Patient Safety & Quality Improvement Journal

http://psj.mums.ac.ir



Evaluation of the Turkish Version of the World Health Organization Quality of Life Instrument-Older Adults' Module (WHOQOL-OLD)

*Gonul Duzgun¹, Asiye Durmaz-Akyol

1. Izmir Tinaztepe University First and Emergency Aid Department Aydoğdu, 1267/1. Sk. No:4, 35400 Buca/İzmir, Turkey. 2. Ege University Internal Medicine of Nursing Erzene Mahallesi Ege Üniversitesi Merkez Yerleşkesi, 35040 Bornova/İzmir Turkey.

ARTICLEINFO	ABSTRACT
Article type: Original Article	<i>Introduction:</i> In recent years, the quality of life has become an important final health status indicator. Thus, increasing the quality of life in the growing population of the
<i>Article History:</i> Received: 17-Jun-2021 Accepted: 21-Aug-2021	elderly is one of the most important goals in healthcare. The purpose of this study was to determine the quality of life of the elderly staying in nursing homes. <i>Materials and Methods:</i>
Key words: Elderly, OLD, Quality-of- life, WHOQOL.	The research was carried out at the Gürçeşme Zübeyde Hanım Nursing Home, date between 1 July-30 August 2011, in İzmir. 103 elderly individuals, who met the inclusion criteria, constituted the research sample. Researcher collected data in face to face with the elderly participants. Results:
	52% of the participants are in 75-84 age group. 58% of the elderly were female; 56,3% were widowed; 61.2% were not literate; 39% have been staying in a nursing home because of no one to look after them; 41.7% had lived in a nursing home longer than seven years. 68.9% had at least one chronic disease, 58.3% of the elderly expressed their quality of life as good. WHOQOL-OLD total score was between 52-86 points (mean 70). The lowest scale mean score was sensory abilities and death and dying, sub-dimension group. Conclusion:
	The quality of life in elderly people was affected directly by variables such as age, educational level, marital status, social capacity, chronic illnesses, income status, and length of staying in a nursing home. We suggest that improving the social activities and facilities of the institution in line with the results obtained.

Please cite this paper as:

Duzgun G, Durmaz Akyol A. Evaluation of the Turkish Version of the World Health Organization Quality of Life Instrument-Older Adults' Module (WHOQOL-OLD). Journal of Patient Safety and Quality Improvement. 2021; 9(3): 189-197. Doi: 10.22038/psj.2021.58413.1330

*Corresponding author:

Izmir Tinaztepe University First and Emergency Aid Department Aydoğdu, 1267/1. Sk. No:4, 35400 Buca/İzmir, Turkey.

E-mail: gonul.duzgun@tinaztepe.edu.tr

Introduction

The share of the elderly population has been increasing worldwide due to advanced technology and medical practices, as well as the fall in fertility rates. Along with the aging population, the elderly's welfare. accessibility to services, communication social with the environment. and sustainability of productivity have been emphasized, especially in the developed countries (1). In 2019, the number of people aged 60 years and older was 1 billion. This number will increase to 1.4 billion by 2030 and 2.1 billion by 2050. It is expected that there will be several problems in the sharing of health services and social security rights (2).

While living a longer life provides good opportunities, it brings difficulties caused by advanced age along with it. The socialization of the elderly who have satisfying experiences in their youth is one of the opportunities provided by a longer life. difficulties However. related to independence, social communication, health services, and participation in society are also faced at an advanced age (3). Elderly individuals are more vulnerable and helpless because of the decline in physical and mental capabilities, retirement, and dependence on pensions, and becoming lonely because of losing spouses, family members, or friends (4).

With advanced age, chronic diseases intensify, and the limitations and the disability rates increase accordingly (5). The elderly's expectation from life can only be met by proper standards of care, safe housing, good nutrition, and protection of the social environment; and the concept of quality of life comes to the fore because of all these concepts (6).

