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RESEARCH ARTICLE

The Prosocial-Antisocial Behavior and Empathic Skill Levels of Wheelchair Basketball Players in Sports

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Abstract

This study aims to find out the prosocial and antisocial behavior as well as the empathic skills of wheelchair basketball players in sports. A total of 230 wheelchair basketball players (216 males and 14 females) participated in this study which uses relational screening model. The Prosocial and Antisocial Behavior in Sport Scale (PABSS) and the Interpersonal Reactivity Index (IRI) were used as data collection tools. Independent t-test, Cronbach Alpha, One-Way Anova, Pearson correlation and multiple regression analysis were used for the analysis of data. The data obtained shows that there is a low level, meaningful and positive correlation between the empathic skills of wheelchair basketball players and their tendency for prosocial behavior in sports. In addition, a medium-level, meaningful and negative correlation between their empathic skills and tendency for antisocial behavior was found. It has been concluded that perspective taking, empathic concern and fantasy which are dimensions of empathy do not show a difference in the variable being a national athlete or non-national athlete. It was seen that personal distress is higher in athletes who are not national athletes. As a result of the analysis it was found out that as the antisocial behavior of wheelchair basketball players towards their teammates and opponents increase, their fantasy levels decrease. In light of these findings, it may be said that while emphatic skills promote prosocial behavior in wheelchair basketball players, they decrease antisocial behavior. Based on these results, the empathy training which will be given to athletes to promote prosocial behavior in sports is of great importance.

Keywords

Wheelchair Basketball, Empathy, Prosocial-Antisocial Behavior in Sports

INTRODUCTION

Prosocial behavior represents a broad category of actions defined as beneficial to other people by a majority of the population or a social group. (Penner, Dovidio, Piliavin and Schroeder, 2005) Prosocial behavior which includes behavior such as helping, sharing, comforting and cooperation is also named as 'positive social behavior' (Üzmen and Mağden, 2002). Prosocial behavior in sports means behavior that is intended to benefit or help others. (Eisenberg and Fabes 1998) such as helping an opponent who has fallen down, sending the ball out if the opponents is injured or lending his equipment to the opponent if

the opponent has forgotten his (Kavussanu, 2006). On the other hand, antisocial behavior includes behavior such as harming another on purpose or taking advantage of the other's disadvantage. For instance, behavior such as committing a foul on purpose, injuring the opponent, deceiving the referee are types of antisocial behavior in sports (Kavussanu, Stranger and Boardley 2013). Prosocial and antisocial behavior in sports is also related to the emphatic skills of the athletes. Hoffman (2011) defines empathy as the vicarious affective response to another person's feelings, and the integrator of social life. Empathy means having the ability to interact with the thoughts of others

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and to sense their reaction (Assman and Detmers, 2016).

Empathy which is the predecessor of prosocial behavior and plays an important role in the daily life of individuals is a kind of communication which athletes communicate to each other and experience sharing. Davis (1983) who focuses on the affective and cognitive aspects of empathy, defines empathy as the 'reactions of one individual to the observed experiences of another'. Hogan states that there are five dimensions of moral development: knowledge, socialization, empathy, autonomy and ethical attitudes, and that similarly moral behavior can be explained using these dimensions (Greif, Hogan 1973).

According to Hoffman, there is harmony between moral principles and empathy, and in the decision-making process empathic skills play an important role right after the development of moral principles. By saying that empathy is directly related to moral principles, Hoffman means that the use of empathy activates moral principles. (Shields, Bredemeir, 1994) Kohlberg states that the ability to put yourself in someone else's shoes starts to develop after the age of six and that the development of this ability is a turning point in the development of moral judgement. As moral judgement protects the rights of the individual against the rights of others, this situation also requires the ability to act (Akkoyun, 1987). While in light of the studies on empathy in sports ,a negative correlation between aggressiveness and empathy is observed (Marcus Telleen, Rcke 1979; Kalliopuska 1983, Peters 2000). There is a positive correlation between fairplay and empathy (Sezen, Yıldıran 2011; Sezen, Yıldıran 2012). In addition, empathy plays an important role in displaying prosocial behavior (Duquin, Schroeder-Braun 1996; Kavussanu, 2006). On the other hand, antisocial behavior is more frequently observed in individuals with limited empathy skills (Kavussanu 2006; Kavussanu, Boardley 2009; Kavussanu, Stamp, Slade, Ring, 2009). It is also known that systematic training of fairplay in sports also increases empathic skills (Sezen, 2009).

