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ABSTRACT

The effect of social support has been investigated in numerous studies. Indeed, studies showed that social support is associated with health in many ways. As accepted, structural and functional support are distinct types of social support. The MOS Social Support Survey is an assessment tool that includes items measuring both types of social support. The MOS Social Support Survey was linguistically adapted to Turkish by translation and back-translation process. The study included a pre-test (N = 241) and a post-test (N = 99) conditions with one-month interval. The questionnaire set included a demographic information form, the MOS Social Support Survey, U.C.L.A. Loneliness Scale, Symptom Checklist 90-Revised, Multidimensional Scale of Perceived Social Support, and Inventory of Socially Supportive Behaviors. Factor analysis confirmed the fit of the 4-factor model. While the internal consistency reliability of the whole scale was .96, the test-retest reliability was .73. The internal consistency reliabilities of the subscales ranged between .58 and .73. As an indicator for the divergent validity, the scale was negatively correlated with U.C.L.A Loneliness Scale (r = -.65, p < .01) and SCL-90-Revised (r = -.276, p < .01). For the convergent validity, the MOS Social Support Survey was correlated positively with MSPSS (r = .657, p < .01) and ISSB (r = .404, p < .01). The results of the study indicated that Turkish adaptation of the MOS Social Support Survey has satisfactory reliability and validity values..

Keywords: social support, psychology, reliability, validity, MOS Social Support Survey.

INTRODUCTION

Conceptualization of Social Support

Social support has been conceptualized in different ways. First, structure of social support was investigated where structure refers to the presence and quantity of social interactions (Giangrasso & Casale, 2014). To study this concept, researchers found ways to measure it. The first attempt was Berkman and Syme's (1979) social network index. They included four different types of structural social interactions and suggested that marital status, the number of relatives and friends, church participation, and participation in other organizations can be used to measure the social network. This type of measurement was also found to be related with several health behaviors, such as cancer screening behaviors (Suarez, Llyord, Weiss, Rainbolt, & Pulley, 1994; Kang, Bloom, & Romano, 1994; Seow, Huang, & Straughan, 2000; Suarez et al., 2000).

However, other researchers claimed that the assessment of the social network is not able to assess social support properly since the large number of social ties does not necessitate high level of social interactions and social support or vice versa (Fleishman, Sherbourne, & Crystal, 2000; Kahn & Antonucci, 1980; Seeman & Berkman, 1988; Sherbourne & Stewart, 1991). Upon this discussion, Langford, Bowsher, Maloney, and Lillis (1997) suggested that the structure of social interaction is social network, whereas the function of this interaction refers to social support. They underlined the distinction between these two concepts by proposing that social network, and social embeddedness are the antecedents of social support.

Researchers also claimed that the availability of functional support, i.e., the extent to which relationships among people serve for functions, mainly refers to social support functions (Sherbourne & Stewart, 1991; Uchino, Uno, & Holt-Unstad, 1999; Seeman & Berkman, 1988). As Giangrasso and Casale, (2014) pointed out, functional social support is the behavioral manifestation of social support given by other people in the social network. So, types of resources that are provided by social network means functional social support and a person can assess how available these kinds of resources to himself.

To measure functional social support researchers determined these functions. As a first step, House (1981) described five functions of social support, namely emotional support, instrumental support/tangible support, informational support, appraisal support, and social companionship. Sherbourne and Stewart (1991), however, suggested four dimensions of functional social support, namely emotional/ informational support, tangible support, affectionate support, and positive interactions in a study they conducted with chronically disturbed patients.

Social Support and Health Behaviors

Concerning social support and health behaviors relationship, several studies concluded different findings. First group of researchers supported that social support has direct effects of health behaviors. Uchino et al. (1999) suggested that social support promotes motivation for health behaviors. Similarly, Hernández et al. (2007)

showed that social support has direct effects on the frequency of visits to doctor and self-medication. Second type of researchers suggested that social support has an indirect effect on health behaviors. For instance, DiMatteo (2004) indicated that social support can buffer the stress of being ill and decrease depression because it increases optimism and self-esteem. Likewise, Cohen and Wills (1985) suggested that social support indirectly protects people from negative effects of stressors and thereby leads people to become healthier. Bozo et al. (2014) showed the indirect effect of social support by suggesting that it is moderating the negative effects of type C personality on quality of life of breast cancer patients.

