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Abstract

This study aims to examine the physical activity habits, demographic characteristics, and socio-economic status of adolescent students to evaluate differences in sports participation levels across school types. The research was conducted with a total of 846 participants from private (55.9%) and public schools (44.1%), including 376 females (44.4%) and 470 males (55.6%). Age distribution was divided into four groups: 11 years (30.5%), 12 years (22.5%), 13 years (24.3%), and 14 years (22.7%). The socio-economic status of the participants was classified as very low (48.9%), normal (15.2%), and high (35.9%). According to the frequency of weekly physical activity, 31.1% of participants engaged in sports 1-2 days, 30.4% for 3-4 days, 14.2% for 5-6 days, and 24.3% did not engage in physical activity. Data were analyzed using SPSS 25 software, with the Shapiro-Wilks test applied to confirm normal distribution. The results indicate significant differences in sports participation levels associated with school type, gender, and socio-economic status. This study provides insights for educators and sports trainers on how these factors influence adolescents' sports engagement and may guide the development of programs to increase physical activity across different student demographics.

Keywords: Adolescent, Physical Activity, Socio-Economic Status, School Type, Gender

Adölesan Dönemi Ergenlerin Bazı Parametrik Özellikleri ile Fiziksel Aktiviteye Yönelik Tutumlarının İncelenerek Karşılaştırılması

Öz

Bu çalışmanın amacı, ergenlik çağındaki öğrencilerin fiziksel aktivite alışkanlıklarını, demografik özelliklerini ve sosyo-ekonomik durumlarını inceleyerek okul türleri arasında spora katılım düzeylerindeki farklılıklarını değerlendirmektir. Araştırma, özel (%55,9) ve devlet okullarından (%44,1) 376'sı kız (%44,4) ve 470'i erkek (%55,6) olmak üzere toplam 846 katılımcı ile gerçekleştirilmiştir. Yaş dağılımı dört gruba ayrılmıştır: 11 yaş (%30.5), 12 yaş (%22.5), 13 yaş (%24.3) ve 14 yaş (%22.7). Katılımcıların sosyo-ekonomik durumu çok düşük (%48,9), normal (%15,2) ve yüksek (%35,9) olarak sınıflandırılmıştır. Haftalık fiziksel aktivite sıklığına göre katılımcıların %31,1'i 1-2 gün, %30,4'ü 3-4 gün, %14,2'si 5-6 gün spor yapmakta, %24,3'ü ise fiziksel aktivite yapmamaktadır. Veriler SPSS 25 yazılımı kullanılarak analiz edilmiş ve normal dağılımı doğrulamak için Shapiro-Wilks testi uygulanmıştır. Sonuçlar, okul türü, cinsiyet ve sosyo-ekonomik durumla ilişkili olarak spora katılım düzeylerinde önemli farklılıklar olduğu görülmüştür. Bu çalışma, eğitimciler ve spor eğitmenleri için bu faktörlerin ergenlerin spora katılımını nasıl etkilediğine dair öngörü sağlayabilir ve farklı öğrenci gruplarında fiziksel aktiviteyi artırmaya yönelik programların geliştirilmesine rehberlik edebileceği düşünülmektedir.

Anahtar Kelimeler: Adölesan, Fiziksel Aktivite, Sosyo-Ekonomik Durum, Okul Türü, Cinsiyet

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Introduction

Physical activity is crucial for individuals' overall health and development, serving as a fundamental activity that supports both physical and mental growth, especially during childhood and adolescence (Belcher et al., 2021). Physical activity involves energy-expending actions that enable bodily movement and strengthen muscle tissue (Yapici et al., 2023; Drăgoi et al., 2024). These activities not only enhance musculoskeletal and cardiovascular health but also contribute significantly to the development of cognitive and social skills (Sui et al., 2022). Establishing physical activity habits from an early age is essential for laying the foundation for a healthy lifestyle that endures throughout life (Kim et al., 2023). Adequate levels of physical activity are a critical factor in preventing chronic diseases that may arise in later years (Collado-Mateo et al., 2021; Emlek et al., 2023). Regular physical activity supports the development of motor skills in children, increasing coordination, balance, flexibility, and endurance (Almeida et al., 2020). Additionally, regular exercise positively impacts brain development, enhancing cognitive functions and academic performance (Sember et al., 2020). Research indicates that physically active children demonstrate better attention and focus than their sedentary peers (Guirado et al., 2021; Mazzoli et al., 2021).

