The Examination of Teacher Candidates' Selfishness Levels Regarding Sportive Activity and Different Variables

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Abstract

The aim of this study is to the examination of teacher candidates' selfishness levels regarding sportive activity and different variables the study was conducted on 295 teacher candidates, 109 female and 186 male, who were educated in Erzurum Ataturk University, Kazim Karabekir faculty of education, in 2018-2019 academic year and voluntarily participated in the research. In the study, "The Selfishness Questionnaire: Egocentric, Adaptive, and Pathological Forms of Selfishness " was used which was developed by Adrian and Uh (2018) adapted to Turkish and analyzed for reliability and validity by Yılmaz (2018). Frequency analysis was used to determine demographic characteristics, and T test was used to examine the relationship between two independent variables and selfishness, analysis of variance was used to examine the relationship between more than two variables and selfishness. When the findings of the study were evaluated, it was seen that the pathological selfishness levels of female students were lower than male students. As a result of the findings, it is noticeable that the level of selfishness increases in parallel as the age level increases. The remarkable result here is, the level of selfishness increases in parallel as the time to do sportive activity increases. It is thought that, for students, sporting activity in their daily lives makes possible to increase their interaction with other students and therefore to focus on team or group goals rather than personal goals.

Keywords: Physical education, Teacher candidates, Spotive activity, Selfishness.

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Contribution of this paper to the literature

This study contributes to the existing literature by examining of teacher candidates' selfishness levels regarding sportive activity and different variables.

1. Introduction

The totality of physical activities, which aim at the balanced development of human organism without disrupting its integrity, support the individual's physical, spiritual and intellectual development and aim at raising the individual as a person who is beneficial to the society s/he lives in and him/herself is defined as "physical education" (Açak, 2006). According to Kirchner and Fishburne (1995) physical education is the process of gaining positive behaviors in physical, mental and social terms through muscle activities (Kirchner and Fishburne, 1995). Sports is a "competitive, solidarist and cultural term, that is socializing and that improves the soul and physics, which the individual performs while transforming his/her natural environment into human environment, within the framework of some rules that improve the abilities she gained, either with or without a vehicle, individually or with a group, in his/her free time or in a way that takes all his/her time." (Aracı, 2006). According to another definition, sports is a group of activities that has specific goals and rules, that is associated with technical methods, that meets the needs of pleasure and enthusiasm of the audience as well as those who play, binding viewers and athletes together (Dogan, 2005). The general aim of physical education and sports is to help increase the mobility of each student by providing the education of children with physical activities. It also aims to contribute to children's physical, mental, social and emotional development. In this context, it can be said that physical education is a lifestyle that aims to contribute to the participants' development, knowledge levels, attitudes, movement and motor skills through physical activities and requires continuity in physical context (Demirhan and Altay, 2001).

Selfishness can be defined as acting by considering only one's own wishes and needs, without consideration or care of others and sometimes by disregarding consequences that might be harmful to others (Ronald, 2016). Selfishness is too complex to be explained with a single approach; it is a property that is related to biological features, personality, cognitive and emotional processes, socialization experience, culture and social contexts (Lam, 2012). Insecure bonds created by selfishness, lack of empathy, and reduced self-sacrifice greatly harm the social structure (Gilbert, 2018). A selfishness characteristic that dominates the individual's life is seen by some researchers as a sign of the path that leads to psychopathy and antisocial behavior disorder (Rustin, 2015). There are other authors who relate the source of the socio-economic problems we experience in the world to the increase of our selfishness (Handy, 2002). Those with this viewpoint relate the reason behind the increase in the conflict between countries, hunger and poverty to the increase of selfish personalities (Mintzberg *et al.*, 2002). There are also researchers who think that selfishness is an important epidemic that may even bring an end to the world, because it is not sufficiently emphasized, researched and discussed (Cunningham, 2015). One of the most studied topics on this subject is the studies that seek the relationship between sports and selfish personality (Bayrak *et al.*, 2015; Parlakkhlic and Tazegül, 2016). Despite both its individual and social importance, little research has been done on the personality traits of selfishness, partly due to the absence of an assessment tool (Adrian and Uh, 2018).

2. Method

2.1. Research Model

Descriptive survey model was used in this research. The descriptive survey model is a research model that aims to determine the presence or degree of two or more variables together. It would not be correct to interpret the relationships detected by scanning as a true cause-effect relationship; however, if the situation in one variable is known by providing some clues in that direction, it can yield to useful results in predicting the other (Karasar, 1991).

