



# LUND UNIVERSITY

## Meanings Turkish people perceive in everyday occupations: Factor structure of Turkish OVal-pd

Cicerali, Lutfiye K.; Cicerali, Ensari; Eklund, Mona

*Published in:*  
International Journal of Psychology

*DOI:*  
[10.1002/ijop.12078](https://doi.org/10.1002/ijop.12078)

2015

[Link to publication](#)

*Citation for published version (APA):*  
Cicerali, L. K., Cicerali, E., & Eklund, M. (2015). Meanings Turkish people perceive in everyday occupations: Factor structure of Turkish OVal-pd. *International Journal of Psychology*, 50(1), 75-80.  
<https://doi.org/10.1002/ijop.12078>

*Total number of authors:*  
3

### General rights

Unless other specific re-use rights are stated the following general rights apply:  
Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

Read more about Creative commons licenses: <https://creativecommons.org/licenses/>

### Take down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

LUND UNIVERSITY

PO Box 117  
221 00 Lund  
+46 46-222 00 00

**Meanings Turkish people perceive in everyday occupations: Factor structure of Turkish OVal-pd**

Lütfiye K. Cicerali<sup>1</sup>, Ensari Cicerali<sup>1</sup>, and Mona Eklund<sup>2</sup>

<sup>1</sup>Psychology Department, Nisantasi University, Istanbul, Turkey

<sup>2</sup>Occupational Therapy Department, Lund University, Lund, Sweden

Occupational value with predefined items scale is an originally 26-item Swedish tool used to assess values people find in their everyday doings. The present study validated this scale on a Turkish sample and described the values that Turks perceived in their daily doings. The participants included a convenience sample of 446 adults with mean age 26 (SD=7.3). Initial item analysis followed by principal component analysis (Promax) and internal reliability analyses of the components were conducted. Statistics yielded a 19-item solution distributed across four factors. The Cronbach's alpha was .86, indicating good reliability. Confirming the earlier applications of the scale in the European and the American samples, factors related to recuperation, goal direction and social interaction emerged. Additionally, there appeared another occupational value subfactor, conservation, which did not show up in the Swedish and the American data analyses.

Keywords: Occupational value; Values; OVal-pd; ValMO model.

## **Meanings Turkish people perceive in everyday occupations: Factor structure of Turkish OVal-pd**

The Value and Meaning in Occupations Model (ValMO) developed by Persson, Erlandsson, Eklund, and Iwarsson (2001), rests on the understanding that occupation is “the culturally and personally meaningful and purposeful activities that humans engage in during their everyday lives” (Stein & Roose, 2000, p. 201). Similarly Bruner (1990) stated that individuals construct meaning, which can be generated and molded by “participation in the symbolic systems of a culture” (p. 33); hence human actions within the day must be interpreted within a cultural context. Further, the occupations people engage in are the basis of identity, as people become what they do (Christiansen & Baum, 2005).

The model assumes that occupational value is an important prerequisite for personal experiences of meaning. The core assumption is that different kinds of daily occupations might lead to different experiences of meaning, which in turn are important for psychological health and well-being (Persson et al., 2001). The tenets of the model were previously validated on Swedish samples (Eklund, Erlandsson, & Persson, 2003; Erlandsson, Eklund, & Persson, 2011; Persson & Erlandsson, 2010).

According to ValMO tenets, concrete value of occupations is associated with perceptions of materialistic meaning in the doer. Gratification of basic needs carried in a routine (e.g. self-care, house-care), and activities associated with life-sustaining resource generation or maintenance (e.g. income production), lead to perception of concrete value (Persson et al., 2001). The product is something useful to the doer or to the beneficiary, but the performance or the occupation is not necessarily joyful (Eklund, Erlandsson, & Leufstadius, 2010).

