

Original Paper

Psychometric Adequacy of the Persian Version of the 🔒 🖲 Performance Management Behavior Questionnaire in Universities





Leila Keikavoosi-Arani¹, Leili Salehi^{2*}

- 1. Assistant Professor, Department of Healthcare Services Management, School of Health and Research Center for Health, Safety and Environment, Alborz University of Medical Sciences, Karai, Iran.
- Associate Professor, Department of Health Education and Promotion, School of Health and Research Center for Health, Safety and Environment, Alborz University of Medical Sciences, Karaj, Iran.



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ABSTRACT

Introduction: Despite interest in improving performance management in universities, few studies have examined this topic. Because of the absence of validated tools in Iran for assessing behavior performance management, this study was conducted to validate the behavior performance management scale.

Objective: This study aimed to assess the psychometric adequacy of the Performance Management Behavior Questionnaire (PMBQ) for the heads of university departments in Iran.

Materials and Methods: This cross-sectional study was conducted in four phases. The first and second phases included PMBQ translation and its modification in accordance with the educational setting. The third phase consisted of the content and face validation, and the fourth phase aimed to evaluate the construct validity and reliability of this scale. All 400 faculty members (200 for exploratory factor analysis and 200 for confirmatory factor analysis) were studied. After translation, the 27-item PMBQ was evaluated for validity and reliability. Content Validity Ratio (CVR) and Content Validity Index (CVI) were computed for content validity. For construct validation, the exploratory factor analysis and confirmatory factor analysis were used. The PMBQ reliability was assessed by the Cronbach α coefficient.

Results: Considering eigenvalues above one, five factors were identified that jointly explained 58.22% of the variance observed. Based on the arrangement of the factors, they labeled as monitoring performance management (9 items), coaching (6 items), goal setting (6 items), communication (3 items), and providing consequence (2 items). Results showed that the Average Variance Extracted (AVE) varied between 0.51 and 0.60; composite reliability was between 0.7 and 0.81, and the Cronbach α coefficient was between 0.70 and 0.82.

Conclusion: PMBQ as a valid and reliable tool can be used for assessing the behavior of the heads of departments from the viewpoints of faculty members.

* Corresponding Author:

Leili Salehi, PhD.

Address: Department of Health Education and Promotion, School of Health and Research Center for Health, Safety and Environment, Alborz University of Medical Sciences, Karai, Iran.

Tel: +98 (26) 3464355

E-mail: leilisalehi@abzums.ac.ir



Highlights

- Despite interest in improving performance management in universities, few studies have examined this topic.
- An appropriate instrument is necessary for assessing performance management behavior.
- Based on the exploratory factor analysis, five factors were identified.
- Five extracted factors jointly explained more than half of the variance.
- Extracted factors are labeled as establishing/monitoring performance expectations, goal setting, communication, and providing consequences.

Plain Language Summary

Despite the importance of the Performance Management Behavior Questionnaire (PMBQ) in studying performance management behavior, it has not been validated, and there is no similar instrument in Iran. Identifying the performance management behavior of the department heads from the perspective of faculty members can lead to recognize the managers' strengths and weaknesses and facilitate planning to address them. The current study aimed to assess the psychometric properties of the PMBQ for the heads of departments. Based on study findings, this questionnaire has good reliability and validity and can be used to study and evaluate performance management behavior.

Introduction

N

owadays, societies encounter the results of transforming from industrial age to educational age [1] {Johannessen, 2010 #1}. Higher education is responsible for responding to the needs of society and, faculty

members and their performance are among the most compelling aspects of any academic educational system [2]. Indeed, the higher education system is the main element in promoting human resources in any country. Managers who work in the educational system have an essential role in the well-being of the educational performance and quality of the activities. The concept of educational quality is fundamental in the educational process [3]. Considering the organization's limitations, scientific performance management is sensitive to quality and clarity in responsibilities [4].

