Investigation and Comparison of Aggression in Olympic and Non-Olympic Athletes of Sport Fields

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Abstract: Many of sport psychological researchers consider aggression and violence as a serious problem in sport especially contact fields that follow annually a lot of privation and harms for athletes and responsibles. In the some direction this research do with the aim of investigation of aggression situation in Olympic athletes of contactable sport fields and non-Olympic, compare these fields with each other and compare with non-athletes. 96 number of elite athletes of different sport fields, taekwondo, judo, wrestling, boxing (as an athlete's of Olympic sport fields), karate, wu shu, kickboxing and kung fu (as an athlete's of non-Olympic sport fields) with having at least international place in his field, along with 96 non-athletes take part in this research. Findings of research shows significant difference in different components of aggression among research groups (p<0.001). Significant difference was seen among Olympic athletes in contactable sport fields and non-Olympic and also non-athletes, generally from an aggression point, and aggression components. Research Findings of research shows that Olympic athletes in sport fields has less aggression from non-Olympic athletes in sport fields, that this important shows great effects of Olympic movement purposes in sports and moral, mental and psychological characteristics of elite athletes of Olympic sport fields. Just as important purposes of Olympic movement, is promoting and developing moral and physical characteristics of individuals and education of youth through sport, according to results of this research and same researches find that Olympic games is something higher than holding a number of competitions every four years in part of a world .In fact, in depth of it, hidden moral, basic aims and education of Olympic movement and philosophy in international level.

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1. Introduction

Sport as a behavior, is part of life and for some of people is all the life. Sport as a behavior, has psychological dimensions and what is important is that, sometimes this behavior affect personality and nature of one person so far as existing characteristics, from the person to society and even go far from the boarders of one culture and one country; Sport has a closer connection with excitations and several psychological characteristics of a person and all the individuals proceed to a sport, especially professional and championship sport, they have to confront with a phenomenon that named " aggression" (Arvin; Rezaei 2008). Rarely can find a subject that considerable as much as aggression and violence.

Aggression in sport defines as a behavior against to standards legal of that sport for an attempt to injure to opponent, staff judgment, teammate or spectators like verbal or physical. Many of sport psychological researchers consider aggression and violence as a serious problem in sport especially contact fields that follow annually a lot of privation and harms for athletes and responsibles (Rezaei ; Hosseini 2008). All of those that somehow dealing with sport, whether as an spectators, in coach place or an athlete, have to face with a phenomenon that named aggression .Upper levels of excitations and severe arousal that sometimes leading to quarrel and regrettable abnormality, observe repeatedly, by all three groups that remind before especially by athletes. It is likely this phenomenon in the course of hypersensitive sport competitions, transmit from athletes to spectator and or from coach to other two groups and obtained unpleasant consequences (Boostani ; Boostani 2010).

As far as the martial arts are concerned, few studies about involvement in the martial arts and aggression are carried out. Interest in such studies, particularly karate, grew in 1970s and 1980s by publishing works about masters of the martial arts' characters (Duthie et al. 1978; Kroll ; Carlson 1967; Kroll ; Crenshaw 1970). These researches focused on properties such as control and vulnerability in karate (Madden 1990), self-esteem (Richman ; Rehberg 1986), and anxiety (Layton 2000, Williama ; Elliott 1999). Results of few researches on aggression and tendency to the martial arts are contradictory. While researchers such as Fuller (1988) showed that athletes of the martial arts are more aggressive than non-athletes, other researchers – e.g., Szabo; Parkin (2001) - showed lower aggression level among athletes of the martial arts.

In their research on athletes of different sportive fields, Maxwell (2004) concluded that aggressive behavior had a significant difference among the athletes. Also, there was a significant relationship among the athletes' aggression and type of sport.

In their study, Rezaei et al. (2008) concluded that there is not a significant difference among athletes in fields if karate, boxing, Wushu, and Taekwondo, but the difference between athletes and non-athletes is significant.

Many of accomplished researches support this hypothesis that athletes especially athletes of contactable fields in comparison to non-athletes, more are involved in aggressive behaviors. In the some direction this research do with the aim of investigation of aggression situation in Olympic athletes of contactable sport fields and non-Olympic, compare these fields with each other and compare with non-athletes.

2. Methods

96 number of elite athletes of different sport fields, taekwondo, judo, wrestling, boxing (as an athletes of Olympic sport fields), karate, wu shu, kickboxing and kung fu (as an athletes of non-Olympic sport fields) with having at least international place in his field, along with 96 non-athletes take part in this research.

All of subjects complete Buss and Perry aggression questionnaires. This questionnaire evaluate four behavioral factor, anger, physical aggression, verbal aggression and hostility.

Validity of original questionnaires form out by makers of this questionnaires which in this order was reported physical aggression, verbal aggression, anger and hostility 80%, 76%, 72% and 72%.

After classification of questionnaires with the use for analysis of data use analysis of variance (ANOVA), Tukey test, multiple logistic regression analysis and T- test.

3. Results

After gathering information, obtained results with the use of analysis of variance test (ANOVA) analyzed that results brought in table 1.

Findings of research shows significant difference in different components of aggression among research groups (p<0.001). As cleared in the table groups were different from each other in all of behavioral factors. Tukey test shows that kickboxing, kung fu athletes and non-athletes in anger, physical aggression, verbal aggression, hostility factors and total higher grades.