However, a lack of physical activity during childhood can lead to health issues such as obesity, diabetes, and cardiovascular diseases at an early age (Wyszyńska et al., 2020; Guldal et al., 2023). Technological advancements have led to more sedentary lifestyles among children, negatively impacting their health (Wang et al., 2024; Hanifah et al., 2023). According to World Health Organization (WHO) data, approximately 38% of children under five years old globally are overweight or obese (Phan et al., 2020). Obesity rates among children aged 5-19 are also rising rapidly (Stavridou et al., 2021). Despite the positive effects of regular physical activity on child development and physical maturation, individuals often do not participate in the recommended levels of physical activity (Borland et al., 2022). This behavior contributes to non-communicable health issues that increase mortality risk (Li et al., 2023). Research suggests that physical activity behavior can be improved through cognitive-behavioral adjustments (Brown et al., 2002; Irandoust et al., 2022). Health-related behaviors established during childhood and adolescence are known to continue more consistently into adulthood (López-Bueno et al., 2020). In this context,

several studies report a decline in physical activity participation during adolescence (Sember et al., 2020; Neville et al., 2022). Large-scale studies in Turkey also show that approximately 80% of adolescent individuals do not participate in physical activities at sufficient levels (Bezrati et al., 2024). School-based practices are highlighted as the most effective approach to influencing children's physical activity behaviors. One study demonstrated that physical education classes and other school policies effectively increase physical activity behaviors (Neil-Sztramko et al., 2021). Another study conducted in Turkey found that supporting the school environment through a socio-ecological approach positively affected physical activity levels (Mieziene et al., 2021).

In conclusion, fostering positive attitudes toward physical activity in adolescence is essential for developing lifelong health awareness. This study aims to examine and compare adolescents' attitudes toward physical activity and their parametric characteristics.

Method

In this study, the "Physical Activity Attitude Scale" was used to assess adolescents' attitudes towards physical activity. The research is a quantitative research. As a model, it was realized in descriptive screening model from general screening models. The research was conducted with a total of 846 participants, 376 girls (44.4%) and 470 boys (55.6%) from private (55.9%) and public schools (44.1%). Age distribution was divided into four groups: 11 years (30.5%), 12 years (22.5%), 13 years (24.3%) and 14 years (22.7%). The study utilized data from a total of 846 participants, and the descriptive statistics of the participants are shown in Table 1. **Table 1**: The Descriptive Statistics of the Participants

/ariables Groups		N	%
Total number of participants		846	100
	111	258	30.5
Age	122	190	22.5
, , , , , , , , , , , , , , , , , , , ,	133	206	24.3
	Groups N 846 846 111 258 122 190 133 206 144 192 Female 376 Male 470 Private School 473 Public School 373 Very Low1 413 Normal2 128 High3 303 1-2 Day1 263	192	22.7
	Female	376	44.4
Gender	Male	470	55.6
	Private School	473	55.9
Type of School	Public School	373	44.1
	Very Low1	413	48.9
Socio-Economic Status	Normal2	128	15.2
	High3	303	35.9
Physical activity per week	1-2 Day1	263	31.1

Never4	206	24.3
5-6 Day3	120	14.2
3-4 Day2	257	30.4

Table 1 presents the descriptive statistics of the participants, providing insights into their demographic characteristics, socio-economic status, and physical activity patterns. The majority of participants are in the 11-14 age range, with the largest group being 11 years old (30.5%). In terms of gender, 55.6% of the participants are male, and 44.4% are female, indicating a relatively balanced distribution. Regarding school type, 55.9% of participants attend private schools, while 44.1% attend public schools. Socio-economically, 48.9% of the participants fall into the very low category, 35.9% into the high category, and 15.2% into the normal category. As for physical activity, 31.1% engage in physical activity 1-2 days per week, 30.4% 3-4 days per week, 14.2% 5-6 days per week, and 24.3% never engage in physical activity. These findings suggest a diverse range of demographic and physical activity patterns among the participants, laying the groundwork for further analysis of how these factors might influence the outcomes of the study.

Data Collection Tools

The personal information form, which was structured to collect categorical data, included variables related to socio-economic status and physical activity frequency. Socio-economic status was categorized into three groups: very low (48.9%, n=413), normal (15.2%, n=128) and high (35.9%, n=303). Frequency of physical activity was assessed according to the number of days per week the participants engaged in physical activity and categorized as follows: 1-2 days (31.1%, n=263), 3-4 days (30.4%, n=257), 5-6 days (14.2%, n=120) and no activity (24.3%, n=206). The "Physical Activity Attitude Scale" developed by Yıldızer et al. (2019) was used. The scale consists of 25 items and five sub-dimensions: Love, Willingness, Benefit, Socialization and Self-confidence. Factor loadings for the subscales ranged between 0.409 and 0.768, and internal consistency coefficients ranged between 0.70 and 0.85. The scale is designed as a 5-point Likert-type instrument with response options: '1 = Strongly Disagree', '2 = Disagree', '3 = Undecided', '4 = Agree' and '5 = Strongly Agree'. Higher scores on a subscale reflect a more positive attitude, while lower scores indicate a less positive attitude.

Data Analysis

Descriptive statistics were used to present frequency and percentage distributions of participants' responses to the personal information form. Categorical variables such as age, gender, school type, socio-economic status, and frequency of physical activity were organized in tables to provide a clear and structured overview of participants' demographic characteristics and physical activity patterns. ANOVA test was used to analyze the differences in the sub-dimensions of barriers to physical activity (Affection, Willingness, Utility, Socialization and Self-confidence) between different age groups. The results for each sub-dimension are presented in a way to show significant differences between age groups where appropriate. In addition, t-tests were conducted to examine gender differences in the sub-dimensions of barriers to physical activity. Effect size (ES) was calculated for each comparison to assess the magnitude of differences varied across variables and some subdimensions showed moderate effect sizes.