Performance management contains all actions that boost efficiency in an organization [5], and it can help organizational effectiveness by supporting the organization and the staff [6]. Although performance assessment is a part of performance management, the two concepts are different. Performance management is a daily process, while performance assessment refers to an evaluation process [7].

Based on Cascio's study on 278 multinational companies in 15 countries, 91% of organizational studies were specifically about performance management [8]. However, based on previous research, most employees do not recognize the benefits of performance management [9]. For example, only 30% of employees stated that the performance management encouraged better performance and less than 40% stated that their organization did not have clear objectives or feedback [5]. Despite interest in improving performance management in universities, few studies have examined this topic. In addition, there are many concerns about the differences between managers' attitudes regarding performance management.

Obviously, in the absence of a valid and reliable instrument, managers encounter many problems related to performance management and its quality. As previous instruments regarding performance management are very broad or limited, an appropriate instrument for performance management behavior is necessary [9]. Kinicki et al. developed the questionnaire for this purpose with 27 items in North America in 2013. The questionnaire can be used in an educational situation [10]. Despite the importance of the Performance Management Behavior Questionnaire (PMBQ) in studying performance management behavior, it has not been validated in Iran, and there is no similar instrument in Iran. Identifying the performance management behavior of the department heads from the perspective of



faculty members can recognize the managers' strengths and weaknesses and facilitate planning to address them. This study aimed to determine the psychometric adequacy of PMBQ in higher education to assess the performance management behavior of the heads of departments in universities. The term head of department applies to appointed post holders responsible for either an academic department or school.

Materials and Methods

This cross-sectional study was conducted in four phases from October 2017 to January 2018. The first and second phases included PMBQ translation and its modifications for the educational settings. The third phase comprised the content and face validation, and the fourth phase aimed to evaluate the construct validity and reliability of the scale. PMBQ comprised 27 items and scored on the Likert-type scale from 1=rarely or never to 5=very frequently or always. This questionnaire consisted of six dimensions, including goal setting (5 items), communication (3 items), feedback (5 items), coaching (5 items), providing consequences (3 items), and monitoring performance expectations (5 items) [10].

During the translation phase and after obtaining permission from Kinicki, who developed the questionnaire, a forward-back translation was performed. At first, the original (English) version of the questionnaire was translated to Persian by two independent translators, and then this Persian version was translated to the original language by two other independent translators. Next, the two versions were compared. Then, two expert panels (each one consisting of 5 Persian educational specialists) reviewed the questionnaire, altered some items because of the cultural differences.

At the third phase, content and face validation was performed. For content validity, the Content Validity Ratio (CVR) and Content Validity Index (CVI) were computed using the opinions of 10 experts (3 health education experts, 3 medical educations experts, 2 social medicine experts, 2 management experts). In assessing the CVR, Lawshe's table was used to compare the results. All items with an acceptable level of 0.62 or more were kept on the scale. In CVI computation, all items with the acceptable level of 0.79 or more were maintained on the scale.

Regarding face validation, the opinions of 20 faculty members were taken, and some items were changed accordingly. For face validity, both qualitative and quantitative methods were used. For quantitative analysis, 10 faculty members evaluated the questionnaire

with regard to the importance of the items based on a 5-point Likert scale to calculate the item impact score [impact score=frequency (%)×importance].

To determine the underlying factors/constructs for a set of measured variables, the Exploratory Factor Analysis (EFA) was adopted, and Bartlett's test of sphericity as an inferential statistic was used. The study population consisted of 400 faculty members (200 faculty members for EFA and 200 for CFA). Faculty members with at least one year of working background were entered the study. The sample size was considered based on Kyriazos indication (200 for sample size is fair for factor analysis) [11]. The subjects were selected with the convenience sampling method. The leading investigator administered the questionnaire and was available to answer the possible questions. Duration of 45 min was considered for all faculty members to complete the questionnaires.

