

J. Basic. Appl. Sci. Res., 2(6)6098-6107, 2012 © 2012, TextRoad Publication ISSN 2090-4304 Journal of Basic and Applied Scientific Research www.textroad.com

# The Relationship between the Professional Female Basketball Players' Personality Profiles and Their Position in a Play

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### ABSTRACT

To investigate the relationship between the selected personality profile and also the position of the players in the professional female basketball players was the aim of this study. The sample contains 107 professional Iranian female basketball players, who completed the Minnesota Multiphase Personality Inventory-2 (MMPI2Rf). The personality profile of the basketball players included specific clinical problems and PSY-5 profiles. The One-way statistical method of ANOVA was used to examine the differences of the personality among the groups of the players in five different positions (p=0.01). The results have shown, that the five personality factors aggressiveness, shyness, interpersonal passivity, low positive emotions, and inefficacy were significantly different in various positions (point guard, shooting guard, small forward, power forward and center).

**KEY WORDS:** Personality; Position; MMPI2Rf; Basketball.

# **1-INTRODUCTION**

For many years, there was an increasing interest in the investigation of the athlete's personality. This belief, that a relationship exists between the personality and the physical abilities, was an assumption, which was long kept by the educators, the coaches, the trainers, and the others, who were involved in the exercise. And this subject was frequently discussed. Some of the above persons or groups believe, that the personality can play an important role in developing a skilled person or player [1,2].

The athlete's personality was examined by researchers in many different ways. For example, many have studied the differences of the personality between the athletes and also the non-athletes [3-5]. The others studied the players of a team and also the individual sports [6-8]. The differences of the personality have been found between the successful and unsuccessful players [9] and also between the athletes in different sports [5,10]. There were some studies, which have examined on the relationship between the position of the players and the athletes' personalities. [11-13].

Schaubhut et al. (2006) studied the North American professional football player's personality profile and also examined on the differences in the different positions and also offence vs. defense; cpi260 was used in this study. The results showed some differences of the personality among the players in different positions [13].

Five types of players are known in basketball: point guards, shooting guards, small forwards, power forwards, and center. They are different in a basketball game according to their positions in the playground as well as their playing roles in the defense and offence team tactics. So the positions in the basketball game are the important parts of a general strategy. And according to the positions of the play, it is necessary to divide the players, in order to improve the offence and defense abilities and also increase the efficiency.

Two researchers in Slovenia, who were busy with the different dimensions of psychological states in the young basketball players, studied some of the basketball's positions like guards, forwards, and center [14].

The relationship between the personality profile in the professional basketball players and their positions in the team has been not adequately studied. This study also tried to fill this gap in the literature by examining the personality profile of the professional female basketball players. Furthermore, the two items, testing of the personality in the talent identification process and also understanding the athlete's personality for predicting the future athletic success ,can help the educators to select the members of their teams.

In this study, we examined the differences in the selected personality profiles of the professional Iranian female basketball players in five different positions.

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### 2. METHODS

### 2.1 participants

The participants included 107 Iranian female basketball players. The sample made up of 105 players, who were classified in 26 point guards, 26 shooting guards, 18 small forwards, 17 power forwards, and 20 centers. Their coach selected their positions of the play. It was also the position of the play in the national championship matches. The average age of the athletes, who wanted to participate in the study as volunteers was  $23.54\pm1.28$  years.

### 2.2 Instrument

Psychological profile of the basketball players were assessed using Minnesota Multiphase Personality Inventory-2 (MMPI2Rf- revised 2008). It consisted of 12 clinical scales, 25 problems of the specific scales, and 5 PSY-5 Scales.

## 2.3 Data analysis methods

The data were analyzed with descriptive statistics and one sample t test. The statistics were calculated using SPSS 6.0 package. The statistical method was One-way ANOVA.

# **3. RESULTS**

As there was an only slow difference among median, mode and mean in all scales and as skew coefficient and coefficient of kurtosis, is the distribution of data was normal and the mean can be used as a measure of central tendency (Table 1, 2, 3). One-way ANOVA was used to compare the means of the personality trait with an emphasis on the clinical specific problems and PSY-5 profiles of players in different positions.

