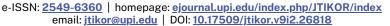


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Analysis of Sport Emotion: Anger in Team Game Sports and Martial Arts

Finaldhi Palgunadhi¹□, Tian Kurniawan², Jajat³, Kuston Sultoni⁴, Widy Dewi Nuryanti⁵ 1,2,3,4,5 Department of Sport Science, Universitas Pendidikan Indonesia, Indonesia

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Correspondence

Finaldhi Palgunadhi

E-mail:

finaldhipalgunadhi@upi.edu

Abstract

The purpose of this study is to examine the level of difference in anger between team game sports and martial arts. This study is a quantitative research using the causal comparative study method. The population in this study consists of athletes from the 2018 West Java Provincial Sports Week (Porda), with a purposive sampling technique used to obtain a sample size of 60 athletes. The sample is divided into 30 athletes from team game sports (18 volleyball athletes and 12 basketball athletes) and 30 athletes from martial arts (18 karate athletes and 12 taekwondo athletes). The instrument used in this study is the Sport Emotion Questionnaire (SEQ) developed by Jones et al. (2005). The results of the study indicate that there is a difference in anger between team game sports and martial arts. Martial arts have higher anger levels compared to team game sports.

Keywords: anger, emotion, martial arts, team game sports

INTRODUCTION

Emotion is one of the key aspects that influence an athlete's performance in sports. Emotions can effect performance, depending on the athlete and the type of sport (Jones, M. V., 2003). Sport emotion is a term that describes the emotions that arise during sports competition. There is sufficient empirical evidence to suggest that at least five emotions are particularly relevant to sport settings ... the emotions are anger, anxiety, dejection, excitement, and happiness (Jones, et al., 2005).

There are eight basic emotional dimensions, arranged in four pairs: joy versus sorrow, anger versus fear, acceptance versus disgust, and surprise versus expectancy (Mason & Capitanio, 2012). Among the various emotions that arise, anger is one of the most common emotions, especially in the context of competition and sports training. Anger is a frequent emotion in sport (Steffgen, 2017). This emotion can affect an athlete's performance both positively and negatively, depending on how the individual manages and expresses it.

In the context of sports, anger is often influenced by factors such as competition conflicts between pressure. plavers. dissatisfaction with one's own or the team's performance. Anger is an emotion experienced by athletes in competition, and could impact performance (Jones, et al., 2005). If not managed properly, anger can disrupt performance, leading to loss of self-control, excessive aggression, or consequences that negatively affect both oneself and others. However, some studies suggest that negative emotions, including anger, can enhance an athlete's energy and focus in certain situations.

Previous research has revealed that physical contact sports such as martial arts always involve anger emotions. Athletes involved in physical contact sports often interpret their competitive anger as beneficial to sports performance (Steffgen, 2017). How about other types of sports, such as team game sports, where the pressure and responsibility are not solely dependent on the individual, but are instead shared among the members of the team? If viewed from the characteristics of individual sports, the sense of responsibility of victory is determined by each of

them not by anyone, even the coach is only as an outside media that helps improve performance (Palgunadhi, F., &

Kardjono, K, 2020). This is an important point to consider, as different types of sports may also lead to variations in sports emotions.

Therefore, it is important to provide evidence regarding whether there is a difference in the level of sports emotion, particularly anger, experienced by athletes when facing competition in team game sports and martial arts. Does team sports have the same impact on anger, considering that in this type of sport, the pressure and responsibility are shared among multiple individuals working together within a team? Meanwhile, in martial arts, athletes compete individually, engage in physical contact, and may experience heightened emotional arousal as a result. This study aims to determine the extent of the difference in sports emotion (anger) levels between team game sports and martial arts. The hypothesis of this study is that there is a difference in sports emotion (anger) between team game sports and martial arts.

This study is expected to reveal how the characteristics of both types of sports (team game sports vs. martial arts) affect athletes' levels of anger and provide insights into the utilization or management of anger so that it does not interfere with athletes' performance in competition, but rather enhances their performance.

METHODS

The research method used is causal-comparative with a quantitative approach. In causal-comparative research, investigators attempt to determine the cause or consequences of differences that already exist between or among groups of individuals (Fraenkel, J. R., Wallen, N. E., & Hyun H. H., 2012). This research was conducted from October 6 to October 14, 2018. The research was conducted at the location where each sample was situated, or at the venue before the competition.

Research Design

The research design used in this study is the basic causal-comparative design. The basic causal-comparative design involves selecting two or more

Figure 1. The Basic Causal-Comparative Design

Group	Independent Variable	Dependent Variable	
I	C1 Team Game Sports	O Anger	
II	C2 Martial Arts	0 Anger	

groups that differ on a particular variable of interest and comparing them on

another variable or variables (Fraenkel, J. R., Wallen, N. E., 2007). No manipulation is involved. The research process is carried out in one stage, which involves administering the test to the two specified groups. The result of the test is to assess the differences between the two groups. The research design of the basic causal-comparative design can be seen in Figure 1.

In this research design, there are two independent variables and one dependent variable. The independent variables in this study are team game sports and martial arts, and the dependent variable is anger.

Participants

The population in this study were athletes registered as players at the Regional Sports Week of West Java in 2018. The sampling technique used in this research is purposive sampling, which is a method of selecting samples based on specific criteria or considerations. For experimental and causal-comparative studies, we recommend a minimum of 30 individuals per group (Fraenkel, J. R. & Wallen, N. E., 2007).

Sample was 60 West Java athletes divided into 2 groups, each of 30 athletes for team game sports (18 volleyball athletes, 12 basketball athletes), and 30 martial arts athletes (18 karate athletes, 12 taekwondo athletes).

