THE INVESTIGATION OF THE RELATIONSHIP BETWEEN PSYCHOLOGICAL RESILIENCE LEVELS AND ANXIETY LEVELS OF JUDO ATHLETES

ABSTRACT
The aim of this study is to examine the relationship between gender, age, educational status of the athletes dealing with judo sports, how they have been dealing with this sport for years, parental education level, income level of the family and psychological resistance and anxiety levels. The working group of the study constituted 64 athletes in the Judo National Team. In the study, Personal Information Form, Adolescent Psychological Resistance Scale, Beck Anxiety Inventory was used. In the study, Mann-Whitney U-test, Kruskal-Wallis H-test, Pearson Product Moment Correlation Coefficient and Spearman's Rank Correlation Coefficient were applied. The result of the study showed that the psychological resistance levels of the athletes showed a significant difference according to the genders, the psychological resistance levels were significantly correlated with their ages, the psychological resistance levels had no meaningful relationship with the delivery orders, the psychological resistance levels of the athletes, There was no statistically significant difference between parental education levels and income levels. In addition, it was found that there is a significant and negative relationship between the level of psychological resistance of an athlete and anxiety levels.

Keywords: Psychological resistance, anxiety, judo

JUDO SPORCLARININ PSİKOLOJİK DAYANIKLILIK DÜZEYLERİ İLE KAYGI DÜZEYLERİ ARASINDAKİ İLİŞKİNİN İNCELENMESİ

ÖZ

Anahtar Kelimeler: Psikolojik dayanıklılık, kaygı, judo

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INTRODUCTION

Perfection at the physical level is not enough to improve the performance of the spore alone. The psychological capacity of the athlete is at least as important as the physical aspect. For this reason that the athletes can not achieve the expected success despite being physically ready. Besides the physical capacity of many top athletes; it is revealed that psychological dimension should be ignored in order to increase the performance when it is taken into account that psychology has many competences such as motivation, focus, aim setting, and management of anxiety.

One of the most important reasons why many athletes can not perform at expected performance in the stressed and competitive conditions is the level of anxiety, a psychological determinant of the athlete. The root of the anxiety word is the ancient Greek "Anxietes", which means worry, fear, curiosity. Anxiety is defined as a sense of anxiety, which is unspecified as it would have been a bad news, a disaster. The concept, was first used by Cicero, and entered the field of psychology in the first half of the century, and the first research and studies in this area were made at the end of the 1940s. Spielberger et al. (1970) define anxiety as "anxiety about an objective threat". Anxiety is, in general, a versatile inner feature of psychological, physiological and behavioral reactions or events.

Individuals’ stressful and anxious reactions to life and strategies to cope with these situations vary. It seems that some individuals are more successful than others in confronting and overcoming stressful situations while they are facing and using better coping strategies. On the other hand, some individuals feel so weak in the face of these negative experiences and live various psychological troubles and physical disorders. It is explained by the concept of "psychological resistance" that individuals can get rid of negative experiences and quickly return to their former situation.

Psychological resistance is derived from the Latin word "resiliens", meaning that a material is flexible, elastic and can easily be restored to its original state. Garmezy (1993); has considered the concept of psychological resistance as the power to return to the old state after the individual has faced any stress situation. Luthar, Cicchetti and Becker (2000); have identified the resistance as a dynamic process in which individuals demonstrate healthy compliance despite severe difficulties or trauma lives. Resistance does not only refer to personality traits; moreover, it aims to specify the process of healthy adaptation in the event of risk, which arises as a result of individual factors, environmental factors, or mutual interaction of the two.

Kobasa, Maddi and Kahn (1982) stated that psychologically stable individuals have three characteristics. First, durable individuals depend on life; that is, they tend to deal with their daily activities. Moreover, durable individuals believe that change is normal from stagnation, and they enjoy fighting. In this respect, the barriers of life offer opportunities to increase one's ability and self-knowledge. Finally, psychological resistance requires the ability to control life conditions. The belief that a person can directly affect the fate of life and the feeling of autonomy provide these components.