Table 1	-Statistical	index	kes and	anal	ysis o	fvariance	for c	linical	scal	e in	five	different	basketball	positions
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Clinical profile	Position	mean	Standard deviation	Significant level	
	point guard	13.80	8.60		
	shooting guard	13.88	5.92		
Internalizing Dysfunction	small forward	11.16	6.24		
	power forward	13.76	3.63	0.606	
	Center	12.75	4.25		
	point guard	7.30	4.23	_	
	shooting guard	8.03	4.62		
Thought Dysfunction	small forward	7.50	3.36	0.426	
	power forward	5.82	3.57	0.426	
	Center	8.20	4.26	_	
	point guard	6.76	3.99		
	shooting guard	7.42	3.52		
Behavioral Dysfunction	small forward	7.16	3.58		
	power forward	7.76	2.86	0.833	
	Center	6.60	3.28		
	point guard	6.88	4.76	_	
	shooting guard	7.69	4.20		
Demoralization	small forward	7.38	4.39	0.004	
	power forward	6.70	2.88	0.894	
	Center	7.75	3.72		
	point guard	8.46	3.69		
	shooting guard	9.61	4.43		
Somatic Complaints	small forward	7.61	2.68	0.011	
	power forward	8.11	2.82	0.211	
	Center	5.70	1.72		
	point guard	5.11	3.02	-	
	shooting guard	5.00	2.48		
Low Positive Emotions	small forward	3.55	1.68	0.011**	
	power forward	6.29	1.40	0.011**	
	Center	5.70	2.17		
	point guard	8.23	2.38		
	shooting guard	8.96	2.30		
cynicism behavior	small forward	8.94	2.64	0.720	
	power forward	8.70	2.22	0.739	
	Center	8.15	2.83		
	point guard	5.42	3/28		

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	shooting guard	5.84	3.13	
Antisocial behavior	small forward	5.66	3.74	0.062
	power forward	5.23	2.65	0.902
	Center	5.25	3.02	
	point guard	4.42	2.98	
	shooting guard	6.07	2.52	
Ideas of Persecution	small forward	4.38	2.17	
	power forward	3.47	2.21	0.452
	Center	4.45	3.25	
	point guard	7.26	3.67	
	shooting guard	7.80	2.93	
Dysfunctional Negative	small forward	7.77	3.24	
Emotions	power forward	7.94	2.62	0.959
	Center	7.70	2.83	
	point guard	6.46	3.45	
	shooting guard	7.15	3.40	
Aberrant Experiences	small forward	6.61	2.85	
	power forward	5.00	3.18	0.256
	Center	7.00	2.73	
	point guard	9.07	3.80	
hippomanic activation	shooting guard	9.53	2.76	0.412
	small forward	10.16	2.87	
	power forward	8.82	2.53	
	Center	10.35	2.08	

Fig. 1 shows the mean clinical scales of MMPI2RF profiles for the selected positions including point guards, shooting guards, small forwards, power forwards, and center. Power forward was on average higher than low positive emotion scale compared to the other positions. Conversely the minimum amount of this scale was devoted to small forward position.