Since social support affects health behaviors favorably, there has been an increase in the studies searching for the link between social support and health related issues, such as mortality (House, Landis, & Umberson, 1988), maintaining healthy diet, adherence to medical routines and exercise (Jackson, 2006), diabetes (DiMatteo, 2004; Miller & DiMatteo, 2013), and cancer screening (Andrade et al., 2005; Kang, Bloom, & Romano, 1994; Katapodi, et al., 2002; Messina et al., 2004; Seow, Huang, & Straughan, 2000; Straughan & Seow, 2000; Suarez et al., 1994; Suarez et al., 2000).

To understand which dimension of social support is affecting health behaviors, researchers studied the effectiveness of its functions. Informational support may increase personal effectiveness in dealing with an overwhelming experience by providing guiding and recommendation (Helgeson & Cohen, 1996). Emotional support means exchanging caring and concern in interpersonal relationships, thereby so it can decrease the stress a person goes through by the help of improving social interactions (Giangrasso & Casale, 2014). Emotional support was found to be improve mental and physical health (Strine et al., 2008), and may reduce mortality (Reblin & Uchino, 2009).

Medical Outcomes Study Social Support Survey (MOS-SSS)

Sherbourne and Stewart (1991) designed a social support survey to broaden the concept of social support. They developed a multidimensional social support survey including items to assess both structural and functional support. They stressed that perceived social support refers to a person's perception of the availability of different resources of social support. Medical Outcomes Study-social support survey (MOS-SSS) was originally developed and validated in the United States in English (1991). Since the items of the survey are short and can be understood easily, the survey was suggested to be appropriate for assessing social support of chronically ill patients. The scale is particularly advantageous since its items were further arranged to address the social needs of the chronically ill patients. The scale was a product of a large-scale health research project named the Medical Outcomes Research (the MOS).

MOS-SSS was adapted to several languages. It was also translated to Chinese with people living with HIV/AIDS (Yu et al., 2004), to Brazilian Portuguese with Hodgkin's lymphoma survivors (Soares, 2012), Chinese Mandarin with patients of coronary heart disease (Wang et al., 2013), and Malay with postpartum mothers (Norhayati et al., 2015).

The survey was adapted to French Canadian (Anderson et al., 2005) with general population of students. Similarly, Giangrasso and Casale, (2014) validated Italian version of the scale with a general population of undergraduate students. Likewise, the main objective of the current study is to adapt the MOS-SSS to Turkish culture with a general population of undergraduate students and test the psychometric properties of the Turkish version of it.

METHOD

Research Design

This study was conducted with cross-sectional design. Respondents received questions via online platform and answered them. For test-retest reliability to be calculated, one month later respondents were reached again by e-mail and requested to fill out some questions.

Participants

A total of 241 Turkish university students (189 females and 52 males) were recruited for the Time 1 condition (mean age = 25.84, SD = 5.437, range = 18-60). They were selected with convenience sampling method. For the Time 2, out of 241 time 1 participants, 99 participants (41.08 %, 71 females and 28 males) were volunteered to participate (mean age = 24.76, SD = 4.52, range = 19-42). The demographic characteristics of the participants can be seen in Table 1.

Table 1. Demographic Characteristics of the Sample

	Pre-test Group		Post-test Group	
	N	%	*N*	%
Gender				
Male	52	21.6	28	28.3
Female	189	78.4	71	71.1
Marital Status				
Single	103	42.7	47	47.5
Engaged	102	42.3	37	37.4
Married	36	15	15	15.2
Education Level				
High school	68	28.2	46	46.5
University	110	45.6	33	33.3
Master's	56	23.2	18	18.2
Doctorate	7	2.9	2	2

The participants who were present at Time 1 and who were present at Time 2 are compared on study variables. As independent samples *t*-test analysis suggested, these two groups were not significantly different in terms of received social support, perceived social support, loneliness, and psychopathology (see Table 2).