Confirmatory Factor Analysis (CFA) was performed with Partial Least Squares (PLS). In the current study, smart PLS was used due to the skewness of data [12]. It also provides a data structure based on the adequacy of factor loadings (greater or equal to 0.5). For this evaluation, researchers have proposed the use of Average Variance Extracted (AVE) and extracted mean-variance (average variance of structures and their markers) for validity, Cronbach α coefficient, composite reliability for reliability, and Good of Fitness (GOF) for model fitness. The stability of the scale was assessed by calculating the Intra-Class Coefficient (ICC).

Bartlett's test of sphericity is an inferential statistic used to assess homogeneity. Data normality was assessed with Kolmogorov–Smirnov test. The Cronbach α coefficient was applied to examine the reliability of the PMBQ. Statistical significance was set at 0. 05. SPSS version 21 and Smart PLS version 2 were used for data analysis.

Results

All 400 faculty members (200 for EFA and 200 for CFA) were studied. The mean±SD age of faculty members was 44.63±7.61 years. The characteristics of samples are listed in Table 1.

During the face and content validation phase, 1 item was removed since its impact score was less than 1.5, and based on Lawshe, one item, i.e., "has a communication style that causes others to become defensive", was omitted due to a value less than 0.62 [13]. In total, 26 items were maintained in the research instrument



Table 1. Demographic characteristics of participants (N=400)

Vari	No.(%)	
Sex	Male	214(57)
	Female	186(43)
Work experience	1-10	209(52.25)
	11-20	176(44)
	21-30	15(3.75)
Age (y)	<30	9(2.25)
	30-39	174(43.5)
	40-49	141(35.25)
	50-60	75(18.75)
	>60	1(0.25)
Position	Instructor	61(15.25)
	Assistants	230(57.5)
	Associate	81(20.25)
	Professor	28(7)
Major	Medical	188(47)
	Engineering	126(31.5)
	Art & humanities & agriculture	86(21.5)

based on the coefficient of the impact (>1.5), content validity ratio (>0.62), and content validity index (>0.7).

The sampling adequacy was tested by Kaiser-Meyer-Olkin (KMO), and a value of 0.928 was obtained [14]. Bartlett's test was significant at χ^2 =2348.336, df=325, and P=0.001. Moreover, all items remained in the research tool based on the EFA. Considering eigenvalues above 1, five factors were identified that jointly explained 58.22% of the variance observed (26 items). Based on the arrangement of the factors, they were labeled as goal setting (6 items), communication (3 items), monitoring performance management (9 items), coaching (6 items), and providing consequence (2 items). The results are shown in Table 2.

The five factors extracted based on eigenvalues and scree plot (Figure 1) could predict 58.22% of the total variances in the scale. The Cronbach α coefficient for the total questionnaire was 0.78. For the first factor (monitoring performance management), the Average Variance Extracted (AVE) was 0.6, the Cronbach α coef-

ficient was 0.82, and the composite reliability was 0.79. For the second factor (establishing/monitoring performance expectations), AVE was 0.52, and the Cronbach α coefficient was 0.71, and the composite reliability of 0.70. For the third (goal setting), AVE was 0.51, the Cronbach α coefficient was 0.70, and composite reliability was 0.7. About the fourth factor (communication), AVE was 0.59, the Cronbach α coefficient was 0.81, and composite reliability was 0.85. For the fifth factor (providing consequences), AVE was 0.57, the Cronbach α coefficient was 0.80, and composite reliability was 0.82. ICC values varied from 0.7 to 0.75 (Table 3). Since the factor loading of all questions is more than 0.5 [15], this criterion is appropriate (Figure 2). For overall Goodness of Fit (GOF) calculation, with attention to AVE and R² amount and by consideration of GOF formula, GOF was 0.52.