It is known that psychologically resistant individuals are more likely to approach stressful situations more positively. Individuals with this characteristic view stressful situations not as threats to well-being but as opportunities for growth and development. They also use more proactive coping strategies and are therefore more reactive to stressful life events. The ability to recover after stressful experiences is also faster and more effective.
In psychological resistance studies, factors that are effective in the development of psychological resistance have been tried to be identified and put forward and these factors are called “protective factors”. Protective factors define conditions that reduce or eliminate the effects of risk or difficulty, promote healthy adaptation, and improve individual competence. For example, Benard (1991) mentioned four factors related to psychological resistance: social competence, problem solving skills, autonomy, purpose and future perception. Wright and Masten (2005) mentioned family and community-related variables such as positive family climate, education, socio-economic advantages, social activities, responsible friends, effective health and care services as well as individual factors. When it is examined in the literature, it is seen that sport and physical activity increase the physical and psychological resistance in coping with stress, as well as supporting protective factors that are effective in the development of psychological resistance. When it is examined in the literature, it is seen that sport and physical activity increase the physical and psychological resistance in coping with stress, as well as supporting protective factors that are effective in the development of psychological resistance. Gilligan (1999) stated that social and cultural activities as well as sporting activities are very important in the development of psychological resistance in young people.

METHOD

Research Model
The research is a relational screening model based on volunteerism aiming to examine the relationship between anxiety and psychological resistance levels of athletes interested in judo sports.

Research Group
The universe of the research consists of 64 (32 girls, 32 boys) athletes in the Judo National Team who have ages ranging from 16-18. In the study, the universe has been reached.

Data Collecting Tool

In the research, the personal information form by the researcher was prepared by examining the related field text. Information on the gender, age, educational status, how many years they have been working with this sport, parental education level and income level of the parents have been collected by using the Personal Information Form. The "Psychological Resistance Scale" developed by Bulut, Dogan and Altundağ (2013) was used to determine the psychological resistance levels of the athletes. Beck, Epstein, Brown and Beck Anxiety Inventory developed by Ster (1988) and originally named "Beck Anxiety Inventory" was used.
Adolescent Resilience Scale
The scale is a measurement tool developed by Bulut, Doğan, Altundag (2013) to measure the psychological resistance levels of adolescents and based on the principle of giving information about the individual. The scale consisted of six dimensions including family support (7 items), peer support (5 items), school support (5 items), compliance (4 items), struggle ambition (5 items) and empathy (3 items). The highest score that can be obtained from the scale is 116 and the lowest score is 29. The high score from each subscale of the scale indicates that the individual has the relevant psychological resilience. The scale also gives the total adult psychological resistance score. Rising scores indicate a high level of adult psychological resistance. Scores 10, 11, 14, 15, 16, 17, 22, and 23 are scored inversely. For the answer, the most appropriate option for the teenagers is for me.

Beck Anxiety Inventory
In the Beck Anxiety Inventory, the items related to the physiological indications of distress are the majority. The scale is a likert type measure that measures signs of autonomic nervous system, motor tension, general anxiety, panic symptoms, anxious mood, and general anxiety symptoms. For each item, the score is given in the range of "0" to "3", the inventory consisting of "Never", "Mild grade", "Mid grade" and "Serious grade". The score range is 0-63. The height of the total points on the scale indicates the severity of the individual's loss (Beck et al., 1988). In addition, the Beck Anxiety Inventory was found to be stronger than the Statefulness and Trait Anxiety Inventory (Fydrich et al., 1992). The validity and reliability study of this scale was made by Ulusoy in 1993 and adapted to Turkish.

Analysis of the Data
Data from data collection tools were analyzed using SPSS 20.00 for Windows package program. The normal distribution of the variables is tested by the Kolmogorov-Smirnov Test. α=0.05 was selected for significance level. As the analysis method; Mann-Whitney U Test for binary comparisons, Pearson Product Moment Correlation Coefficient and Spearman's Rank Correlation Coefficient were used to determine the direction and level of the relationship with Kruskal-Wallis H-Test for multiple comparisons.

FINDINGS
Table 1. Comparison of Judo National Team Scores According to Their Genders from the Psychological Resistance Scale

<table>
<thead>
<tr>
<th>Gender</th>
<th>N</th>
<th>Median (Min-Mak)</th>
<th>Order Av.</th>
<th>U</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychological Resistance</td>
<td>Woman</td>
<td>32</td>
<td>89 (62-108)</td>
<td>38.75</td>
<td>312.000</td>
</tr>
<tr>
<td></td>
<td>Man</td>
<td>32</td>
<td>82 (70-101)</td>
<td>26.25</td>
<td></td>
</tr>
</tbody>
</table>

As shown in Table 1, the scores of the Judo National Team players on the psychological resistance scale show a significant difference according to gender.
Considering the average of the rankings, it is seen that the level of psychological resistance of female students is higher than that of male students.

Table 2. Judo National Team Relevance of Scores Received from Psychological Resistance Scale to Age*

<table>
<thead>
<tr>
<th>Psychological Resistance</th>
<th>Age</th>
<th>Correlation (r)</th>
<th>Significance (p)</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>-.444(**)</td>
<td>.000</td>
<td>64</td>
</tr>
</tbody>
</table>

As shown in Table 2, a statistically significant relationship was found between psychological resistance and age (r = -.444, p < 0.01). This relationship appears to be significant and negative between psychological resistance and age.

