

The Relationship of Refereeing Performance of the Leading Personality and Thyroxin Hormone Level for Football Referees (First Division)

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Abstract

Refereeing has an important part in the dictionary of football game, developing the referees' abilities and prepare them in a suitable way with the development of the nature of competition between the teams in order to enhance their abilities to make the right decisions that achieve the justice. Thus, the referee and player are the same, both of them needs to the correct preparation in physical, dynamic, knowledge and mental aspects as well as other important personal characteristics such as: leading ability, self-confidence, emotional balance... etc., undoubtedly, refereeing has an essential role in developing football, so when the referees' level increase that leads to increasing the level of competition. The value of the present research lies in identifying the relationship between refereeing performance, the leading personality and thyroxin hormone level for football referees (First Division), which may be contribute in the performance of referees in a stadium so through these things, referee's level can be predicted as it achieves high results in these variables. The researchers used the descriptive method of correlation and predictive relationships because of its appropriate to the problem of referees (first division), for the academic year 2018, their number is (15) referees.

Keywords: *Leading Personality, Refereeing Performance and Thyroxin Hormone Level*

Introduction

Refereeing has an important part in the dictionary of football game, developing the referees' abilities and prepare them in a suitable way ¹ with the development of the nature of competition between the teams in order to enhance their abilities to make the right decisions that achieve the justice ². Thus, the referee and player are the same, both of them needs to the correct preparation in physical, dynamic ³, knowledge and mental aspects as well as other important personal characteristics such as: leading ability, self-confidence, emotional balance... etc., undoubtedly, refereeing has an essential role in developing football, so when the referees' level increase that leads to increasing the level of competition. The value of the present research lies in identifying the relationship ⁴ between refereeing performance, the leading personality and thyroxin hormone level for football referees (First Division), which may be contribute in the performance of referees in a stadium so

through these things, referee's level can be predicted as it achieves high results in these variables.

Practical Framework

The Procedures of the Study

The researchers used the descriptive method of correlation and predictive relationships because of its appropriate to the problem of referees (first division), for the academic year 2018, their number is (15) referees.

Tests:

First: The Measurement of Refereeing Performance:

The multiple forms have been used by the Iraqi Central Iraq Football Association and used in the assessment of the referees of the Iraqi Premier League, which is no different from the referees assessment form

in the other major leagues and official tournaments. Referee and refereeing team are assessed and sent this form ⁵ confidentially to the Central Referees Committee where the form contains the level of ease and difficulty of the game with the referee and what mistakes occurred in the game and what the positives possessed by the referee and everything that revolves around the arbitration crew, the results of the test of the referees committee of the Central Iraqi Football Association, which was held on 7-8-9 / 3/2019.

Second: The Measurement of the Leading Personality:

The measurement of leading personality has used, which prepared by Al-Janabi, which made up of (47) items, which are answered by choosing one of the two answers for each item. The highest score obtained on the measurement is (47), then the lowest score (zero), i.e. if the measurement degree is high that leads to the presence of adjective.

Third: The Measurement of Thyroxin Hormone Level:

The measurement of thyroxin hormone level has done by taking amount of the research samples' blood, then send to laboratory of Al-Sader Teaching Hospital in order to determine the thyroxin hormone level (T3).

The Main Experiment:

The researchers gained the results of the research variables by the following measurements:

1- The results of the refereeing performance were obtained by the Central Iraqi Football Association, the Central Referees Committee for the test which was made in Al-Shaab Stadium on 7-8-9 / 3/2019.

2 - The measurement of leadership personality was distributed between the members of the research sample in the stadium of the College of Physical Education and Sports Science University of Kufa on 15/3/2019, at 10:O'clock in the morning, which took 10 minutes to complete the from.

3 - After completing the process of measuring the leading personality, the researchers took a blood sample from the referees of the research sample through a specialized medical team prepared in advance for this purpose, so the team took a sample of blood and kept it in special tubules and transferred directly to the

laboratory for measuring hormone thyroxine level in Al-Sadr Teaching Hospital. Finally, the results were analyzed statistically.

Statistical Devices:

The researchers used Statistical Package for Social Sciences (SPSS).

The Results Discussion

This framework contained the descriptive statistical results between physical variables and psychological functions after analyzed it in a statistical way and according to the aims of the study.