Discussion

This study was conducted because of the absence of a valid and reliable instrument for PMBQ to assess the head of department behavior from the viewpoints



Table 2. Results of the exploratory factor analysis using varimax rotation

Question Number and Item		Co	mponen	t	
Question Number and Item		2	3	4	5
Monitoring performance management					
19. Provides suggestion when it is needed	0.692				
18. Helps people to develop their skills	0.663				
16. Provides the resources needed to get the educational goals	0.645				
15. Shows others how to complete difficult assignments and tasks	0.615				
14. Explains how someone's behavior affects him/her and the work group when providing feedback	0.577				
12. Assists others in their career planning	0.562				
10. Gives others timely feedback about their performance	0.525				
13. Gives honest feedback	0.498				
11. Gives others specific feedback about what is good and bad about performance	0.483				
Monitoring performance expectations					
17. Helps identify solutions to overcome performance barriers		0.822			
26. Monitors his/her own work performance		0.686			
25. Communicates expectations relating to quality		0.419			
24. Keeps people informed about changes, deadlines, or problems		0.416			
23. Checks work for accuracy and/or quality		0.408			
27. Prioritizes tasks and goals		0.401			
Goal setting					
5. Encourages others to set challenging yet attainable goals			0.708		
4. Assists others in developing action plans that support performance goals			0.622		
3. Assists others in setting specific and measurable performance objectives			0.615		
2. Participative sets goals			0.535		
Ensures that performance goals are linked to the strategic or operational goals of the company			0.517		
20. Gives special recognition for exceptional performance goals			0.455		
Communication					
7. Is a good listener				0.835	
8. Is approachable and available to talk with others				0.591	
9. Provides more positive than negative feedback				0.550	
Providing consequence					
22. Links recognition and/or rewards to performance					0.83
21. Rewards good performance					0.43
Eigenvalues	10.161	1.688	1.153	1.111	1.02
% of variances	39.08	6.491	4.436	4.275	3.94



Table 3. The main criteria of the quality of the measurement model

Dimensions	AVE	Cronbach α Coefficient	Composite Reliability	ICC	R²
Monitoring Performance Management	0.60	0.82	0.79	0.70	0.48
Monitoring Performance Expectations	0.52	0.71	0.7	0.73	0.52
Goal Setting	0.51	0.70	0.75	0.75	0.51
Communication	0.59	0.81	0.85	0.72	0.54
Providing Consequence	0.57	0.80	0.82	0.71	0.38

AVE: Average Variance Extracted; ICC: Intra-Class Coefficient; MPM: Monitoring Performance Management; MPE: monitoring performance Expectations; GS: Goal Setting; COM: Communication; PC: Providing Consequence.

of faculty members. The head of a department must lead, manage, and develop the department to ensure it achieves the highest possible standards of excellence in all its activities [16]. All department heads must exercise leadership, demonstrate vision, and empower others to deliver the agreed departmental strategy within the faculty [17]. Specifically, the role of the head of a department included leadership and management of staff and students, responsibility for teaching and students, responsibility for research, knowledge transfer, people management (ensuring that University HR policies and procedures are implemented such as fair workload allocation processes, staff having access to the necessary support, ensuring a safe and healthy environment for both staff and students, financial management, quality assurance (ensuring all activities are carried out to the highest possible standards), and development of academic/research standing [18].

Comparing PMBQ with similar tools was not possible due to the lack of such an instrument. Thus, researchers

attempted to discuss the components of the questionnaire in an educational setting. Performance monitoring is a crucial element of performance management. In a study conducted on the management in institutes, it was shown that there could be a significant difference in the level of performance of the team and individual performance, especially in the field of learning and organizational evaluation [19].

Establishing/monitoring performance expectations is effectual in managing the effectiveness of management in the organization. Before interventions that might enhance efficiency, we need to understand employees' expectations and capabilities [20]. Monitoring performance expectations is a core feature of effective performance management [21]. This monitoring allows the managers to observe, excite, challenge, and enhance the performance of their staff members. A performance expectation is a core feature of effective performance management systems.