2.2. Study Group

The study group consisted of 295 students, 109 of which were females and 186 males who were studying at the Kazım Karabekir Education Faculty in Erzurum Ataturk University in the 2018-2019 academic year. The frequency and percentage distributions regarding students' demographic characteristics and their state of performing sports activities are shown in Table 1 and Table 2.

Variable		n	%
Gender	Female	109	36.9
Gender	Male	186	63.1
	Under the age of 20	112	38.0
Age	Between 21-23 Years Old	143	48.5
	Above the age of 24	40	13.6
	Nuclear Family	200	67.8
Family Structure	Extended Family	80	27.1
	Broken Family	15	5.1
Total		295	100.0

Table-1. The distribution of the demographic characteristics of individuals participating in the research.

Variable		n	%
De serve de ser esté sité se?	Yes	262	88.8
Do you do sports activities?	No	33	11.2
	Individual	119	40.3
What himd of an anti- activity do not do 3	Team Sport	115	39.0
What kind of sports activity do you do?	Both of them	28	9.5
	I do not.	33	11.2
	2 years and below	47	15.9
	Between 3-4 years	116	39.3
How many years have you been doing sports?	5 years and above	99	33.6
	I do not.	33	11.2
	Social activity	150	50.8
	Occupation	31	10.5
What is your aim of doing sports activities?	Health	53	18.0
	Economic	28	9.5
	I do not.	33	11.2
Total		295	100.0

Table-2. The sports activity status of individuals participating in the research.

2.3. Data Collection Tools

In the study, a form with two sections was used as data collection tool. The first part consists of the personal information form developed in order to determine the gender, age, family structures, state of performing sports activities, types, duration and objectives of the of sports activities performed by students. In the second part, there is the Selfishness Scale, which is adapted to Turkish by Yılmaz (2018) and the validity and reliability analyses of which are made, is developed by Adrian and Uh (2018) and consists of three sub-dimensions being "Adaptive, Egocentric and Pathological Selfishness".

2.4. Data Collection

The students were given detailed information about the purpose and filling of the data collection tool before the data collection tool was distributed. The research was conducted in a classroom environment and the data collection tool was distributed only to those who want to fill in the questionnaire based on the principle of voluntary participation.

2.5. Data Analysis

SPSS 25 packaged software was used in data analysis. Before proceeding to the analysis of the data obtained within the scope of the research, it was determined whether the data showed a normal distribution by examining the skewness and kurtosis coefficients. When the skewness and kurtosis coefficients are analyzed, it is seen that the data set within the limits (-1.5 and +1.5) specified by Tabachnick and Fidell (2015) has a normal distribution Table 3. In the analysis of the data, frequency distribution was used in determining demographic characteristics, T test (Independent Sample t test) was used in order to examine the differentiation between two independent variables and the variable of selfishness and Anova Variance analysis tests were used in order to examine the differentiation between the variables was interpreted on the basis of p.0.05 significance level.

Table-3.Normality distribution test results.							
Variable	Adaptive Selfishness	Egocentric Selfishness	Pathological Selfishness	Selfishness Level			
N	295	295	295	295			
Mean	9.93	9.78	8,09	27.80			
Median	10.00	9.00	8.00	26.00			
Mode	8.00	8.00	7.00	20.00			
Std. Deviation	2.80	2.94	2,34	7.19			
Variance	7.82	8.62	5,48	51.70			
Skewness	.420	.683	.602	.614			
Std. Error of Skewness	.142	.142	.142	.142			
Kurtosis	840	369	473	569			
Std. Error of Kurtosis	.283	.283	.283	.283			
Range	11.00	12.00	10.00	29.00			
Minimum	6.00	6.00	5.00	17.00			
Maximum	17.00	18.00	15.00	46.00			

3. Findings

In this section, this study statistically analyzes and comments of the data obtained as a result of the application of the data collection tool (Selfishness Scale).

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Table-4. The results of the independent group t test conducted to determine whether the scores of selfishness sub-dimensions differ according to the gender variable of the students.

Selfishness Scale Sub-Dimensions	Gender	n	х	s	t	р
Adaptive Selfishness	Female	109	9.60	2.85	-1.567	.118
Adaptive Semsiness	Male 186		10.12	2.75	-1.307	.118
Egocentric Selfishness	Female	109	9.53	3.08	-1.150	.251
Egocentric Semsiness	Male	186	9.93	2.84	-1.150	.201
Pathological Selfishness	Female	109	7.68	2.29	-2.315	.021
i attological Semisiness	Male	186	8.33	2.35	-2.313	.021

In Table 4, after the t test analysis between students' gender and selfishness scale sub-dimension scores. it was determined that there was a significant difference in the pathological sub-dimension at p < .050 level.(t = -2.315, p > .021). In the pathological sub-dimension. it is observed that the female students' pathological selfishness levels are lower than that of male students. In other sub-dimensions. no significant difference was found in terms of the gender variable.