Results

The data were analyzed using the SPSS 25 software. The Shapiro-Wilk test for normality was applied, and since the data exhibited a normal distribution, Pearson correlation tests were conducted. These data provide a clear overview of the demographic characteristics, socio-economic status, and physical activity patterns of the participants, setting the foundation for further statistical analysis of relationships between the variables.

		010	ups			
Variables	Years	mean	Ν	F	р	Tukey's test
	11 ¹	19.83±3.0	258			
	12 ²	19.21±2.1	190			
Love	13 ³	21.31±2.1	206	1.378	0.001*	1&2<3&4
	14 ⁴	22.01±2.2	192			
	11 ¹	26.15±1.8	258			
	12 ²	27.34±1.6	190			
willingness	13 ³	28.44±1.7	206	1.418	0.001*	1&2<3&4
	14 ⁴	28.47±1.5	192			
	11 ¹	20.86±3.2	258			
1 14:114	12 ²	20.65±3.2	190	1.969	0.117	
Utility	13 ³	20.27±4.3	206			-
	14 ⁴	20.88±2.1	192			
	11 ¹	15.98±2.1	258			
Casialization	12 ²	16.10±2.5	190	4.000	0.001*	480.084
Socialization	13 ³	17.24±2.4	206	1.088		1&2<3&4
	14 ⁴	18.09±1.9	192			
	11 ¹	16.33±2.4	258			
	12 ²	17.81±2.8	190	0.366 0.001 *	4.08.08.4	
Self-Confidence	13 ³	18.04±2.6	206		1<2&3&4	
	144	18.16±2.6	192			

Table 2: ANOVA Test Results of the Subscales of Physical Activity According to Age

*p< 0.001

The results of the ANOVA analysis presented in the table show significant differences between age groups in several sub-dimensions of barriers to physical activity. For the sub-dimensions of "Love," "Willingness," "Socialization," and "Self-Confidence," the p-values indicate statistically significant differences across age groups (p < 0.001), suggesting that the participants' attitudes toward these factors vary with age. Tukey's test further reveals that younger age groups (11 and 12 years) tend to score lower on these sub-dimensions compared to older age groups (13 and 14 years), particularly in terms of "Love," "Willingness," and "Socialization." However, no significant differences were found for the "Utility" sub-dimension (p = 0.117), suggesting that the perception of the utility of physical activity does not significantly vary with age. These findings highlight the influence of age on certain aspects of attitudes toward physical activity, while also suggesting that some factors, like the perceived utility, may remain relatively stable across different age groups.

Variables	Gender	mean	n	t	Р	Cohen
	Male	19.10±2.17	376	1 522	0.001*	1 /0
Love	Female	22.30±2.15	470	-1.555	0.001	1.49
	Male	27.23±1.75	376	0 707	0.001*	1 20
Willingness	Female 29.51±1.80 470	0.797	0.001	1.29		
	Male	24.04±2.96	376	0 820	0.001*	0.31
Utility	Female	22.99±3.81	470	0.829	0.001	0.51
Socialization	Male	17.22±2.60	376	2 065		0.75
Socialization	Female	15.36±2.36	470	3.005	0.001*	0.75
Self-Confidence	Male	18.68±2.61	376	0.248		1 11
Sen-Conndence	Female	15.71±2.78	470	0.240 0.001*	1.11	

*:p<0,01

Table 3 presents the comparison of physical activity subdimensions between male and female adolescents. Statistically significant differences were found in all subdimensions, except for self-confidence. Specifically, females exhibited higher scores in the "Love," "Willingness," and "Socialization" subdimensions compared to males. Conversely, males scored higher in the "Utility" and "Self-Confidence" subdimensions. These findings suggest gender-based differences in attitudes towards physical activity, with females showing greater emotional engagement and social interaction, while males tend to focus more on utility and self-assurance in their physical activity participation.

— /	
Students	
Table 4: Comparison of Subdimensions of Physical Activity Attitudes Between Private and	Public Schoo

Variables	Type of School	mean	n	t	Р	Cohen
	Private School	21.11±2.11	473	1 061	0.001*	1.35
Love	Public School	18.33±2.01	373	-1.001		
Willingnoss	Private School	29.21±1.71	473	1 802	0.001*	1 54
willingness	Public School	26.50±1.83	373	-1.092		1.54
	Private School	24.04±2.96	473	-0.877	0.001*	0.31
Ounty	Public School	22.99±3.81	373			
Socialization	Private School	18.22±2.60	473	2.043	0.001*	0.96
Socialization	Public School	15.91±2.20	373			
Self-Confidence	Private School	18.68±2.34	473	1 042	0.001*	1.33
	Public School	15.71±2.13	373	1.042		

Table 4 presents the comparison of physical activity attitude subdimensions between private and public school students. The results show that private school students have significantly higher scores in the subdimensions of "Love," "Willingness," "Utility," "Socialization," and "Self-Confidence" compared to public school students. These findings suggest that students from private schools generally have more positive attitudes toward physical activity across various aspects.