Figure 1: clinical profiles in five different basketball positions

Specific problem	position	mean	standard deviation	significant level
~p p	point guard	5.00	1.49	
	shooting guard	4.84	1.68	
Malaise	small forward	5.11	1.27	0.889
	power forward	4.64	1.36	
	center	4.85	1.27	
	point guard	0.5	0.90	
	shooting guard	1.34	1.38	
Costupintestingl complaints	small forward	0.83	0.92	0.109
Gastrointestinai complaints	power forward	1.11	1.21	0.108
	center	0.95	1.14	
	point guard	2.38	0.98	
	shooting guard	2.42	1.41	
head pain complaints	small forward	2.27	1.0/	0.890
<b>F</b>	power forward	2.11	1.16	
	center noint guard	2.15	2.01	
	shooting guard	3.40	2.01	
	small forward	2.94	1.58	
neurological complaints	power forward	2.74	1.96	0.274
	center	3.90	1.77	
	point guard	3.15	2.46	
	shooting guard	3.03	2.42	
	small forward	2.44	1.82	
Cognitive complaints	power forward	2.70	1.96	0.838
	center	2.80	1.73	
	point guard	1.07	1.23	
	shooting guard	1.30	1.12	
	small forward	0.66	0.76	0.100
Suicidal Ideation	power forward	0.58	0.61	0.123
	center	1.10	1.02	
	point guard	1.15	1.04	
	shooting guard	1.30	1.73	
helplessness_Hopelessness	small forward	1.38	1.46	0.662
neipressness-moperessness	power forward	1.64	1.11	0.002
	center	1.60	1.09	
	point guard	1.00	1.13	
	snooting guard	1.20	1.28	
self-doubt	siliali forward	1.22	1.01	0.934
	center	1.11	1.10	
	noint guard	3 53	1 72	
	shooting guard	4 53	1.72	
	small forward	3.83	2.45	
Inefficacy	power forward	5.64	1.69	0.008***
	center	3.80	2.19	
	point guard	2.50	1.44	
Stress	shooting guard	2.69	1.61	0.984
	small forward	2.55	1.65	
	power forward	2.70	1.49	
	center	2.70	1.17	
	point guard	1.69	1.46	
	shooting guard	1.50	1.20	
Anxiety	small forward	1.55	1.04	0.651
inacty	power forward	1.41	1.01	0.001
	center	2.00	1.58	
	shooting guard	3.40	1.4 /	
	shooting guard	5.50	44.1	
Anger Proneness	small forward	20.3	41.1	0.872
Ŭ	center	29.3	36.1	
	noint guard	15.3	82.1	0.552
	shooting guard	3 07	31.2	0.332
	small forward	72.3	44.2	
Behavior-restricting Fears	power forward	58.3	58.1	
	center	70.2	94.1	

