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# EXAMINATION OF THE RELATIONSHIP BETWEEN PHYSICAL ACTIVITY LEVELS AND LIFE QUALITIES OF TEACHERS WHO TEACH IN SECONDARY EDUCATION INSTITUTIONS

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#### Abstract:

Aim of this research is to compare the relationship between the physical activity levels and quality of life of teachers working in secondary education institutions. A total of 331 secondary school teachers, including 205 men and 126 women from various branches, participated in our study in Batman province and secondary education institutions. The teachers who participated in the research were descriptive such as gender, age range, branch, chronic disease, and what if this disease was present. "International Physical Activity Questionnaire Short Form" for determining information and physical activity levels and "Nottingham Health Profile" questionnaires were applied for their quality of life. The statistical analysis of the data was done by using SPSS 20.0 program, and nonparametric tests such as Kruskal-Wallis, Mann Whitney U Test and Spearman Cholera test were used because the data were not normally distributed. 6.6% of secondary education teachers who participated in the study had a chronic illness, physical activity level according to gender, quality of life according to age groups, physical skill level of special talent teacher compared to other branch teacher and significant differences in quality of life (p < 0.05). There were no significant differences in other parameters and in the relationship between physical activity level and life satisfaction (p>0.05). As a result of the research, it has been concluded that the level of physical activity affects the level of physical activity of the gender and special education teachers and the other branch teachers, the quality of life is affected by the age group, and there is no significant relationship between the level of secondary school teachers' physical activity.

Keywords: quality of life, physical activity level, secondary education, teacher

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#### 1. Introduction

This study was conducted to investigate the association between the physical activity level and the life qualities of teachers who works at the secondary schools in Batman province. For a healthy life, sports is defined as the physical actions including recreational activities and dance, and skeletal muscles' energy comsumption through body movements (Miles, 2007).

This definition includes all body movements from free time activities, all sports branches, daily actions to walking, running and riding a bike (Miles, 2007). Physical activities have a vital role in guarding and improving our health both mentally and physically (World Health Organization, 2002).

Physical activity (PA), takes also an important place in improving our life qualities (Gümüş et al., 2017). At the top ranks of the factors determining the life quality, health condition of the person, PA level, family structure, financial situation, level of education etc. take place (Uzuner, 2016).

Undoubtedly, health has a special importance among these factors. For centuries, research has been carried out to make individuals healthier, delay aging, and stay energetic and positive. It is desired to live a healthy and long life, which we have control of, such as increasing the quality of life, being resistant to negative situations, living in a healthy environment, proper nutrition and being active (Özüdoğru, 2013).

Recently, encouraging and empowering PA policies have been pursued in order to improve quality of life by especially World Health Organization (WHO) (Tekkanat, 2008). It is supposed that in numerous modern societies, sedentary life has become a pattern and many are doing their daily shopping through virtual markets sitting at the computer, which induces serious health problems (Bek, 2008).

We, as a country, need to attach the necessary importance to education in order to survive in this rapidly developing and changing world, maintain a healthy and quality life and to make PA a lifestyle. Undeniably, teachers are one of the most important pillars of our educational system. In order to keep up with the requirements of the age, it is extremely important that our teachers have the necessary equipment and knowledge and be ready both mentally and physically. In order for the teacher to be beneficial to the society, besides having a high level of professional knowledge, it is necessary to be a contemporary person with good morals who is interested in art and sports. The teacher has duties such as being a model for the student and guiding them in reaching the information. At the same time, the teacher must comply with the society's "teacher" perception with his/her lifestyle, clothing, talks, interests and human relations (Acikgöz, 2005). In order for a quality and good education process to take place, there is a need for teachers who are well-trained in every subject, who are not indifferent to current conditions and technological developments, and who are always open to development (Seferoğlu, 2004). Teachers' interests, attitudes, behaviours, needs and values comprise their personal traits. In recent studies, it has been demonstrated that these traits have an extreme influence on the students. Considering how valuable the roles of teachers are,

especially in developing countries, it would be appropriate to emphasize the importance of teachers (Küçükahmet, 1994).

With the developing technology, people do less PA, but sit more. Today, due to the development of computer games, individuals at all levels of society have entered a less active period (Brady, 1998). People need to make PA a lifestyle and stay away from a sedentary life in order to have a healthier life. Along with paying attention to our nutrition and rest, we can lead a lively and fit life thanks to the continuity of PA. In the researches, the idea that the moderate and high level of FA reduces some types of cancer and the risk of death was defended (Miller et al, 1994). Considering all these, it can be easily seen how important FA is and how it affects all segments of the society. For a healthy life, exercise should be an integral part of our daily life. PA and exercise improve quality of life, prolong it, and help us achieve mental health (Çetin, 2010).