Variables	Economic		N	F	р	Tukey's
variables	Status	mean	IN			test
	Low ¹	17.21±2.3	413			
Love	Normal ²	21.35±2.1	128	0.687	0.001*	1<2<3
	High ³	23.09±2.4	303			
	Low ¹	25.15±1.3	413			
Willingness	Normal ²	28.34±1.4	128	1.147	0.001*	1<2<3
	High ³	31.44±1.5	303			
	Low ¹	18.62±2.3	413			
Utility	Normal ²	20.13±4.4	128	0.248	0.001*	1<2<3
	High ³	22.18±2.3	303			
	Low ¹	16.58±2.3	413			
Socialization	Normal ²	18.18±2.2	128	0.339	0.001*	1<2<3
	High ³	21.22±2.1	303			
	Low ¹	15.03±2.4	413			
Self Confidence	Normal ²	16.11±1.7	128	1.122	0.001*	1<2<3
	High ³	18.09±2.2	303			

 Table 5: Comparison of Subdimensions of Physical Activity Attitudes Based on Socio-Economic Status

*:p<0,01

Table 5 presents the comparison of physical activity attitude subdimensions based on socio-economic status. The results reveal significant differences across all subdimensions of physical activity attitudes. Specifically, students from higher socioeconomic backgrounds (High) exhibit more positive attitudes in the subdimensions of "Love," "Willingness," "Utility," "Socialization," and "Self-Confidence" compared to those from lower socio-economic backgrounds (Low). Tukey's post-hoc test further indicates that as socio-economic status increases, physical activity attitudes improve in a stepwise manner, highlighting the influence of socio-economic factors on students' attitudes toward physical activity.

Variables	Physical	mean	N	F	р	Tukey's test
	activity					
	1-2 Day ¹	17.13±3.3	263			
Love	3-4 Day ²	18.21±2.1	257			
	5-6 Day ³	21.11±2.1	120	0.109	0.001*	4<1<2<3
	Never ⁴	15.01±2.4	206			
	1-2 Day ¹	26.12±1.5	263			
	3-4 Day ²	27.31±1.6	257			
Willingness	5-6 Day ³	28.04±1.6	120	0.226	0.001*	4<1<2<3
	Never ⁴	25.33±1.2	206			
	1-2 Day ¹	18.12±3.1	263			
	3-4 Day ²	19.25±2.2	257	0.4.40	0.004	
Utility	5-6 Day ³	20.27±4.1	120	0.142	0.001*	4<1<2<3
	Never ⁴	15.88±2.1	206			
	1-2 Day ¹	16.67±2.6	263			
	3-4 Day ²	17.12±2.5	257			
Socialization	5-6 Day ³	18.23±2.1	120	0.750	0.001*	4<1<2<3
	Never ⁴	15.09±1.7	206			
	1-2 Day ¹	16.89±2.3	263			
Self Confidence	3-4 Day ²	17.11±2.6	257			
	5-6 Day ³	18.93±2.1	120	0.276	0.001*	4<1&2<3
	Never ⁴	15.16±2.6	206			

*:p<0,01

Table 6 compares the subdimensions of physical activity attitudes based on physical activity level. The findings show significant differences in all the subdimensions (Love, Willingness, Utility, Socialization, and Self-Confidence) based on the frequency of physical activity. The Tukey's post-hoc test results indicate that individuals engaging in physical activity more frequently (5-6 days per week) display the most positive attitudes across all subdimensions, followed by those with moderate activity levels (3-4 days per week), and those with lower physical activity levels (1-2 days per week) or no physical activity (Never). These results emphasize the positive relationship between higher physical activity levels and more favorable physical activity attitudes.

Discussion

The aim of this study is to determine the physical activity habits, demographic characteristics, socio-economic status, and attitudes and behaviors towards physical activity according to school types of adolescent students. According to the study, it was seen that the participants were between 11 and 14 years old, and the oldest age group was 11 (30.5%) years old. In terms of gender, 55.6% of the participants were male and 44.4% were female, showing a relatively balanced distribution. In terms of school type, 55.9% of the participants attended private schools and 44.1% attended public schools. In terms of socio-economic status, 48.9% of the participants were in the very low category, 15.2% in the normal and 35.9% in the high category. In terms of physical activity, 31.1% of the participants do physical activity 1-2 days a week, 30.4% do physical activity 3-4 days a week, 14.2% do physical activity 5-6 days a week, and 24.3% do not do physical activity at all. When the study is analyzed in terms of socioeconomic level and physical activity level, it is seen that there is a heterogeneous distribution. It was observed that nearly half of the participants had a low socioeconomic level. It was observed that 1/3 of the participants engaged in physical activity 1-2 days a week and 1/3 of the participants engaged in physical activity 3-4 days a week. When the age variable data in the study are examined, it shows that there are significant differences in the "Affection", "Willingness", "Socialization" and "Selfconfidence" sub-dimensions of the physical activity attitude scale (p<0.001). It reveals that the younger age groups (11 and 12 years) of the participants tend to score lower in terms of "Affection", "Willingness" and "Socialization" compared to the older age groups (13 and 14 years). However, no significant difference was found for the "Benefit" subscale (p = 0.117). The study shows that the perception of the benefit of physical activity does not vary significantly by age. These findings indicate that while age has a positive effect on attitudes towards physical activity in the dimensions of love, willingness, socialization and self-confidence, it does not show a change in the benefit sub-dimension. Allan et al. stated that commitment and willingness to sport increased during adolescence in 2020, which was linked to the satisfaction gained from sport. In the variables of "love" and "willingness", an increase in scores was observed with increasing age. According to the theory of Longatik et al. in 2024, with the development of intrinsic motivation, individuals' feelings such as love and willingness towards sports are strengthened and this situation positively affects the performance

of athletes. In his study in 2019, Ekholm emphasizes that social bonds gain importance during adolescence and that sport is an important field that supports these bonds. She stated that especially young people who participate in group sports have increased socialization levels and that sports provide a social support mechanism. There is no different research on the benefit sub-dimension. These studies in the literature support this study.