Table 2-statistical index and analysis of variance for specific problems

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	point guard	73.3	18.2	
	shooting guard	34.4	43.2	
	small forward	61.3	97.1	-
Multiple specific Fears	power forward	88.3	3.11	0.214
	center	90.2	37.1	-
	point guard	42.1	17.1	
	shooting guard	57.1	33.1	
	small forward	88.1	88.2	-
Juvenile conduct problems	power forward	58.1	1.06	0.714
	contor	15.1	26.1	-
	point guard	72.0	93.0	
	shooting guard	1.02	20.1	
	shooting guard	02.0	39.1	_
substance abuse	small lorward	93.0	43.1	0.611
	power forward	17.1	13.1	
	center	30.1	41.1	
	point guard	42.3	2.06	_
	shooting guard	19.4	72.1	_
Aggression	small forward	35.3	72.1	0.496
Aggression	power forward	76.3	20.1	0.490
	center	60.3	81.1	
	point guard	4.03	34.2	_
	shooting guard	57.3	57.1	
	small forward	22.4	92.1	
Activation	power forward	82.3	87.1	0.203
	center	90.4	51.1	-
	point guard	57.2	94.1	
	shooting guard	34.2	17.2	
	small forward	2.11	67.1	
family problems	power forward	76.1	43.1	0.709
	center	35.2	84.1	-
	point guard	88.3	19.2	
			17.4	
	shooting guard	73.3	75.1	
	shooting guard	73.3	75.1	
interpersonal passivity	shooting guard small forward	73.3 77.2	75.1 86.1	0.009***
interpersonal passivity	shooting guard small forward power forward	73.3 77.2 76.4	75.1 86.1 67.1	0.009***
interpersonal passivity	shooting guard small forward power forward center	73.3 77.2 76.4 70.4	75.1 86.1 67.1 55.1	0.009***
interpersonal passivity	shooting guard small forward power forward center point guard	73.3 77.2 76.4 70.4 84.2 84.2	75.1 86.1 67.1 55.1 64.1	0.009***
interpersonal passivity	shooting guard small forward power forward center point guard shooting guard	73.3 77.2 76.4 70.4 84.2 88.2	75.1 86.1 67.1 55.1 64.1 2.01	0.009***
interpersonal passivity	shooting guard small forward power forward center point guard shooting guard small forward	73.3 77.2 76.4 70.4 84.2 88.2 50.2	75.1 86.1 67.1 55.1 64.1 2.01 33.1	0.009***
interpersonal passivity social avoidance	shooting guard small forward power forward center point guard shooting guard small forward power forward	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3	75.1 86.1 67.1 55.1 64.1 2.01 33.1 62.1	0.009***
interpersonal passivity social avoidance	shooting guard small forward power forward center point guard shooting guard small forward power forward center	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3	75.1 86.1 67.1 55.1 64.1 2.01 33.1 62.1 73.1	0.009***
interpersonal passivity social avoidance	shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3         30.2	75.1 86.1 67.1 55.1 64.1 2.01 33.1 62.1 73.1 59.1	0.009***
interpersonal passivity social avoidance	shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3         30.2         53.2	75.1 86.1 67.1 55.1 64.1 2.01 33.1 62.1 73.1 59.1 63.1	0.009***
interpersonal passivity social avoidance	shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard small forward	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3         30.2         53.2         77.1	75.1 86.1 67.1 55.1 64.1 2.01 33.1 62.1 73.1 59.1 63.1 76.1	0.009***
interpersonal passivity social avoidance Shyness	shooting guard small forward center point guard shooting guard small forward power forward center point guard shooting guard shooting guard small forward power forward	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3         30.2         53.2         77.1         52.3	75.1 86.1 67.1 55.1 64.1 2.01 33.1 62.1 73.1 59.1 63.1 76.1 15.2	0.009*** 0.307 0.008***
interpersonal passivity social avoidance Shyness	shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard small forward power forward center	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3         30.2         53.2         77.1         52.3         60.1	75.1 86.1 67.1 55.1 64.1 2.01 33.1 62.1 73.1 59.1 63.1 76.1 15.2 31.1	0.009*** 0.307 0.008***
interpersonal passivity social avoidance Shyness	shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard shooting guard small forward power forward center power forward	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3         30.2         53.2         77.1         52.3         60.1         30.1	75.1 86.1 67.1 55.1 64.1 2.01 33.1 62.1 73.1 59.1 63.1 76.1 15.2 31.1 78.0	0.009*** 0.307 0.008***
interpersonal passivity social avoidance Shyness	shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard small forward center point guard small forward center power forward center power forward small forward small forward center	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3         30.2         53.2         77.1         52.3         60.1         30.1         1.07	75.1 86.1 67.1 55.1 64.1 2.01 33.1 62.1 73.1 59.1 63.1 76.1 15.2 31.1 78.0 97.0	0.009*** 0.307 0.008***
interpersonal passivity social avoidance Shyness	shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard small forward power forward shooting guard	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3         30.2         53.2         77.1         52.3         60.1         30.1         1.07         38.1	75.1 86.1 67.1 55.1 64.1 2.01 33.1 62.1 73.1 59.1 63.1 76.1 15.2 31.1 78.0 97.0 33.1	0.009*** 0.307 0.008***
interpersonal passivity social avoidance Shyness Disaffilativeness	shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard shooting guard shooting guard gward forward	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3         30.2         53.2         77.1         52.3         60.1         30.1         1.07         38.1         88.0	75.1 86.1 67.1 55.1 64.1 2.01 33.1 62.1 73.1 59.1 63.1 76.1 15.2 31.1 78.0 97.0 33.1 16.1	0.009*** 0.307 0.008*** 0.460
interpersonal passivity social avoidance Shyness Disaffilativeness	shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3         30.2         53.2         77.1         52.3         60.1         30.1         1.07         38.1         88.0         50.1	75.1 86.1 67.1 55.1 64.1 2.01 33.1 62.1 73.1 59.1 63.1 76.1 15.2 31.1 78.0 97.0 33.1 16.1 46.1	0.009*** 0.307 0.008*** 0.460
interpersonal passivity social avoidance Shyness Disaffilativeness	shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard shooting guard small forward power forward center point guard shooting guard small forward power forward power forward power forward power forward	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3         30.2         53.2         77.1         52.3         60.1         30.1         1.07         38.1         88.0         50.1         84.2	75.1         86.1         67.1         55.1         64.1         2.01         33.1         62.1         73.1         59.1         63.1         76.1         15.2         31.1         78.0         97.0         33.1         16.1         46.1         28.1	0.009*** 0.307 0.008*** 0.460
