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# The Determined of Relationship Between Team Cohesion and Effective Communication Skill Levels in Volleyball Players

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#### Abstract

The aim of this research is to determine the relationship between team cohesion and effective communication skill levels in volleyball players. In the study, a descriptive relational survey model was used. The study group consists of 193 athletes, including 140 females and 53 males. For the "Group Environment Questionnaire (GEQ)", "Scale for Effective Communication in Team Sports" and personal information form were used as data collection tools. During the analysis phase, it was determined that the data had a normal distribution, and an Independent Sample T-Test, One-Way Analysis of Variance (ANOVA) test was used for group comparisons. The relationship between Group Environment and Effective Communication levels was determined by Pearson's Analysis. The analysis results showed that; there was no a significant difference according to gender, position and year of sport in the Group Environment Questionnaire. There was a significant difference according to marital status in the Group Environment-Task. In the Scale for Effective Communication in Team Sports; There was no a significant difference according to gender and position. There was a significant difference found according to age and marital status variables in the effective communication. There was a significant difference according to year of sport in disctinctiveness-negative conflict scores. As a result of the correlation analysis, there was a positive and moderate relationship between team cohesion with effective communication. However, it was determined that there was no a significant correlation between team cohesion and sub-dimension scores and distinctiveness -negative conflict scores. In this regard, it is foreseen that the cooperation of club technical members-athlete and including in-club social activities will be a supportive factor.

Keywords: Team Sports, Team Cohesion, Team Communication, Volleyball

Voleybol Oyuncularında Takım Uyumu ile Etkili İletişim Beceri Düzeyleri Arasındaki İlişkinin Belirlenmesi

#### Özet

Bu araştırmanın amacı, voleybolcularda takım uyumu ile etkili iletişim beceri düzeyleri arasındaki ilişkinin belirlenmesidir. Çalışmada, betimsel nitelikte ilişkisel tarama modeli kullanılmıştır. Çalışma grubu, 140 kadın 53 erkek olmak üzere 193 sporcudan oluşmaktadır. Veri toplama aşamasında "Takım Birlikteliği Envanteri", "Spor Takımları İçin Etkili İletişim Ölçeği" ve kişisel bilgi formu kullanılmıştır. Analiz aşamasında verilerin normal dağılım gösterdiği belirlenmiş olup, grup karşılaştırmaları için Bağımsız Örneklem T-Testi, Tek Yönlü Varyans Analizi (ANOVA) testi kullanılmıştır. Takım Birlikteliği ile Etkili İletişim düzeyleri arasındaki ilişki ise Pearson's Analizi ile belirlenmiştir. Analiz sonucunda takım birlikteliği envanterinde; cinsiyet, yaş, spor yılı, mevki değişkenine göre anlamlı farklılık görülmemiştir. Medeni durum değişkenine göre takım birlikteliği-görev puanları arasında anlamlı fark saptanmıştır. Etkili iletişim ölçeğinde; cinsiyet ve mevki değişkenine göre anlamlı fark görülmemiştir. Yaş ve medeni duruma göre etkili iletişim puanları arasında anlamlı fark saptanmıştır. Spor yılına göre ayırt etmenegatif çatışma puanları arasında pozitif yönde ve orta düzeyde anlamlı ilişki tespit edilmiştir. Takım birlikteliği ve alt boyut puanları ile etkili iletişim ve kabul etme-pozitif çatışma puanları arasında pozitif yönde ve orta düzeyde ilişki saptanmıştır. Bu hususta kulüp teknik üyeleri-sporcu iş birliği ile kulüp içi sosyal etkinliklere yer verilmesinin destekleyici bir unsur olacağı öngörülmektedir.

Anahtar Kelimeler: Takım Sporları, Takım Uyumu, Takım İletişim, Voleybol

#### INTRODUCTION

Individuals are constantly in contact in daily life (1). Therefore, the importance and value of the concept of communication are felt more and more today. The communication skill levels of individuals are effective in the success of all professions institutions, organizations, scientific fields. In this context, communication is also considered to be an important concept in the field of sports. As a matter of fact, the intensive training systems and camp periods in which athletes are involved can negatively affect many areas of their lives. Athletes can be subjected to cruel criticism by performing in front of many people they have never seen and know before. In such cases, the high communication skills of the athletes and the opportunity to express their thoughts in the most accurate way can minimize possible problems. Therefore, athletes who are frequently in contact with their teammates, coaches, spectators and the media should have effective communication skills to protect their status and increase their sports performance (2).