In 1948, the World Health Organization (WHO) defined health as not only the absence of illness or disability, but also the existence of physical, mental, and social wellbeing (7). Thus, the success of a treatment that solves only traditional biomedical features, which does not improve the health-Related Quality of Life, is limited (8). In recent years, the quality of life has become an important final health status indicator. There is a serious increase in the number of publications towards the mid-1980s, although there was no publication in the literature about the quality of life before 1973 (9).

As a concept, the quality of life includes several factors such as health perceptions, well-being, functional status, happiness, general health status, emotional and economic status, psychological well-being, level of social communication, and feeling of pain; it is a multidimensional concept reflecting either the perception of life satisfaction or pleasure. Studies show that individuals elderlv with а positive perception of the aging practice preventive care approaches more, compared to those who do not have such perception (10). The number of studies on the evaluation and development of the quality of life of the elderly has increased in recent years. The reason for this special emphasis on the elderly is the increase in the elderly population over the last 50 years and that this increase is expected to continue in the next century. Thus, increasing the quality of life in the growing population of the elderly is one of the most important goals in healthcare (11).

Along with old age, chronic diseases decrease physical fitness; this, in turn, decreases the quality of life (5). Particularly, when the quality of life of elderly people living in nursing homes is evaluated, the quality of life is shown to be lower than the elderly living in their own homes (12).

The quality of life of the elderly is influenced by factors such as age, gender, educational status, chronic illnesses, use of medication, physical disabilities, leisure activities, social security, economic condition, and living alone (10-12).

Several measures are used to assess the quality of life. Measures can be of various types, such as profile measures or preference-based measures, according to their methodological and theoretical bases, and as general measures of the quality of life that can be applied to every population or disease-specific measures of the quality of life applicable to those with certain diseases, according to the subject population. WHOQOL and its shorter form WHOQOL-BREF, developed by the World Health Organization (WHO), are the most used profile measures. WHOQOL is a comprehensive instrument that assesses the well-being of an individual and allows cross-cultural comparisons. The WHOQOL-100, which consists of 100 questions, and the WHOQOL-BREF, which consists of 26 questions selected from among them, were prepared based on the pilot studies at 15 centers around the world. WHOQOL-BREF is commonly used for the elderly (13).

The primary purpose of the nursing discipline in the elderly is to help the elderly in performing their physical care, coping with their emotional problems, being self-sufficient, living with their disabilities, and feeling valued (14).

The purpose of this study is to determine the quality of life of the elderly staying in nursing homes and known to have a lower quality of life compared to the general population by using the WHOQOL-OLD instrument, a short form of the WHOQOL instrument developed by WHO.

Materials and Methods

Type of Study

The study was conducted as a descriptive study to examine the factors affecting the quality of life of the elderly living in nursing homes.

Location of Study

The research was carried out at the Gürçeşme Zübeyde Hanım Nursing Home, date between 1 July 2011- 30 August 2011, which is affiliated to the Department of Social Services and located in the Buca district of İzmir.

Universe of Study and Sampling

The universe of the study is the elderly people living in nursing homes. The elderly, who were included in the study, were 65 or older, able to communicate, did not have major depression, and voluntary. The universe of the study consisted of 196 elderly individuals and 103 elderly individuals, who met the inclusion criteria, constituted the research sample.

Data Collection

The Elderly Individual Information Form, which determines the characteristics of sociodemographic and other variables, and the Standardized Mini-Mental Test were used to collect data; the WHOQOL-OLD instrument was used to assess the quality of life. The Elderly Individual Information Form included questions about the elderly's age, gender, educational status, marital status, financial status, reasons for institutionalization, length of stay at the institution, the status of chronic illnesses, and evaluation of the quality of life.

The WHOQOL-OLD instrument (WHO Quality of Life – Elderly People Module) has been developed in a multi-centered project, including Turkey, to supplement the WHOQOL in epidemiological surveys and clinical intervention studies for elderly people. Eser et al. conducted the Turkish Validity and Reliability Study of the WHOQOL-OLD instrument. Cronbach's alpha value for the instrument was found to be 0.85 (15).