Table 2. Descriptive Statistics and t-test Results for Time 1 and Time 2 Participants

		n	m	sd	t(239)	p
UCLA	Time 1	241	35.97	11.18	.345	
	Time 2	99	35.45	11.47	.345	.73
ISSB	Time 1	241	104.33	31.56	.099	
	Time 2	99	103.91	32.81	.099	.92
MSPSS	Time 1	241	66.65	15.39	.662	
	Time 2	99	65.34	14.75	.662	.80
SCL-90-R	Time 1	241	163.72	48.18	-.833	
	Time 2	99	169.38	56.98	-.833	.41
MOS	Time 1	241	78.50	13.04	.248	
	Time 2	99	78.07	14.05	.248	.81

Note. UCLA: University of California Los Angeles Loneliness Scale, ISSB: Inventory of Socially Supportive Behaviors, MSPSS: Multidimensional Scale of Perceived Social Support, SCL-90-R: Symptom Checklist 90 Revised, MOS: MOS Social Support Survey.

Measures

***Demographic* Information Form.** This form included questions about gender, age, marital status, and education level. Moreover, participants were asked to give their e-mail addresses for the post-test condition.

MOS-SSS. The MOS-SSS was developed by Sherbourne and Stewart (1991). The first item of it assesses the number of the close relatives and friends (structural social support). The remaining 19 items of the test are answered on a 5-point Likert type scale ranging from 1 (*none of the time*) to 5 (*all of the time*). The test includes four subscales, namely emotional-informational support (8 items), positive interaction (3 items), affectionate support (4 items), and tangible support (3 items). The internal consistency reliability estimated by Cronbach's alpha was .97 for the total scale, .96, .94, .91, and .92 for emotional/informational support, positive interaction, affectionate support, and tangible support, respectively. The test-retest reliability with a 1-year interval was .78 for the total scale, .72, .72, .76, and .74 for emotional/informational support, positive interaction, affectionate support, and tangible support, respectively. The validity of the scale was tested by conducting Pearson Moment correlations between health status measures like physical health, mental health, both physical and mental health, and social support. The MOS-SSS had higher correlations with social support and lower correlations with physical health measures which indicated construct validity of the survey. Please see Appendix A for Turkish MOS-SSS.

University of California Los Angeles (UCLA) Loneliness Scale. UCLA Loneliness Scale was employed for testing divergent validity of MOS-SSS. The scale was developed by Russell, Peplau, and Ferguson (1978) and revised by Russell, Peplau, and Cutrona (1980). Turkish adaptation of the test was conducted by Demir (1989). This scale has 20 items and half of them were reversed. It is scored on a 4-point Likert type scale ranging between 1 (*I never felt this way*) and 4 (*I often feel this way*). Higher scores on this scale correspond to higher levels of loneliness. The reliability of the Turkish version was .96 and the test-retest reliability was conducted with a 5-week interval was .94 (Demir, 1989). The correlations between UCLA Loneliness Scale, Beck Depression Inventory, and Social Introversion subscale of Multidimensional Depression Inventory were positive and

significant (.77 and .82, respectively). Thus, the Turkish version of the scale was found as reliable and valid. In the current study, the internal consistency reliability of the scale was .93.

Symptom Check List 90 Revised (SCL-90-R). SCL- 90-R is a self-administered inventory and it consists of 90 items, all of which are answered on a 5-point Likert scale ranging from 0 (*never*) to 4 (*always*). The inventory assesses the level of general psychopathological symptoms. Originally, the scale was developed by Derogatis (1977) and it was adapted to Turkish by Dağ (1991). It has 9 subscales, which are somatization, obsession and compulsion, interpersonal sensitivity, depression, anxiety, hostility, phobic anxiety, paranoid ideation, and psychoticism. The total score and the global severity index (GSI) were considered as measures of overall psychopathology. The internal consistency reliability of the test was .97. Test-retest reliability of GSI was .90 and it ranged for the subscales between .65 and .87. SCL-90-R and its all subscales were positively and significantly correlated with Beck Depression Inventory (Beck, Steer, & Brown, 1996) and Minnesota Multiphasic Personality Inventory subscales except lie, masculinity-femininity, and hypomania (Butcher, Dahlstrom, Graham, Tellegen, & Kaemmer, 1989). These findings suggested that SCL-90-R has satisfactory psychometric qualities in Turkish culture. In the present study, the internal consistency of the scale was .97.