# 2. Method

### 2.1 Research Model

In this research, general survey model and descriptive statistics model, which are types of the descriptive research methods, were used. The survey model is known as a research approach that aims to explain an existing situation as it exists (Karasar, 2005).

#### 2.2 Research Sample

The sample of our research consists of 2263 teachers working in secondary schools in Batman province. The sampling of our research is randomly selected 205 male and 126 female teachers working in different branches (Arts, Chemistry, Physical Education and Sports, Biology, Physics, Geography, Information Technologies, Child Development, Religious Culture and Moral Knowledge, Turkish Language and Literature, Philosophy, English, Mathematics, Special Education, Psychological Counseling and Guidance, Music, History) and a total of 331 secondary education institutions participated in the study. Of the teachers participated in the study, 145 are between the ages of 20-30, 147 are between the ages of 31-40, 34 are between the ages of 41-50 and 5 are 50 years old and over.

#### 2.3 Data Colection Tool

For the descriptive information such as gender, age range, branch, chronic disease, if any, what this disease is, and the determination of physical activity levels, the "International Physical Activity Questionnaire Short Form" and for evaluation of the quality of life, the "Nottingham Health Profile" questionnaires were applied to the teachers participating in our research.

# 2.3.1 International Physical Activity Questionnaire Short Form

The international validity and reliability of the questionnaire was evaluated by Craig et al. In 2003, its validity and reliability in our country was made by Karaca and Turnagöl

in 2007. The questionnaire consists of 7 questions and 4 parts. Part 1 contains two questions and the duration of vigorous physical activity that individuals have done within 7 days, part 2 contains two questions and the duration of moderate physical activity that individuals have done within 7 days, part 3 contains two questions and the duration of walking done by the individuals within 7 days and the 4th part consists of a question and the time individuals spend sitting in 7 days (Karaca, Turnagöl 2007). The evaluation of the Questionnaire was made as;

Physical Activity Level = Number of Days x Activity Level Coefficient (MET).

The intense physical activity coefficient is 8 METs, the moderate intensity physical activity level coefficient is 4 METs, the walking coefficient is 3.3 METs, and the sitting coefficient is 1 MET.

### 2.3.2 Nottingham Health profile

It is one of the questionnaires used to determine the quality of life. The questionnaire consists of 7 sub-dimensions and has a total of 45 items. The Pain Sub-Factor consists of 8 questions, the Emotional Reactions Factor consists of 9 questions, the Sleep Sub-Factor consists of 5 questions, the Social Isolation Sub-Factor consists of 5 questions, the Physical Activity Sub-Factor consists of 8 questions, the Energy Sub-Factor consists of 3 questions, and the Part 2 Sub-Factor consists of 7 questions. The questions are formed in double Likert type(Yes/No). . If the participants answer no to each question, they get 0 points, and if they answer yes, they get different points for each question (Küçükdeveci et al. 2000). A maximum of 607 points and a minimum of 0 points can be obtained in the questionnaire. A high score indicates that the individual's quality of life is at a low level, while a low score indicates that the individual's quality of life is at a high level.

# 2.4 Data Analysis

SPSS 20.0 Package Program, which is one of the statistical programs, was used in the analysis of the findings obtained from the research. Teachers' gender, age group, branch, chronic disease status were evaluated as frequency and percentage. Physical activity levels and quality of life of teachers in secondary education institutions participating in the research were analyzed according to gender, age group, chronic disease status, special education branch teacher and other teachers, teachers in the field of social sciences and teachers in the field of science and lastly the relationship between the PA level and the life quality were evaluated.

Before starting the analysis of the data, a normality test was performed, and since the data were not normally distributed, non-parametric tests such as Kruskal-Wallis, Mann Whitney U Test and Spearman Correlation test were used.

#### 3. Findings

Table 1 shows that 61.9% (f=205) of the teachers participating in the research are male, 38.1% (f=126) were women, 43.8% (f=145) of the teachers participating in the study were between the ages of 20-30, 44.4% (f=147) were between the ages of 31-40, 10.3%' (f=34) were between the ages of 41-50 and 1.5% (f=5) were aged 50 and over. When the branch distribution of the teachers participating in the research is examined, it is seen that teachers from 17 different branches participated in the research, 12.4% (f=41) of these branches were physical education and sports teachers, 12.7% (f=42) Turkish language and literature, 9.4% (f=31) Mathematics teachers and at least 0.9% (f=3) special education teachers, (0.9%) Turkish teachers and 1.2% (f=4) Informatics and Ttechnology teachers took place in the study.