Instrument

The research instrument used in this study is the Sport Emotion Questionnaire (SEQ). The instruments used was Sport Emotion Questionnaire (SEQ) developed by Jones, et al. (2005) is a validated instrument for measuring emotions that occur in sports (before the competition).

Procedure

The research procedure begins with testing the validity and reliability of the instrument. Out of the 22 statements, 20 items were found to be valid, and 2 items were invalid, with a reliability level of 0.864. Therefore, 20 valid items were selected to be used in the research.

After the instrument has been validated and shown to be reliable, the next step is to test it to the sample. The sample is given the test shortly before the competition begins.

Data Analysis

The data obtained from the sample were analyzed using SPSS version 20 software, specifically employing one-way ANOVA (Tukey HSD). This test is to determine the difference in anger between the two variables (team game sports, martial arts).

RESULT

In <u>Table 1</u>, the descriptive statistics of anger are presented, with a mean value of 1.2111 and a standard deviation of 0.93384.

Besides, <u>Table 2</u> shows that anger in team game sports and martial arts has a sig. value of 0.002 < 0.05 at a 95% confidence level, indicating that there is a significant difference in the mean scores.

After testing the mean differences of each variable, the next step is the follow-up test. With the same sample size for each variable to be tested, the test used is the follow-up Tukey HSD (Honest Significant Difference) test. This test is used to determine which group's anger is the highest between the two groups using the Tukey HSD test in multiple comparisons with a confidence level.

Table 1. Descriptive Statistics						
Variable	Ν	Min	Max	Mean	Std. Deviation	
Anger	60	.00	3.75	1.2111	.93384	
Valid N (listwise)	60					

Tabel 2. Tukey HSD Anxiety Test

Variable Std. Error Sig.

Individual Games Sports with Team Game Sports .19595 .003

 Tabel 3. Tukey HSD Anxiety Test

 Subset fot Alpha = 0.05

 N
 1
 2

 Individual Game Sports
 30
 1.6067

 Team Game Sports
 30
 .9317

 Sig.
 1.000
 .625

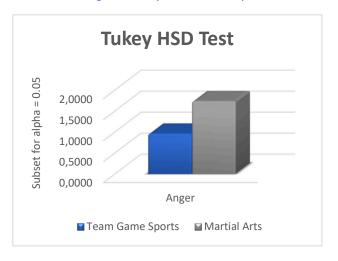


Figure 2. Tukey HSD Test Anxiety

Based on <u>Table 3</u>, the results show that team game sports have a value of 0.9417 with a subset for alpha = 0.05, and martial arts have a value of 1.7333 with a subset for alpha = 0.05. Therefore, martial arts have a higher level of anger compared to team game sports.

DISCUSSION

The purpose of this study is to determine the level of anger experienced in team game sports and martial arts, specifically before the competition takes place. Sport emotion is an experience that will always be felt in sports, especially during training or when a competition is taking place. The moments just before a competition are when every athlete experiences a mix of emotions within themselves. Anger experienced during the pre-competition phase will be felt by athletes in any sport, regardless of the type or characteristics of the sport. The characteristics of each sport will result in differences both

in the athlete's personality and in the athlete's emotions themselves. This indicates that anger will vary depending on the type of sport.

<u>Figure 2</u> shows that during the before the match, anger in martial arts is higher compared to team game sports.

Based on the results, this shows that the level of anger in team game sports is lower compared to martial arts. This phenomenon can be explained through several psychological factors and social dynamics that differ between the two types of sports. First, martial arts, which often involve physical contact and one-on-one combat, tend to elicit higher levels of emotional tension. Martial arts athletes not only face their opponents but also

must control their emotions in highly intense and high-pressure situations. Anger in this context may arise as a response to provocation, injustice, or failure to overcome the physical and mental challenges faced. This sport demands a high level of concentration and self-control, which often leads to an increase in the intensity of feelings of anger. In contrast, in team game sports, although tension between players can occur, the emotions experienced tend to be more distributed among the team members. Players are more focused on collaboration and team strategy than on direct interactions and personal confrontations with opponents. Therefore, although anger can occur in the context of the game, the level of anger expression in team game sports tends to be lower due to the role of communication and support among teammates.

In addition, another factor that influences this difference is the social and cultural norms present in both types of sports. In many martial arts cultures, anger is often seen as part of the "mental toughness" required to endure highly demanding competition. Athletes involved in physical contact sports often interpret their competitive anger as beneficial to sports performance (Robazza, C., & Bortoli, L, 2007). Anger emotions are used as a reference to increase morale and suppress fear so that it can improve sports performance or performance (Palgunadhi, F., & Kardjono, K., 2020). On the other hand, in team game sports, more controlled emotions are considered important to maintain harmony and overall team effectiveness. Team sport athletes are more sociotropic than the individual sport athletes (Nia. M. E., & Besharat, M. A., 2010)

The results of this study suggest that understanding the differences in anger between these two types of sports can help coaches and

sports psychologists design more effective strategies for managing athletes' emotions and enhancing their performance. Therefore, it is important to implement appropriate interventions based on the type of sport the athlete participates in, taking into account the unique characteristics of each discipline.

The factors of gender and age may also influence an individual's level of anger. Anger was associated with more interfering thoughts only in younger athletes (McCarthy, P. J., Allen, M. S., & Jones, M. V., 2013). It is hoped that future research will consider the aspects of gender and age of athletes.

CONCLUSIONS

It can be concluded that anger levels differ between team game sports and martial arts, with martial artists exhibiting higher levels of anger. This could be influenced by the individual nature of martial arts, which emphasize direct physical confrontation and self-discipline. Future research should explore factors such as gender and age to provide deeper insights into the psychological aspects of anger in different sports contexts.

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