WHOQOL, a general-purpose quality of life profile measure, has two versions: a long WHOQOL-100 and a short 26-question WHOQOL-BREF. WHOQOL-100 has six dimensions with 25 sections, and WHOOOL-BREF consists of only four dimensions. The WHOQOL-OLD module is the first generalpurpose quality of life measure developed for the elderly population in Turkey; with this study, a general-purpose quality of life measure for the elderly population was developed for the first time not only in Turkey but also in a geographical area including the Eastern Mediterranean and Middle Eastern countries. The WHOQOL-OLD measure consists of 24 questions within six dimensions, where responses were recorded with a five-point Likert scale. These six dimensions are "Sensory Abilities" (questions 1, 2, 10, and 20), "Autonomy" (questions 3, 4, 5, and 11), "Past, Present, Future Activities" (questions 12, 13, 15, and 19), "Social Participation" (questions 14, 16, 17, and 18), "Death and Dying" (questions 6, 7, 8, and 9), and "Intimacy" (questions 21, 22, 23, and 24). Possible scores for dimensions range from 4 to 20. In addition, the "total score" can be calculated by adding up each score value. The higher the score, the better the quality of life (15).

The "Sensory Abilities" dimension assesses the sensory abilities and the effects of their loss on the quality of life. The "Autonomy" dimension means independence at an advanced age and expresses the ability to live on his/her own. The "Past, Present, Future Activities" dimension shows the satisfaction from life achievements and outlook for the future. The "Social Participation" dimension describes the ability to participate in everyday life activities, especially in society. The "Death and Dying" dimension refers to worries and anxieties about death and dving, while the "Intimacy" dimension evaluates the ability to establish personal and private relationships (15). The Mini-Mental State Examination (MMSE) was developed in 1975 by Folstein et al. and was later developed in the standardized version by Molloy and Standish in 1997. The Standardized Mini-Mental State Examination is a short and reliable instrument for cognitive assessment. The validity and reliability studies of the scale were carried out by Güngen et al. in 2002; values above the threshold value of 23/24 were determined as normal cognitive level. In the Turkish elderly population, the sensitivity and the specificity of the scale were found to be 91% and 95%, respectively. The scale contains questions organized under five main categories: orientation, registration, attention and calculation, recall, and language. The scale calculation is based on a score of 1 point for each correct answer and case out of 30 points (16).

Evaluation of Data

The statistical package program SPSS (Statistical Package for Social Sciences) for Windows 25.0 was used in the evaluation of the data. Number, percentage, averages were used in the analysis of descriptive information. One-way analysis of variance (ANOVA) and t-test in independent groups was used in evaluating variables assumed to be related to the quality of life. The significance level was defined as P< 0.05.

Ethics of Research

Necessary ethics permission has been taken to do study from Ege University Ethics Committee. Permission was obtained from the developer of the WHOQOL-OLD measure to implement it in the study. The necessary permission was obtained from the nursing home to conduct the research, and verbal and written approvals were obtained from the elderly participants. All three data collection tools were implemented, and the collected data were recorded by the investigator in face to face with the elderly participants.

Results

The average age of the surveyed elderly is 75-84, and 52% of the participants are in this age group. 58% of the elderly were female; 56.3% were widowed; 61.2% were not literate; 78.6% had equal income and expense. 39% have been staying in a nursing home because of no one to look after them; 41.7% had lived in a nursing home longer than seven years.

68.9% had at least one chronic disease; 17.5% being heart failure and high blood pressure. 58.3% of the elderly expressed their quality of life as good (Table 1).

When evaluating the quality of life by the WHOQOL-OLD questionnaire, the best quality-of-life (QoL) was discovered in the domain of intimacy, death and dying, and autonomy while the worst QoL was discovered in social participation and sensory abilities (Table 2).

When the distribution of scores received from the quality-of-life scale and its subdimensions according to the characteristics of the participants, statistically significant findings were found in the sub-dimensions (Table 3).