Multidimensional Scale of Perceived Social Support (MSPSS). MSPSS consists of 12 items questioning the source and the level of social support provided by a significant other, family, and friends (Zimet et al., 1988). It is a 7-point Likert-type scale ranging from 1 (*very strongly disagree*) to 7 (*very strongly agree*). Higher scores on this scale indicate higher levels of social support perceived by respondents. The internal consistency reliability of the Turkish MSPSS ranged between .80 and .95 (Eker, Arkar, & Yaldız, 2001). The correlation analyses between MSPSS, Beck Depression Inventory (Hisli, 1989), and State Trait Anxiety Inventory (Önder & Le Compte, 1985) revealed that MSPSS is significantly and negatively correlated with BDI and State Trait Anxiety Scale, suggesting that MSPSS is a valid scale (Eker & Arkar, 1995). In the present study, the internal consistency of the scale was found as .90.

Inventory of Socially Supportive Behaviors (ISSB). ISSB is composed of 40 items and it measures the amount of the received social support. The scale was originally developed by Barrera et al. (1981) and adapted to Turkish by Erol and Bozo (2012). The scale has three subscales, guidance, emotional support, and tangible assistance. According to reliability analyses, Cronbach's alpha of the total inventory was.95 and the test-retest reliability was .69. For the subscales, guidance, emotional support, and tangible assistance test-retest reliability coefficients were .95, .95, and .81, respectively. ISSB and its all subscales were positively and significantly correlated with MSPSS. In the current study, the internal consistency of the scale was .96.

Procedure

Adaptation of MOS-SSS

The MOS-SSS was linguistically adapted to Turkish by translation and back-translation process (Brislin et al., 1973). Three bilingual independent translators translated the original scale to Turkish. A bilingual psychologist

who is competent both in English and Turkish decided on the best translated items that represented the original correspondents. After the comparison of the translated items with the original ones, the scale turned out to its final version.

Ethical considerations

After the study was approved by the Review Board of the Middle East Technical University, the questionnaire booklet was prepared and uploaded to an online data collection website (www.surveey.com) and the link for the study was delivered to the volunteer students enrolled to psychology classes. They were given extra credit for their participation. An inform consent form as well as a debriefing form were provided to all participants. The pre-test condition was completed with the online data gathering process. After a month, participants were contacted again by their e-mail addresses and they were requested to take the post-test survey. Ninety-nine out of 241 participants volunteered to take the test again.

Data Analyses

For time 1 measurement, MOS-SSS, UCLA Loneliness scale, SCL-90-R, MSPSS, and ISSB were administered to an initial of 241 participants. Exploratory factor analyses of 19 items of MOS- SSS were computed by SPSS (version 18.0) to understand the factor structure of it. The best resolution with the highest explained variance revealed the factor structure. For test-retest reliability, at time 2, ninety-nine participants (71 females and 28 males) filled out MOS-SSS, which was subjected to correlation analysis with time 1 MOS-SSS scores. Internal consistency reliability was computed with Chronbach's alpha. Construct validity of MOS-SSS was investigated by Person correlation with UCLA Loneliness scale, SCL-90-R, MSPSS, and ISSB at Time 1 measurements.

FINDINGS (RESULTS)

Factor structure of Turkish MOS-SSS

For the first step, 19 items of the MOS- SSS (answered on 5-point Likert type scale) measuring the level of functional support were analyzed by varimax rotation. Factor analysis revealed 3 factors with eigenvalues higher than 1 that were generated by using Kaiser Criteria. They explained 73.84 % of the total variance. However, since the first factor included more than half of the items in the scale, which was not compatible with the original scale, factor analysis was tried with a 4-factor solution. Thereby, the item distribution of the Turkish MOS-SSS became comparable with the original one. The 4-factor solution explained more variance than the 3-factor solution (77.75 % of the total variance). The item values, factor loadings, eigenvalues, and the explained variance of MOS- SSS can be seen in Table 3.

