

# Flexible thinking as a function of predicting the performance of the Iraqi Premier League referees' football

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**ABSTRACT--** Referee performance during match management is linked to referees' mental processes for most of the match and it is known that the performance of refereeing in football relates to the principle of flexible thinking. There is no doubt that the decision-making by the referees in the match must be coordinated and that the referee understands and expects all actions within the field of play. Accordingly, the main objectives of the research were as follows: Know the relationship between the referee's performance and the flexible thinking of football referees of the Iraqi Premier League. Know the percentage of the contribution of flexible thinking in the performance of the referee's football for the Iraqi Premier League. Predicting the performance of the soccer referees' in the Iraqi Premier League in terms of flexible thinking. To achieve these goals, the researchers used the descriptive method with its survey method and the study of correlational relationships, while the research tools were the football officials of the Iraqi Premier League, who number (50) referee, as well as means of data collection. . . After a series of field procedures represented in ensuring the validity of the flexible thinking scale, the researchers began research procedures, and using the appropriate statistical means to address the results in a way that serves the research and achieves the goals. The performance of referees' is related to a meaningful relationship with flexible thinking

**Key words --**Flexible thinking, predicting the performance, Premier League referees' football.

## I. INTRODUCTION

The change in the performance of referees' during the performance of movements and mathematical skills is related to the educational and training principles of most kinematic sentences. It is known that the performance of referees' in soccer relates to the principle of team play. There is no doubt that the movements of the players in the match must be coordinated and that every player expects and expects the movements of his colleagues in the field of play, therefore we find that there is an urgent need to know the extent of collective effectiveness, and we also find great importance in forecasting the performance of the referees' , hence the problem of study emerges Current.

The theoretical significance of this study lies in developing a knowledge framework for trainers on:

- The relationship between the performance of referees' in the Iraqi Premier League in football and flexible thinking.
- Contribution of flexible thinking, in the performance of the referees' of the Iraqi Football Premier League.
- Predicting the performance of referees' in the Iraqi football Premier League, in terms of flexible thinking

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As for the applied importance of this study, it appears through:

- Its findings and recommendations, which may help in answering some of the questions about the feasibility of predicting the performance of the referees' of the Iraqi soccer Premier League through flexible thinking.

- Determine the goals and appropriate means that contribute to the development of the performance of the referee of the Iraqi Premier League in football.

## **II. RESEARCH PROBLEM**

In this study, the researchers will try to answer the following questions:

- What is the relationship between flexible thinking and the judging performance of the Iraqi Football Premier League? .

- What is the contribution rate of flexible thinking in the performance of the referees' of the Iraqi football Premier League? .

- Is it possible to predict the performance of the referees' of the Iraqi soccer Premier League, in terms of flexible thinking? .

## **III. THE RESEARCH AIMS TO**

- Knowing the relationship between referee performance and flexible thinking, for referees of the Iraqi Football Premier League.

- Knowing the contribution rate of flexible thinking in the performance of the referees' of the Iraqi football Premier League.

- Prediction of the performance of the referees' of the Iraqi football Premier League, in terms of flexible thinking.

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## **IV. RESEARCH HYPOTHESES**

- There is a significant correlation between the performance of the referees of the Iraqi football Premier League and flexible thinking.

- Flexible thinking contributes directly and effectively to the performance of the referees' of the Iraqi Football Premier League.

## **V. RESEARCH METHODOLOGY**

The researchers used the descriptive method - the study of relational relationships as it relates to the nature of the study and its goals

## **VI. RESEARCH COMMUNITY AND SAMPLES**

The research community was represented by the Iraqi Football League excellent referees, and its total vocabulary (50) referee.

## **VII. RESEARCH TOOLS**

The researchers used the following research tools to reach results and achieve goals.

## **VIII. THIS RESEARCH REQUIRED SEVERAL METHODS FOR DATA COLLECTION, NAMELY:**

-Note:

- Through the follow-up and observation of football matches, as well as the use of modern techniques (the Internet), the researchers identified the problem of the study.

-The questionnaire: Through the questionnaire, flexible thinking

-Testing and Measurement:

The researchers used appropriate tests to collect data to achieve the research goals

- Devices and tools (tools), assistance:

The researcher used many devices and aids in the process of obtaining the required data, including:

Software and applications

Personal computer (laboratory dockOffice tools (papers and pens

•Test results registration form

• Judgment performance evaluation forms approved by the Iraqi Central Union.he Exercises that used in the Pre and Past Testes

## **IX. FIELD RESEARCH PROCEDURES:**

To achieve the research goals that researchers want to reach, they had to follow specific basic steps to reach the desired goal, as well as some detailed steps, and these steps are:

- Determination of the relevant tests:

Researchers have drawn the boundaries of their studies with the variables of referee performance for the Iraqi Football Premier League, and flexible thinking. In order to determine the test that is concerned with measuring the performance of referees' and the scale of flexible thinking, a survey of relevant scientific sources and references was conducted, which resulted in the adoption of forms for evaluating the performance of referees' in the Iraqi Premier League matches and approved by the Iraqi Central Football Association, as well as one measure of flexible thinking. The researchers distributed a questionnaire to solicit opinions (8), from experts and specialists \* in this field to determine their suitability.