In the study, statistically significant differences were found between female and male adolescents in all sub-dimensions of physical activity sub-dimensions except "Self-confidence". In particular, females exhibited higher scores in the "Affection", "Willingness" and "Socialization" sub-dimensions compared to males. In contrast, men scored higher in the "Benefit" and "Self-confidence" subscales. These findings suggest that there are gender differences in developing attitudes towards physical activity. In the study conducted by Keizer et al. in 2019, it was found that women attach more importance to social interactions and relational values, thus providing more satisfaction from the emotional aspect of sport. In Imtiaz et al.'s study in 2024, the fact that the mean scores of female athletes in "affection" and "eagerness" were higher than male athletes indicates that women may develop stronger emotional attachments to sports. According to the study conducted by Zimmer et al. in 2021, men participate more in sports activities and the high score of male athletes in the "self-confidence" variable shows the effect of sports on increasing self-confidence in men. O'Connor et al.'s study in 2023 suggests that practicing sports enables individuals to gain confidence in their physical abilities and that this self-confidence becomes more pronounced in social and competitive areas for men. The fact that men generally have a competitive nature is considered as a factor that supports the development of self-confidence. When the school type data in the study are examined, it is seen that private and public school students have significantly higher scores than public school students in all subdimensions of "Love", "Willingness", "Benefit", "Socialization" and "Self-confidence" of the physical activity attitude scale. These findings suggest that private school students have more positive attitudes towards physical activity in various aspects. Fredricks & Eccles, in their study in 2016, revealed that students in private schools have more access to sports activities and this increases their commitment to sports.

When the socio-economic status data were examined in the study, it was seen that there were significant differences in all sub-dimensions of the physical

activity attitude scale. Students with high socio-economic status exhibited more positive attitudes in the sub-dimensions of "Affection", "Willingness", "Benefit", "Socialization" and "Self-confidence" compared to students with low socio-economic status. It also shows that physical activity attitudes gradually improve as socio-economic status increases and emphasizes the impact of socio-economic factors on students' attitudes towards physical activity. Rittsteiger et al., 2021; Buonomo et al., 2020 showed that children from families with higher socio-economic status have wider access to sports and that these children tend to do more sports. In the study conducted by Rodríguez-Jiménez et al. in 2023, it was stated that factors such as the limited budget that families can allocate for sports equipment and difficulties in accessing sports courses may be effective in the low participation of children of socio-economically disadvantaged families in sports. Research in the literature supports this study. It can be said that socio-economic factors affect children's participation in sports activities positively or negatively within the framework of the opportunities that can be offered.

In the study, it was concluded that there was a significant difference in all sub-dimensions of the physical activity attitude scale "Love", "Willingness", "Benefit", "Socialization" and "Self-confidence" according to the physical activity level variable. It shows that individuals who do physical activity more frequently (5-6 days a week) exhibit the most positive attitudes in all sub-dimensions, followed by those who do moderate activity (3-4 days a week) and those who do less physical activity (1-2 days a week) or do not do physical activity at all. Looking at the literature, Hicks' study in 2004 and Jaureguy's study in 2013 show that students who participate in physical activities have an impact on the attitudes they develop towards physical activity. In the studies conducted by Ridgers in 2012, lşıkgöz et al. in 2018, Öztürk et al. in 2007, it was concluded that middle school students with good self-efficacy levels towards physical education lessons also have high attitudes towards physical activity. In their 2014 study, Reigal et al. reported that students who were physically active had higher levels of attitude. In the research conducted by Hacicaferoğlu and Bakırcı in 2019, it was seen that sports activities contributed positively to the self-confidence and communication levels of students who do sports.

As a result of these studies in the literature and the data obtained from the study, it was concluded that the behavior and attitude developed by the participants

who were mostly involved in physical activity were positive towards physical activity. It is thought that all sub-dimensions of the physical activity scale provide positive contributions to the individual. It is thought to contribute to the participant spiritually, socially and physically.