Disability is a disadvantage which negatively affects an individual's adaptation to daily life. Adaptation is linked to what extent social roles are displayed. One of the effective mechanisms that helps an individual fulfil his social roles is sports. In today's world, disabled

individuals can successfully do most types of sports done by able-bodied individuals. Disabled athletes are accepted more than ever and frequently participate in sports competitions. Disabled individuals who use wheelchairs are affected by different disabilities such as spinal injuries, lower extremity amputations, poliomyelitis, plegia, multiple sclerosis. rheumatoid arthritis, sipina bifida, hip fracture, neuromuscular diseases, muscular dystrophy and organ deficiency (Yost and Schmoll 1995; Hudson and Brown 2003; Finley and Rodgers 2004). The disabled group with the highest population in society is the individuals with physical disabilities. One of the most popular sports among this group is the wheelchair basketball, which is a paralympic sport. The fact that sports clubs have allocated high budgets to this sport in recent years, professionalism, the increase in the transfer prices of national and foreign players has led to a meaningful competition among sports clubs. Due to all these, wheelchair basketball has created its own fans and appears in the media more than before.

Wheelchair basketball players have different stress factors (Shearer and Bressan 2010) There may be several factors that affect these stress factors. One also has to consider the emotional aspect of physically disabled individuals' feeling physically different from the norm group. According to Kasum et al. (2012), wheelchair basketball players are generally emotional athletes. These characteristics may have contributions to being a team, and cooperation. Skordilis, Koutsouki, Asonitou, Evans and Jensen (2002) state that wheelchair basketball players have a competitive spirit. When the research on healthy athletes is studied, it is seen that antisocial behavior is frequently observed in sports (Kavussanu et al.2006; Sage, Kavussanu, Duda 2006; Kavussanu, Stamp, Slade, Ring 2009) Kavussanu, Ring and Kavanagh found lower frequency of antisocial sport behavior among disabled athletes compared to able-bodied athletes in the studies which were made comparisons between disabled and ablebodied athletes.

Research on wheelchair basketball players is usually about physical, physiological aspects and calcification (Brasile and Hedrick 1996; Hutzler, Vanlandewijck and Van Vlierberghe, 2000; Vanlandewijck et al. 2004). On the other hand, research on the psycho-social characteristics of

wheelchair basketball players is quite limited. When the related literature is studied, it is behavior and empathy in disabled athletes is very few. The fact that there is insufficient research on prosocial and antisocial behavior and empathy in sports arouses interest about this condition in disabled athletes. In the light of this, the aim of this study is to determine the prosocial and antisocial behavior as well as the empathy of wheelchair basketball players; to find the relationship between these types of behavior and empathy; to find the effect of being a national or non-national athlete and the position of the athlete in the court on these types of behavior. For this purpose, answers to the following questions were sought:

- 1) Is the prosocial and antisocial behavior of wheelchair basketball players (prosocial to teammates, antisocial to teammates, prosocial to opponent and antisocial to opponent) a meaningful predictor of the dimension fantasy?
- 2) Is the prosocial and antisocial behavior of wheelchair basketball players (prosocial to teammates, antisocial to teammates, prosocial to opponent and antisocial to opponent) a meaningful predictor of the dimension empathic concern?
- 3) Is the prosocial and antisocial behavior of wheelchair basketball players (prosocial to teammates, antisocial to teammates, prosocial to opponent and antisocial to opponent) a meaningful predictor of the dimension perspective taking?
- 4) Is the prosocial and antisocial behavior of wheelchair basketball players (prosocial to teammates, antisocial to teammates, prosocial to opponent and antisocial to opponent) a meaningful predictor of the dimension personal distress?

