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Article

# Measuring the Scale and Scope of Workplace Bullying: An Alternative Workplace Bullying Scale

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**Abstract:** The toll of workplace bullying is immense, yet, similarly as with an iceberg, its scope, scale and implications tend to remain underestimated. Several ways of assessing the prevalence of workplace bullying have been proposed in the literature. The most frequently discussed are the ‘subjective method’ assessing individuals’ perceptions of being a victim and the questionnaire, i.e., criterion-based, methods, including Negative Acts Questionnaire (NAQ) and Leymann Inventory of Psychological Terror (LIPT). Since in both cases culture plays a profound role as a mediating factor in the process of identifying, collecting, and processing data, the applicability of these methods across cultures and countries has several limitations. At this stage, it is impossible to determine the impact of the implicit cultural-bias that these methods entail on the research outcomes. This would be possible if an alternative workplace bullying scale (WBS) was at hand and, consequently, a comparative analysis was conducted. This paper, drawing from a study conducted at higher education institutions (HEI) across Pakistan, addresses this issue by devising an alternative WBS. The value added of this paper is three-fold, i.e., it elaborates on the study and the specific methods employed to prove the validity and relevance of the alternative WBS. Moreover, by so doing, it addresses some of the limitations that other methods measuring the prevalence of workplace bullying display. As a result, it adds to the researchers’ and administrators’ toolkit as regards research and policies aimed at mitigating the scope and scale of bullying at HEIs across cultures and countries.

**Keywords:** workplace bullying; Workplace Bullying Scale (WBS); bullying; convergent validity; Job Stress Scale (JSS); higher education institutions (HEI)

## 1. Introduction

Workplace bullying seems to be an elusive concept in that it is challenging, first, to grasp the scope and scale of acts of hostility bullying implies and, second, to quantify it [1]. Several definitions of workplace bullying exist. In a nutshell, one could make a case that workplace bullying is essentially about purposeful breaches of an individual’s space of dignity, rights, and integrity. To put it differently, workplace bullying means harassing, offending, socially excluding someone, and/or negatively affecting someone’s work tasks [2]. This is an escalating process, in which a person feels unable to control negative acts (e.g., repeated attempts to undermine your personal dignity, excessive monitoring of your work, name calling, etc.) and becomes the target of systematic negative social behavior. A consensus exists about circumstances, in which negative behaviors can be called bullying [3].

To classify an act of behavior as bullying, three criteria have to be met: (1) Exposure to negative treatment systematically (i.e., once a week); (2) Exposure to negative treatment in a long term (approximately six months); and (3) Power inequality between the exposing and the exposed to negative treatment party [4–7]. A behavior that takes place only once or is repeated from time to time cannot be considered bullying. Previous studies [8,9] show that workplace bullying is different from typical job-related stress situations. The main reason for that is that bullying, unlike stress typical to specific occupations, encompasses a systematic targeting of an individual, including humiliation in front of other colleagues, unjustified criticisms, or intentional exclusion [10]. Moreover, there is a certain frequency to workplace bullying (e.g., weekly) and a certain duration (e.g., approximately six months). There has been some progress as regards to recognizing workplace bullying as a phenomenon that does exist, still a lot of work is needed to name it, expose it, measure it, and address it.

Indeed, over the past decade, several studies reported on negative implications of bullying not only on health and wellness of employees, but also on organizations themselves [11–13]. Research [14–17] suggests that victims of bullying may endure not only physical consequences (e.g., heart diseases, sleep problems, headaches), psychological problems (e.g., depression, anxiety) but also behavioral strains (e.g., aggressive behavior, crying). Workplace bullying may lead to a decrease in job satisfaction, loss in productivity and increased intention to leave [18,19]. There is, therefore, an urgent need to increase the general awareness of bullying, to improve our capacity to measure and assess the scale and scope of bullying, and finally to address bullying and its implications. Practice suggests that diagnosis and tangible evidence are needed to wither away disbelief and convince all stakeholders that a practice, in this case bullying, is taking place. Quantifiable results are the ones that are the most convincing. In this view, considering the scale of bullying and the breadth of its negative implications on individuals and on organizations, it is necessary to devise a tool that allows to quantify the scope and scale of bullying in the workplace as it affects an increasing number of individuals.