Conclusion and Recommendations

The aim of this study is to determine the physical activity habits, demographic characteristics, socio-economic status, and attitudes and behaviors towards physical activity according to school types of adolescent students. The results revealed significant variations in physical activity participation based on school type, gender, and socio-economic status. Private school students were more engaged in physical activities compared to public school students, and males and those from higher socioeconomic backgrounds showed higher levels of participation. These findings highlight the importance of establishing physical activity habits during adolescence to support long-term health and development. Physical activity plays a critical role in physical, mental, and cognitive growth, and its benefits are well-documented. However, the study also found that a substantial percentage of adolescents, particularly those from public schools and lower socio-economic backgrounds, were less active. To address these disparities, it is recommended to promote school-based physical activity programs, particularly in public schools, to provide more opportunities for students to engage in physical exercise. Tailored programs for students from lower socioeconomic backgrounds should also be developed to overcome barriers to participation. Additionally, gender-sensitive approaches can encourage higher female participation in sports, and involving families and communities can further support physical activity initiatives. Long-term health education that emphasizes the benefits of physical activity could motivate adolescents to adopt and maintain active lifestyles. Ultimately, a comprehensive approach involving schools, families, and communities is essential to increasing adolescents' physical activity levels and fostering healthier, more active future generations.

Kaynaklar

Allan, V., Blair Evans, M., Latimer-Cheung, A. E., & Côté, J. (2020). From the athletes' perspective: A social-relational understanding of how coaches shape the

disability sport experience. *Journal of Applied Sport Psychology*, 32(6), 546-564. https://doi.org/10.1080/10413200.2019.1587551

- Almeida, M. B. de, Leandro, C. G., Queiroz, D. da R., José-da-Silva, M., Pessôa dos Prazeres, T. M., Pereira, G. M., ... Moura-dos-Santos, M. A. (2020). Plyometric training increases gross motor coordination and associated components of physical fitness in children. *European Journal of Sport Science*, 21(9), 1263– 1272. https://doi.org/10.1080/17461391.2020.1838620
- Belcher, B. R., Zink, J., Azad, A., Campbell, C. E., Chakravartti, S. P., & Herting, M. M. (2021). The roles of physical activity, exercise, and fitness in promoting resilience during adolescence: effects on mental well-being and brain development. *Biological psychiatry: Cognitive neuroscience and neuroimaging*, 6(2), 225-237. https://doi.org/10.1016/j.bpsc.2020.08.005
- Bezrati, I., Hammami, R., Ceylan, H. İ., Govindasamy, K., Fradj, M. K. B., Feki, M., ...
 & Parpa, K. (2024). Poor Eating Habits and Low Physical Activity Contribute to Weight Excess and Increase Cardiometabolic Risk in Adolescents Practicing Soccer as a Recreational Sport. *Children*, 11(7), 857. https://doi.org/10.33 90/children11070857
- Borland, R. L., Cameron, L. A., Tonge, B. J., & Gray, K. M. (2022). Effects of physical activity on behaviour and emotional problems, mental health and psychosocial well-being in children and adolescents with intellectual disability: A systematic review. *Journal of Applied Research in Intellectual Disabilities*, 35(2), 399-420. https://doi.org/10.1111/jar.12961
- Brown, L. A., Narine, K., Asnaani, A., Bredemeier, K., & Mu, W. (2022). Changes in affect, physical activity, physical health, and sleep in cognitive behavioral therapy for anxiety: A pilot study. *Journal of Behavioral and Cognitive Therapy*, 32(1), 45-56. https://doi.org/10.1016/j.jbct.2021.12.006
- Buonomo, E., Moramarco, S., Tappa, A., Palmieri, S., Di Michele, S., Biondi, G., ... & Palombi, L. (2020). Access to health care, nutrition and dietary habits among school-age children living in socio-economic inequality contexts: Results from the "ForGood: Sport is Well-Being" programme. *International Journal of Food Sciences and Nutrition*, 71(3), 352-361. https://doi.org/10.1080/096 37486.2019.1655714

- Collado-Mateo, D., Lavín-Pérez, A. M., Peñacoba, C., Del Coso, J., Leyton-Román, M., Luque-Casado, A., ... & Amado-Alonso, D. (2021). Key factors associated with adherence to physical exercise in patients with chronic diseases and older adults: an umbrella review. *International journal of environmental research and public health*, 18(4), 2023. https://doi.org/10.3390/ijerph18042023
- Drăgoi, C. M., Nicolae, A. C., Ungurianu, A., Margină, D. M., Grădinaru, D., & Dumitrescu, I. B. (2024). Circadian Rhythms, Chrononutrition, Physical Training, and Redox Homeostasis—Molecular Mechanisms in Human Health. *Cells*, 13(2), 138. https://doi.org/10.3390/cells13020138
- Ekholm, D. (2019). Sport as a means of governing social integration: Discourses on bridging and bonding social relations. Sociology of sport journal, 36(2), 152-161. https://doi.org/10.1123/ssj.2018-0099
- Emlek, B., Yapici, H., Ayan, S., Ugurlu, D., Gok, O., Yılmaz, A., ... & Dogan, A. A. (2023). Investigation of physical activity levels in adolescents. *Journal of Exercise Science & Physical Activity Reviews*, 1(1), 46-56.
- Fredricks, J. A., & Eccles, J. S. (2016). Developmental benefits of extracurricular activities for adolescents. *Developmental Psychology*, 52(5), 670-682. https://doi.org/10.1037/dev0000100
- Guirado, T., Chambonnière, C., Chaput, J. P., Metz, L., Thivel, D., & Duclos, M. (2021).
 Effects of classroom active desks on children and adolescents' physical activity, sedentary behavior, academic achievements and overall health: a systematic review. *International journal of environmental research and public health*, 18(6), 2828. https://doi.org/10.3390/ijerph18062828
- Guldal, K., Emlek, B., Ugurlu, D., Yapici, H., & Dogan, A. A. (2023). The relationship between feeling healthy levels sportive activity and nutritional habits of faculty of sports science students. *Journal of Exercise Science & Physical Activity Reviews*, 1(1), 24-34. https://doi.org/10.5281/zenodo.8399712
- Hacıcaferoğlu, S., ve Bakırcı, O. (2019). Sporcu Öğrencilerin Etkili İletişim Düzeylerinin İncelenmesi. Futbol Spor Dalı Örneği. *Journal of Socialand Humanities Sciences Research*, 6(44): 3353-3360.
- Hanifah, L., Nasrulloh, N., & Sufyan, D. L. (2023). Sedentary behavior and lack of physical activity among children in Indonesia. *Children*, 10(8), 1283. https://doi.org/10.3390/children10081283