Occupations that lead to perceptions of personal, cultural and/or universal meaning have symbolic value according to the model. Their outcomes may not be as tangible as the mainly concrete-value-generating occupations (Persson et al., 2001). For example, working for a prestigious company may have a symbolic significance for a person, and the outcome of getting a promotion and pay increase may be the concrete values. Involvement in symbolic occupations creates a platform of communication among people. Feasting with the extended family at home may be an occupation with symbolic value unique for a particular person, grounded in that person’s exceptional experiences in childhood, while it increases interaction among family members as well. There are daily occupations perceived as personally, culturally and/or universally meaningful. If an occupation has a common cross-cultural meaning (e.g. helping people in need), it has universal symbolic value. Thus, symbolic value forms a communication path among people, while they communicate their identity through choice and performance of particular occupations (Persson et al., 2001).

Self-reward value is the instant incentive contingent upon the performance of a revitalizing, refreshing, stimulating, soothing, relaxing or cathartic occupation (Persson et al., 2001). If an occupation causes psychological and physiological change in a positive sense, then the pleasure of doing the occupation is the driving force. In that case, the material result of engagement in the occupation would not be critical.

Total absorption in a delightful occupation, forgetting time or place, having a flow experience, are the qualities of challenging self-reward occupations (Csikszentmihalyi, 1997).

The “Occupational Value with pre-defined items (OVal-pd)” scale was constructed based on the ValMO model, and the dynamics of occupational value construct was tested in Swedish samples (Eklund, Erlandsson, Persson, & Hagell, 2009; Eklund et al., 2003), and in a North American sample (Eakman & Eklund, 2011), using OVal-pd. Eklund et al. (2009) argued that the aspects that fit the everyday occupational value construct might vary between contexts (e.g. countries, cultures). The present study aims to determine the occupational value profile in Turkey, while also establishing the internal reliability and validity of the OVal-pd Turkish version.

## **MATERIALS AND METHODS**

### **Participants**

Data were gathered from a convenience sample of 446 adults (male N=303, 68%). University students (N=235, 53%) and employees (N=211, 47%) living in Istanbul participated in the survey. The participants answered the Turkish OVal-pd as part of a battery of psychometric instruments. The respondents completed the questionnaires in their free time. The professors collected completed student response forms, while the human resources executives collected the employee forms. Data gathering lasted from November 2011 to March 2012.

### **Instrument**

The OVal-pd and a demographics response sheet were used. OVal-pd measures the general perception of occupational value in everyday life (Eklund et al., 2009). It includes 26 Likert-type (1 to 4) questions denoting not at all, rather seldom, rather often and very often. Each item represents one of the three occupational values outlined in the ValMO model (i.e. concrete, symbolic, self-reward). A Turkish researcher translated the OVal-pd American English version into Turkish. It was back-translated into English by another Turkish researcher who was blind to the nature of the scale. The American and Swedish researchers who carried out the OVal-pd American English reliability and structural validity study (Eakman & Eklund, 2011) checked the semantic content in this back-translated version and made relevant comments for revisions. In line with these comments, the final Turkish version to be pilot-tested for item-comprehension and item-difficulty issues was formed. The pilot testing on 40 randomly selected undergraduate and graduate students (mean age=27, SD=5.4) at a private university in Istanbul, who were blind to the nature of study, checked the variance similarity for each item within each factor and confirmed that all items under a particular factor were understandable with ease. The students recommended a few slight changes in wording of several items, which were evaluated and affirmed if appropriate.

### **Data analyses and results**

IBM SPSS Statistics Program, Version 20 was used for data analyses. As the data were collected from adults at university and workplace settings, to test if the data

set was homogenous and if scores of individuals belonging to each group reflect a latent pattern, which might confound the explanation of results, OVAL-composite scores of student and workplace groups were compared using one-way analysis of variance (ANOVA) mean differences test and Levene's homogeneity of variance test. The tests indicated that groups had homogenous variances, Levene statistic=.136;  $p=.712$  and group comparisons yielded no significant differences between group means,  $F(1, 445)=1.052$ ,  $p=.306$ ,  $p>.05$  (Table 1).

During the initial item analysis, the item scale correlations of all 26 items were calculated and 3 items with coefficients  $<.3$  were removed, as such items were considered to be weak (Child, 1990). The four items that cross-loaded on more than one factor (the first and the second factors) with a coefficient of  $>.3$  were also removed (Child, 1990; DeVellis, 1991). A principal component analysis with Promax rotation was chosen. Component analysis was preferred as it is a method used exclusively for uncovering latent factors from manifest variables in a data set. Promax was preferred as the rotation method as the latent factors, which form the occupational value construct, were thought to be psychological and it might be irrational to consider any set of psychological variables as really uncorrelated.