Table 3. Factor Loadings for The MOS Social Support Survey

Item	Factor 1	Factor 2	Factor 3	Factor 4
4. Someone to give you good advice about a crisis	**.86**	.15	.08	.27
17. Someone to turn to for suggestions about how to deal with a personal problem	**.77**	.29	.32	.24
13. Someone whose advice you really want	**.75**	.24	.32	.24
3. Someone you can count on to listen to you when you need to talk	**.65**	.33	.35	.24
8. Someone to give you information to help you understand a situation	**.62**	.26	.60	.10
19. Someone who understands your problems	**.57**	.37	.52	.11
9. Someone to confide in or talk to about yourself or your problems	**.59**	.29	.60	.12
16. Someone to share your most private worries and fears with	**.52**	.25	.60	.22
14. Someone to do things with to help you get your mind off the things	**.88**	.06	.20	.26
18. Someone to do something enjoyable with	.21	**.86**	.25	.17
11. Someone to get together for relaxation	.26	**.78**	.35	.19
7. Someone to have a good time with	.26	**.75**	.41	.08
6. Someone who shows you love and affection	.22	.25	**.66**	.50
20. Someone to love and make you feel wanted	.83	.41	**.65**	.30
10. Someone who hugs you	.29	.27	**.64**	.39
5. Someone to take you to the doctor if you needed it	.27	.03	.15	**.81**
12. Someone to prepare your meals if you were unable to do it yourself	.11	.20	.18	**.80**
2. Someone to help you if you were confined to bed	.18	.07	.08	**.77**
15. Someone to help with daily chores if you were sick	.14	.27	.25	**.74**
Eigenvalue	10.74	1.88	1.41	.74
Explained variance (%)	56.20	9.88	7.43	3.92
Cronbach's α	.95	.94	.88	.86

Note. Factor 1: Emotional/Informational Support, Factor 2: Positive Interaction, Factor 3: Affectionate Support, Factor 4: Tangible Support

The first factor, *emotional/informational support,* had a cutoff point of .52. It had 8 items and explained 56.52 % of the total variance. The second factor, *positive interaction,* had 4 items and it explained 9.88 % of the total variance. The cutoff point of the second subscale was .75. The third factor was named as *affectionate support* and it included 3 items. It explained 7.43 % of the total variance, and its cutoff point was .64. The last factor was *tangible support*. It consisted of 4 items and explained 3.92 % of the total variance. Its cutoff point was .74. According to the results of this factor analysis, it can be suggested that Turkish MOS-SSS has construct validity. The internal consistency reliability of the MOS-SSS estimated by Cronbach's alpha was found as .96. Table 4 presents the summary of reliability analysis and Table 6 shows the factor structure and the internal consistency reliabilities of the subscales.

Reliability of Turkish MOS-SSS

The test-retest reliability of the scale was examined by the re-application of the scale to 99 participants (41.08 %) from the test group with one-month interval (r = .727, p < .01). The test-retest reliability values for the subscales were as follows: emotional/ informational support (r = .73, p < .001), positive interaction (r = .65, p < .001), affectionate support (r = .67, p < 0.001), and tangible support (r = .58, p < .001).

Validity of Turkish MOS-SSS

MOS-SSS was correlated with UCLA Loneliness scale and SCL-90-Revised. MOS-SSS was negatively correlated with UCLA Loneliness Scale (r = -.65, p < .01) and SCL-90-Revised (r = -.276, p < .01). These results suggested that high functional support is associated with lower levels of loneliness and psychopathology.

Table 4. Reliability Analysis for The MOS Social Support Survey

Item Number	Item Mean	SD	α if item deleted	Item-Total r
2	4.28	.84	.956	.48
3	4.34	.81	.952	.77
4	4.26	.87	.953	.68
5	4.29	.96	.955	.57
6	4.34	.84	.952	.78
7	4.31	.83	.953	.72
8	4.12	.94	.952	.79
9	4.16	.93	.951	.79
10	4.11	1.09	.952	.76
11	4.18	.92	.952	.76
12	4.02	1.04	.955	.57
13	3.90	1.0	.952	.75
14	4.04	.93	.953	.65
15	3.93	1.04	.954	.63
16	3.67	1.23	.952	.78
17	4.02	.96	.951	.81
18	4.17	.88	.953	.70
19	4.01	.93	.952	.78
20	4.17	.95	.952	.79
Total scale	78.33	13.43		

Note. Internal consistency reliability as calculated by Cronbach's α is .96

Table 5. Reliability Analysis of the Subscales of the MOS Social Support Survey.