interpersonal passivity social avoidance Shyness Disaffilativeness	shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard shooting guard small forward power forward center point guard shooting guard small forward power forward power forward power forward power forward power forward	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3         30.2         53.2         77.1         52.3         60.1         30.1         1.07         38.1         88.0         50.1         84.2         61.2	75.1         86.1         67.1         55.1         64.1         2.01         33.1         62.1         73.1         59.1         63.1         76.1         15.2         31.1         78.0         97.0         33.1         16.1         46.1         28.1         41.1	0.009*** 0.307 0.008*** 0.460
interpersonal passivity social avoidance Shyness Disaffilativeness	shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3         30.2         53.2         77.1         52.3         60.1         30.1         1.07         38.1         88.0         50.1         84.2         61.2         66.2	75.1         86.1         67.1         55.1         64.1         2.01         33.1         62.1         73.1         59.1         63.1         76.1         15.2         31.1         78.0         97.0         33.1         16.1         46.1         28.1	0.009*** 0.307 0.008*** 0.460
interpersonal passivity social avoidance Shyness Disaffilativeness Aesthetic-literary interests	shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard shooting guard shooting guard	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3         30.2         53.2         77.1         52.3         60.1         30.1         1.07         38.1         88.0         50.1         84.2         61.2         66.2         2.00	75.1         86.1         67.1         55.1         64.1         2.01         33.1         62.1         73.1         59.1         63.1         76.1         15.2         31.1         78.0         97.0         33.1         16.1         46.1         28.1         41.1         28.1         45.1	0.009*** 0.307 0.008*** 0.460
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interpersonal passivity social avoidance Shyness Disaffilativeness Aesthetic-literary interests	shooting guard small forward power forward center point guard shooting guard shooting guard small forward center point guard shooting guard small forward center point guard small forward center point guard shooting guard shooting guard small forward center point guard shooting guard small forward center point guard shooting guard small forward center point guard shooting guard small forward center point guard	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3         30.2         53.2         77.1         52.3         60.1         30.1         1.07         38.1         88.0         50.1         84.2         61.2         66.2         2.00         85.2         92.3	75.1         86.1         67.1         55.1         64.1         2.01         33.1         62.1         73.1         59.1         63.1         76.1         15.2         31.1         78.0         97.0         33.1         16.1         46.1         28.1         41.1         28.1         45.1         56.1	0.009*** 0.307 0.008*** 0.460 0.341
interpersonal passivity social avoidance Shyness Disaffilativeness Aesthetic-literary interests	shooting guard small forward power forward center point guard shooting guard shooting guard small forward center point guard shooting guard small forward power forward center point guard shooting guard shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3         30.2         53.2         77.1         52.3         60.1         30.1         1.07         38.1         88.0         50.1         84.2         61.2         66.2         2.00         85.2         92.3         15.4	75.1         86.1         67.1         55.1         64.1         2.01         33.1         62.1         73.1         59.1         63.1         76.1         15.2         31.1         78.0         97.0         33.1         16.1         46.1         28.1         41.1         28.1         45.1         56.1         93.1         82.1	0.009*** 0.307 0.008*** 0.460 0.341
interpersonal passivity  social avoidance  Shyness  Disaffilativeness  Aesthetic-literary interests	shooting guard small forward power forward center point guard shooting guard small forward power forward center	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3         30.2         53.2         77.1         52.3         60.1         30.1         1.07         38.1         88.0         50.1         84.2         61.2         66.2         2.00         85.2         92.3         15.4         82.2	75.1         86.1         67.1         55.1         64.1         2.01         33.1         62.1         73.1         59.1         63.1         76.1         15.2         31.1         78.0         97.0         33.1         16.1         46.1         28.1         41.1         28.1         45.1         56.1         93.1         82.1	0.009*** 0.307 0.008*** 0.460 0.341
interpersonal passivity social avoidance Shyness Disaffilativeness Aesthetic-literary interests Mechanical-Physical interests	shooting guard small forward center point guard small forward shooting guard small forward power forward center point guard shooting guard small forward power forward center	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3         30.2         53.2         77.1         52.3         60.1         30.1         1.07         38.1         88.0         50.1         84.2         61.2         66.2         2.00         85.2         92.3         15.4         83.3         64.2	75.1         86.1         67.1         55.1         64.1         2.01         33.1         62.1         73.1         59.1         63.1         76.1         15.2         31.1         78.0         97.0         33.1         16.1         46.1         28.1         41.1         28.1         45.1         56.1         93.1         82.1         46.1         46.1	0.009*** 0.307 0.008*** 0.460 0.341 0.919
interpersonal passivity         social avoidance         Shyness         Disaffilativeness         Aesthetic-literary interests         Mechanical-Physical interests	shooting guard small forward center point guard shooting guard shooting guard shooting guard small forward power forward center point guard small forward power forward center point guard shooting guard shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard small forward power forward center point guard shooting guard small forward power forward center	73.3         77.2         76.4         70.4         84.2         88.2         50.2         52.3         45.3         30.2         53.2         77.1         52.3         60.1         30.1         1.07         38.1         88.0         50.1         84.2         66.2         2.00         85.2         92.3         15.4         83.3         64.3	$\begin{array}{c} 75.1 \\ 86.1 \\ 67.1 \\ 55.1 \\ 64.1 \\ 2.01 \\ 33.1 \\ 62.1 \\ 73.1 \\ 59.1 \\ 63.1 \\ 76.1 \\ 15.2 \\ 31.1 \\ 78.0 \\ 97.0 \\ 33.1 \\ 16.1 \\ 46.1 \\ 28.1 \\ 41.1 \\ 28.1 \\ 41.1 \\ 28.1 \\ 45.1 \\ 56.1 \\ 93.1 \\ 82.1 \\ 46.1 \\ 49.1 \\ 75.1 \\ 56.1 \\ 93.1 \\ 82.1 \\ 46.1 \\ 49.1 \\ 75.1 \\ 56.1 \\ 93.1 \\ 82$	0.009*** 0.307 0.008*** 0.460 0.341 0.919