Table-5. The results of the one-way variance analysis (Anova) test conducted to determine whether the scores of the selfishness scale subdimensions differ according to the age variable of the students.

Selfishness Scale Sub-Dimensions	AGE	n	X	s	f	р
	Under the age of 20	112	9.77	2.81		
Adaptive Selfishness	Between 21-23	143	9.80	2.82	2.404	.092
Adaptive Semismess	Above the age of 24	40	10.83	2.54	2.404	.092
	Total	295	9.93	2.80		
	Under the age of 20	112	9.87	2.97		
Egocentric Selfishness	Between 21-23 143 9.60 2.85		2.85	.673	.511	
Egocentric Semsimess	Above the age of 24	40	10.18	3.19	.075	.911
	Total	295	9.78	2.93		
	Under the age of 20	112	7.84	2.29		
	Between 21-23	143	8.01	2.22	0.070	.095
Pathological Selfishness	Above the age of 24	40	8.78	2.80	2.376	.095
	Total	295	8.09	2.34		

In Table 5, after the one-way analysis of variance (Anova / Tukey) test conducted to compare the selfishness sub-dimension levels of students at different age levels. it was determined that there was no difference in p < .050 level.

Table-6. The results of the one-way variance analysis (Anova) test conducted to determine whether the scores of the selfishness scale subdimensions differ according to the family structure variable of the students.

Selfishness Scale Sub-Dimensions	Family Structure	n	х	s	f	р	Difference
	Nuclear family (1)	200	9.69	2.81			
Adaptive Selfishness	Extended Family (2)	80	10.16	2.66	4.72	.010	1 < 3
Adaptive Semsiness	Broken Family (3)	15	11.87	2.67	4.72	.010	1 < 5
	Total	295	9.93	2.80			
	Nuclear family (1)	200	9.45	2.86			
Egocontria Salfiahnaga	Extended Family (2)	80	10.40	3.01	<i>e</i> 00	.039	1 < 3
Egocentric Selfishness	Broken Family (3)	15	10.80	2.93	3.99	.039	1 < 3
	Total	295	9.78	2.94			
	Nuclear family (1)	200	7.92	2.30			
Pathological Solfishnoog	Extended Family (2)	80	8.44	2.42	1.60	.202	
Pathological Selfishness	Broken Family (3)	15	8.47	2.39	1.00	.202	
	Total	295	8.08	2.34			

In Table 6, after the one-way analysis of variance (Anova / Tukey) test conducted to compare the selfishness sub-dimension levels of students with different family structures. it was determined that there was a difference in the sub-dimensions of adaptive selfishness and egocentric selfishness at the level of p <050. It is observed that the selfishness levels of the students in the nuclear family structure in these dimensions with significant differences are lower than the students in the fragmented family structure.

Table-7. The results of the independent group t test conducted to determine whether the scores of selfishness sub-dimensions differ according to the gender variable of the students' performing sports activity.

Selfishness Scale Sub-Dimensions	Do you do sports activities?	n	х	s	t	р
A dontivo Solfishnoog	Yes	262	9.90	2.77	353	.725
Adaptive Selfishness	No	33	10.01	3.03	393	.725
Egocentric Selfishness	Yes	262	9.69	2.86	-1.530	.127
	No	33	10.52	3.43	-1.550	.127
Pathological Selfishness	Yes	262	8.11	2.33	.544	.587
Patnological Selfisnness	No	33	7.88	2.42	.944	.587

It was determined that there was no significant difference in p < .050 level after the t test analysis conducted between the students' state of doing sports activities and the selfishness scale sub-dimension scores.

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Table-8. The results of the one-way variance analysis (Anova) test conducted to determine whether the scores of the selfishness scale su	ub-
dimensions differ according to the variable of the type of the sports activity that the students have been performing.	