Generally, researchers have employed one or two different methods to assess the prevalence of workplace bullying. The first is the subjective method of asking participants whether they—based on a given definition of workplace bullying—perceive themselves as victims of bullying [20]. The second is the operational, or criterion-based, method, where various questionnaires of workplace bullying are used e.g. Negative Acts Questionnaire (NAQ) [2]. The employees are given a list of negative acts at workplace and they are prompted to tick the ones they have been subjected to. The most popular tools for the measurement of workplace bullying are the Leymann Inventory of Psychological Terror (LIPT-60) [21] and the Negative Acts Questionnaire (NAQ) [2]. Despite the strengths of these bullying measurement methods and related scales, there is, however, considerable room for improvement [22,23]. Existing bullying questionnaires are very lengthy (e.g., LIPT-60) and, since they were developed in Europe, they are culturally specific and may have limited application in Pakistan. As a result, the appropriateness of administering these measures outside Europe may be questionable. It is also argued [24] that workplace structure is the key factor in the occurrence of workplace bullying. It is also argued that societies ranking high in power distance (PDI) and low in uncertainty avoidance (UAI) [25,26] may be more prone to workplace bullying. In this reading, workplace bullying might be more prevalent in Asian societies as compared to European countries, and then Canada, or the United States [27]. Sadly, our own research suggests—and this might be the key feature of workplace bullying—the ways and means ‘adjust’ flawlessly to culture specifics. Hence, it would be simplistic to say that some cultures are more/less prone to bullying and research seems to attest to that [28]. Importantly, what may be changing though across cultures, are the means and patterns of practices associated with bullying, also attitudes to bullying and ways of responding to it. In this context, one can make a case that Pakistan and other Asian countries have distinct features of work culture, being more vertical, collective, concerned for the quality of interpersonal relation, and hierarchy oriented. This might result in specific patterns of workplace bullying. The same would apply to other countries representative of different cultures.

The generalizability of the existing bullying scales in countries like Pakistan, where English is not the first language must also be considered, because some words convey different meanings in different cultures. Sometimes, it is also hard to find suitable substitute for a particular English word while translating the statements, which may change its meaning, especially when using technical terms in a specific context [29–31]. Language barriers could also influence the accurate assessment of workplace bullying. Some scales (e.g., LIPT-60) are somewhat long and, consequently difficult to use in standard organizational surveys. For the above-mentioned reasons, theoretical and practical benefits are likely to be derived not only from a new instrument encompassing the previous ones, but also from the validity added by a sample of indigenous participants. Therefore, the need for developing a culturally anchored measurement of bullying at work in Pakistan that is short and comprehensible seems to be justified. The remainder of this paper is structured as follows. Section 2 outlines the phases of the study and the methods employed to garner the results. The Discussion follows in Section 3 and Conclusions ensue.

## 2. Method and Methodology

This study consisted of four phases. In phase I, items of the Workplace Bullying Scale were generated using both inductive and deductive approaches. The exploratory factor analysis (EFA) was run on 200 university faculty aged 22 to 60 years ( $M = 36.40$ ,  $SD = 10.70$ ) in phase II. A Varimax rotation method was used, which yielded two factors: person-related and work-related bullying; this accounted for 60% of the variance. In phase III, Confirmatory Factor Analysis (CFA) was run to validate the findings of EFA. The sample for CFA consisted of 400 faculty aged 21 to 60 years ( $M = 34.0$ ,  $SD = 8.0$ ). This convenience sample was recruited from 7 universities of Lahore (Pakistan). The CFA demonstrated a good fit with the data. The Cronbach alpha coefficients for work-related and person related bullying ranged from 0.77 to 0.87 respectively and 0.88 for the total workplace bullying scale. In phase IV, the convergent validity of the Workplace Bullying Scale was determined by finding a positive correlation ( $r = 0.75$ ) with the score of the Job Stress Scale (JSS).

## 3. The Study and Its Results

### 3.1. Phase I—Item Generation for Workplace Bullying Scale (WBS)

Items for the WBS were derived using both inductive and deductive approaches. The following sources were used to generate the WBS items: (a) literature review, (b) in-depth interviews of 20 university teachers with equal number of both genders selected through convenience sampling, and (c) interview of five psychologists. Interviews were comprised of semi-structured questions (e.g., describe bullying behaviors you face or observe at you workplace). These questions were prepared with the consultation of three university faculty taken from the psychology department to ensure a comprehensive and wide range of bullying behaviors (e.g., colleagues provide you necessary professional information, respect your personal dignity, give you due rights e.g., leave, include, or exclude you from group activities, etc.) particularly occur in our culture. These interviews were carried out individually and face to face. The researcher explored and encouraged research participants to describe bullying behaviors. Furthermore, these interviews were audio recorded with the permission of participants. The audio tape interviews and notes were transcribed. The bullying behaviors gathered from the abovementioned sources were pooled together in the form of a list. All the statements of scale were written in the native language Urdu. This list of items was presented to four experts (who had expertise in bullying research). After the Scrutiny of the WBS items (on the basis of clarity, fidelity, comprehensibility, and redundancy), with the consensus of four experts, 31 items were finalized [32].