One of the main ways to create a successful team is to ensure that individuals are integrated within the team. When team athletes provide team integration beyond being individuals, the ground is prepared for the emergence of high-level performances. In the field of sociology, team collaboration, which is identical with the concept of group collaboration, is defined as "the commitment state that holds the team or group together". Festinger et al. (3) refer to team collaboration as "all the forces that are effective in the coexistence of the group members" (4). Team success, which is parallel to team integration, needs to be carried out in a systematic and stable manner in terms of emotional and mental aspects. It is very difficult for teams that constantly experience negative fluctuations to ensure success and continuity (5,6). According to Deutsc (7), teams with high engagement tend to advance to the goal as a whole. So much so that while group engagement increases efficiency and success when it is revealed from the common goals of the group, it does not have the desired effect for success when it is revealed for individual reasons. Similarly, Seashore (8) states that while the success graph of teams with high group commitment increases, it becomes very difficult to about success for teams with

commitment (9). One of the basic elements of achieving success is the determination of the duties and responsibilities of individuals within the group. Task distributions within the team enable individuals to understand that they have different qualities and increase loyalty to the team. When evaluated in the sports world, this situation shows its effects with concepts such as team spirit, team integration, synergy and team play (10).

Team success is ensured by effective and continuous interaction between athletes. In other words, the communication that the athletes will establish with each other also shapes the success of the team. As a matter of fact, providing feedback to the athlete about his performance is provided by good communication and interaction within the club. For example; while all team players may be harmed by the decrease in the performance of a player in the volleyball branch where mutual interaction is high, it is not possible to talk about the same effect for the baseball branch within individual sports (11). In this regard, it is seen as an important element that volleyball players have good communication skills and ensure a group environment. The aim of this study is to examine the relationship between environment and communication skills levels in volleyball players.

#### MATERIAL AND METHOD

#### Research Model

In this study, a descriptive relational scanning model was used as one of the quantitative research methods. In the quantitative research method, events and situations are measured by making individuals concrete in such a way that they meet at a common point (12). The scanning method aims to collect data to determine certain characteristics in a group (13).

#### The Universe of the Research

The universe of the research consists of volleyball players in Turkey. The sample group of the study consists of 140 female and 53 male at professional and amateur levels, a total of 193 volleyball players. According to the categorization of Turkish Volleyball Federation player competing in the 1st league and 2nd league were professional and players competing in regional leagues were amateur.

#### **Data Collection**

#### **Personal Information Form:**

In order to reach the demographic information of the participants, a five-item personal information form (gender, age, marital status, sports year, position) prepared by the researcher was used.

#### Group Environment Questionnaire (GEQ):

The inventory developed by Carron et al. (14) was adapted into Turkish by Unutmaz et al. (15). The scale was consisted of 18 items and 4 subdimensions (individual attraction to group social, individual attraction to group task, group integration-social, group integration-task). These sub-dimensions were individual attraction to group social (1,3,5,7,9 items), individual attraction to group task (2,4,6,8 items), group integrationsocial (11,13,15,17 items) group integration-task (10, 12, 14, 16, 18 items). The inventory is of the Likert type of 9 and the items are "1=I disagree at all..... 9=I completely agree." The inventory contains reverse substances (1,2,3,4,6,7,8,11,13,14,17,18).The internal consistency coefficients of the inventory were calculated as  $\alpha$ =.61 for the individual attraction to group social sub-dimension,  $\alpha$ =.67 for the individual attraction to group task subdimension,  $\alpha$ =.63 for the group integration-social sub-dimension and  $\alpha$ =.65 for the group integration-task sub-dimension. The total internal consistency coefficient of the inventory was determined as  $\alpha$ =.82 (15). In the study; the overall Cronbach's Alpha value of the scale was determined as  $\alpha$ =.83, the task sub-dimension as  $\alpha$ =.74, and the social sub-dimension as  $\alpha$ =.65. When the literature is in the inventory; it is possible to come across studies in which task (2, 4, 6, 8, 10, 12, 14, 16, 18) and social (1, 3, 5, 7, 9, 11, 13, 15, 17) are used in two sub-dimensions (16, 17).