*Insert Table 1 and Table 2 here*

Therefore, an oblique rotation such as Promax might represent a more realistic modeling of psychological phenomena (Reise, Waller, & Comrey, 2000). Eigenvalues  $> 1$  limit was set. Regression Factor Scores were computed and zero-order correlations were conducted between the regression factor scores. Factor composite scores were calculated by averaging the items under each factor. OVal-pd composite score for each person was calculated by taking the mean of responses to the 19-item final set. Lastly, the reliability analyses for each of the four latent factors were performed. Descriptive statistics for the Scale if Item Deleted were calculated, and if deletion of any item caused improvement of Cronbach's alpha, that item was removed.

After the analyses, a 19-item final solution with Cronbach's alpha .86 and four latent factors with eigenvalues  $>1$  were obtained (Tables 2 and 3). The presence of a higher-order factor was investigated by putting the regression factor scores for each of the four components generated through PCA. A weak higher-order factor explaining only 47.8% of total variance emerged. Correlations between the 19 items and this higher-order value are presented in Table 2.

Four factors explained 27.9%, 15.3%, 8.4% and 5.8% of the total variance in succession. Regression factor scores with means of zero and standard deviations of one z-score were calculated and respondents were given separate scores in relation to each identified factor.

*Insert Table 3 here*

As regression factor scores predict the location of each individual on the factor, they are suitable to use for examining the availability of a higher-order factor (DiStefano, Zhu, & Mindrila, 2009). The four latent factors that emerged in this study loaded moderately on a higher-order factor, which had  $KMO=.64$ , and Bartlett's test of sphericity at  $AQ7$  chi-square 221.40 and  $p<.001$ .

## DISCUSSION

This study aimed at finding the meaning patterns Turks perceive (or construct) in their day-to-day activities using an originally Swedish scale called OVal-pd, which was built on the assumption that there are three value dimensions in everyday occupations: concrete, symbolic and self-reward. Individuals load significance on their everyday engagements, thereby constructing an overall meaning of life, which connects their daily occupations (Jackson, 1998).

*Insert Table 4 here*

However, as hitherto thought and tested, meaning making is a culture-dependent process (e.g. Kielhofner, 2009; Kinébanian & Stomph, 2009). Therefore, it is expected to find variations in occupational value patterns and people's perception of different meanings in different communities, social and geographic contexts. As OVal-pd was used in the Swedish and North American contexts earlier, this Turkish study would both consolidate the validity and reliability of the scale, serving the purpose of instrument development and reveal the meaning patterns Turks perceive in their everyday occupationsAQ8 (please see Table 4 for country comparisons).

The Turkish version of OVal-pd resulted in four factors based on 19 items. All seven items that loaded onto Factor 1 were related to occupations that participants engaged in order to relax, refresh and recharge. Thus, this factor was labeled recuperation. In the Swedish (Eklund et al., 2009) and the American version (Eakman & Eklund, 2011), all of these items were validated, except for the item number 2 (i.e. where I could be free and let loose), which was weeded out in the Swedish version. In accord with the ValMO model, this factor is chiefly related to self-reward value.

Four items loaded onto a second factor related to externally imposed or enforced occupations, mainly essential for feeling secure within a cultural context. These may be culturally prescribed occupations and necessities, where participation is not due to intrinsic motivation but is essential for the maintenance of social status and relationships in society. Schwartz (1994) stated that tradition signifies respect, commitment and acceptance of the customs and ideas that traditional culture imposes. He claimed that people in conservative societies respect tradition and accept their portion in life. According to Schwartz (1994), openness to change and conservation are opposite poles; while the former is a characteristic of individualism, the latter is a characteristic of collectivism. Conservation has three value components: safety seeking, conformity/following the majority and preservation of tradition. As the items under the second factor closely overlap with this description, the second factor was labeled conservation.