To measure workplace bullying we have two methods. First, we can calculate a binary bullying score to classify participants as either bullied or not bullied. Based on the existing literature [5,6,33], the criterion was that respondents had to have experienced at least two of the bullying behaviors weekly or more often over the past 6 months. Second, the mean score across the all items can be computed to

yield an average response for each participant. Participants who had more than average scored can be classified as bullied [34].

In order to determine the clarity of the items and the level of difficulty, a pilot study was conducted on 30 faculty (male = 14, female = 16) selected by convenience from different universities of Lahore, Pakistan. Participants' ages ranged between 24 and 60 years (Mean = 34.73, standard deviation = 8.85). Participants were approached personally in their respective work places. Finally, 21 items were chosen to ensure factor validity and theoretical structure of workplace bullying scale via EFA.

### 3.2. Phase II—Factor Structure, Construct Validity, and Internal Consistency of the Scale Sample

An independent sample of 200 teachers was selected through convenience sampling from three major universities in Lahore. The age range of sample was between 24 to 60 years (M = 33.55, SD = 8.0). Both men and women employees were included in the sample. Participants with various levels of qualification and ranks were included. The base line for the work experience was 1 year. Participants diagnosed with any clinical problem (prior to bullying exposure) were excluded from study.

#### 3.2.1. Procedure

First of all, participants' consent was obtained. WBS was administered individually in their respective institutes. All participants were informed about the purpose of the study and written instructions to fill questionnaire. The researcher also assured the confidentiality and anonymity to participants about their feedback since no names were noted. All 200 questionnaires were fully completed.

#### 3.2.2. Results

After testing all assumptions for factor analysis, 21 items of the workplace bullying strains scale were subjected to exploratory factor analysis. The Varimax rotation method was employed to extract the principal components. Analysis produced two factors exceeding Eigen value 1 (see Table 1). Both factors were well defined, interpretable, clear, and accurate. Factors were finalized on the basis of theoretical relevance, scree plot, and Eigen values > 1.0 [35]. Furthermore, a significant amount of variance (60.0%) was accounted for both well-defined factors [36]. Factor 1 describes items related to threats about one's professional life. This factor was labeled as "Work-Related Bullying". This factor consisted of 10 items of WBS (5, 6, 7, 12, 13, 15, 16, 17, 18, and 19) (see Appendix A).

Factor 2 consisted of items related to attack on ones' personality and personal life. So, factor 2 was labeled as "Person-Related Bullying". This factor comprised of 11 items (1, 2, 3, 4, 8, 9, 10, 11, 14, 20, and 21) (see Table 1, Figure 1 and Appendix A).

**Table 1.** Factor loading for workplace bullying scale (N = 200).

Items	Factors		Item Total Correlation
	1	2	
wbq1	0.103	<b>0.710</b>	0.55 **
wbq2	-	<b>0.678</b>	0.44 **
wbq3	0.123	<b>0.764</b>	0.61 **
wbq4	-0.110	<b>0.759</b>	0.44 **
wbq5	<b>0.850</b>	-	0.65 **
wbq6	<b>0.858</b>	-	0.64 **
wbq7	<b>0.765</b>	0.121	0.64 **
wbq8	0.127	<b>0.868</b>	0.57 **
wbq9	0.108	<b>0.784</b>	0.54 **
wbq10	0.106	<b>0.670</b>	0.63 **
wbq11	0.338	<b>0.526</b>	0.64 **
wbq12	<b>0.819</b>	-	0.50 **
wbq13	<b>0.806</b>	-	0.54 **
wbq14	0.157	<b>0.796</b>	0.55 **

Table 1. Cont.

Items	Factors		Item Total Correlation
	1	2	
wbq15	<b>0.520</b>	0.275	0.56 **
wbq16	<b>0.656</b>	-	0.64 **
wbq17	<b>0.718</b>	-	0.58 **
wbq18	<b>0.765</b>	0.107	0.66 **
wbq19	<b>0.738</b>	0.156	0.65 **
wbq20	-	<b>0.641</b>	0.58 **
wbq21	0.124	<b>0.674</b>	0.55 **
Eigen values	34.84	21.40	
Cumulative percentage of variance	29.33	60.0	

\*\*  $p < 0.01$ . Note. Items with 0.40 or above are boldfaced and selected for scale (Raubenheimer, 2004).