METHODS

Research Model

Relational Screening Model was used in this study to study the prosocial and antisocial behavior and empathic skills of wheelchair basketball players. Screening models are research models aiming to describe a condition in the past or present as it is. (Karasar, 2005)

Participants

The study group of the research consist of 230 wheelchair basketball players who compete in different types of leagues. Purposive Sampling Method was used to determine the study group.

observed that research on the prosocial/antisocial

Purposive Sampling Method is a sampling method which is not contingent and random (Büyüköztürk, Kılıç-Çakmak, Akgün, Karadeniz and Demirel, 2011). In this research, the researcher focuses on the sampling which is most available and which will provide maximum efficiency (Ravid, 1994). Table 1 presents the demographic information of the study group.

Measures

Prosocial and Anti-social Behavior in Sport Scale (PABSS)

Prosocial and Anti-Social Behavior in Sport Scale (PABSS) is a five-point Likert scale developed by Kavussanu and Boardley (2009) and has 20 items and five dimensions. The Turkish adaptation of the scale was made by Sezen (2013). The dimensions of the scale are as follows:

- 1- Anti-social opponent (e.g. Deliberately fouled an opponent)
- 2- Prosocial opponent (e.g. Helped an injured opponent)
- 3- Anti-social teammate (e.g. Argued with a teammate)
- 4- Prosocial teammate (e.g. encouraged a teammate)

In the process of translating the scale to Turkish, the translation -back-translation method was used. The validity and the reliability of the items were tested on a total of 222 athletes of different fields who participated in the study as volunteers and work for different clubs in Ankara: football (53.6%), basketball (10.8%), handball (13.1%) and field hockey (22.5%). The study group consists of 77 females (34.7%) and 145 (65.3%) with males an age average 22.57(SD=4.31) and the age range is 17-37. In order to test the structure reliability of the scale, the Principal Component Analysis (PCA), which has the most widespread use in determining factors, was used. In the first stage of the factor analysis, the Barlett Test and KMO Test were used to determine whether the data set was suitable for factor analysis. The reliability of the scale was tested with Cronbach Alpha reliability coefficient. In this study, the KMO test value was found as 0.817(very good) and the Barlett Test was found to be meaningful. The Turkish version of Prosocial and Anti-social Behavior Scale in Sports has a four

factor structure and 20 items as in the original version (Sezen, 2013). Cronbach Alpha internal consistency coefficient was used to study the reliability of the measurement tool. As a result of the analysis, the reliability coefficient of the dimensions 'anti-social behavior towards opponent', 'prosocial behavior towards opponent',

'anti-social behavior towards teammate' and 'prosocial behavior towards teammate' were found to be 0.74, 0.76, 0.71 and 0.77 respectively. When the fact that the Alpha value must be at least 0.70 in reliability analysis (Anderson, 1998; Kline, 1994; Peers, 1996) is kept in mind, it may be said that the present Alpha values are sufficient.

Table 1: Demographic Data

	Group	Frequency	Percent	
	Man	216	93,9	
Gender	Woman	14	6,1	
	Total	230	100,0	
	Secondary	16	7,0	
	High School	161	70,0	
Education level	Undergraduate	41	17,8	
	Post Graduate	12	5,2	
	Total	230	100,0	
	Super League	106	46,1	
League Type	1st L	124	53,9	
	Total	230	100,0	
	Yes	85	37,0	
Status of Being a National Sportsperson —	No	145	63,0	
- Canada Sportsportson	Total	230	100,0	
_	Congenital	95	41,3	
Гуре of Disability	Acquired	135	58,7	
	Total	230	100,0	
	Amputee	78	33,9	
	Minimal disability	15	6,5	
Гуре of Disability	Paraplegia	75	32,6	
	Polio	62	27,0	
	Total	230	100,0	
	Gard	61	26,5	
Position in the Field —	Forward	103	44,8	
osidon in the field —	Pivot	66	28,7	
_	Total	230	100,0	

Interpersonal Reactivity Index (IRI)

The Interpersonal Reactivity Index (IRI) developed by Davis, 1983 as a data collection tool was used in the study to determine the empathy levels of wheelchair basketball players. The IRI dimensions consist of four dimensions and 28 items which are relatively independent of each other and determine the characteristics of individuals (Davis, 1983). Interpersonal Reactivity

Index is a five-point Likert-type scale (0=does not define me at all, 4=defines me quite well). The dimension perspective taking determines the level of accepting other people's psychological point of view (e.g. I sometimes try to understand my friends better by imagining how things look from their perspective) whereas Empathic Concern determines feelings such as friendliness and interest as well as the concern towards someone

who is in a difficult situation. (e.g. I often have tender, concerned feelingsfor people less fortunate individual in a stressful situation and in situations with personal relationships (e.g. Being in a situation with tense feelings scare me). The dimension 'fantasy' determines the individual's tendency to put themselves in place of imaginary characters in books, movies and plays (e.g. I really get involved with the feelings of the characters in a novel) (Davis, 1983; Engeler, 2005; Davis, 1996). The reliability of the Turkish version of IRI and its psychometric features were done by Engeler (2005).