Figure 2: Profile for specific problems

Figure 2 illustrates the mean specific problem scales of MMPI2RF profiles for five different positions. Power forwards scored on average higher than the other positions on some of scales including shyness, inefficacy and interpersonal passivity.

PSY-5 profiles	position	Mean	Standard deviation	Significant level
	point guard	3.62	8.19	
	shooting guard	2.59	8.92	
Aggressiveness	small forward	2.52	9.83	0.056*
	power forward	2.75	7.23	
	center	2.96	7.65	
	point guard	4.11	7.30	_
	shooting guard	4.01	7.50	
	small forward	3.30	6.88	
Psychoticism	power forward	3.63	2.35	0.330
	center	3.92	7.60	
	point guard	4.42	7.73	
	shooting guard	2.50	6.84	
	small forward	2.28	6.94	0 = 10
Disconstraint	power forward	2.64	7.35	0.768
	center	2.66	6.65	
	point guard	3.74	7.53	_
	shooting guard	3.04	8.80	
	small forward	4.01	8.66	0.510
Neuroticism	power forward	2.95	7.41	0.510
	center	2.34	8.35	
	point guard	2.65	5.92	
	shooting guard	2.93	5.65	
<b>T</b> / · ·	small forward	2.16	4.66	0.226
Introversion	power forward	2.81	6.82	0.226
	center	2.72	5.80	

Table 3-statistical index and analysis of variance for PSY-5 profiles



Figure 3: pathology profile of PSY-5 personality Scales

As it can be observed in figure 3, the mean profile of PSY-5 scales and the small forward had the highest score, on average, in aggressiveness scale.