# Scale for Effective Communication in Team Sports:

The scale developed by Sullivan and Feltz (18) was adapted by Alkan (19) to Turkish team athletes. The scale consists of 2 sub-dimensions and 15 items: acceptance and positive conflict (3,4,5,6,8,11,13,14,15), distinctiveness and negative conflict (1,2,7,9,10,12) sub-dimension. The scale is of the Likert type of 7 and the items are "1= Never.... 7= Always". The internal

consistency coefficients of the scale were determined as  $\alpha$ =.85 for the acceptance and positive conflict sub-dimension,  $\alpha$ =.78 for the distinctiveness and negative conflict sub-dimension, and the total internal consistency coefficient of the scale as .85 (19). In the study; the overall Cronbach's Alpha value of the scale was determined as  $\alpha$ =.84, the acceptance and positive conflict sub-dimension as  $\alpha$ =.89, and the distinctiveness and negative conflict sub-dimension as  $\alpha$ =.72.

#### Methodology

The Group Environment Questionnaire (GEQ), Scale for Effective Communication in Team Sports and personal information form were used as data collection tools. The participants filled the scales as online on Google Forms application.

#### **Statistical Analysis**

The sample size was determined as five times of the scale item count (49). According to Kolmogorov-Smirnov / Shapiro-Wilk test results, it was determined that the data showed suitability to the normal distribution. In the research, according to gender and marital status variables, differences between effective communication and group environment levels for sports teams were determined by student t-test; differences according to age, sports year and position variables were determined by one-way variance (ANOVA) and Tukey multiple comparison test. Pearson's correlation analysis was used to determine the relationship between effective communication and group environment in volleyball players. In the study, SPSS 21.0 statistical package program was used for the analysis of the data. The research findings were given as number of people (n), standard deviation (sd) and mean  $(\vec{x})$ , and differences in importance level of 0.05 were considered significant.

#### **Ethical Aspect of Research**

The ethical report of the study was approved by Gümüshane University Scientific Research and Publication Ethics Board with the document dated 23.02.2022 and numbered 2022/1. Permission to use was obtained from the authors of the scales via e-mail. The scales were applied to the participants on a voluntary basis.

#### **FINDINGS**

Table 1. Demographic Chara	cteristics of Athletes		
Variables	Category	n	%
Gender	Female	140	72.5
Gender	Male	53	27.5
	18-21	93	48.2
Age	22-25	62	32.1
	26 and older	38	19.7
Marital Status	Married	181	93.8
Maritai Status	Single	12	6.2
	1-5 years	47	24.4
Sports Year	6-10 years	77	39.9
	11 years and over	69	35.8
	Setter	30	15.5
	Setter's Diagonal	28	14.5
Position	Middle Blocker	39	20.2
	Hitter	66	34.2
	Libero	30	15.5

193 volleyball players, including 140 women (72.5%) and 53 men (27.5%) participated in the study. In terms of age, 93 people (48.2%) in the 18-21 age range, 62 people in the 22-25 age range (32.1%), and 38 people in the 26 and older age range (19.7%) participated. In the marital status variable, it is seen that 181 people are married (93.8%) and 12 people are single (6.2%). In the sports year, 47 people (24.4%) participated in the 1-5 range, 77 people in the 6–10- year range (39.9%), and 69 people (35.8%) in the 11 years and above range. In the position variable, it is seen that the setter player is 30 people (15.5%), the setter cross player is 28 people (14.5%), the middle player is 39 people (20.2%), the slammer player is 66 people (34.2%), and the libero player is 15.5 people (15.5%) (Table 1).