Table1: Socio-demographic and cl	linical characteristics of seniors

Socio-demographic and Clinical characteristics	Groups	N	%
	65-74		31,1
Age	75-84	54	52,4
	85 and older	17	16,5
Canadam	Female	58	56,3
Gender	Male	45	43,7
	Living with partner	11	10,7
Marital status	Living without partner	34	33,00
	Widowed	58	56,3
	not literate	63	61,2
Education status	Primary school	24	23,3
	Middle School + High School	16	15,5
	Income less than expenses	22	21,4
Income status	Equal income and expense	81	78,6
	Income more than expenses	0	0,0
	Because I can't take care of myself	26	25,2
	Because I have no one	37	35,9
Reason for staying in a nursing home	Because I was not accepted by my family		9,7
	Because I don't want to be a burden to my family	30	29,1
	Less than1 year	12	11,7
Length of stay	1-3 year	19	18,4
at nursing home	4-6 year	29	28,2
	7 year and more	43	41,7
	Yes	71	68,9
Chronic illnesses	No	32	31,1
	I haven't got any chronic illness	32	31,1
	Diabetes Mellitus	2	1,9
	Heart Failure and Hypertension	18	17,5
	Rheumatic diseases	8	7,8
N	Chronic Obstructive Pulmonary Disease Asthma and Hypertension	10	9,7
Name of illnesses	Osteoporosis, Hypertension And Diabetes Mellitus	10	9,7
	Hypertension and Diabetes Mellitus	9	8,7
	Hypertension	12	11,7
	Hypertension and Kidney failure	1	1,0
	Cancer	1	1,0
	Bad	4	3,9
	Middle	29	28,2
Expressed quality of life	Good	60	58,3
	Very good	10	9,7

Table 2: Quality of life of seniors in WHOQOL domains

WHOQOL domains (0-100)	N	Min.	Maks.	Mean	SD
Sensory abilities	103	4,00	17,00	10,33	2,83
Autonomy	103	9,00	19,00	13,78	2,13
Past, present and future activities	103	5,00	18,00	12,31	2,73
Social participation	103	5,00	17,00	11,90	2,94
Death and dying	103	4,00	19,00	9,17	3,17
İntimacy	103	5,00	20,00	13,33	3,11
Total score	103	52,00	86,00	70,40	7,92

Table3: The Distribution of the Scores of the Quality-of-Life Scale and its Sub-Dimensions According to the Characteristics of the Participants