- Evaluating the performance of referees'

- Characterization of the Flexible Thinking Test

The Flexible Thinking Scale consists of (30) paragraphs of the answer method from several alternatives. There is one alternative that is correct and the other is wrong.

- Exploratory experience:

Verifying the integrity of the contexts used to conduct flexible thinking tests and performing referees' for the Iraqi excellent league, and knowing the availability of their conditions, and implementing those conditions, is a basic requirement, and its fulfillment necessitated conducting an exploratory study on (2/10/2019), on a sample

<i>Tests</i>	<i>Number of answers</i>		<i>The value of (Ca2)</i>		<i>Signification</i>
	<i>suitable</i>	<i>Not suitable</i>	<i>Calculated</i>	<i>Tabular</i>	
<i>Flexible thinking</i>	8	-	8	3,84	<i>Sign</i>
<i>The performance evaluation form approved by the Federation</i>	8	-	8	3,84	<i>Sign</i>

of (10) , A referee randomly chosen from the Iraqi Football Premier League.

The results that the researchers came out with achieved all the purposes for which the exploratory experiment was conducted, which indicates the good response of the rulers and their impetus to implement the test, and the appropriate time for it and good output and organization, how to conduct and apply it and record its results, as well as its health in measuring flexible thinking and the performance of referees' Of the Iraqi Premier League.

- Scientific transactions for the tests used in the research:

First: Honesty:

The researchers extracted the validity of the content (the content), which is based on the extent to which the test represents the phenomenon it measures (flexible thinking, the performance evaluation form approved by the union), through a questionnaire distributed to (8), from specialists, who indicated the validity of the test from During the following: (The test is considered valid if it achieves a (100%) percentage of the total expert opinions to agree to represent the test for the phenomenon that it measures.

After collecting and unloading the data, the researcher used the (Ka2) test, and the results showed acceptance of the test nomination to achieve it with values greater than (Ca2) tabular value of (3.84), at a degree of freedom (1), and a level of significance (0.05). Table (1) shows the validity of the test.

Table 1 Shows the validity of the candidate test

Second - stability:

The researchers tried to find the stability coefficient of the test under study (flexible thinking), by finding the correlation between its results, and the results of the retest after a period of 10 days.

After calculating the correlation coefficient (Pearson), between the degrees of the two tests, it appeared that the correlation was significant, given that the value of the T-test calculated for the significance of correlation came at a rate of (6.197), which is greater than the tabular value of (2.306), at a degree of freedom (8), And the level of significance (0.05), which indicates that the test in question is enjoying a high degree of stability.

**Table 2:** The stability coefficient shows the tests used in the research, which are applied to the sample of the pilot study

Tests	Value (t)		Coefficient of stability	Signification
	Calculated	Tabular		
Flexible thinking	2,306	6,197	0,8	Sign

### Applied Test

After completing the implementation of the exploratory experiment, and obtaining its results, through which it became clear the validity of the "flexible thinking" scale, and the safety of imaging procedures to test the

Tests	Value (t)		The nature of the link	Correlation coefficient	Signification
	Calculated	Tabular			
Flexible thinking & Referees' performance	36,447	2,011	simple	0,981	Sign

performance of referees' for the Iraqi excellent league, the researchers conducted their main experiment on 10/10/2020.

- Statistical means:

The researchers used a statistical bag (spss), to process data and show results.

- Results - Presentation, Analysis:

Deduction of the formula for predicting the performance of the referees' of the Iraqi soccer Premier League, in terms of flexible thinking:

- Finding the correlations between flexible thinking and the performance of referees' in the Iraqi football Premier League.

Table (3) shows correlation coefficients between search variables

When reviewing the results of the above table, we find that the value of the correlation coefficient between the two research variables (performance of referees' for the Iraqi football Premier League), flexible thinking, has reached (0.981).

To verify the significance of the correlation, I used the T-law, so the establishment of (T), calculated (36.447), is

greater than the tabular value of (2.011), at the degree of freedom (48), and the level of significance (0.05), which confirms the significance of the correlation and its truth between the variables Under consideration, and this gave the researchers the opportunity to include the independent variable under consideration within the regression model, in order to predict the dependent variable (performance of referees' for the Iraqi football Premier League).