Table 3. Judo Umit National Team's Relation to Birth Rank of Scores Received from Psychological Resistance Scale*

<table>
<thead>
<tr>
<th>Psychological Resistance</th>
<th>Birth Order</th>
<th>Correlation (r)</th>
<th>Significance (p)</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>-.019</td>
<td>.884</td>
<td>64</td>
</tr>
</tbody>
</table>

As shown in Table 3, no statistically significant relationship was found between the psychological resistance levels of the players in Judo National Team and the birth orders (r = -.019, p = 0.884).

Table 4. Comparison of the scores of the Judo National Team players from the Psychological Resistance Scale compared to the Year of Judo Play*

<table>
<thead>
<tr>
<th>Year of Judo Play</th>
<th>N</th>
<th>Median (Min-Mak)</th>
<th>Order Av.</th>
<th>Sd.</th>
<th>X²</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychological Resistance</td>
<td>1-3 yıl</td>
<td>6</td>
<td>101 (80-102)</td>
<td>43.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-5 yıl</td>
<td>28</td>
<td>84 (62-108)</td>
<td>34.86</td>
<td>3</td>
<td>5.29</td>
</tr>
<tr>
<td></td>
<td>5-7 yıl</td>
<td>16</td>
<td>86 (71-96)</td>
<td>31.38</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7-9 yıl</td>
<td>14</td>
<td>82 (70-94)</td>
<td>24.36</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Kruskal Wallis Test

When Table 4 is examined, no statistically significant difference was found between the psychological resistance levels of Judo National Team players and the years of dealing with judo (p > 0.05).
Table 5. Judo National Team's Scores on the Psychological Resistance Scale compared to the Mothers Education Level*

<table>
<thead>
<tr>
<th>Maternal Learning Level</th>
<th>N</th>
<th>Median (Min-Mak)</th>
<th>Order Av.</th>
<th>Sd.</th>
<th>X²</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Literate and primary school graduate</td>
<td>32</td>
<td>84 (62-108)</td>
<td>33.56</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary school graduate</td>
<td>16</td>
<td>88 (71-106)</td>
<td>36.38</td>
<td></td>
<td>2</td>
<td>0.291</td>
</tr>
<tr>
<td>Graduated from high school, college or university</td>
<td>16</td>
<td>82 (70-96)</td>
<td>26.50</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Kruskal Wallis Test

When Table 5 was examined, it was found that there was no statistically significant difference between the psychological resistance levels of the Judo National Team players and the mother education levels (p> 0.05).

Table 6. Judo National Team Scores on the Psychological Resistance Scale of the Sportsmen According to the Level of the Father's Education*

<table>
<thead>
<tr>
<th>Father's Education Level</th>
<th>N</th>
<th>Median (Min-Mak)</th>
<th>Order Av.</th>
<th>Sd.</th>
<th>X²</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary school graduate</td>
<td>14</td>
<td>79 (62-97)</td>
<td>22.93</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary school graduate</td>
<td>10</td>
<td>93 (81-106)</td>
<td>42.70</td>
<td></td>
<td>3</td>
<td>0.060</td>
</tr>
<tr>
<td>Graduated from high school</td>
<td>22</td>
<td>83 (71-105)</td>
<td>31.23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graduated from college or university</td>
<td>18</td>
<td>85 (70-108)</td>
<td>35.83</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Kruskal Wallis Test

When Table 6 was examined, there was no statistically significant difference between the psychological resistance levels of the Judo National Team players and the father education levels (p> 0.05).

Table 7. Judo National Team Compared to Income Level of Sportsmen 's Psychological Resistance Scores*

<table>
<thead>
<tr>
<th>Income rate</th>
<th>N</th>
<th>Median (Min-Mak)</th>
<th>Order Av.</th>
<th>Sd.</th>
<th>X²</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very good</td>
<td>16</td>
<td>80 (70-108)</td>
<td>27.63</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Good</td>
<td>28</td>
<td>85 (62-106)</td>
<td>33.79</td>
<td>2</td>
<td>1.49</td>
<td>0.475</td>
</tr>
<tr>
<td>Medium</td>
<td>20</td>
<td>84 (73-101)</td>
<td>34.60</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Kruskal Wallis Test

When Table 7 was examined, there was no statistically significant difference between the levels of psychological resistance and income levels of the Judo National Team players (p> 0.05).
As shown in Table 8, there was a statistically significant relationship between the levels of psychological resistance and anxiety levels ($r = -0.359$, $P < 0.01$) in the Judo National Team players. This relationship seems to be significant and negative between psychological resistance and anxiety.