In Turkey, especially in the last 10 years of increased Islamization and conservatism, putting up with traditions, religious rules, unwritten codes of conduct and the impositions of people higher in the hierarchy materialized incrementally as an occupational value. The items under the conservation factor (i.e. doing things because others do it, doing things because they are necessary, doing things because they are traditional, doing things because family/friends do it) could not find a place in the Swedish and American English versions, where openness to change was dominant. Hence, it is not surprising that all of these four items had been eliminated in Sweden

and in the USA, two countries representing strong individualistic cultures. Formerly, Eakman and Eklund (2011) had recommended the removal of these items in future versions of OVal-pd, stating that being externally imposed might not fit well within the general construct of occupational value. In this study, the data demonstrated that these items reflect an occupational value in Turkey, and therefore should be kept in the Turkish scale. The emergence of this factor is not surprising, considering the rapidly increasing conservatism in Turkish society through the last decade. There is heavy neighborhood pressure implemented by the rising conservative Islamists on all Turkish society, principally the secular, modern Turks, a condition that was made visible to world press by the Gezi-Park demonstrations by the secularists, which started in Istanbul in late May 2013. Governmental restrictions regarding alcohol selling and use, male–female students' cohabitation, internet access, freedom of expression and caesarean birth coupled with governmentally imposed values such as giving birth to three children, women's wearing headscarves and other Sunni-Islam values have found widespread acceptance among poorly educated people, and modernist secularists are almost forced to obey the majority and adopt their values. Concerning the ValMO model, items under this factor were primarily related to the symbolic value. Through reading cues at a cultural level, the people around give approval or rejection messages to the doer of certain occupations (Persson et al., 2001).

The four items that loaded onto Factor 3 relate to the goal-directed occupations with substantial outcomes such as teaching, coaching or training others; learning new things; achieving important duties and undertaking demanding responsibilities. Therefore, this factor was labeled goal direction. All questions under this factor had found a place in the Swedish and American English versions as well. The correlate of this factor is concrete value in the ValMO model. However item number 14, (i.e. where I taught something to someone) had been categorized within occupations with social recreational value (i.e. self-reward) rather than with concrete value in the American English version (Eakman & Eklund, 2011), indicating that for the Turks teaching is like a chore rather than a pleasurable activity.

All variables that are exclusively related to interpersonal relationships such as making love, confiding in someone, socializing with a group of people or just contacting others formed the fourth factor. Thus, this factor was named social interaction. Concerning the ValMO model, the itemized occupations may lead the doer mainly to symbolic and self-reward value.

## CONCLUSION

Turks perceive recuperation, conservation, goal direction and social interaction in their daily activities. Although factor structures among Turkish, Swedish and North American scales were similar, there was an important difference in the emergence of conservation factor in Turkish context.

The findings from this study have contributed to both further development of the OVal-pd, and to gaining deeper insight into cross-cultural aspects of the occupational value construct, as delineated in the ValMO model. In this study, a link between cultural values and occupational value was found, but it needs to be verified in future research, with more representative samples.

Table 1: *Composite score descriptives for subsamples*

	N	Mean	SD	Minimum	Maximum
University data	235	2.5791	0.32978	1.57	3.46
Workplace data	211	2.6111	0.32761	1.89	3.62
Total	446	2.5942	0.32878	1.57	3.62