Table 2. T-Test Results on	the Differen	nces in (	Group Envir	onment Qu	estionnaire and	Effective
Communication Scale Scores by	y Gender and	Marital S	tatus Variable	2		
Scales and Sub-Dimensions	Gender	n	x̄	sd	t	p
Social	Female	140	6.24	1.45	-1.900	.059
Social	Male	53	6.67	1.30	-1.900	
Task	Female	140	6.97	1.55	.127	.899
Task	Male	53	6.94	1.34	.127	.077
Group Environment	Female	140	6.60	1.39	925	.356
Questionnaire	Male	53	6.81	1.22	923	.330
Acceptance and	Female	140	46.98	12.33	-1.209	.228
Positive Conflict	Male	53	49.26	9.75	-1.209	.220
Distinctiveness and	Female	140	26.82	7.58	213	.831
Negative Conflict	Male	53	27.09	8.81	213	.831
	Female	140	73.80	15.96	000	.319
Effective Communication Scale	Male	53	76.35	15.51	998	
	Marital Status					
6 . 1	Married	181	7.04	1.30	1.704	
Social	Single	12	6.31	1.42	1.724	.086
Т. 1	Married	181	8.18	.569	( 50(	001*
Task	Single	12	6.88	1.50	6.536	.001*
Group Environment	Married	181	7.61	.893	0.551	100
Questionnaire	Single	12	7.43	1.35	2.551	.120
Acceptance and	Married	181	58.25	5.22	( F10	001*
Positive Conflict	Single	12	46.90	11.67	6.519	.001*
Distinctiveness and	Married	181	32.80	3.71	2.727	070
Negative Conflict	Single	12	30.50	7.96	2.727	.070
Effective Communication C 1	Married	181	91.08	7.45	2.07/	001*
Effective Communication Scale	Single	12	73.40	15.64	3.876	.001*
* p<0.05	-					

There was no a significant difference between group environment and sub-dimension scores according to gender (p>0.05). There was no a significant difference between effective communication and sub-dimension scores by gender (p>0.05). There was no a significant difference between group environment and social scores according to marital status (p>0.05). A significant difference was found between the task scores according to marital status (p<0.05). A significant difference was found between effective communication and acceptance-positive conflict scores according to marital status (p<0.05). There was no a significant difference between distinctiveness according to marital status and negative conflict scores (p>0.05) (Table 2).

**Table 3.** One-Way Analysis of Variance Results on the Differences in Group Environment Questionnaire Scores and Effective Communication Scale Scores by Age Variable

Scales and Sub-Dimensions	Age	n	χ̄	sd	f	р
	18-21	93	6.40	1.32		
Social	22-25	62	6.35	1.59	.121	.886
	26 and older	38	6.27	1.41	-	
	18-21	93	7.07	1.38	_	
Task	22-25	62	6.78	1.49	.740	.479
	26 and older	38	7.00	1.73		
Communication of the communica	18-21	93	6.74	1.22	_	
Group Environment  Ouestionnaire	22-25	62	6.56	1.47	.318	.728
Questionnaire	26 and older	38	6.63	1.47		
At	18-21	93	47.08	11.37		
Acceptance and Positive Conflict	22-25	62	47.72	10.79	.262	.770
i ositive Connict	26 and older	38	48.71	13.96		
Distinctiveness and	18-21	93	25.03b	8.49	_	
Negative Conflict	22-25	62	27.29b	6.94	7.831	.001*
Negative Conflict	26 and older	38	30.81a	6.45		
Effective Communication Scale	18-21	93	72.11b	15.14		
	22-25	62	75.01ab	15.08	3.060	.049*
	26 and older	38	79.52a	17.79		
* p<0.05			•			

There was no a significant difference between group environment and sub-dimension scores according to age (p>0.05). There was no a significant difference in effective communication and distinctiveness -negative conflict scores according to age (p<0.05). There was no a significant difference in acceptance-positive conflict scores according to age (p>0.05) (Table 3).