### **DISCUSSION AND CONCLUSION**

This study can help to the professional organizations and also the sport psychology literature. MMPI2RF scales were used to identify the clinical behaviors of the professional basketball players in different positions, who may be successful at point guard, shooting guard, small forward, power forward and center positions. This study showed, there were some personality differences among the players with different positions. According to the fourth Table and the obtained F value, the results indicated an important difference (p=0.01) in some factors like aggressiveness, shyness, inefficacy, low positive emotions and interpersonal passivity among the basketball players in the five different positions. Low positive emotions, interpersonal passivity, and shyness were some of the significant points, which play important roles in powering the forward position. Nevertheless the aggressiveness was remarkable in the small forward position.

personality scales	Significance level	F value	Mean of square	Degree of freedom	Sum of square
Low Positive	011** 0	11.3	64.18	4	59.74
Emotions	011 .0	44.5	42.5	102	82.552
I 60	000***	(2.2	88.13	4	55.55
Inefficacy	008***.0	02.3	82.3	102	50.390
			15.12	4	62.48
passivity	009***.0	56.3	41.3	102	13.348
CI	000***	(( )	43.10	4	74.41
Snyness	008***.0	66.3	84.2	102	14.290
	05.04.0	27.2	88.19	4	52.79
Aggressiveness- Revised	056*.0	27.2	74.8	102	99.891

Table 4- One-way ANOVA to compare the personality profile of the basketball players in five positions

Therefore, when the variances were homogenous, an LSD post hoc study was used to determine the differences between each two positions of the Iranian female professional basketball players. Because of this point the point guards and power forwards' profiles were compared like the following:

It can be observed the profile of the differences in the basketball players, the important difference in inefficacy (p=0.01) and shyness (p=0.01) between the point guards and power forwards in the fifth and sixth Tables.

Also, there were differences between the small and power forwards and finally between the power forwards and centers.

Many factors are involved in playing point guard positions. Some of these factors include, how the coach wants his/her point guard to operate, for example the style of the play, the abilities and talents of the teammates around the point guard, and the skills, temperament, experience and qualities of the leadership of the point guard are the important ones. The point guard must know his role in a team; whether we expect him to be an assistant, or a scorer. If the team has some excellent scorers, they also like to be the good assistant ones. If nobody exists as a strong scoring in the team, the point guard should be a scorer. These days it is important for the point guards to act as a good leadership and guide the team. And the power forward is usually responsible for scoring in a basketball team. A power forward should be a big and strong one and also should be able to clear some space under the basket. Although many great power forwards do not score lots of points today, they lead their teams. Power forwards are often good shot blockers. The results were in the same direction with the characteristics of each position. As the point guard is the team leader, and he/she is often known as a quarterback in football, he/she is considered as an efficient player [15].

The statistics show, that the center and small forward positions score more than power forwards. Because of this point it seems logical, that these two groups in some features like inefficacy and shyness have some important differences.

Table 5- the least significant defense (LSD) in the post hoc study: the comparison of the basketball player's inefficacy feature in the five different positions

Difference					
Sig. level	Center	Power forward	Small forward	Shooting guard	Point guard
Point guard	260	102	290	-1	
Shooting guard	73.0	101	70.0		068.0
Small forward	03.0	811		243.0	624.0
Power forward	84.1		007.0*	072.0	0.001*
Center		005.0*	958.0	207.0	654.0

Table 6- LSD the post hoc study: the comparison of the basketball player's shyness feature in five different positions

Difference					
Sig. level	Center	Power forward	Small forward	Shooting guard	Point guard
Point guard	70.0	221	52.0	230	
Shooting guard	93.0	990	76.0		623.0
Small forward	17.0	751		144.0	308.0
Power forward	92.1		*003.0	062.0	0.022*
Center		*001.0	746.0	064.0	161.0

According to the Tables 7 and 8 and also the difference in the basketball player's profile, it can concluded, there was a significant difference in aggressiveness (p=0.05) and interpersonal passivity (p=0.01) respectively between small forwards and power forwards and also between small forwards and center positions.

With the shooting guard, the small forward is often the most versatile player in a basketball team. The small forward is often a great defensive player. The combination of the two features, height and quickness, can allow them to be the best scorers in the team. These days the small forward and the shooting guard have almost the same positions in many teams, so they're called "wing" players. The shooting guard in the basketball game has the main responsibility for making long outside shots including the three-point shot. The shooting guard should be a good passer and also be able to help the point guard by handling the ball.