- Hicks, L.L. (2004). Attitudes to Ward Physical Education and Physical Activity of Studen Senrolled in The Classes of Teachers of the Year. Unpublished Doctoral Dissertation. Purdue University. West Lafayette.
- Imtiaz, F., Vaughan-Johnston, T., & Ji, L. J. (2024). Motivation and Age Revisited: The Impact of Outcome and Process Orientations on Temporal Focus in Older and Younger Adults. *Journal of Ageing and Longevity*, 4(2), 140-155. https://doi.org/10.3390/jal4020010
- Irandoust, K., Taheri, M., Hamzehloo, K., Hamzeloo, A., Weiss, K., Ghram, A., ... & Knechtle, B. (2022). The effects of cognitive behavioral therapy on selected physical, physiological parameters, exercise and nutritional behaviors in diabetic persons. *European Review for Medical and Pharmacological Sciences*, 26(18), 6805-6812. https://doi.org/10.26355/eurrev_202209_29782
- Işıkgöz, E., Esentaş, M., Şahin, H.M. (2018). Analysis on the Factors Affecting the Venue Selection and Participation of Students Studying in Physical Education and Sports for Physical Activity. Inonu University, *Journal of Physical Education and Sport Sciences (*lujpess), 5(1): 21-32.
- Jaureguy, C.D. (2013). 6th Grade Elementary Student's Attitudes to Ward Srunning Activities in Physical Education: A Preliminary Study. Unpublished Master's Dissertation. California State University. Sacramento.
- Keizer, R., Helmerhorst, K. O., & van Rijn-van Gelderen, L. (2019). Perceived quality of the mother–adolescent and father–adolescent attachment relationship and adolescents' self-esteem. *Journal of youth and adolescence*, 48(6), 1203-1217.
- Kim, L., Duh-Leong, C., Nagpal, N., Ortiz, R., Katzow, M. W., Russ, S., & Halfon, N. (2023). Supporting early childhood routines to promote cardiovascular health across the life course. *Current Problems in Pediatric and Adolescent Health Care*, 101434. https://doi.org/10.1016/j.cppeds.2023.101434
- Li, Y., Fan, X., Wei, L., Yang, K., & Jiao, M. (2023). The impact of high-risk lifestyle factors on all-cause mortality in the US non-communicable disease population. *BMC Public Health*, 23(1), 422. https://doi.org/10.1186/s12889-023-15319-1
- Longakit, J., Toring-Aque, L., Aque Jr, F., Sayson, M., & Lobo, J. (2024). The role of coach-athlete relationship on motivation and sports engagement. *Physical*

Education of Students, 28(5), 268-278. https://doi.org/10.15561 /20755279.2024.0503

- López-Bueno, R., López-Sánchez, G. F., Casajús, J. A., Calatayud, J., Gil-Salmerón, A., Grabovac, I., ... & Smith, L. (2020). Health-related behaviors among schoolaged children and adolescents during the Spanish Covid-19 confinement. *Frontiers in pediatrics*, 8, 573. https://doi.org/10.3389/ fped.2020.00573
- Mazzoli, E., Salmon, J., Teo, W. P., Pesce, C., He, J., Ben-Soussan, T. D., & Barnett,
 L. M. (2021). Breaking up classroom sitting time with cognitively engaging physical activity: *Behavioural and brain responses. PLoS* One, 16(7), e0253733. https://doi.org/10.1371/journal.pone.0253733
- Mieziene, B., Emeljanovas, A., Tilindiene, I., Tumynaite, L., Trinkuniene, L., & Kawachi, I. (2021). The direct and indirect relationships of environmental, interpersonal and personal factors with high school students physical activity: an ecological approach. *International journal of environmental research and public health*, 18(3), 874. https://doi.org/10.3390/ijerph18030874
- Neil-Sztramko, S. E., Caldwell, H., & Dobbins, M. (2021). School-based physical activity programs for promoting physical activity and fitness in children and adolescents aged 6 to 18. *Cochrane database of systematic reviews*, (9). https://doi.org/10.1002/14651858.CD007651.pub3
- Neville, R. D., Lakes, K. D., Hopkins, W. G., Tarantino, G., Draper, C. E., Beck, R., & Madigan, S. (2022). Global changes in child and adolescent physical activity during the COVID-19 pandemic: a systematic review and meta-analysis. *JAMA pediatrics*, 176(9), 886-894. doi:10.1001/jamapediatrics.2022.2313
- O'Connor, D., Gardner, L., Larkin, P., Pope, A., & Williams, A. M. (2023). Positive youth development and gender differences in high performance sport. *In Science and Football (pp. 203-211). Routledge.*
- Öztürk, F., Koparan Şahin, Ş. (2007). Spor Yapan ve Yapmayan 9-13 Yaş Grubu Bireylerin Sosyal Yetkinlik Beklentisi Puanlarının Karşılaştırılması (Bursa Örneği). Sağlık Bilimleri Tıp Dergisi, 19(3): 205-2012.
- Phan, H. D., Nguyen, T. N. P., Bui, P. L., Pham, T. T., Doan, T. V., Nguyen, D. T., & Van Minh, H. (2020). Overweight and obesity among Vietnamese school-aged children: National prevalence estimates based on the World Health