**Table 4.** Results of One-Way Analysis of Variance on the Differences Group Environment Questionnaire and Effective Communication Scale Scores by Sport Year Variable

Scales and Sub-Dimensions	Sports Year	n	$\bar{\mathbf{x}}$	sd	f	p
	1-5 years	47	6.71	1.26		
Social	6-10 years	77	6.12	1.39	2.557	.080
	11 years and over	69	6.38	1.52		
	1-5 years	47	7.27	1.28	_	
Task	6-10 years	77	6.67	1.47	2.728	.068
	11 years and over	69	7.08	1.59	•	
Constant English and the	1-5 years	47	6.99	1.13		
Group Environment  Ouestionnaire	6-10 years	77	6.40	1.33	3.031	.051
Questionnaire	11 years and over	69	6.73	1.46	•	
A 1	1-5 years	47	48.36	10.20		
Acceptance and Positive Conflict	6-10 years	77	47.11	10.71	.164	.849
Positive Conflict	11 years and over	69	47.65	13.68	•	
D 1	1-5 years	47	22.76b	8.61		
Distinctiveness and	6-10 years	77	27.07a	7.36	11.253	.001*
Negative Conflict	11 years and over	69	29.50a	6.88	•	
Effective Communication Scale	1-5 years	47	71.12	14.05		
	6-10 years	77	74.19	14.77	2.074	.129
	11 years and over	69	77.15	17.77	<u>-</u>	

There was no a significant difference between group environment and sub-dimension scores according to the sports year (p>0.05). There was no a significant difference between effective communication and acceptance-positive conflict scores according to the year of sport (p>0.05). Significant differences were found in distinctiveness and negative conflict scores according to the sports year (p<0.05) (Table 4).

**Table 5.** One-Way Analysis of Variance Analysis on the Difference of Group Environment Questionnaire and Effective Communication Scale Scores According to Position Variable

Scales and Sub-Dimensions	Position	n	x̄	sd	f	p	
Social	Setter	30	6.53	1.40	_		
	Setter's Diagonal	28	6.00	1.40	_		
	Middle Blocker	39	6.25	1.60	1.003	.407	
	Hitter	66	6.35	1.40	_		
	Libero	30	6.68	1.27			
	Setter	30	7.19	1.36	_		
	Setter's Diagonal	28	6.38	1.75	_		
Task	Middle Blocker	39	6.95	1.45	1.396	.237	
	Hitter	66	7.05	1.35	_		
	Libero	30	7.10	1.64	_		
	Setter	30	6.86	1.25	_		
C Ei	Setter's Diagonal	28	6.19	1.47	_	.275	
Group Environment Questionnaire	Middle Blocker	39	6.60	1.41	1.291		
Questioniane	Hitter	66	6.70	1.26			
	Libero	30	6.89	1.38			
	Setter	30	48.93	11.87			
	Setter's Diagonal	28	44.10	12.75	_		
Acceptance and Positive Conflict	Middle Blocker	39	46.15	12.90	1.253	.290	
1 ostave commet	Hitter	66	48.25	10.93			
	Libero	30	50.03	10.23	=		
	Setter	30	27.00	8.32			
D: :: :: 1	Setter's Diagonal	28	28.00	7.00	-		
Distinctiveness and	Middle Blocker	39	26.00	6.47	1.026	.395	
Negative Conflict	Hitter	66	25.95	8.72	-		
	Libero	30	29.00	8.10	-		
	Setter	30	75.93	16.85			
	Setter's Diagonal	28	72.10	17.20	=		
Effective Communication Scale	Middle Blocker	39	72.15	15.91	1.055	.380	
	Hitter	66	74.21	15.01	=		
	Libero	30	79.03	15.11	_		

There was no a significant difference between group environment and sub-dimension scores according to the position variable (p>0.05). There was no a significant difference between effective communication and sub-dimension scores according to the position variable (p>0.05) (Table 5).

**Table 6.** Pearson Correlation Analysis Results of the Relationship Between Group Environment Questionnaire Inventory and Effective Communication Scale Scores

		Scale for Effective Communication in Sports Teams				
		Acceptance and		Distinctiveness and	Total Point	
			Positive Conflict	Total Follit		
Group Environment Questionnaire —	Total Point	r	.603	.662	.430	
	Total Follit	р	.001*	193	.001*	
	Social	r	.524	.005	.389	
		р	.001*	.943	.001*	
	Task	r	.592	062	.406	
		p	.001*	.389	.001*	
* p<0.01						

In the study, a positive and moderately statistically a significant relationship was found between group environment and effective communication total scores (p<0.01). A positive and moderate relationship was found between group environment and sub-dimension scores and effective communication and acceptance-positive conflict scores (p<0.01) (Table 6).