Table 2 shows that all the subscales of the WBSS are reliable. Both subscales are positively correlated with each other and with total workplace bullying scale. So, WBS is internally consistent measure.

**Table 2.** Alpha Coefficient and Inter-Correlation for Subscales and Total Score of Workplace Bullying Scale (N = 200).

Factors	1	2	3
1. Person B	-	-	-
2. Work B	0.45 **	-	-
3. Total WBS	0.58 **	0.66 **	-
Alpha coefficient	0.87	0.77	0.88

\*\*  $p < 0.01$  Note. Person B = Person-related bullying, Work B = Work-related bullying, Total WBS = total workplace bullying scale.

### 3.3. Phase III—Confirmatory Analysis Sample

An independent sample of 400 university faculty (men = 200, women = 200) was collected from seven universities (both public and private) in Lahore, Pakistan. The age range of the sample was 22 to 60 years ( $M = 38.50$ ,  $SD = 9.40$ ) (Minimum 21 is the age of starting job and 60 retirement in university). The participants belong to various job ranks, levels of education, and socio-economic statuses. Only faculty who had more than 1 year of teaching experience were included (1 year was set as criteria because problems may be because of adjustment and not bullying).

#### 3.3.1. Instrument

The workplace bullying scale developed in Phase I was used. This scale consists of two subscales, including work-related bullying (WRB) and person-related bullying (PRB).

#### 3.3.2. Procedure

Participants were approached after the official permission from university authorities. Researcher presented a written consent form to participants individually with the complete information regarding the aim of the research. The WBS developed in Phase I was accompanied by a set of written guidelines (e.g., How often have you been subjected to the following negative acts at work or you have observed your colleague? Please mark on any one of the five options e.g., never, rarely, monthly, weekly and daily that best corresponds with your experience over the last six months) explaining how the questionnaire should be responded to. This study was conducted in a manner that respects the dignity, right and welfare of all the participants of research. Participants were informed that all the information revealed



by them will be kept confidential. Participants were also informed that they can withdraw from the study at any time. Researcher collected all data personally.

### 3.3.3. Results

In order to confirm the factor structure of the WBS (as emerged in the EFA) a confirmatory factor analysis was used. The results of the CFA show a good fit to the data with Chi-square = 427.46, df = 159, Chi square/df = 2.68, RMSEA = 0.04, CFI = 0.92, TLI = 0.91, GFI = 0.91,  $p < 0.05$ . Non-significant Chi-square is recommended for CFA, but for large sample the value of Chi-square will virtually always be significant. So, Chi-Square was divided by degree of freedom and the results showed Chi Square = 2.68, which is less than 0.3 and represents a good fit model (Hatcher, 1994).