Item Number	Mean	SD	α if item deleted	Item-Total r
Emotional/Informational Support[*]				
4	4.26	.87	.94	.74
17	4.02	.96	.93	.86
13	3.90	.99	.94	.79
3	4.34	.81	.94	.78
8	4.12	.94	.93	.85
19	4.01	.93	.95	.80
9	4.16	.94	.93	.84
16	3.67	1.22	.94	.80
Total subscale	32.49	6.58		
Positive Interaction[**]				
14	4.04	.93	.92	.84
18	4.17	.88	.90	.88
11	4.18	.92	.91	.85
7	4.31	.83	.92	.82
Total subscale	10.55	3.25		
Affectionate Support[***]				
6	4.34	.84	.81	.79
20	4.17	.95	.82	.76
10	4.11	1.1	.85	.74
Total subscale	12.62	6.68		
Tangible Support[****]				
5	4.29	.96	.81	.71
12	4.02	1.0	.80	.73
2	4.28	.84	.84	.63
15	3.93	1.0	.80	.74
Total subscale	16.52	10.56		

Note. [*] Internal consistency reliability as measured by Cronbach alpha is .95, [**] Internal consistency reliability as measured by Cronbach alpha is .93, [***]Internal consistency reliability as measured by Cronbach alpha is .88, [****]Internal consistency reliability as measured by Cronbach alpha is .86

MOS-SSS was correlated with MSPSS ($r = 0.657$, $p < 0.01$) and ISSB ($r = 0.404$, $p < 0.01$). In other words, higher scores on Turkish MOS-SSS was associated with higher perceived and received social support. These results suggested that Turkish MOS-SSS has satisfactory validity (see Table 5).

The validity analyses were repeated for the first question of MOS-SSS measuring structural support (the number of close relatives and friends). The results yielded that this single item was significantly and positively correlated with 19 items of the MOS-SSS ($r = .42$, $p < .01$). Moreover, the number of close relatives and friends was significantly and negatively correlated with U.C.L.A Loneliness Scale ($r = -.48$, $p < .01$) and SCL-90-Revised ($r = -.15$, $p < .05$). Hence, large number of close relatives and friends was correlated with less loneliness and psychopathology. Similar to the original scale, it was also significantly and positively correlated with MSPSS ($r = .36$, $p < .01$) and ISSB ($r = .16$, $p < .05$). Higher structural support was positively correlated with functional

support, perceived, and received social support. Table 6 presents correlation coefficients among the measures used in the current study.

Table 6. Correlation Coefficients of the Measures Used in Assessing Divergent and Convergent Validities

	StSS	MOS	UCLA	MSPSS	SCL	ISSB
StSS	---					
MOS	.42**	(.95)				
UCLA	-.42**	-.65**	(.93)			
MSPSS	.36**	.66**	-.71**	(.91)		
SCL	-.15*	-.28**	.48**	-.36**	(.97)	
ISSB	.16*	.40**	-.28**	.34**	.03	(.96)

Note 1. $* p < .05$, $** p < .01$

Note 2. StSS: Structural social support item, MOS: The MOS social support survey, UCLA: UCLA loneliness scale, MSPSS: Multidimensional scale of perceived social support, SCL: Symptom checklist 90 revised, ISSB: Inventory of socially supportive behaviors.

Note 3. Values in parentheses indicate the internal consistency reliability of the related scales

CONCLUSION and DISCUSSION

This study was conducted to adapt the MOS-SSS developed originally in English (Sherbourne & Stewart, 1991) to Turkish culture and examine the psychometric properties of the adapted version. Results of the analyses indicated that the Turkish version of the MOS-SSS had satisfactory reliability and validity values.

The results of this study were largely consistent with the reliability and validity study of the original study (Sherbourne & Stewart, 1991). The authors excluded the positive interaction item, item 14 (someone to do things with to help you get your mind off things), since it did not discriminate its subscale well. However, for the Turkish version of the scale, 14th item was not excluded since in the factor analysis it loaded under the positive interaction subscale well (Table 4).