				le and its Sub-Dime			т
Characteristics	Sensory abilities	Autonomy	Past, present and future activities	Social participation	Death and dying	İntimacy	Total score
	$\overline{\mathcal{X}}$ ±SD	$\overline{\mathcal{X}}$ ± SD	$\overline{\mathcal{X}}$ ±SD	$\overline{\mathcal{X}}$ ± SD	$\overline{\mathcal{X}}$ ± SD	$\overline{\mathcal{X}}$ ± SD	$\overline{\mathcal{X}}$ ± SD
Age	10 11 2 25	12.0(+2.20	11.01 - 2.27	12,44±2,56	014:274	12 77 2 42	(0.22) 7 51
65-74 (1) 75-84 (2)	10,11±2,25 9,96±2,45	13,96±2,20 13,92±2,12	11,81±2,37 12,50±2,82	12,44±2,56 12,07±3,00	8,14±2,74 9,61±3,31	12,77±2,42 13,83±3,32	69,22±7,51 71,29±8,54
85 and older (3)	12,82±3,22	13,11±2,14	12,76±3,21	10,41±3,06	9,05±2,72	12,76±3,34	70,47±5,96
KW	14,977	1,791	2,642	5,206	6,139	3,554	1,915
P	0,002*	0,617	0,450	0,157	0,105	0,314	0,590
Adjusted Bonferroni	1<3, 2<4	.,.	.,		.,	- /-	
Gender							
Female	10,43±2,52	13,72±2,17	12,75±2,61	11,93±3,13	9,34±3,32	13,14±2,84	70,95±8,38
Male	10,22±3,22	13,86±2,09	11,73±2,79	11,87±2,72	8,96±3,01	13,58±3,45	69,71±7,33
T P	0,369 0,713	-0,335 0,738	1,913 0,059	0,110 0,913	0,615 0,540	-0,710 0,479	0,784 0,435
P Marital status	0,715	0,738	0,059	0,915	0,540	0,479	0,435
Living with partner	10,63±3,69	13,09±1,75	12,72±3,40	12,36±2,97	9,81±3,06	14,54±3,72	72,09±7,64
Living without partner	9,58±2,93	13,79±2,22	12,02±2,91	12,50±2,74	9,08±3,48	13,82±3,45	71,38±8,53
Widowed	10,72±2,55	13,91±2,14	12,39±2,51	11,46±3,02	9,10±3,05	12,81±2,69	70,10±7,69
F	1,814	0,685	0,332	1,490	0,249	2,123	0,287
Р	0,168	0,506	0,718	0,230	0,780	0,125	0,751
Education status						_	L
not literate (1)	10,50±2,58	13,49±1,97	12,11±2,84	11,84±2,85	9,14±3,15	13,23±3,23	69,87±8,70
Primary school (2)	11,25±3,28	13,45±2,39	12,33±2,76	11,25±3,08	9,16±2,95	13,00±2,46	70,00±5,35
Middle School + High School (3)	8,31±2,18	15,43±1,59	13,06±2,20	13,12±2,87	9,31±3,75	14,18±3,50	73,12±7,77
F	5,958	6,275	0,771	2,025	0,018	0,767	1,118
P	0,004*	0,003*	0,466	0,137	0,982	0,467	0,331
Bonferroni	3<2	1<3, 2<3	0,100	0,10,	0,502	6,107	0,001
Income status		,					
Income less than expenses	10,09±3,40	13,68±2,35	11,81±3,01	12,22±2,58	8,81±3,52	14,50±2,93	70,54±7,98
Equal income and expense	10,40±2,68	13,81±2,08	12,44±2,65	11,81±3,04	9,27±3,09	13,01±3,09	70,37±7,95
Т	-0,403	-0,258	-0,953	0,581	-0,591	2,019	0,091
Р	0,690	0,797	0,343	0,562	0,556	0,046*	0,927
Reason for staying in a nursing home							
Because I can't take care of myself	10,92±2,33	14,23±1,90	12,69±2,03	12,69±2,93	8,80±2,87	14,15±1,75	73,19±6,34
Because I have no one	9,48±2,91	13,62±2,49	11,86±3,01	11,67±3,39	9,59±3,38	13,45±3,71	69,16±9,10
Because I was not accepted by my family	9,70±2,11	12,90±1,52	10,90±2,76	10,70±2,11	10,40±2,98	11,70±3,56	66,20±8,31
Because I don't want to be a burden to my family	11,10±3,12	13,78±2,13	13,00±2,74	11,90±2,49	8,56±3,19	13,00±2,93	70,93±6,82
F	2,472	1,057	2,085	1,264	1,199	1,691	2,459
Р	0,066	0,371	0,107	0,291	0,314	0,174	0,067
Length of stay at	-,	.,	.,	.,	.,	.,	.,
nursing home						ļ	
Less than 1 year (1)	9,25±3,62	13,75±2,22	11,16±2,62	12,83±2,16	9,75±4,00	15,25±2,41	71,25±5,15
1-3 year (2)	10,78±3,64	14,21±2,12	13,15±2,71	12,57±2,45	7,15±2,06	13,89±2,97	71,00±5,76
4-6 year (3)	10,13±2,57	13,20±2,24	11,58±2,19	10,34±2,79	10,55±3,45	12,20±2,71	68,00±7,78
7 year and more (4) F	10,58±2,34 0,899	14,00±2,02 1,114	12,74±2,95 2,449	12,39±3,10 4,210	8,97±2,69 5,097	13,30±3,34 3,187	71,53±9,23 1,273
r P	0,899	0,347	0,068	0,008*	0,003*	0,027*	0,288
Bonferroni	0,111	0,017	0,000	3<4	2<3	1<3	0,200
Chronic illnesses					1.0	1.0	
Yes	10,21±2,77	13,85±2,03	12.25±2.61	12,26±2,81	9,60±3,14	13,38±3,19	71.21±8.52
No	10,62±3,00	13,62±2,36	12,43±3,01	11,09±3,10	8,21±3,08	13,21±2,97	68,62±6,14
Т	-0,683	0,514	-0,315	1,897	2,082	0,243	1,543
P	0,496	0,608	0,754	0,061	0,040*	0,809	0,126
Expressed quality of life							
Bad (1)	9,50±4,04	12,50±2,64	11,25±0,50	9,75±3,50	7,00±0,00	9,25±1,89	59,25±7,45
Middle (2)	10,03±3,45	13,17±2,53	11,34±3,01	11,41±2,86	9,65±3,27	12,37±3,47	67,27±6,83
Good (3)	10,75±2,41	13,91±1,86	12,46±2,41	12,03±3,00	9,21±3,28	13,81±2,60	71,93±7,65
							7400+626
Very good (4)	9,10±2,64	15,30±1,33	14,60±2,91	13,40±2,01	8,40±2,59	14,80±3,45	74,80±6,26
	9,10±2,64 5,823 0,124	15,30±1,33 4,352 0,226	14,60±2,91 12,976 0,005*	13,40±2,01 15,291 0,002*	8,40±2,59 4,788 0,188	14,80±3,45 9,320 0,025*	10,837 0,013*