Selfishness Scale Sub-Dimensions	Sports Activity Type	n	x	s	f	р	Difference
	Individual (1)	119	9.71	2.86		-	
Adaptive SelfishnessIndividual (1)Adaptive SelfishnessIndividual (1)Team Sport (2)Both of Them (3)Egocentric SelfishnessIndividual (1)Team Sport (2)Both of Them (3)Both of Them (3)TotalIndividual (1)Team Sport (2)Pathological SelfishnessBoth of Them (3)Both of Them (3)Sport (2)Both of Them (3)Sport (2)Sport (2)Sport (2)Sport (2)Sport (2)Sport (2)Sport (2)Sport (2)Sport (2)Sport (3)Sport (3) </td <td>Team Sport (2)</td> <td>115</td> <td>9.80</td> <td>2.63</td> <td>0 ror</td> <td>.025</td> <td>3>1</td>	Team Sport (2)	115	9.80	2.63	0 ror	.025	3>1
Adaptive Semsnness	Both of Them (3)	28	11.21	2.70	3.585	.040	3>2
	Total	262	9.91	2.77			
	Individual (1)	119	9.75	3.03			
	Team Sport (2)	115	9.46	2.76	1 1 7 7	017	
Egocentric Semsnness	Both of Them (3)	28	10.36	2.50	1.155	.317	
	Total	adividual (1)119 9.71 2.8 eam Sport (2)115 9.80 2.6 oth of Them (3) 28 11.21 2.7 otal 262 9.91 2.7 dividual (1) 119 9.75 3.6 eam Sport (2) 115 9.46 2.7 oth of Them (3) 28 10.36 2.8 otal 262 9.69 2.8 oth of Them (3) 28 10.36 2.8 otal 262 9.69 2.8 otal 28 8.96 2.8	2.86				
	Individual (1)	119	8.14	2.50			
Dethels sized Self demonst	Team Sport (2)	115	7.88	1.97	0.400	000	
Pathological Selfishness	Both of Them (3)	28	8.96	2.82	2.480	.086	••••
	Total	262	8.11	2.33			

In Table 8, after the one-way analysis of variance (Anova / Tukey) test conducted to compare the sports activity type that the students have been performing and their selfishness sub-dimension levels. a significant difference was found at p < .050 level. in the adaptive selfishness sub-dimension. It is observed that the adaptive selfishness level of the students who do both sports together is higher than that of students who do only individual and team sports. In other sub-dimensions. no significant difference was found in terms of the sports activity type variable.

dimensions differ according to the variable of the duration of the sports activity that the students have been performing.							
Selfishness Scale Sub Dimensions	- Sports Activity Duration	n	x	s	f	р	Difference
	2 years and below (1)	47	8.85	2.57			
Adaptive Selfishness	Between $3-4$ years (2)	116	9.76	2.75	6.844	.001	1 < 3
Adaptive Semsiness	5 years and above (3)	99	10.59	973	0.844	.001	1 < 5

262

47

116

99

262

47

116

99

262

9.90

8.89

9.49

10.29

9.69

7.04

8.16

8.57

8.11

Total

Total

Total

Egocentric Selfishness

Pathological Selfishness

2 years and below (1)

Between 3-4 years (2)

5 years and above (3)

2 years and below (1)

Between 3-4 years (2)

5 years and above (3)

2.77

1.98

2.85

3.12

2.86

1.77

2.16

2.60

2.33

4.407

7.151

.015

.001

1 < 3

1 < 3

Table-9. The results of the one-way variance analysis (Anova) test conducted to determine whether the scores of the selfishness scale sub-

In Table 9, after the one-way analysis of variance (Anova / Tukey) test conducted to compare students' duration of doing sports activities and selfishness sub-dimension levels. it was determined that there was a difference in all dimensions at p <. 050 level. It is observed that the selfishness levels of students who performed sports activities for 5 years or more are higher than those who performed sports activities for 2 years or less. Another remarkable result is the observation of the result that the level of selfishness increases in parallel with the duration of doing sports activities.

Table-10. The results of the one-way variance analysis (Anova) test conducted to determine whether the scores of the selfishness scale subdimensions differ according to the variable of the goal of the sports activity that the students have been performing.

Selfishness Scale Sub- Dimensions	Goal of the Sports Activity	n	x	s	f	Р	Difference
Adaptive Selfishness	Social activity (1)	150	9.65	2.77	2.096	.101	
	Occupation (2)	31	9.58	2.51			
	Health (3)	53	10.69	2.93			
	Economic (4)	28	10.14	2.59			
	Total	262	9.91	2.77			
Egocentric Selfishness	Social activity (1)	150	9.41	2.89	3.446	.015	1 < 3
	Occupation (2)	31	9.16	2.46			
	Health (3)	53	10.77	2.68			
	Economic (4)	28	9.68	3.06			
	Total	262	9.68	2.86			
Pathological Selfishness	Social activity (1)	150	8.03	2.29	1.255	.290	
	Occupation (2)	31	7.58	2.01			
	Health (3)	53	8.41	2.46			
	Economic (4)	28	8.57	2.62			
	Total	262	8.11	2.33			

In Table 10, after the one-way analysis of variance (Anova / Tukey) test conducted to compare students' goal of doing sports activities and selfishness sub-dimension levels. it was determined that there was a difference at the egocentric sub-dimension at p < .050 level. In the egocentric sub-dimension, it is observed that the selfishness level of the students who do sports activities for social activity purposes is lower than that of those who do sports activities for health purposes. In other sub-dimensions, no significant difference was found in terms of the sports activity goal variable.