The other difference between the original scale and its Turkish version was related to the 1st item of the scale. Sherbourne and Stewart (1991) found that this single item measuring structural support by questioning the number of close friends and relatives showed low correlations with functional support items. Hence, they argued that structural support was different from functional support, which was parallel to previous findings (Kahn & Antonucci, 1980; Seeman, & Berkman, 1988; Sherbourne & Stewart, 1991; Fleishman, Sherbourne, & Crystal, 2000). However, as it could be seen from Table 7, in our analysis this item correlated significantly with the remaining items of the MOS-SSS and with the other scales used to assess validity. It correlated positively with MOS-SSS items, MSPSS, and ISSB; and negatively with UCLA and SCL-90-R. Thus, the present findings can be supportive of the Langford et al.'s (1997) argument. These researchers proposed that social network is different from social support; it is an antecedent of social support. Having large number of close friends and relatives was related with less loneliness, less psychopathology, and with high received and perceived social support. Having large number of friends and relatives could mean having many alternative sources of social

support, such as family, friends, relatives, neighbors, coworkers, the significant other, children, hospital staff, visitors etc.

The difference between the findings of the current study and the original study regarding the first item might be due to sample difference; Sherbourne and Stewart (1991) studied with chronic patients. Since chronic patients could be confined to hospitals or houses, they may have less available time for friends. Moreover, since they may focus more on themselves and the management of their conditions, their social network may shrink and thereby their structural social support decreases. In the present study, however, the sample was composed of general population of undergraduate students.

Age might be another reason of the difference between the findings of the original and current studies. In the original study the age range was 18-98 and the mean age was 55; however, in the current study the age range was 18-60 and the mean age was 25.84. This means that the average person in the original study was in his/her middle adulthood; however, the one in the current study was in his/her young adulthood. While young adulthood is characterized by increases in network through such as marriage and having a job; middle adulthood is closely related with shrinkage in network through such as retirement and divorce (Specht, Egloff, & Schmugle, 2011). In addition, a person in the middle adulthood is expected to have established emotional and social development; however, an emerging adult is still developing emotional and social bonds, and thereby, the number of close friends and relatives tend to increase.

The average age difference between the studies might also explain loading of the item 14 (someone to do things with to help you get your mind off things) on the positive interaction subscale in the present study. An individual in his/her middle adult and having a chronic condition may lack an accompanier to get his mind off things but s/he still may have positive interactions with people nearby. However, an emerging adult is more available to both having friends to get his mind off things and forming positive interactions with them.

The present study is not without its limitations. This study was conducted with non-clinical participants rather than patients with chronic conditions. Future studies are suggested to include participants with chronic conditions and make a comparison between disease-free participants and participants with chronic conditions in terms of functional and structural social support.

SUGGESTIONS

Due to its easy-to-read and short items, the MOS-SSS is a user-friendly instrument to assess social support of individuals with low educational level, inpatients, and patients with advanced chronic diseases. Health researchers, as well as psychologists working in health care facilities, could administer this survey to assess the level of structural and functional social support in Turkish patients.