The psychometric quality of the dimensions is really good. The internal consistency for fantasy, empathic concern and perspective taking are quite close to the internal consistency (Engeler, 2005) reported by Davis (1983). As a result, it was found out that the IRI dimensions have very good internal consistency, test-retest correlation and psychometric values (Engeler, 2005). The

than I.). The dimension 'personal distress' measures the worry and distress level of the Cronbach Alpha values in the study for the dimensions fantasy, emphatic concern, perspective taking and personal distress are 0.72, 0.74, 0.72 and 0.76 respectively. When we keep in mind that the Alpha value must be at least 0.70 (Anderson, 1988; Kline, 1994; Peers, 1996) it may be said that the present Alpha value is sufficient.

Data Analysis

The relationship between prosocial and antisocial behavior and the dimensions of interpersonal reactivity index was studied in the study using the Pearson Moments Multiplication Correlation. Multiple Linear Regression Analysis was conducted to study the effects of prosocial and anti-social behavior of wheelchair basketball players on their emphatic concern. The relevance level was found as 0.05.

RESULTS

Table 2: t-test Values of Wheelchair Basketball Players in terms of their Being a National Team Sportsperson

	National Team Sportsperson	N	X	Ss	sd	t	P
Prosocial Teammate	Yes	85	14,7412	2,36620	228	2.076	0.000*
	No	145	13,4345	2,42903	220	-3,976	0,000*
Prosocial Opponent	Yes	85	8,3294	2,08959	228	2 /10	0.001*
	No	145	7,3448	2,11929	228	3,418	0,001*
Antisocial Teammate	Yes	85	10,8118	2,82208	228	-5,216	0,000*
	No	145	12,8069	2,78711	228	-3,210	
Antisocial Opponent	Yes	85	24,8118	7,17053	228	-2,263	0,025*
	No	145	26,7931	4,84610	228	-2,203	
Fantasy	Yes	85	15,4941	7,31864	228	2,073	0,040
	No	145	13,6138	5,28650	228		
Empathic Concern	Yes	85	15,8941	4,73091	228	275	0,0783
	No	145	16,0759	4,89342	228	-,275	
Perspective Taking	Yes	85	14,9059	3,77215	228	1 227	0.102
	No	145	15,5931	3,75924	228	-1,337	0,183
Personal Distress	Yes	85	10,4353	3,59711	228	2 101	0,002*
	No	145	12,1586	4,31997	228	-3,101	

In Table 2, it is seen that there is a statistically meaningful difference between the prosocial and anti-social behavior of wheelchair basketball players (p < 0.000; 0.001; 0.000; 0.025 respectively) and the Personal Distress dimension of empathy (0.002) related to being a national athlete or non-national athlete.

According to the data in Table 3, athletes who were disabled at birth display a higher level of prosocial behavior and lower level of anti-social behavior compared to those who became disabled later in life (p < O.OOO). When their empathic skills are studied, it is observed that the athletes who were disabled at birth have higher skills in the other dimensions (p < 0.000; 0.000;0.001 respectively) except for empathic concern (0.068).

Table 3: t-test Results of Wheelchair Basketball Players in terms of Having Whether a Congenital Disability or Not.