Table 2: *Promax Pattern Matrix and Correlations*

Item Numbers	Brief item labels	Components				correlation	Corrected item-Total correlation	Item-Higher order factor correlation	Composite score-Item correlations
		I	II	III	IV				
1	Where I felt I could be myself	<b>.48</b>	-.14	.28	.14	<b>.53</b>	<b>.61</b>	<b>.59</b>	
2	Where I could be free and let loose	<b>.61</b>	-.00	-.13	.06	<b>.34</b>	<b>.38</b>	<b>.43</b>	
3	That were fun and playful	<b>.78</b>	.02	.05	-.13	<b>.45</b>	<b>.49</b>	<b>.53</b>	
16	Where I could let off steam	<b>.79</b>	.05	.14	-.24	<b>.46</b>	<b>.49</b>	<b>.54</b>	
18	Because it was true pleasure to do those things	<b>.72</b>	.08	.04	.06	<b>.58</b>	<b>.43</b>	<b>.65</b>	
21	Because they were a lot of fun	<b>.71</b>	-.06	-.11	.09	<b>.42</b>	<b>.47</b>	<b>.50</b>	
26	That helped me to relax	<b>.53</b>	-.01	-.15	.34	<b>.47</b>	<b>.54</b>	<b>.55</b>	
5	Because it is a tradition to do those things	-.08	<b>.83</b>	.14	.02	<b>.38</b>	<b>.43</b>	<b>.46</b>	
6	Because everyone else was doing those things	.03	<b>.89</b>	.01	-.06	<b>.34</b>	<b>.36</b>	<b>.41</b>	
7	Because it was necessary to do those things	.02	<b>.83</b>	-.07	.06	<b>.35</b>	<b>.38</b>	<b>.42</b>	
15	Because my friends/family do those things	.04	<b>.84</b>	-.06	.03	<b>.33</b>	<b>.37</b>	<b>.42</b>	
4	Where something important was accomplished	.11	.03	<b>.83</b>	-.11	<b>.51</b>	<b>.62</b>	<b>.59</b>	
8	Where I learned something new	.05	-.05	<b>.65</b>	.01	<b>.40</b>	<b>.50</b>	<b>.48</b>	
14	Where I taught something to someone	-.04	.07	<b>.54</b>	.26	<b>.50</b>	<b>.62</b>	<b>.58</b>	
17	Where I dealt with challenges I could handle	-.15	-.00	<b>.84</b>	.04	<b>.42</b>	<b>.55</b>	<b>.50</b>	
9	Where I was in touch with other people	.02	.09	-.12	<b>.73</b>	<b>.46</b>	<b>.56</b>	<b>.54</b>	
12	That led other people get in touch with each other	-.20	-.04	.13	<b>.82</b>	<b>.47</b>	<b>.61</b>	<b>.55</b>	
19	That made me feel very close to others	.14	.00	.06	<b>.65</b>	<b>.58</b>	<b>.68</b>	<b>.64</b>	
23	That strengthened my gender identity	.18	-.00	.06	<b>.47</b>	<b>.46</b>	<b>.55</b>	<b>.54</b>	

MEANINGS TURKS FIND IN DAILY DOINGS

Table 3: *Internal Reliability, Mean and SD of Factors (n=448)*

Factor	Number of Items	Overall Mean	Overall Standard Deviation	Reliab (Cron alpha)
All Factors	19	2.54	0.43	0.85
1 <sup>st</sup> Factor	7	2.43	0.59	0.82
2 <sup>nd</sup> Factor	4	2.63	0.65	0.88
3 <sup>rd</sup> Factor	4	2.57	0.65	0.73
4 <sup>th</sup> Factor	4	2.50	0.61	0.68

Note: Acceptable level of reliability is Cronbach alpha > 0.6, as recommended for relatively scales, just like OVal-pd (Hair et al., 1998).

Table 4: *Internal Reliability, Mean and SD of Factors (n=448)*

Item No	Brief items	Sweden, 2009	USA, 2011
1*	Where I felt I could be myself	X	X
2	Where I could be free and let loose		X
3*	That were fun and playful	X	X
4*	Where something important was accomplished	X	X
5	Because it is a tradition to do those things		
6	Because everyone else was doing those things		
7	Because it was necessary to do those things		
8*	Where I learned something new	X	X
9	Where I was in touch with other people		X
10	Where I was satisfied with the result...	X	X
11	In order to complete something		X
12*	That led other people get in touch with each other	X	X
13	Where emotions and tensions have outlet	X	X
14*	Where I taught something to someone	X	X
15	Because my friends/family do those things		
16*	Where I could let off steam	X	X
17*	Where I dealt with challenges I could handle	X	X
18*	Because it was true pleasure to do those things	X	X
19*	That made me feel very close to others	X	X
20	That ha spiritual importance for me		X
21*	Because they were a lot of fun	X	X
22	Where I thought I made a contribution	X	X
23*	That strengthened my gender identity	X	X
24	Where I developed as a person	X	X
25	Where I forgot about time and place	X	X
26*	That helped me to relax	X	X

Note: The sign X under country names represents that the associated item was validated in the country. The items with an asterisk by the item number represent culture-free items, implying; were validated in the three countries where the OVal-pd was applied. In Turkey, the items 11 were excluded due to their corrected item total correlations smaller than 3, which was shown letter a. The items 10, 20, 22 and 24 cross-loaded to both the first and the second components they were also excluded, which was represented by the letter b.