MEDİKAL SONUÇ ÇALIŞMASI SOSYAL DESTEK ÖLÇEĞİ'NİN (MSÇ-SDÖ) TÜRK KÜLTÜRÜNDEKI PSİKOMETRİK ÖZELLİKLERİNİN İNCELENMESİ

ÖZ

Sosyal desteğin etkisi birçok çalışma tarafından incelenmiştir. Aslında, çalışmalar sosyal desteğin sağlıkla çeşitli şekillerde ilişkili olduğunu göstermektedir. Genel olarak kabul edildiği üzere sosyal desteğin yapısal ve işlevsel olmak üzere iki farklı türü bulunmaktadır. Medikal Sonuç Çalışması-Sosyal Destek Ölçeği (MSÇ-SDÖ) iki tür sosyal desteği de ölçen maddeleri içeren bir değerlendirme aracıdır. Çeviri ve tekrar-çeviri yöntemi ile MSÇ-SDÖ Türkçe'ye çevrilmiştir. Çalışmanın bir ay arayla gerçekleştirilen ön-test (N = 241) ve son-test (N = 99) aşamaları vardır. Kullanılan ölçekler U.C.L.A. Yalnızlık Ölçeği, Belirti Tarama Testi, Çokboyutlu Sosyal Destek Ölçeği ve Sosyal Destek Davranışları Ölçeği'dir. Faktör analizi 4 faktör modelin uygunluğunu doğrulamıştır. Tüm ölçeğin iç tutarlığı .96 iken, test tekrar-test güvenirliği .73'tür. Ayrışan geçerlik için tüm ölçek U.C.L.A. Yalnızlık Ölçeği (r = -.65, p < .01) ve Belirti Tarama Testi ile (r = -.276, p < .01) negative korelasyon göstermiştir. Birleşen geçerlik için ise tüm ölçek Çokboyutlu Sosyal Destek Ölçeği (r = .657, p < .01) ve Sosyal Destek Davranışları Ölçeği (r = .404, p < .01) ile pozitif korelasyon göstermiştir. Bulgular MSÇ-SDÖ'nün Türkçe uyarlamasının yeterli psikometrik özelliğinin olduğunu göstermektedir.

Anahtar kelimeler: sosyal destek, psikoloji, gerçelik, güvenirlik, MSÇ sosyal destek ölçeği

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APPENDIX A. TURKISH MOS-SSS

Aşağıda size verilebilecek destekler ile ilgili sorular yer almaktadır.

1.Yaklaşık olarak kaç tane (yanındayken rahat hissettiğiniz ve aklınızdan geçenleri konuşabildiğiniz) yakın arkadaşınız ve yakın akrabanız vardır?

Yakın arkadaş ve yakın akrabalarınızın sayısını yazınız: _____

Bazen diğer insanların yanımızda olmasını, bize arkadaşlık etmesini ya da başka şekillerde bize destek olmasını isteriz. İhtiyacınız olduğunda aşağıdaki destek türlerini ne sıklıkla alabileceğinizi düşünüyorsunuz?

Her satırdan bir numarayı daire içine alınız.

	Hiçbir zaman	Nadiren	Bazen	Çoğunlukla	Her zaman
2. Yatağa düştüğünüzde size yardım edecek birisi	1	2	3	4	5
3. Konuşmaya ihtiyacınız olduğunda sizi dinleyeceğine güveneceğiniz birisi	1	2	3	4	5
4. Bir sorunla karşılaştığınızda size tavsiye verecek birisi	1	2	3	4	5
5. İhtiyaç duyduğunuzda sizi doktora götürecek birisi	1	2	3	4	5
6. Size sevgi ve şefkat gösteren birisi	1	2	3	4	5
7. Birlikte iyi vakit geçireceğiniz birisi	1	2	3	4	5
8. Kendiniz ya da problemleriniz hakkında konuşabileceğiniz ya da sır verebileceğini birisi	1	2	3	4	5
9. Güvenip içinizi dökebileceğiniz ya da kendinizden veya sorunlarınızdan bahsedebileceğiniz birisi	1	2	3	4	5
10. Size sarılacak birisi	1	2	3	4	5
11. Rahatlamak için bir araya gelebileceğiniz birisi	1	2	3	4	5
12. Kendiniz yapamayacak durumda iken size yemek hazırlayacak birisi	1	2	3	4	5
13. Tavsiyesine gerçekten ihtiyaç duyduğunuz birisi	1	2	3	4	5
14. Kafanızı dağıtmak için bir şeyler yapacağınız birisi	1	2	3	4	5
15. Hasta olduğunuzda günlük işlerinizde yardım edecek birisi	1	2	3	4	5
16. En mahrem/kişisel endişe ve korkularınızıpaylaşacağınız birisi	1	2	3	4	5
17. Başvurduğunuzda, kişisel bir probleminizi çözmek için önerilerde bulunacak birisi	1	2	3	4	5
18. Birlikte eğlenceli bir şeyler yapacağınız birisi	1	2	3	4	5
19. Sorunlarınızı anlayan birisi	1	2	3	4	5
20. Kendinizi değerli hissettirecek ve sizi sevecek birisi	1	2	3	4	5