There is statistically a significant difference between the sensory abilities sub-dimension scores according to the age of the participants (P<0.05) and the sensory abilities sub-dimension scores of the participants aged 85 and over are higher than the participants in the other age ranges. There is a statistically significant difference between the sensory abilities and the autonomy sub-dimension scores according to the educational status of the participants (P<0.05), and the sensory abilities subdimension scores of the participants whose education level is primary school are higher than the participants whose education level is secondary school. The autonomy subdimension scores of the participants whose education level is secondary school are higher than those who are illiterate and primary school. There is a statistically significant difference between the intimacy sub-dimension scores according to the income status of the participants (P<0.05), and the intimacy sub-dimension scores of the participants whose income is less than their expenses are higher than whose income is equal to their expenses. The social participation sub-dimension scores of the participants who have stayed in the institution for 7 years or more were found to be higher than those with a duration of 4-6 years, and the difference is statistically significant (p<0.005). It was observed that the death and dying sub-dimension scores of the participants with a stay in the institution for 4-6 years was higher than the participants with a residence period of 1-3 years, and this was statistically significant (P<0.005). It is seen that the intimacy subdimension scores of the participants who have stayed at the institution for 4-6 years are higher than those who have stayed at the institution for less than 1 year.

It was found that the death and dying subdimension scores of the participants with chronic diseases are higher than the participants without chronic diseases.

It is seen that the autonomy sub-dimension scores and the past, present, and future activities sub-dimension scores of the participants who evaluate their quality of life as good or very good are higher than those who evaluate their quality of life as bad. It was found that the intimacy sub-dimension scores of the participants who evaluate their quality of life as very good are higher than those who evaluate their quality of life as bad. It is seen that the total scores of the quality-of-life scale of the participants who evaluate their quality of life as very good and good are higher than those who evaluate their quality of life as a medium.

Discussion

There was no statistically significant difference between the gender and total quality of life scores of the elderly in our study (p > 0,590). Although men were reported to have a higher quality of life than women in other studies, there no statistical difference was found in this study (17,18).

In our study, the sensory abilities subdimension scores of the participants aged 85 and over are higher than the participants in the other age ranges. Sensory impairment is a common condition that exerts negative effects on the quality of life in the elderly (19) and our study supports this situation.

Lower educational level is associated with unhappiness, poor social relationships, poor self-assessed health, and sensory problems among elderly people (20). Education is an important indicator that may directly or indirectly influence QoL through its association with higher social class. In our study of sensory abilities, sub-dimension scores of the participants whose education level is primary school are higher than the participants whose education level is secondary school. Our result is the same as the other studies.

A decrease in the income status, which is directly related to the quality of life, leads to a decrease in the quality of life in the elderly too. There was a statistically significant difference in the intimacy dimension of the scale between the group with poor income status and the group with equal income and expenses (P< 0.046). Sufficient income has also been found to be strongly associated with quality of life in other studies (21,22,23).

It was observed that the social participation sub-dimension scores significantly were higher for the elderly who had stayed in the nursing home for four years or longer. It is thought that the social ties established with the workers at the nursing home and other elderly people positively affected the score. Similar results were obtained in other studies (21,24,25).