### CONCLUSION AND DISCUSSION

According to the findings obtained from the survey, there is a significant difference between the scores of the Judo National Team players and the psychological resistance scores according to the gender variable. According to this, female students' psychological resistance levels are higher than male students. The findings of some of the studies that have been made are supported by this end result whereas others do not support the end result.

In the researches carried out by Hannah and Morrissey, 1987; Garmezy, 1993; Cole, Field and Harris, 2004; Önder and Günay, 2008; Tanrikulu, Sülükoğlu and Meşeli, 2015 and Akkuş, 2015 in different sampling groups, psychological resistance scores differ significantly according to gender variable. In some of the results of this research, girls have higher levels of psychological resistance, but in some cases the situation is just the opposite.

On the other hand, it was found that psychological resistance did not change according to the gender in various studies.

In the study, there was a significant and negative relationship between age and psychological resistance level. Accordingly, it can be said that as the age increases, the level of psychological resistance decreases.

In the related field, studies related to the influence of age factor on psychological resistance are included. In some of these studies, psychological resistance increases as age increases, while psychological resistance decreases as age increases.

In the study, no significant difference was found between birth order and psychological resistance level. Bahadir, 2009 and Akkuş, 2015 work done by these end results are supported. Oktan, Odacı and Çelik, 2013 and Parinyaphol and Chongruksa, 2008 found that the birth order was influential on psychological stability.

In the study, there was no significant difference between the year of care with judo and the level of psychological resistance. In the summer, there was no research on this result.

In the study, there was no statistically
significant difference between mother and father education level and psychological resistance level. Akkuş supports this end result of the work done by 2015. Unlike our work, Werner and Smith, 1982; Jarrett, 1997; Serbin and Karp, 2004 found that psychological well-being was influenced by parents’ level of education. In the study, there was no statistically significant difference between income level and psychological resistance level. Akkuş supports this end result of the work done by 2015. Unlike our study, in many articles about children and young people, "low socio-economic level, economic difficulties and poverty" were considered as a risk factor for psychological stability.

In the study, a statistically significant relationship was found between anxiety level and psychological resistance level. This relationship seems to be significant and negative between psychological resistance and anxiety. In the summer, there was no research on this result.

REFERENCES

1. Akkuş, Z., “Ergenlerde Psikolojik Dayanıklığın Öğüven ve Anne Baba Tutunım ile İlişkisi” Dokuz Eylül Üniversitesi Eğitim Bilimleri Enstitüsü, Yayınlanmamış Yüksek Lisans Tezi, İzmir, 2015. [In Turkish]


27. Oktan V., Odacı H. and Çelik Ç.B., "Psikolojik Doğum Sırasının Psikolojik Sağlamlığın Yordanmasında Rolünün İncelenmesi" XI. Ulusal Psikolojik Danışma ve Rehberlik Kongresinde bildiri olarak sunulmuştur, 2013. [In Turkish]


34. Şirin E.F. and Bayraktar G., "Bayan Güreşçilerin Umutsuzluk ve Kaygı Düzeylerinin Musbaka Başarılara Olan Etkisini Araştırılması" Beden Eğitimi ve Spor Bilimleri Dergisi, 8(3), 2006. [In Turkish]

35. Tannkulu, T., Süüküoğlu, K. and Meşeli, B., "Ergen Psikolojik Dayanıklılığın Ebeveynin Ebeveynischen" Beden Eğitimi ve Spor Bilimleri Dergisi, 1(2), 66-73, 2015. [In Turkish]

36. Türkçapar, U., "Güreşçilerin Farklı Değişkenler Arasında Sürükli Kaygı Düzeylerinin İncelenmesi" GEESAD, 32(1), 129-140, 2012. [In Turkish]

37. Uçar, T., "Özel Eğitim Okulu Öğretmenlerinin Psikolojik Dayanıklılık Düzeylerinin ve Mesleki Sosyal Destek Düzeylerinin Bazı Değişkenler Arasında İncelenmesi (İstanbul İli Avrupa Yakas)" İstanbul Aydın Üniversitesi Sosyal Bilimler Enstitüsü, Yayınlanmamış Yüksek Lisans Tezi, 2014. [In Turkish]


40. Yalçın, S., "İlköğretim Okulu Öğretmenlerinin Mesleki Tükennmişlik Düzeyleri ile Stres, Psikolojik Dayanıklılık ve Akademik İşlem Lik Arasındaki İlişki" Gazi Üniversitesi Eğitim Bilimleri Enstitüsü, Yayınlanmamış Yüksek Lisans Tezi, 2013. [In Turkish]