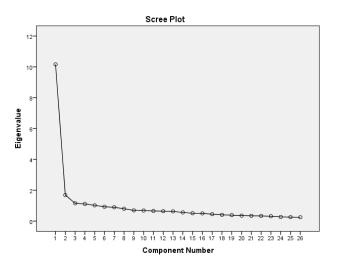


Figure 1. Scree plot output indicating the five factors of data

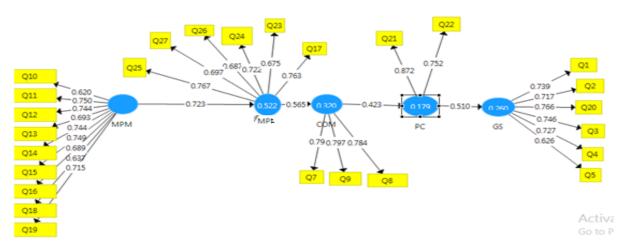


Figure 2. Testing the measurement model based on confirmatory factor analysis

A manager with performance management, compared to the traditional manager, has a better understanding of their staff and easily comprehends their thoughts and motivations [22]. Van der Hoek et al. believed that a goal must represent values, beliefs, and priorities, which should be not only capable of prediction and ease of use but also be easily measurable [23]. Furthermore, Beer and Micheli stated that objectives in the performance management process should be well defined, and stakeholders must have a role in its formulation and access to the results for decision-making [24].

The communication process involves all aspects of life, such as home, school, community, and work environment. This is an essential part of every educational process referred to as the basis for performance management. Communication as a tool in performance management creates a mutual relationship between the manager and the members, who facilitates the understanding of the demands, expectations of the organization and employees on the one hand and the transfer of requests and demands of employees to the management of the organization on the other hand. It results in the creation of an environment for the optimal use of all facilities and resources to achieve the goals of the organization. Pourkarimi et al. indicated that in the higher education system, the management of faculty members requires solid and effective communication [25].

Better performance of employees results in more interaction. Managers should, therefore, spend more time fostering a relationship of trust amongst their subordinates, as this may have benefits in terms of employees' performance and achievement levels [26]. It is imperative that a person consistently provide appropriate feedback to all people who work with them in a team to refine their behavior and performance continuously [27]. Providing

feedback is a process that provides managers with a valuable route to highlight the strengths of their staff.

There is a slight difference between this questionnaire and Kinicki' questionnaire due to different populations. Kinicki questionnaire [10] was distributed to the staff of 75 international educational and non-educational companies, while in the present study, only it was distributed to faculty members of the educational groups in governmental and non-governmental universities in Karaj City, Iran. In this study, the views of faculty members were used as stakeholders. The use of the opinions of the faculty members leads to their increased cooperation and participation in quality promotion

The results suggest that the questionnaire has five theoretically significant dimensions: goal-setting, communication, monitoring performance, management, coaching, and providing consequences. The Persian version of the PMBQ has desirable validity and reliability. Therefore, it can be used by educational leaders and all heads of the departments in universities and other educational institutes. This questionnaire is used as a tool to study and evaluate performance management behavior.

The lack of cooperation and difficulty in having access to faculty members are among the notable limitations of the study, which were somewhat tackled by a clear explanation of the goals and benefits of the study. The novelty of the tool and the lack of a similar tool for comparing the results were among other study limitations. The researchers attempted to tackle the limitations mentioned above by documenting the importance of each domain.



Ethical Considerations

Compliance with ethical guidelines

The Ethics committee of Alborz University of Medical Sciences approved the study (Code: IR. Albzums. REC. 2017.9). Informed written consent was obtained from all faculty members after describing the aims and methods of study. The participants could withdraw from the study any time before or during the completion of the questionnaires.

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Author's contributions

Conceptualization, data collection, data analysis, and writing the original draft: Leili Salehi; Review and editing the final version of the manuscript and helped in data collection and analysis of the data: Leila Keikavoosi-Arani; Read and confirmed the final version of the manuscript: Both authors.

Conflict of interest

The authors declared no conflict of interest.

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