The Statistical Estimation of the Research Variables for the Research Sample

The statistical estimation of the research variables for the research sample have shown in tables in order to analysis and discussion them, to complete the subsequent statistical analyzes that aims at achieving the aims of the research, so ⁶ the statistical estimation of the results of the sample studied variables has represented as well as the correlation matrix in which correlations between studied variables have found.

Table (1): Shows the Statistical Description of Results of the Research Sample in the Studied Variables

No.	Variables	Arithmetic Mean (X)	Standard Deviation (+SD)
1	Refereeing Performance	8.24	0.21
2	Leading Personality	41.56	7.57
3	Thyroxin Hormone Level	2.54	0.26

Table (1) shows that arithmetic Mean (X) of refereeing performance was (8.24) with standard deviation (0.21), the arithmetic mean (X) of leading personality was (41.56) with standard deviation (7.57) while arithmetic mean (X) of thyroxin hormone level was (2.54) with standard deviation (0.26).

The Correlation Matrix of Relationship Variables

After using Pearson correlation coefficient between the studied variables, the correlation matrix between physical variables and psychological functions has gotten, as shown in table (7):

Table (2): Shows the Correlation Matrix of relationships between the Studied Variables (Physical – Functional)

Variables	Refereeing Performance	Leading Personality	Thyroxin Hormone Level
Refereeing Performance	1	0.547	0.412
Leading Personality		1	0.438
Thyroxin Hormone Level			1

Through the previous table, we can see that there are (45) correlation coefficients, the highest correlation coefficient was (0.547) between refereeing performance and the leading personality i.e. any one of these simple relations between refereeing performance and the leading personality has a significant statistical function... We can find a simple predictive equations.... i.e. to predict the value of refereeing performance by knowing the degree or measurement of leadership personality ... through this we have the opportunity to know the predictive equations complex ... This is a divergent thing that may not serve us at work, so researchers will use the method of preference simple and complex relationships that can be predicted the refereeing performance through any of the studied variables (leadership personality and thyroxin hormone level), as we will see in the following topics. In order to determine the confidence of the correlation coefficients mentioned above, or to know the predictability of a variable and the existence of other variables, the researchers used the alienation coefficient, “an indicator to indicate the characteristics and features that do not share the two variables, so, confidence rate was (5.47%) for The relationship between the refereeing performance and the leading personality, and (4.13%) of the relationship of refereeing performance on the one hand and thyroxin hormone level on the other.

1. Show, Analysis and Discussion the Results of Refereeing Performance and Leading Personality:

The researchers attribute that the refereeing performance has a direct impact on the leading personality, because the presence of the character is the result and an indicator of the refereeing performance

that helped the referee, as pointed out by Issam Al-Din Abdel Khaliq Mustafa (that the player have to develop a high degree of physical abilities that are commensurate with the nature of his activity).

Through the previous presentation, the equation of the regression line between the pulse, which obtained the highest correlation with the physical variables as follows: -

$$\text{Refereeing Performance} = 5.904 + (1.848 \times \text{leading personality})$$

2. Show, Analysis and Discussion the Results of Refereeing Performance and Thyroxin Hormone Level:

Through the previous presentation, the equation of the regression line between refereeing performance that gained the highest coefficient with Thyroxin Hormone, as follows: -

$$\text{Refereeing performance} = 16.243 + (-0.153 \times \text{Thyroxin Hormone})$$

We can see here that the proportion of public contribution has increased after the participation of the variable (hormone thyroxin) with the ⁷⁻¹¹ variable of (leading personality), which in turn is evidence of the impact of variable (refereeing performance) in the proportion of public contribution of the referees and the relationship here positive (i.e. a positive impact) on the level of refereeing performance, through the previous view, the equation of the regression line is as follows:

Refereeing Performance =10.214 + (0.995× leading personality) + (-0.054× Thyroxin Hormone Level)

Conclusions:

Conclude a final predictive equation through which to predict the refereeing performance in significance of the leading personality and thyroxin hormone level for the referees (First Division). By adoption of the results of the research and utilization by the Football Association to determine the level of referees in significance of the leading personality and thyroxin hormone level of football referees, making researches and similar studies by researchers to study the prediction of the level of refereeing performance in significance of other psychological variables and another sample.

Financial Disclosure: There is no financial disclosure.

Conflict of Interest: None to declare.

Ethical Clearance: All experimental protocols were approved under the University of Kufa/ College of Physical Education and Sport Sciences and all experiments were carried out in accordance with approved guidelines.

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