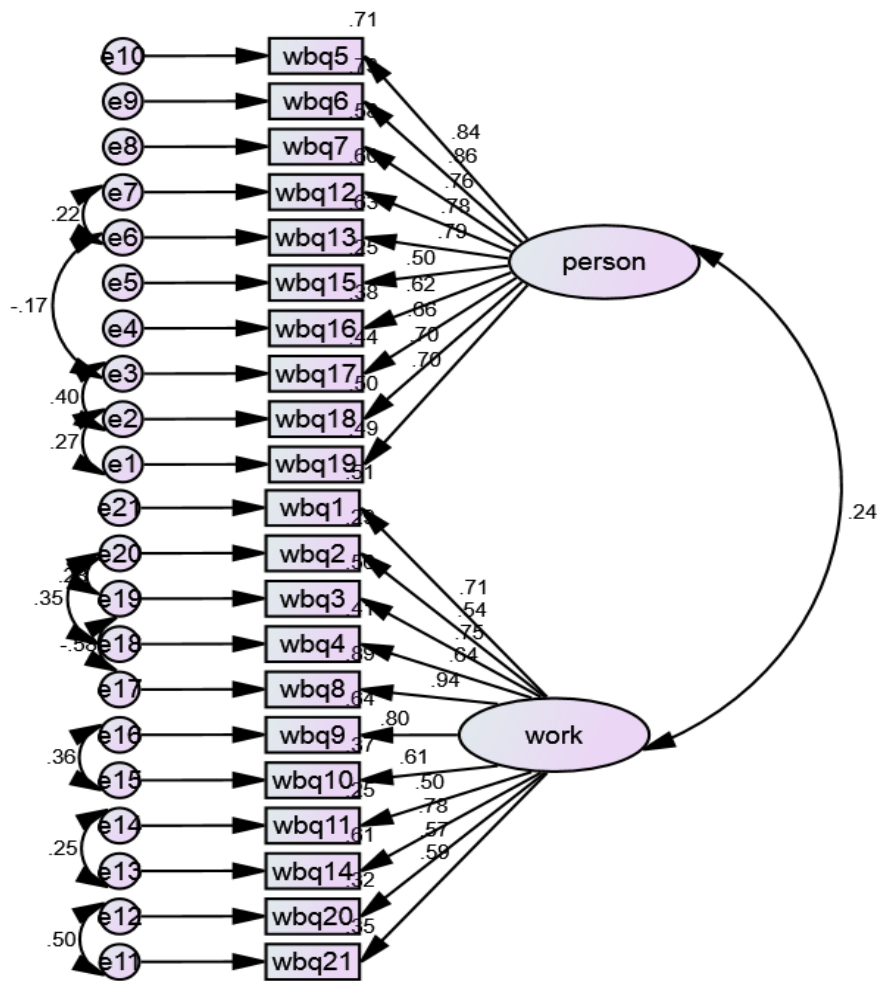


Figure 1. The Final Model to Confirm the Factor Structure of the Workplace Bullying.

### 3.4. Phase IV—Convergent Validity of Workplace Bullying Scale

To establish the convergent validity of the newly developed scale, WBS scores were compared with the Job Stress Scale (JSS) developed by Parker and DeCotiis [34]. It was hypothesized that both scales, having similar constructs, will be positively correlated.

#### 3.4.1. Sample

The sample of this study consisted of 60 faculty (men = 30, women = 30) of age ranged between 23 and 60 years (M = 31.50, SD = 6.32). All the participants were recruited from different universities in

Lahore. Participants were selected from diverse socio-economic backgrounds, job ranks, and education levels. Only those participants who had at least 1 year of teaching experience were selected.

### 3.4.2. Material

#### Workplace Bullying Scale (WBS)

The newly developed 21 items workplace bullying scale was used. The scale was scored on a five-point Likert rating scale where Never scored as 1 and Daily as 5. Cronbach's alpha acquired in the present study was 0.87, and 0.77 for Person-related bullying and work-related bullying, respectively, and 0.91 for total WBSS scale.

#### Job Stress (JSS)

The job stress scale measures employees' work-related stress [37]. This scale consists of 13 items. Each item of JSS was scored on five-point Likert-type scale from strongly disagree (1) to strongly agree (5). Cronbach's alpha of JSS was 0.86.

### 3.4.3. Procedure

Participants were approached at their respective workplaces. They were individually contacted. After seeking permission from participants they were requested to complete the questionnaires by choosing the appropriate option. All the participants were guaranteed that their responses will be kept confidential. All participants completed and returned set of questionnaires. It took about 10 to 15 min to complete the protocol. All the participants filled questionnaires with keen interest. Participants were acknowledged for their cooperation. To establish the convergent validity of the newly constructed scale, we calculated correlations between subscales of WBS and perceived job stress scale.

### 3.4.4. Results

To test the hypothesis that the workplace bullying scale is positively correlated with the job stress scale, Pearson's correlation was calculated. The findings presented in Table 3 show that total and all the subscales of WBS significantly and positively correlate with job stress scale.

**Table 3.** Correlation of WBS and its Subscales with perceived Job Stress Scale (N = 60).

Sr. No.	Subscales	Job Stress
1	Work-B	0.76 **
2	Person-B	0.62 **
3	WBS total	0.75 **

\*\*  $p < 0.01$ . Note. Work-B, work-related bullying, Person-B = person related bullying, WBS total = work-related bullying scale total