## REFERENCES

- Bruner, J. (1990). *Acts of meaning*. Cambridge, MA: Harvard University Press.
- Child, D. (1990). *The essentials of factor analysis* (2nd ed.). London, U.K.: Cassell.
- Christiansen, C. H., & Baum, C. M. (2005). The complexity of human occupation. In C. H. Christiansen, C. M. Baum, & J. Bass-Haugen (Eds.), *Occupational therapy: Performance, participation, and well-being* (3rd ed.). Thorofare, NJ: SLACK.
- Csikszentmihalyi, M. (1997). *Finding flow: The psychology of engagement with everyday life*. New York, NY: Basic Books.
- DeVellis, R. F. (1991). *Scale development: Theory and applications*. Newbury Park, CA: Sage.
- DiStefano, C., Zhu, M., & Mindrila, D. (2009). Understanding and using factor scores: Considerations for the applied researcher. *Practical Assessment, Research & Evaluation*, 14(20), 1–11.
- Eakman, A. M., & Eklund, M. (2011). Reliability and structural validity of an assessment of occupational value. *Scandinavian Journal of Occupational Therapy*, 18, 231–240.
- Eklund, M., Erlandsson, L., & Leufstadius, C. (2010). Time use in relation to valued and satisfying occupations among people with persistent mental illness: Exploring occupational balance. *Journal of Occupational Science*, 17, 231–238.
- Eklund, M., Erlandsson, L.-K., & Persson, D. (2003). Occupational value among individuals with long-term mental illness. *Canadian Journal of Occupational Therapy*, 70(5), 276–284.
- Eklund, M., Erlandsson, L.-K., Persson, D., & Hagell, P. (2009). Rasch analysis of an instrument for measuring occupational value: Implications for theory and practice. *Scandinavian Journal of Occupational Therapy*, 16(2), 118–128.
- Erlandsson, L.-K., Eklund, M., & Persson, D. (2011). Occupational value and relationships to meaning and health: Elaborations of the ValMO-model. *Scandinavian Journal of Occupational Therapy*, 18, 72–80.
- Jackson, J. (1998). Is there a place for role theory in occupational science? *Journal of Occupational Science*, 5(2), 56–65.
- Kielhofner, G. (2009). *Conceptual foundations of occupational therapy* (4th ed.). Philadelphia, PA: F.A. Davis.

- Kinébanian, A., & Stomph, M. (2009). Guiding principles on diversity and culture. WFOT. Retrieved from [www.wfot.org](http://www.wfot.org).
- Persson, D., & Erlandsson, L.-K. (2010). Evaluating OVal-9, an instrument for detecting experiences of value in daily occupations. *Occupational Therapy in Mental Health*, 26, 32–50.
- Persson, D., Erlandsson, L.-K., Eklund, M., & Iwarsson, S. (2001). Value dimensions, meaning, and complexity in human occupation – A tentative structure for analysis. *Scandinavian Journal of Occupational Therapy*, 8, 7–18.
- Reise, S. P., Waller, N. G., & Comrey, A. L. (2000). Factor analysis and scale revision. *Psychological Assessment*, 12, 287–297.
- Schwartz, S. H. (1994). Beyond individualism/collectivism: New cultural dimensions of values: Theoretical and methodological approaches to study of collectivism and individualism. In U. Kim, H. C. Triandis, C. Kagitcibasi, S. Choi, & G. Yoon (Eds.), *Individualism and collectivism: Theory, method, and application* (pp. 85–123). London, U.K.: Sage.
- Stein, F., & Roose, B. (2000). *Pocket guide to treatment in occupational therapy*. San Diego, CA: Singular.