The results of this study have shown no significant difference in the Iranian female shooting guard's profile. This is maybe because of this point, that they can play in different positions or actually they're interchangeable. Many teams have also players, that the can try different setups such as a three guard offense.

Usually the center is the biggest member of a basketball team o even the taller. In the NBA, many centers are 7 feet tall or even taller. The center can be a best scorer, but needs to be a strong rebounder and shot blocker. In many teams, the center is the last line of defense. Nowadays, many teams have won in other positions with their great players, but a strong center is still a prized basketball position in any basketball team.

As small forwards are the penetrating players and more aggressive than the centers and power forwards (low post players), this significant difference in their personality profile have a relationship with their roles in the team [16,17].

positions								
Difference Sig. level	center	Power forward	Small forward	Shooting guard	Point guard			
Point guard	54.0	95.0	641	730				
Shooting guard	27.1	68.1	910		375.0			
Small forward	18.2	59.2		318.0	073.0			
Power forward	410		*011.0	070.0	302.0			
Center		672.0	*025.0	151.0	539.0			

Table 7- LSD the post hoc test: the comparison of the basketball player's aggressiveness feature in five different

Table 8- LSD the post hoc test: the comparison of the basketball player's interpersonal passivity feature in five different positions

Difference					
Sig. level	center	Power forward	Small forward	Shooting guard	Point guard
Point guard	810	880	10.1	15.0	
Shooting guard	960	031	95.0		765.0
Small forward	921	981		096.0	053.0
Power forward	06.0		*002.0	076.0	130.0
Center		916.0	*002.0	081.0	141.0

According to the Tables 9 and 10 it can be concluded, there is an important difference in low positive emotions (p=0.01) between small forwards and the other positions.

Table 9-LSD the post hoc test: the comparison of the basketball player's low positive emotions feature in five different positions

Difference					
Sig. level	center	Power forward	Small forward	Shooting guard	Point guard
Point guard	580	171	55.1	11.0	
Shooting guard	700	291	44.1		859.0
Small forward	142	732		*046.0	*031.0
Power forward	59.0		*001.0	078.0	108.0
Center		441.0	0.006*	314.0	400.0

The significant difference in low positive emotions between small forwards and other positions can have a relationship with the player's role in a team as well as their versatility. In addition, this finding about small forward position is in the same direction with the results of the previous profiles in this research.

The results have shown, there was a relationship between the personality profile and also the position of the play in the Iranian professional female basketball players.

Also the related literature about the players' personality profiles in different fields of sport was reviewed. In the study, which performed in Slovenia [14] some elements like anxiety trait, striving for power, negative performance orientation and stress reduction were significantly different, and these confirmed, that the significant differences was between the different types of players in some psychosomatic dimensions. Bruce et al. used the Eysenck Personality Questionnaire (EPQ) to ascertain the personality traits of the offensive, defensive, and mid-field players. The results showed, that the male offensive players were going to be more tough-minded, aggressive, and extroverted than field players [18]. Schaubhut et al. (2006) studied the personality profile of the North American professional football players. The results showed some differences of the personality in the players with the different positions[13].

The great issue about basketball is, it can be played flexibly according to the needs and resources of each team. Therefore, at the end, each coach must decide the duties of each player and also the role of each position. The prediction of the athletic achievement from the personality traits was one of the earliest approaches, which is one of the most attractive applications of applied sport psychology[19,20]. However, the academic literature, which supports this practice, has been equivocal, and made many coaches and sport teams be skeptical about the predictive potential [21].Nevertheless, the use of the personality-based assessment tools becomes more common among the professional sports teams today, as they search for any advantage in the identification and prediction of an athlete's opportunity for the long-term success. [22-25].

One limitation is, that the number of the players in this research is not sufficient. Moreover, since early ages, the Iranian female basketball teams were not from the talent feature point of view identified. In the next research we are going to examine the personality in different positions and also the measures of the performance.

#### 5. Acknowledgment

The authors wish to express their sincere appreciation to the Iranian female basketball players for their participating in this study.

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