In our study, it was observed that the death and dying sub-dimension scores and intimacy of the participants with a stay in the institution for 4-6 years were higher than the participants with a residence period of 1-3 years, and this was statistically significant (p<0.005). The elderly who stays in nursing homes for a long time witness the death of their friends or other elderly people and are affected by this process. We couldn't find any study to compare with our study for the year of stay in the institution and total score for the sub-dimension of death and dying and intimacy.

It was found in our study that the death and dying sub-dimension scores of the participants with chronic diseases are higher than the participants without chronic diseases. Health status is an important factor directly affecting QoL. Health-related life quality includes the individual's perception of his/her health status, being active in physical, social, and psychological terms. Many studies have similar results with our study (20,26,27).

Generally, total scores of the quality-of-life scale of the participants who evaluate their quality of life as very good and good are higher than those who evaluate their quality of life as medium or bad. When the elderly feel that they have enough income, positive social relationships, less chronic illness, and positive health status to join the activity and have the motivation to do the other individual needs, their quality of life is affected as good (28,29).

When the relationship between the reason for staying at a nursing home and the "Sensory Abilities" dimension was examined, it was observed that the score was higher for those who could not perform personal care on their own. The problem of personal care, which is a leading cause for staying at nursing homes, was seen as a determinant in this study; other studies have also supported these findings (21,25).

Conclusion

The quality of life in elderly people was affected directly by variables such as age, educational level, marital status, social capacity, chronic illnesses, income status, and length of staying in a nursing home. So, we suggest that improving the social activities and facilities of the institution in line with the results obtained in this study may contribute to the improvement of the quality of life and elderly people feel they're in safe and happy.

The limitation of the study was that we applied the study to only this nursing home population, so the results are not reflected the general older population.

Acknowledgement

Hereby, the researchers express their gratitude to the elderly people for their participation in the administration of the survey. Novelty in this study is to explain the older population's quality-of-life that the administration of nursing homes provides to change their social support to the elderly. They can see older people's needs and weak sites in the nursing home and can change according to elderly's needs the yearly program.

References

1. Hoşoğlu TK, Ümmet D. Huzurevinde bulunan yaşlıların yalnızlık algısı ve yaşam kaliteleri arasındaki ilişkinin incelenmesi. MANAS Sosyal Araştırmalar Dergisi. 2021;(10);1; 463-475

2. WHO, Aging, 2019 https://www.who.int/ health-topics/ ageing#tab=tab_1 Accessed date 14.06.2021

3. Soósová MS. Determinants of quality of life in the elderly. Cent Eur J Nurs Midw 2016;7(3):484–493

4. Casanova G, Zaccaria D, Rolandi E, Guaita A. The Effect of Information and communication technology and social networking site use on older people's well-being in relation to loneliness: Review of Experimental Studies J Med Internet Res 2021;23(3): e23588.

5. Alharbi BA, Masud N, Alajlan FA, Alkhanein NI, Alzahrani FT, Almajed ZM, et al. Association of elderly age and chronic illnesses: Role of gender as a risk factor. J Family Med Prim Care. 2020; 9:1684-90.

6. Vanleerberghe P, De Witte N, Claes C, Schalock RL, Verté D. The quality of life of older people aging in place: a literature review. Qual Life Res. 2017 Nov;26(11):2899-2907.

7. WHO definition of health - WHO/Europe, 1948

https://www.euro.who.int/__data/assets/pdf_fil e/0003/152184/RD_Dastein_speech_wellbeing_ 07Oct.pdf 8. Sosnowski, R., Kulpa, M., Ziętalewicz, U., Wolski, J. K., Nowakowski, R., Bakuła, R., et al. Basic issues concerning health-related quality of life. Cent European J Urol. 2017; 70: 206-211

9. Marans R.W, Stimson R. Investigating quality of urban life: 33 theory, methods, and empirical research, social indicators research series 45, DOI 10.1007/978-94-007-1742-8_2, © Springer Science+Business Media B.V. 2011.