Sub-dimensions	Disabled	N	X	Ss	sd	t	P
Prosocial Teammate	Congenital	95	15,1053	2,77709	228	6,201	0,000*
•	Acquired	135	13,0815	1,84897			
Prosocial Opponent	Congenital	95	8,2211	2,88864	228	2,746	0,000*
	Acquired	135	7,3481	1,33449			
Antisocial	Congenital	95	10,8105	3,39052	228	-5,402	0,000*
Teammate	Acquired	135	12,9556	2,22559			
Antisocial Opponent	Congenital	95	22,3368	6,34238	228	-8,734	0,000*
	Acquired	135	28,6815	3,75092			
Fantasy	Congenital	95	16,2211	5,67971	228	4,076	0,000*
	Acquired	135	12,9630	6,16249			
Empathic Concern	Congenital	95	16,7158	5,15641	228	1,833	0,068
	Acquired	135	15,5111	4,52994			
Perspective Taking	Congenital	95	16,6737	3,96914	228	4,706	0,000*
	Acquired	135	14,4000	3,33055			
Personal Distress	Congenital	95	12,5789	4,13490	228	3,315	0,001*

Table 4: ANOVA Analysis Results of Wheelchair Basketball Players in terms of the Field They Play

Sub-dimensions	Group	n	X	Sd	F	p	Tukey
Prosocial to Teammate	Guard	61	14.44	2.13		•	F 10 1
	Forward	103	12.98	2.04	15.559	.000*	Forward-Gard Forward-Pivot
	Pivot	66	14.89	2.88			roiwaiu-rivoi
Prosocial to Opponent	Guard	61	7.52	1.45			Pivot-Gard
	Forward	103	7.33	1.35	6.184	.002*	Pivot-Gard Pivot-Forward
	Pivot	66	8.46	3.27			rivot-roi watu
Anti-social to Teammate	Forward	103	12.54	2.36	_		
	Guard	61	11.65	2.78	2.435	.090	=
	Pivot	66	11.71	3.74			
Anti-social to Opponent	Guard	61	23.49	3.22	_	7 .007	Cond mirror
	Pivot	66	23.98	4.50	5.057		Gard-pivot, Forward-pivot
	Forward	103	21.72	4.73			roiwaru-pivot
Emphatic Thought	Gard	61	16.44	5.09			
	Pivot	66	16.37	4.94	1.922	.149	-
	Forward	103	15.03	4.28			
Getting Perspective	Gard	61	15.39	3.33			
	Pivot	66	15.11	3.99	.389	678	-
	Forward	103	15.63	3.82			
Fantasy	Gard	61	15.34	7.23			
	Pivot	66	14.47	6.01	_ _ 2.207	.112	-
	Forward	103	13.09	5.13	2.207		
Personal Trouble	Gard	61	9.75	3.41	•	•	Forward-guard
	Pivot	66	11.29	3.49	14.970	0.00	Pivot-guard
	Forward	103	13.51	4.84			Pivot-Forward

0.005*

0.005*

When the data in Table 4 is studied; it is seen that the position in which the athletes play is effective on prosocial behavior (p < .000; .002). The same situation is observed in the personal distress dimension of empathy (p < .000).

One of the most important assumptions in regression analysis is the multiple connection problem. The multiple connection problem states that there are high level relationships (r > 0.90) between independent variables (Çokluk, Şekercioğlu and Büyüköztürk, 2010). Several

methods have been suggested to test the multiple connection problem which is observed among independent variables due to high correlation (Büyüköztürk,2011; Çokluk et al., 2010). One of these methods is the study of the correlation between the independent variables (Çokluk et al., 2010; Büyüköztürk 2010). As a result of the

correlation analysis conducted to find the level of relationship between independent variables, the highest relationship was found to be 0. 735. This finding might be used to express that a multiple connection problem does not exist between the independent variables.

Table 6. Regression Analysis Results in terms of Fantasy Sub-Dimension

	Variable	В	SH	Beta	t	p	Dual Correlation	Partly Correlation
	(Constant)	28,576	6,026		4,742	,000		
•	Team Prosocial	,283	,231	,114	1,223	,223	,081	,071
•	Opponent Prosocial	-,444	,248	-,155	-1,794	,074	-,119	-,104
•	Team Anti-Social	-,567	,186	-,272	-3,053	,003	-,199	-,177
•	Opponent Anti-Social	-,304	,094	-,290	-3,252	,001	-,212	-,189

 $R=0.49 R^2=0.24 F= 18.134 p=0.00$

Table 6 shows a negative, medium-level and meaningful relationship between antisocial behavior towards teammates and opponents, and fantasy levels. In other words, it may be said that as antisocial behavior towards teammates and opponents increases, the fantasy levels decrease. A meaningful relationship between prosocial-antisocial behavior of wheelchair basketball players and fantasy skills was found. $(R=.49,R^2=.24, p<.000)$.