4. Conclusion

When the findings of the study were evaluated, it was determined that there was a significant difference in the gender and pathological sub-dimension of the students and female students' pathological selfishness levels were found to be lower than that of male students. In the literature, in the study conducted by Seguino *et al.* (1996) to investigate students' tendency to benefit from public goods without paying a fee (free rider), it was concluded that gender may affect the tendency to be selfish. In the study conducted by Duda (1989) on university and high school athletes performing individual and team sports, it was stated that men are more ego oriented than women. Unlike the results of the study, it was stated that gender did not have any effect on selfishness in the study conducted by Armç (2019) on university students.

It was determined that there was a significant difference between the family structures of the students participating in the study and the total scores of adaptive selfishness, egocentric selfishness and selfishness. The selfishness levels of the students in the nuclear family structure in these dimensions with significant differences were found to be lower than the students in the broken family structure. In the family, which is the first social unit where people share their griefs and joys, the parties cannot use their time, labor and interests only for themselves. With this aspect, it is an institution that socializes the person and steers him/her away from being selfish (Erkal, 1993).

When the status of performing sports activities is analyzed, it is observed that the selfishness level of the students who perform a low level of sports activity is lower than that of the students who do not perform sports activities. Again, it is observed that there is a significant difference in the type of the sports activity that the students have been performing and the sub-dimension of adaptive selfishness, and that the adaptive selfishness levels of students who perform both sports are only higher than that of those who perform only individual or team sports.

In the literature, in the study conducted by Porcerelli and Sandler (1995) it was found that self-indulgence levels of weightlifting and bodybuilding athletes using steroids were higher than those who did not use steroids. The fact that the athlete has high life satisfaction may reveal his desire to maintain his skill and to be superior to other athletes. Therefore, high satisfaction with life brings along being a star athlete and recognition (Papaioannou, 1994; Toros and Yetim, 2000). This situation can be explained by the fact that the selfishness levels of the individuals who do both sports are higher than that of the students who perform only individual or team sports.

When the questionnaire results are analyzed, considering students' duration of performing sports activities in all dimensions, it is observed that the selfishness levels of students who have performed sports activities for 5 years or more are higher than that of students who have performed sports activities for 2 years or less. Another remarkable result is the observation of the result that the level of selfishness increases in parallel with the duration of doing sports activities. As a matter of fact, in many studies, it has been found that self-interested individuals attach importance to their appearance (Emmons, 1984; Jackson *et al.*, 1992; Davis *et al.*, 2001). Also in a study conducted by Davis (1992) it was stated that narcissistic individuals focused on their body appearance and used exercise as a tool for their visuality. That students who have been performing sports for 5 years or more have a proportionate and well-developed physique may be seen as one of the biggest factors behind their excessively developed selfishness levels.

When physical education and sports are considered as activities performed both individually and as a team and accordingly, in the light of the fact that it positively affects the social and spiritual development of the person or people, it is thought that if students perform sports activities and start seeing it as a part of their lives, they will be less affected by different forms of selfishness. Atar (2017) emphasized the importance of the relationship between the benefits of physical education lesson to the student and the weekly number and duration of the applications. This view supports the conclusion that students who perform low levels of sports activity have lower selfishness levels than students who do not perform sports activities. However, according to the findings obtained at the end of the study, the conclusion that the level of selfishness increases in parallel with the duration of doing sports activity, contradicts this view.

That physical education and sports are performed voluntarily and tastefully is one of the important points in achieving the goals of physical education and sports. When the findings obtained in the study are interpreted, that individuals who work to succeed and are focused on their goal in physical education and sports are individualized and have higher selfishness levels for the sake of achieving their goals can be considered as a natural result. Based on the conclusion that the selfishness level of the students performing sports activities for the purpose of social activity is lower than that of the students performing sports activities for health purposes, that students perform physical activities in their social environments is considered important in terms of enabling an increase in the interaction between them and accordingly their serving team interests rather than personal interests.

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