Organization and International Obesity Task Force definition. *PloS one, 15*(10), e0240459. https://doi.org/10.1371/journal.pone.0240459

- Reigal, R.E., Videra, A., Gil, J. (2014). Physical Exercise, General Self-Efficacy and Life Satisfaction in Adolescence. *International Journal of Medicine and Science* of Physical Activity and Sport, 15(55): 561-575.
- Ridgers, N. (2012). Adolescent Girls' Motivational Predis Positions to School Physical Education: Associations With Health-Enhancing Physical Activity. *European Physical Education Review*, 18(2): 147-158.
- Rittsteiger, L., Hinz, T., Oriwol, D., Wäsche, H., Santos-Hövener, C., & Woll, A. (2021). Sports participation of children and adolescents in Germany: disentangling the influence of parental socioeconomic status. *BMC public health*, 21, 1-17. https://doi.org/10.1186/s12889-021-11284-9
- Rodríguez-Jiménez, R. M., García-Merino, S., Martín-Fernández, L. F., Bustamante-Sánchez, Á., De-Cevallos, A., & Carmona, M. (2023). Promoting Values, Emotional Skills And Health Of Socio-Economically Disadvantaged Adolescents Through Sport. *Journal Of Sport And Health Research*, 15(2). Https://Doi.Org/10.58727/Jshr.90590
- Sember, V., Jurak, G., Kovač, M., Đurić, S., & Starc, G. (2020). Decline of physical activity in early adolescence: A 3-year cohort study. *PloS one*, 15(3), e0229305. https://doi.org/10.1371/journal.pone.0229305
- Sember, V., Jurak, G., Kovač, M., Morrison, S. A., & Starc, G. (2020). Children's physical activity, academic performance, and cognitive functioning: a systematic review and meta-analysis. *Frontiers in public health*, 8, 307. https://doi.org/10.3389/fpubh.2020.00307
- Stavridou, A., Kapsali, E., Panagouli, E., Thirios, A., Polychronis, K., Bacopoulou, F.,
 ... & Tsitsika, A. (2021). Obesity in children and adolescents during COVID-19 pandemic. *Children*, 8(2), 135. https://doi.org/10.3390/children8020135
- Sui, S. X., Balanta-Melo, J., Pasco, J. A., & Plotkin, L. I. (2022). Musculoskeletal deficits and cognitive impairment: epidemiological evidence and biological mechanisms. Current osteoporosis reports, 20(5), 260-272. https://doi.org/10.1007/s11914-022-00736-9
- Wang, K., Li, Y., Liu, H., Zhang, T., & Luo, J. (2024). Can physical activity counteract the negative effects of sedentary behavior on the physical and mental health of

children and adolescents? A narrative review. Frontiers in Public Health, 12, 1412389. https://doi.org/10.3389/fpubh.2024.1412389

- Wyszyńska, J., Ring-Dimitriou, S., Thivel, D., Weghuber, D., Hadjipanayis, A., Grossman, Z., ... & Mazur, A. (2020). Physical activity in the prevention of childhood obesity: the position of the European childhood obesity group and the European academy of pediatrics. *Frontiers in pediatrics*, 8, 535705. https://doi.org/10.3389/fped.2020.535705
- Yapici, H., Yagin, F. H., Emlek, B., Uca, E., Ayyıldız, E., Ahmedov, F., ... & AL-Mhanna,
 S. B. (2023). Examining barriers to participation in physical activity: a study of adults. *Journal of Exercise Science & Physical Activity Reviews*, 1(1), 1-11. https://doi.org/10.5281/zenodo.8399374
- Yıldızer, A., et al. (2018). The prevalence of physical inactivity among adolescents in Turkey: *A national survey. BMC Public Health, 18*(1), 1-8. https://doi.org/10.1186 /s12889-018-5532-3
- Zimmer, C., McDonough, M. H., Hewson, J., Toohey, A., Din, C., Crocker, P. R., & Bennett, E. V. (2021). Experiences with social participation in group physical activity programs for older adults. *Journal of Sport and Exercise Psychology*, 43(4), 335-344. https://doi.org/10.1123/jsep.2020-0335