## 4. Discussion

The present study was conducted to construct a valid and reliable tool for the assessment of bullying behaviors. This study was completed in four phases and the findings showed that bullying occurs in the form of personal attacks and professional damage (work-related bullying and person-related bullying). Keeping in view the sensitive nature of bullying phenomenon, none of the items explicitly use the word "bullying". All items were written in behavioral form. The construct validity of the scale was determined through exploratory factor analysis (N = 200). Two interpretable and distinctive factors based on 21 items emerged as a result of the Varimax rotation method. The items of the scale were designed to measure bullying behaviors. Final factor structure was interpreted keeping in view the magnitude of factor loading and based on theoretical relevance of the items to the respective factors. A detailed examination of the twenty-one items appearing in two factors confirmed that they were relatively conceptually distinct from each other. Previous researches also showed that



victims experience two forms of bullying, i.e., “work-related bullying” and “person-related [38]. In the present study, factor 1 described items related to “work-related bullying”. Literature shows that the bully makes the life of the victim difficult [39]. Their bullying behaviors make it difficult to carry out the employees’ work or involve taking away some or all of their professional responsibilities. Such types of bullying behavior are a hurdle in progress and promotion of the employee [40]. The second factor emerged in our study consists of bullying behaviors related to persons related in the bully target victims’ personal life. They spread rumors about one’s personal life, ignore one’s opinion because of one’s gender or age, or pass malicious jokes.

The Cronbach alpha for the total WBS was 0.88. The alpha coefficients of both factors of the scale showed high internal consistency and had significant items total correlations (most of the items total correlation > 0.3) and inter-correlations among factors. In order to confirm the factor structure, we employed CFA on an independent normative sample (N = 400). The final model showed excellent fit indices and confirmed 21 items with two distinct dimensions (viz., work-related bullying, and person-related bullying) (see Figure 1).

Convergent validity was established through the Pearson product–moment correlation method. Respondents’ scores for bullying behaviors on the scale of WBS were observed with the scores of perceived job stress scale (PSS) developed by Parker and Decotiis [37]. Results showed significant and positive correlation of subscales and total WBS with perceived job stress scale. A significant positive relationship supported our claim that the newly developed scale has strong convergent validity.

### *Limitations*

The major limitation of the present research is that data was collected only from Punjab province, so to increase the external validity of WBS future researches should include large and diverse sample. Furthermore, this study only examined one construct (i.e., job stress scale) to assess convergent validity. Other valid and reliable constructs (i.e., occupational stress scale, general measure of work stress scale, etc.) should also be tested by future scholars to strengthen the convergent validity of this scale.

## **5. Conclusions**

The negative relationship between bullying, an individual’s well-being and productivity has acquired considerable attention in academia [41–45]. Implicitly, the discussion on bullying hints to the enabling structures, in which acts of bullying take place. In this way, this paper suggested that bullying measures implemented at the institutional level that is that of an institution’s administration [46,47]. This scale will also help for victims to identify and avoid bullying behaviors. Considering that the existing WBS display several limitations, the objective of this paper was to devise an alternative WBS and, thus open the possibility of comparing the validity of results thus obtained. This, indeed, might be done in our future research. Despite its limitations, the alternative WBS displays high reliability and validity. Future research will show how useful a tool it actually is.

**Author Contributions:** A.A. conceptualized the idea. A.A. and A.M. planned the study, performed statistical analysis and drafted the manuscript. A.V. and R.N. edited analysis and critically revised the manuscript. A.M. critically revised the manuscript and supervised the study. F.M. helped drafting the manuscript. All authors contributed significantly to the submitted manuscript. A.M. and R.N. oversaw the project.

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**Conflicts of Interest:** The authors declare no conflict of interest.

## Appendix A. Workplace Bullying Scale (Translated in English)

The following behaviors are often seen as examples of negative behaviors in the workplace. How often have you been subjected to the following negative acts at work? Please mark tick (√) on any one of the five options that best corresponds with your experience over the last six months.

S.no: Statements		Never	Rarely	Monthly	Weekly	Daily
		1	2	3	4	5
1	Shifting work tasks without your consultation					
2	Undervaluing of your work					
3	Being ordered to do work below your level of proficiency					
4	Persistent unjustified monitoring of your work					
5	Repeated attempts to undermine your personal dignity					
6	Verbal and non-verbal threats					
7	Making inappropriate jokes about you					
8	Withholding necessary information affecting your professional progress					
9	Exclude you from workgroup activities					
10	Reject your application for leave, training or promotion without reason					
11	Setting of impossible deadlines to accomplish work					
12	Spread rumors about you					
13	Repeated offensive remarks about your person or private life					
14	Signals from others that you should resign your job					
15	Repeated reminders of your mistakes					
16	Neglect of your opinions or views					
17	Not give importance of your rights and opinions with reference to your gender					
18	Devaluation of your rights and opinions with reference to your age					
19	Negative responses from others because you work hard					
20	Several times forced to attend supplementary meetings and training sessions					
21	Intimidatory use of discipline/competence procedure					

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