Table 7. Regression Analysis Results in terms of Emphatic Concern Sub-Dimension

 Variable	В	SH	В	T	P	Dual Correlation	Partly Correlation
(Constant)	35,555	5,071		7,012	,000		
Team Prosocial	-,352	,195	-,181	-1,807	,072	-,120	-,113
Opponent Prosocial	-,405	,208	-,181	-1,944	,053	-,128	-,121
Team Anti-Social	-,759	,156	-,465	-4,854	,000	-,308	-,303
Opponent Anti- Social	-,091	,079	-,111	-1,156	,249	-,077	-,072

As can be seen in Table 7, when the bilateral and partial relationship between the prosocial-antisocial behavior of wheelchair basketball players and the dimension emphatic concern is studied, a negative medium-level and meaningful

correlation between antisocial behavior towards teammates and emphatic levels was found. A meaningful correlation was found between prosocial –antisocial behavior of wheelchair basketball players and empathic concern (R=.353,R=.109,p<.000).

Table 8. Regression Analysis Results in terms of Perspective Taking Sub-Dimension

Variable	В	SH	В	T	P	Dual Correlation	Partly Correlation
(Constant)	29,167	3,804		7,667	,000		
Team Prosocial	,057	,146	,037	,388	,699	,026	,023
Opponent Prosocial	,362	,156	,207	2,312	,022	,152	,138
Team Anti-Social	-,508	,117	-,398	-4,332	,000	-,277	-,259
Opponent Anti-	150	050	0.47	2 (77	000	177	1.00
Social	-,158	,059	-,247	-2,677	,008	-,176	-,160

 $R = .44 R^2 = .18 F = 13.48 p = 0.00$

When Table 8 is studied, a negative medium-level meaningful correlation between antisocial

behavior towards teammates and opponent, and perspective taking can be seen.

Table 9. Regression Analysis Results in terms of Personal Distress Sub-Dimension

Personal Distress	В	SH	В	t	P	Dual Correlation	Partly Correlation
(Constant)	-11,328	4,160		-2,723	,007		
Team Prosocial	,917	,160	,550	5,748	,000	,358	,342
Opponent Prosocial	,294	,171	,153	1,716	,087	,114	,102
Team Anti-social	,705	,e128	-,503	-5,497	,000	-,344	-,327
Opponent Anti-social	-,026	,065	-,037	-,409	,683	-,027	-,024

 $R = .449 R^2 = .19 F = 14.20 p = .000$

As can be seen in Table 9, when the bilateral and partial relationship between prosocial-antisocial behavior of wheelchair basketball players and the dimension personal distress is studied, a negative, medium-level and meaningful correlation between antisocial behavior towards teammates and personal distress levels was found. In addition, a

positive, medium-level meaningful correlation was found between the prosocial behavior of wheelchair basketball players and personal distress levels. A meaningful correlation was found between prosocial-antisocial behavior of wheelchair basketball players and personal distress levels (R=.45, R2=.19, p < .000).

DISCUSSION

In this study, the correlation between the empathy and fair-play behavior of wheelchair basketball players was studied and the effect of empathy on prosocial and antisocial behavior in sports was tried to be found. It is seen that wheelchair basketball players who are national athletes have higher fantasy and personal distress levels and prosocial behavior towards teammates and opponents when compared to athletes who are not national athletes. It is seen that antisocial behavior is more frequent with athletes who are not national athletes (Table 1). Wheelchair basketball players who were born with disabilities have higher empathic skills and prosocial behavior when compared to athletes who became disabled later in life. It is observed that athletes who became disabled later in life display antisocial behavior more frequently (Table 2). This may be interpreted as the fact that athletes who were disabled at birth are more willing to understand and help others. The research shows that athletes in the guard and striker positions have a higher tendency of displaying prosocial behavior towards teammates compared to players in the forward position. In addition, players positioned as strikers have a higher tendency of displaying antisocial behavior towards their opponents. Strikers are usually players who try to get the ball during defense and attack, get tough treatment from

opponents and similarly play tough themselves. This may be interpreted as that this condition emerges with the role and character of the player in the game.