#### **DICCUSION**

In the research; it is aimed to determine the relationship between group environment and effective communication skill levels in volleyball players.

As a result of the research, there was no a significant difference between effective communication and sub-dimension scores by gender. When the literature studies are examined, it is found that the study findings are similar to the results of this research (11, 20, 21). On the other hand, the findings of the studies conducted by Kılcıgil et al. (22), Tepeköylü et al. (23) are not similar to the results of the current research. In addition to these results; there was no a significant difference between group environment and sub-dimension scores according to gender. As a result of the literature review, in the study conducted by Molla et al. (24), no a significant difference was found between the duty scores according to the gender variable. In the study conducted by Polat (25), there was no a significant difference in the team collaboration scores according to gender and it was seen that the findings supported the findings of this study. On the other hand, in the study conducted by Molla et al. (24), a significant difference was found between group collaborationsocial scores according to gender. In the study conducted by Sezer (26), a significant difference was determined between the group collaboration scores according to gender and the findings were not similar to the findings of this study. It is predicted that the difference between the findings is due to the psychosocial characteristics of the branches and individuals.

Significant differences were found in effective communication and distinctiveness and negative conflict scores according to age. There was no a significant difference in age-based acceptance and positive conflict scores. When the difference for the total score of the scale was examined among the groups, it was seen that those in the age range of 26 and over had higher values than the 18-21 age range. When it is examined for the sub-dimension of Turkish Journal of Sport and Exercise / Türk Sport ve Forzersiz Deroisi 2022 74(7)-172-131

distinctiveness and negative conflict; it was found that those who were 26 and over had higher scores than those aged 18-21 and 22-25. When the literature studies are examined, it is possible to come across studies that are similar to the findings of this study (20, 27, 28, 29). On the other hand, the study findings made by Ulukan (11) Tepeköylü et al. (23) do not support the findings of the current study. In addition to these results; there was no a significant difference between group environment and sub-dimension scores according to age. As a result of the literature review, in the study conducted by Polat (25), there was no a significant difference between individual attractiveness duty-social scores according to age variable. In the study conducted by Yolcu (30) and Solmaz (31), there was no a significant difference between team collaboration scores according to age. In the study conducted by Şimşek (32), there was no significant difference between the collaboration scores according to age and it was seen that the findings supported the findings of this study. On the other hand, in the study conducted by Polat (25), there was a significant difference between group collaboration duty-social scores according to age variable. In the study conducted by Tatar (33), a significant difference was found between group collaboration and duty scores and the findings were not similar to the findings of the current study. The difference between the findings can be related to the dominance of the hierarchical system in the volleyball branch and the "awareness of being a team" of the athletes.

There was no a significant difference between the total score of the effective communication scale according to the sports year. There was no a significant difference between effective communication and acceptance-positive conflict scores according to the sports year. There was a significant difference in distinctiveness and negative conflict scores according to the sports year. When it was examined which groups the difference was between was examined, it was found that those who had 1-5 years of sports years had higher values than those who had 6-10 years and 11 years and over. As a result of the literature review, it is possible to come across studies that support the result of the current research (28, 34, 35, 36, 37). On the other hand, the study findings made by Savcı (20), Abakay and Kuru (38) are not similar to the findings of the current study. In addition to these results; according to the sports year variable, no a significant difference was found between group environment and sub-

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dimension values. As a result of the literature review, in the study conducted by Polat (25), there was no a significant difference between group collaboration duty-social and individual attractiveness-duty scores according to the sports year variable. In the study conducted by Yolcu (30), no a significant difference was found between team collaboration scores according to sports year. In the study conducted by Şimşek (32), there was no a significant difference between the group collaboration scores according to the sports year and it was seen that the findings supported the findings of this study. On the other hand, in the study conducted by Polat (25), a significant difference was determined between individual attractiveness-social scores according to the variable of sports year. In the study conducted by Tatar (33), a significant difference was found between individual attractiveness-duty scores according to the sports year and the findings were not similar to the findings of the current study. It is thought that the difference between the findings is related to the level of activity and social activity of the athletes within the club they belong to.

