, depression and exhaustion, as found in this research where depression occurred in 20% of the participants and this was related to psychosocial fatigue, minor data on depression reports Llorca et al. [21] 10.5% and considers that the mental disorders the major depressive disorder is the one with the highest prevalence. Llorca et al. [21] reports that approximately 9% of the population suffers from some type of mental health related disorder; in the present study, greater data were reported, 15% of the workers were described as "yes cases" of mental health disorders, coinciding with the study by Flores et al. [22] in academic workers. Minor data (11.1%) reports Amezcua et al. [23] in its study with teaching professionals who worked with students with special educational needs. Older data is obtained by Morales-Carmona et al. [24] in patients with obstetric conditions where 62.2% were classified as "case" and in women with gynecological conditions 52.1% were found to be a probable "case". It is estimated that depression will soon be the main cause of sick leave in Europe. In our country in 2017, 32 million people aged 12 and over reported having experienced feelings of depression; this is equivalent to 32.5% of the population of that age group [25] data greater than those found in the present study. Depression can be considered a public health problem that affects the general population, causes high disability and interferes decisively and intensely in personal, professional and social life. Evans-Lacko and Knapp et al. [26] mention that 0.1% and 4.9% of the Gross Domestic Product (GDP) was lost due to absenteeism and presentism linked to depression, they argue that this is a mental disorder that occurs in the workers of all countries and cultures, and that has an impact in absolute monetary

terms in relation to the proportion of the general economic production of a country, which is why it should be considered as a global problem. Insomnia is one of the most frequent psychic disorders, it is estimated that between 10 and 30% of the population has suffered from transient insomnia, but this problem can occur in up to 80% of the population at least once in life [27]. The Golberg General Health questionnaire used in this research allowed identifying the existence of sleep disorders in 61.8% of the participants. Similar data (61%) to those reported by Durand et al. [28] in the employees of a Factory producing soft drinks. Minor data report Pando and Aranda et al. [29] in older adults (33.3%) and Luna and Martínez et al. [20] with only 10% in the study population, sleep disorders are considered to be an important predictor of mental fatigue at work [30] In this study, 56.4% of the participants presented behavioral problems, similar data (54.3%) to those reported by Tiemi-Murofose &Palucci-Marziale et al. [31] in nursing workers of health institutions in Brazil, in their study the Authors believe that 40.8% of diagnoses are linked to conditions that are legally considered occupational diseases. It has been visualized that employers' initiatives are not enough to counteract mental illness caused or aggravated by work, it is necessary to establish policies that involve the direct participation of workers since these problems should be treated as a public health issue, so that interventions are structured that can address, in depth, the causes of the problem [32].

## **CONCLUSION**

The relationship between occupational psychosocial factors and psychic disorders was confirmed.

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