		f	%
Gender	Male	205	61.9
	Female	126	38.1
	Total	331	100
Age Group	20-30 Age	145	43.8
	31-40 Age	147	44.4
	41-50 Age	34	10.3
	50+ Age	5	1.5
	Total	331	100
Branch	Physical Education	41	12.4
	Information Technologies	4	1.2
	Biology	23	6.9
	Geography	14	4.2
	Child Development	7	2.1
	Religious Culture and Moral Knowledge	23	6.9
	Turkish Language and Literature	42	12.7
	Philosophy	16	4.8
	Physics	19	5.7
	Arts	19	5.7
	English	16	4.8
	Chemistry	19	5.7
	Math	31	9.4
	Music	11	3.3
	Special Education	3	9
	Psychological Counseling and Guidance	17	5.1
	History	23	6.9
	Total	331	100

**Table 1:** Demographic Characteristics of Teachers Working in Secondary Education Institutions Participating in the Research

Table 2 shows that 93.4% (f=309) of secondary school teachers do not have a chronic disease, and 6.6% (f=22) have a chronic disease.

When we look at the distribution of teachers with chronic diseases, 27.3% (f=6) have asthma, 18.2% (f=4) diabetes, 13.6% (f=3) sleep apnea, 9.1% (f=2) inflammatory disease. Rheumatism, 4.6% (f=1) bronchitis, 4.6% (f=1) hepatitis, 4.6% (f=1) hernia, allergy, 4.6% (f=1) kidney failure, 4.6% (f=1) had pharyngitis and it is seen that 4.6% (f=1) have Mediterranean fever.

		f	%
Do you have any chronic disease?	Yes	22	6.6
	No	309	93.4
	Total	331	100
If yes, what are they?	Asthma	6	27.3
	Diabetes	4	18.2
	Bronchitis	1	4.6
	Sleep Apnea	3	13.6
	Hepatitis	1	4.6
	Hernia of the Loins	1	4.6
	Allergy	1	4.6
	Renal Insufficiency	1	4.6
	Pharyngitis	1	4.6
	Inflammatory Rheumatism	2	9.1
	Mediterranean Fever	1	4.6
	Total	22	100

**Table 2:** Distribution of Teachers Working in Secondary Education Institutions Participating in the Research by Chronic Disease Status

**Table 3:** Comparison of Physical Activity Levels and Quality ofLife of Teachers Working in Secondary Education Institutions Participating in the Research by Gender

	Gender	Ν	X	SS	Z	Р
Physical Activity	Male	205	2146.56	2013.38	-2.594	.009
Grand Total (MET)	Female	126	1706.76	1754.33	-2.394	.009
Quality of Life	Male	205	74.81	93.93	-1.902	.057
Grand Total	Female	126	96.23	101.26	-1.902	.037

P<0.05

In Table 3, physical activity levels and life quality of secondary school teachers by gender were compared. A significant difference was found in physical activity levels by gender (p<0.05). According to this difference, it is seen that the physical activity levels of male teachers are higher than female teachers.

No significant difference was observed in terms of quality of life by gender (p>0.05). Although there is no difference, we can say that the quality of life of male teachers is better than that of female teachers.

In Table 4, physical activity levels and quality of life of teachers working in secondary education institutions were compared according to age groups. Significant differences were found in the quality of life according to age groups (p<0.05). As a result of the post-hoc analysis carried out to determine the difference in the quality of life, it

was seen that the difference was between the ages of 20-30 and 50+, and accordingly, the quality of life of the teachers aged 50+ who participated in the research was higher than the teachers aged 20-30.

		Ν	x	SS	KW	Р	Groups Showing Difference							
Physical Activity	20-30 Age	145	2029.0	1705.98	4.124									
Grand Total (MET)	31-40 Age	147	1924.9	2081.42		249								
	41-50 Age	34	2046.4	2260.90		4.124	.248	.248	.240	.240	.240	.240	.240	-
	50+ Age	5	1668.5	1121.70										
	Total	331	1979.1	1928.07										
Quality of Life	20-30 Age	145	97.58	103.26										
Grand Total	31-40 Age	147	74.17	90.96	0 075	.038	038	029	20-30					
	41-50 Age	34	67.55	95.56	8.825			age> 50Age +						
	50+ Age	5	22.36	29.58										
	Total	331	82.96	97.19										

**Table 4:** Comparison of Physical Activity Levels and Quality of Life of Teachers Working in Secondary Education Institutions Participating in the Research by Age Groups

P<0.05

When the physical activity levels by age groups were examined, no significant difference was observed. Although there is no difference, the group with the highest level of physical activity is 40-50 years old (X=2046.41), while the group with the lowest level of physical activity is aged 50 and over (X=1668.50).