According to the position variable, there was no difference significant between communication and sub-dimension scores. When the literature studies are examined, it is possible to come across studies of a similar kind with the results of this current research (28, 39). On the other hand, in a qualitative study conducted by Bottino (40), it was stated that the positions of athletes are a determining factor in coach-athlete communication. Similarly, in the study conducted by Hacıcaferoğlu and Bakırcı (41), a significant difference was found between communication scores according to the position variable and the findings were not similar to the findings of the current study. In addition to these results; according to the position variable, there was significant difference between group environment and sub-dimension scores. As a result of the literature review, in the study conducted by Polat (25), no a significant difference was found between the team collaboration sub-dimension scores according to the position variable. In the study conducted by Tümbaşer (42), there was no a significant difference between the collaboration scores according to the position variable and it was seen that their findings supported the findings of the current study. On the other hand, in the study conducted by Moralı and Doğan (43), it was stated that team collaboration was ensured after the training process of athletes working in different positions. In the study conducted by Carron (44), it was stated that team positions are one of the basic elements of group collaboration and the findings are not similar to the findings of this study. It is possible to say that the difference between the findings is due to the fact that the athletes put the team's success ahead of their individual achievements.

A significant difference was found between the total score of effective communication according to marital status. When the sub-dimensions are examined; there was no a significant difference between distinctiveness by marital status and negative conflict scores. According to marital status, significant difference between was acceptance-positive conflict scores. In this regard, it was found that those who were married have higher communication scores than single athletes. As a result of the literature review, it was determined that the results of the research conducted by Aksoy (45), Boz et al. (36), Akbaş (46) were similar to the results of the current research. On the other hand, the study findings made by Akgül and Mutlu (34) Kumcağız et al. (47) are not similar to the findings of the current study. In addition to these results; there was no a significant difference between group environment and social scores according to marital status. According to marital status, there was a significant difference between the task scores. In this regard, it was determined that those who are married have higher values compared to those who are single. When the literature studies were examined, no a significant difference was found between the team collaboration scores according to the marital status variable in the study conducted by Tatar (33). In the research conducted by Şimşek (32), there was no a significant difference in group collaboration scores according to marital status and the findings are similar to the results of the current research. It is thought that the difference between the findings may be due to the fact that married athletes undertake a mission to create a family environment within the team.

Finally, a positive and moderately a significant relationship was found between group environment scores and effective communication scores in volleyball players. A positive and moderate relationship was found between group environment and sub-dimension scores and effective communication and acceptance-positive conflict scores. There was no a significant relationship between group environment and sub-dimension scores and distinctiveness -negative conflict scores.

There have been no studies on the relationship between the two scales in the literature, but similar studies have been identified. Boz et al. (36) found that as the communication levels of sports managers increase, the motivation of employees to work also increases. Abakay and Kuru (38) stated in their study that as the level of communication of female athletes with their coaches increased, their motivation for success also increased. In another study, Güzel et al. team communication found that collaboration affect team success. The studies mentioned in the literature coincide with the findings of this study. In this regard, it is possible to say that while team collaboration increases, intra-team communication also increases in volleyball players, and as team collaboration decreases, effective communication within the team also decreases. The fact that the concepts of communication and collaboration are related in the volleyball branch within the team sports supports the hypothesis of the study. As a matter of fact, volleyball is thought to be a sport that is open to harmony and interaction within the team. It is thought that the fact that athletes have communication skills will bring success. So much so that athletes spend time together on and off the field and become a whole in both their social and sports lives. At this point, it should be noted that the technical members of the club (coach, manager, conditioner, etc.) play an important role. In particular, it is thought that it may be useful to evaluate a lost competition as a team failure compared to individual reasons. Social activities within the club are seen as another supporting element.

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