The basic role of athletes who are in the guard position is to take the ball to the opponent court and organize the game. Taken from this point of view, the fact that the athletes in the guard position build the game and have higher prosocial points compared to their teammates is an expected result. It was found out that athletes in the forward and striker position have higher averages in perspective taking when compared to forward players. (Table 3). As a result of the regression analysis it was found that wheelchair basketball players with lower fantasy skills displayed higher antisocial behavior towards their teammates and opponents. The fantasy skill which is a dimension of empathy includes the ability to interpret events from other people's point of view, making objective decisions and putting yourself in place of a character in a play, film or book. The variable antisocial and prosocial behavior in sports explains 23% of the total variance in fantasy skills of wheelchair basketball players. On the other hand, according to standard regression coefficients (Beta) the order of importance for independent variables on fantasy skills is as follows: opponent antisocial, team antisocial, opponent prosocial and opponent antisocial. When the t-test results on the significance of regression coefficients is studied, it is seen that antisocial behavior towards teammates and antisocial behavior towards opponent are a meaningful predictor of fantasy skills. (Table 5)Another dimension of empathy is empathic concern. Empathic concern is showing a reaction to the sadness and distress of another person when witnessing such a situation. The 4 variables in the model account for 11% of the total variance related to the empathic concern skills of wheelchair basketball players. The order of importance for the effect of prosocial and antisocial behavior on empathic concern skills is as follows: team antisocial, team prosocial, opponent prosocial and opponent antisocial (Table 6). When perspective taking skill is studied, it is seen that athletes who are low in this dimension have higher antisocial behavior towards opponents as well as teammates. A meaningful relationship was found between the prosocial-antisocial behavior of wheelchair basketball players in sports and their perspective taking levels. (R=.44, R2=.18, p< .0009.)

The perspective taking skill which Hoffman (2001) states as the prerequisite to understand a person in need cognitively and emotionally and to give the appropriate response means looking at events from other people's eyes. The 4 variables in the model accounts for 18% of the total variance for the perspective taking levels of wheelchair basketball players. The order of importance for the independent variables on empathic concern is as follows: team antisocial, opponent antisocial, opponent prosocial and team prosocial. When the t-test results for the significance of regression coefficients is studied, it is seen that antisocial behavior towards teammates and opponent and prosocial behavior towards opponent are a meaningful predictor of perspective taking levels. (Table 7). Personal distress is the last dimension of empathy. The dimension personal distress includes the reaction to the situation the opposing side is in. According to the results of the study, as the antisocial behavior of wheelchair basketball players to their teammates increase, their level of personal distress decreases. As their antisocial behavior towards teammates increase, their interpersonal distress levels decrease. The 4 variables in the model account for 19% of the total variance for the personal distress levels of wheelchair basketball players. On the other hand,

according to standardized regression coefficients (Beta)the order of importance for the effect of independent variables on empathic concern skills is as follows: team prosocial, team antisocial, opponent antisocial and opponent prosocial. When the t-test results for the significance of regression coefficients is studied, prosocial and antisocial behavior towards teammates is a meaningful predictor of personal distress levels.

The fact that athletes in wheelchair basketball are classified according to their physical competence using various points means that the level of power among teams and competition is high. Participation in disabled sports has been increasing in recent years and it means more than medical and social rehabilitation. For this reason, wheelchair basketball is the most popular sport among disabled people. The interest of big sports clubs in wheelchair basketball is quite high and this promotes the economic dimension of this sport. In addition, national and international success stories add to the development of wheelchair basketball. Parallel to all these developments, wheelchair basketball players have become the main element of this sport. Wheelchair basketball players affected by different inabilities have different sources of motivation just like healthy athletes. With motivation, they display the highest performance and might have a tendency for prosocial and antisocial behavior with the feelings of success, winning and beating the opponent.

As a result, it may be said that while empathic skills promote prosocial behavior in wheelchair basketball players, it decreases antisocial behavior. This implies that empathy training which will be given to athletes to promote prosocial behavior is of great significance. Empathy training must be organized systematically according to the position of the athletes in the court and their ages. In addition, it is believed that prosocial behavior should be supported by trainers.

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