10. Post MW. Definitions of quality of life: what has happened and how to move on. Top Spinal Cord Inj Rehabil. 2014;20(3):167-180.

11. Lenardt, M. H., Kolb Carneiro, N. H., Binotto, M. A., Hautsch Willig, M., Lourenço, T. M., Albino, J. Frailty, and quality of life in elderly primary health care users. Revista Brasileira de Enfermagem, 2016; 69(3); 448-453.

12. Schenk, L., Meyer, R., Behr, A. Kuhlmey A, Holzhausen M. Quality of life in nursing homes: results of a qualitative resident survey. *Qual Life Res* 2013: 22:2929–2938.

13. Naumann, VJ, Byrne, Gerard JA. WHOQOL-BREF as a measure of quality of life in older patients with depression. International Psychogeriatrics, 2004;16;2: 159.

14. Boggatz, T. Quality of life in old age–a concept analysis. International journal of older people nursing 2016:11:1;55-69.

15. Eser S. Saatlı G. Eser E. Baydur H. Fidaner C. Yaşlılar için dünya sağlık örgütü yaşam kalitesi modülü whoqol-old: türkiye alan çalışması türkçe sürüm geçerlilik ve güvenilirlik sonuçları. Türk Psikiyatri Dergisi. 2010; 21(1): 37-48

16. Güngen, C. Ertan T. Eker E. Yşar R. Engin F. Standardize mini mental test'in türk toplumunda hafif demans tanısında geçerlik ve güvenirliliği. Türk Psikiyatri Dergisi. 2002;13(14), 273-281.

17. Ceremnych J. Focus group discussions with older adults and carers for development of pilot WHOQOLOLD measure. Acta Medica Lutianica 2003; 10 (3),152-158.

18. Kaya M. Aslan D. Vaizoğlu S. Doruk C. Dokur U. Biçici V.et al. Ankara'da Keçiören ilçesine bağlı bir mahallede yaşayan 65 yaş ve üzeri bireylerin yaşam kalitesi özellikleri ve etkileyen faktörler. Türk Geriatri Dergisi 2008; 11(1),12-17.

19. Kwon H, Kim J, Kim Y, Kwon S, Yu J. Sensory impairment and health-related quality of life. Iran J Public Health, 2015:44(6);772-782

20. Bilgili N, Arpacı F. Quality of life of older adults in Turkey. Archives of Gerontology and Geriatrics 2014:59;415–421.

21. Hsu HC. Gender differences in health-related quality of life among the elderly in Taiwan. Asian Journal of Health and Information Sciences 2007; 1(4), 366-376.

22. Knesebeck OD, Wahrendorf M., Hyde M, Siegrist J. Socio-economic position, and quality of life among older people in 10 European countries: results of the share study. Ageing & Society 2007; 27, 269–284. 28.

23. Paskulin GL, Molzahn A. Quality of life of older adults in Canada and Brazil. Western Journal Nursing Research 2007; 29(1), 10-29.

24. Şahin NE, Emiroğlu ON, Huzurevinde yaşayan yaşlıların yaşam kalitesi ve yaşam kalitesini etkileyen faktörler, Hacettepe Üniversitesi Hemşirelik Fakültesi Dergisi 2014; 57–66

25. Hjaltadottir I, Gustafsdottir M. Quality of life in nursing homes: perception of physically frail elderly residents. Scand J Caring Science 2007; 21, 48–55. 22.

26. Cheung J.C.K, Kwan A.Y.H, Chan, S.S.C, Ngan, R.M.H. Quality of life in older adults: Benefits from caring services in Hong Kong. Social Indicators Research, 2005; 71, 291–334.

27. Paskulin, L.M, Molzahn, A. Quality of life of older adults in Canada and Brazil. Western Journal of Nursing Research, 2007; 29(1), 10–26. 28. Brennan M, Su Y, Horowitz A. Longitudinal associations between dual sensory impairment and everyday competence among older adults. J Rehabil Res Dev, 2006;43(6);777.

29. Cimarolli VR, Jopp DS. Sensory impairments and their associations with functional disability in a sample of the oldest old. Qua Life Res, 2014;1-8.