<b>Table 5:</b> Comparison of Physical Activity Levels and Quality of Life of Teachers Working
in Secondary Education Institutions Participating in the Study by Chronic Disease Status

		1		<u> </u>		
		Ν	X	SS	Z	Р
Physical Activity	Yes	22	2593.67	2936.95	681	.496
Grand Total (MET)	No	309	1935.39	1834.66	-,001	.490
Quality of Life	Yes	22	104.85	95.84	-1.913	.056
Grand Total	No	309	81.41	97.25	-1.913	.036

P<0.05

In Table 5, physical activity levels and quality of life of teachers working in secondary education institutions were compared in consideration of their chronic disease status. There was no significant difference in the quality of life of teachers according to their chronic disease status (p>0.05). Although there is no difference, it is seen that the quality of life of teachers without chronic disease is better than teachers with chronic disease.

There was no significant difference in physical activity levels of teachers according to their chronic disease status (p>0.05). Although there is no difference, we can say that the physical activity levels of teachers with chronic diseases are better than those who do not.

In Table 6, no significant difference was found in the physical activity levels of teachers working in secondary education institutions according to their status as teachers

of social sciences and science branches (p>0.05). Although there is no difference, we can say that the physical activity levels of the teachers in the field of social sciences are better than the branch teachers in the field of science.

				1 0	5	
		Ν	X	SS	Z	Р
Physical Activity	Social Sciences	239	1985.47	1868.55		
Grand Total (MET)	Science	92	1962.69	2085.42	462	.644
Quality of Life	Social Sciences	239	85.91	100.21	698	.485
Grand Total	Science	92	75.30	88.92		
B 0.0-						

Table 6: Comparison of Physical Activity Levels and Quality of
Life of Social Sciences and Science Teachers Participating in the Study

P<0,05

When the quality of life of the teachers in secondary education institutions is examined according to their status as teachers of social sciences and branches of science, no significant difference was observed (p>0.05). Although there is no difference, we can say that the quality of life of the teachers in the fields of science is better than the teachers in the field of social sciences.

	Physical Activity	Quality of Life				
of Teachers Working in Secondary	of Teachers Working in Secondary Education Institutions Participating in the Research					
Table 7: The Relationship between Physical Activity Levels and Quality of Life						

		Physical Activity	Quality of Life
		Grand Total (MET)	Grand Total
Dianai and Antinita	r	1	054
Physical Activity Grand Total (MET)	Р		.327
Grand Total (MET)	Ν	331	331
	r	054	1
Quality of Life Grand Total	Р	.327	
Grand Total	Ν	331	331

P<0.05

When the relationship between physical activity levels and quality of life of teachers working in secondary education institutions participating in the research is examined in Table 7, it is seen that there is a negative and weak relationship between physical activity level and quality of life. This level of relationship was not found to be significant (p>0.05).

# 4. Discussion and Result

A total of 215 administrative personnel, 144 women and 71 men, participated in the study in which Özmumcu researched "The Effect of Eating Awareness and Physical Activities on Quality of Life of Administrative Staff of a University Hospital in Isparta Province". While no significant difference was found in the physical activity levels of the administrative staff according to age groups and chronic disease status in the study (p>0.05), significant differences were found in the physical activity levels according to the genders (p<0.05). In our study, a significant difference was found with regard to the gender, but no significant difference was found in relation to the age group and chronic disease status. These findings support our findings (Özmumcu, 2019).

A total of 442 nurses, 61 men and 381 women, participated in Kılınç's master's thesis study in 2018. According to the research findings, while significant differences were found in physical activity levels according to age groups and gender factor (p<0.05), no significant differences were found in physical activity levels according to chronic disease status (p>0.05). While significant differences were observed in our study in terms of the gender factor, no significant differences were observed in physical activity levels in terms of chronic disease status and age groups. Gender and chronic disease factors in this study support our findings (Kılınç, 2018).

80 female and 20 male, in total 100, parents participated in Yıldız's study in which he examined the relationship between the quality of life and physical activity levels of parents with autistic children. In his study, a significant difference was found in physical activity levels according to the gender variable. According to this difference, it was stated that the physical activity levels of men (X=2748.67±3975.63 MET) were higher than that of women (X=1231.63±1285.76 MET). No correlation was found between age and physical activity level (p<0.05). These findings support our findings (Yıldız, 2019).

As a result, in consequence of the research, it was concluded that the physical activity level was affected by gender and being a special education teacher and being a teacher of other branches; similarly, the quality of life was affected by age group, and on the other hand there was no significant relationship between physical activity level of teachers working in secondary education institutions and quality of life.

#### 4.1 Suggestions

As a result of our research, the following suggestions can be made;

- The research sample can be expanded.
- Comparisons can be made with teachers working in other provinces or other educational levels.
- There were 22 people with chronic diseases in our study. By reaching more teachers with chronic diseases, better results can be achieved.
- Physical activity level and quality of life can be investigated with respect to different characteristics such as marital status, work place, province, district, etc.
- In our study, no relationship was found between the physical activity level of teachers working in secondary education institutions and their quality of life. The reason for this can be investigated.

#### **Conflict of Interest Statement**

The authors declare no conflicts of interests.

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