4. Discussions

Research Findings of research shows that Olympic athletes in sport fields has less aggression from non-Olympic athletes in sport fields, that this important shows great effects of Olympic movement purposes in sports and moral, mental and psychological characteristics of elite athletes of Olympic sport fields. Just as important purposes of Olympic movement, is promoting and developing moral and physical characteristics of individuals and education of youth through sport, according to results of this research and same researches find that Olympic games is something higher than holding a number of competitions every four years in part of a world. In fact, in depth of it, hidden moral, basic aims and education of Olympic movement and philosophy in international level.

Also this theory that contact sport fields athletes with regard to non-athletes having more aggression didn't approved by the results of this research. In contrary, it seems to sport activities cause emptying energy and excitation among individuals and can cause decreasing excessively aggressive behaviors especially in out of sport environments. Results of this study showed a significant difference between athletes of the martial arts and non-athletes in terms of the number and mean of their scores on the aggression scale. This result contrasts the finding of Chandler et al. (1999) and Cellini (1983). In their studies, these researchers demonstrated higher levels of aggression among athletes. They had synthesized, unlike non-athletes, athletes totally got higher scores in aggression and aggression items.

Result of the present study is not in line with Fullers' (1988) findings. He had shown that in comparison with non-athletes, athletes had higher levels of aggression. On the other hand, the results are consistent with findings of some researchers such as Szabo ; Parkin (2001). In their studies, they had also shown lower levels of aggression among athletes of the martial arts in comparison with the non-athletes.

People in any society have particular behavioral models in sport and physical activities. Physical activities in form of sport follow culture. As it was stated by Sevill Statement of Violence (1986), aggression follows cultural factors considerably.

Variables	Sport fields	Index	Mean	Standard	different groups Number	Degree of	P-value
	Sport noise			deviation	of subjects	freedom	
Anger		Taekwondo	9.5	2.1	15		
	Olympic	Judo	7.7	1.3	10		
	athletes	Wrestling	10.2	3.2	11		
		Boxing	11.3	1.8	8	8, 183	0.001
		Karate	11.6	3.5	22		
	Non-Olympic	Wu shu	13.1	2.2	12		
	athletes	Kickboxing	20.4	1.8	8		
		Kung fu	21.2	3.9	10		
		Non-athletes	21.8	5.1	96		
Physical aggression		Taekwondo	17.2	1.4	15		
	Olympic	Judo	14.9	1.7	10		
	athletes	Wrestling	14.2	2.5	11	8, 183	0.001
		Boxing	15.3	2.1	8		
		Karate	20.8	1.7	22		
	Non-Olympic	Wu shu	21.3	1.6	12		
	athletes	Kickboxing	24.9	2.2	8		
		Kung fu	26.5	2.4	10		
		Non-athletes	23.7	4.3	96		
Verbal aggression		Taekwondo	11.2	2.3	15		
	Olympic	Judo	10.9	2.1	10		
	athletes	Wrestling	12.1	1.9	11	8, 183	0.001
		Boxing	12.9	2.2	8		
		Karate	13.1	1.4	22		
	Non-Olympic	Wu shu	13.3	3.5	12		
	athletes	Kickboxing	18.9	2.8	8		
		Kung fu	19.2	3.7	10		
		Non-athletes	19.9	4.3	96		
Hostility		Taekwondo	9.5	1.2	15		
	Olympic	Judo	8.8	1.9	10		
	athletes	Wrestling	10.2	1.4	11		
		Boxing	11.3	3.7	8		
		Karate	10.1	2.1	22	8, 183	0.001
	Non-Olympic	Wu shu	13.4	2.6	12		
	athletes	Kickboxing	16.9	4.3	8		
		Kung fu	17.3	5.9	10		
		Non-athletes	16.4	4.6	96		
Total		Taekwondo	47.4	7.1	15		
	Olympic	Judo	42.3	6.9	10		
	athletes	Wrestling	46.7	9.2	11		
		Boxing	50.8	9.8	8		
	Non-Olympic	Karate	55.6	8.7	22	8, 183	0.001
		Wu shu	61.3	9.9	12		
			81.1	11.1	8		
	atmetes	KICKDAXINO	011				
	athletes	Kickboxing Kung fu	81.1 84.2	15.9	10		

Table 1. Statistical criteria of research variables in different groups

Bandura (1973) synthesizes that culture of a society can increase the number of aggressive people of a society by giving value to aggressive behaviors and offering successful aggressive models and giving

assurance that aggressive behaviors have rewarding results, the converse is also true. That is, culture of a society can minimize the aggression level as well as the numbers of aggressive people. Anyway, results of this research and the same researches show that sport activities mainly has a positive effect of behavioral factors like aggression and is able to balance be habitual characteristics of individuals. Also, in some of sport fields that athletes have higher grades, should seek a cause in culture and special education of that field and moral, mental and cultural environment between athletes and coaches of that sport field.

5. Conclusion

Based on the results of the present study, seemingly, it is most likely that there is a relationship between personality and becoming aggressive in sport matches. Identifying this relationship can be effective in athletic success and function. Yet, more researches should be carried out within this area. Accordingly, it is suggested that similar studies be conducted on other Olympic and non-Olympic fields as well as on female athletes more extensively.

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