This affirms (Muhammad Subhi Hassanein, 1983), which shows, "The meaning of an association between [two variables], that they share a measure of one phenomenon and this means that one of them sings on the other".

**Table 4:** shows the correlation coefficients between the studied variables and the amount of confidence

Tests	Correlation coefficient	nature of relationship	Contribution rate
Flexible thinking & Referees' performance	0,981	composite	0,962

## X. RESULTS

### AND DISCUSSED

#### Regression values for the regression equation:

**Table5:** Regression values for the regression equation

Correlation coefficients		Correlation		Value (t) calculated		Signification
nature of coefficient	Value of coefficient	nature	Value	calculated	Sign	
Fixed limit(A)	5,481	composite	0,981	60,518	0	Sign
Fixed limit (B)	0,201			34,927	0	Sign

(A), where the calculated value of (T) came by (60.518), which is a function at the level of significance (0.000), and the results of the same table indicate the significance of the intersection factor (B1), Which was tested with a value of (T) which came in at (34,927), and this value is a function at the significance level (0,000). The appearance of the slope parameter (a), as well as the slope parameter (b1), is significant, reflecting the importance of the flexible thinking variable, and this indicates the quality of estimating those parameters in the regression model, which makes the model enjoy a high efficiency for the purposes of the process of predicting the values of the phenomenon studied (performance of referees' for the Iraqi league Excellent.

- Devising equations to predict the performance of referees' in terms of the flexible thinking in question:

From the above, it was possible to set the predictive equation for (the referees' performance of the Iraqi excellent league), in terms of flexible thinking, using the simple linear regression equation.

Through the results shown in tables (3, 4, 5), it is noted that there is a direct relationship between flexible thinking and the performance of referees', as the more flexible thinking increases the performance of referees' and vice versa, the researchers explain this to the rulers, and as a result of long experience in this field, they have acquired various methods that help them in Driving matches, including flexible thinking, as the games management uses the ability of flexible thinking in all circumstances of the game, for example, when moving and taking the appropriate positions and taking the appropriate decision, the referee must base and infer several points, including the distance that must be between him and the state of play, the effort of the place to assist him To follow up on the players and that makes him in complete contact with them, you must choose the appropriate method for the

situation when moving on the field and at the appropriate times. From one place to another in the game, intuition is the largest share by anticipating the movements of fellow players. This is consistent with what was stated by (Saad Menem Al-Sheikhly) on the importance of mental processes for the referee, because "mental processes affect an important influence in the formation and decision-making taken by the referee during the match, because that mental process that" aims to clarify the skill and establish it to benefit from it during the actual performance "As the development of the football game gives an idea to understand its requirements, which depend on two strong pillars: the first: science and knowledge, and the second: field experience." Scientific studies in this regard indicate that there are differences and differences in the level of mental abilities among football referees such as (flexible thinking, intelligence, attention, visualization, remembering and some other capabilities), and this difference and contrast between them is due to the special nature and the degree of growth that has reached it in each aspect of his personality This is evidenced by the referee's giving during the match and the extent of the referees 'difference in facing different play situations and their treatment of sudden and rapid problems and situations that he may face during the match, represented by the skills and behaviors of players and the extent of their use in the direction of legal enforcement The game is in its correct form, and it is natural that arbitration in football needs very high mental and physical requirements for the purpose of general and correct preparation at the level required from the technical and behavioral side of the referee during the game until the end of it, from that is the correct implementation of the law of the game, that the acquisition of the rule of knowledge and theoretical information associated with The game and its law are generated through explanation and theoretical discussions of different situations and by applying the results of this in a practical way the calendar produces the various activities that the referee performs or watches, and this is what Mahmoud Othman referred to. "The cognitive field is the first set of traits and poison." Those that communicate and deepen knowledge and that take the form of multidimensional skills are dependent on thinking in order to record, retrieve and process the individual's information, as the researcher attributes the reasons for this is that "the judgment that depends on its internal capabilities in making the decision that is calculated for everything is eligible to reach good performance" During the competition, the referee does not have enough time to reflect on and reflect on what is happening, so the decision must be issued almost as soon as the violation occurs

Conclusions and recommendations.

## **XI. CONCLUSION**

Through the results and in the light of the objectives and approach used and within the limits of the research sample and from the reality of the data collected by the researcher and in the framework of statistical treatments, the following conclusions were reached:

-Elaborating a predictive equation by which to predict (the performance of referees', in terms of flexible thinking.

-The proportions of the contribution of flexible thinking in the performance of the referees' of the Iraqi football Premier League are large.

-That (the performance of the referees' of the Iraqi Premier League in soccer) is associated with a flexible relationship with flexible thinking.

- Flexible reasoning explains an acceptable proportion of the referee's performance in the Iraqi soccer Premier League.

## **XII. RECOMMENDATIONS**

Through what has been concluded, the researcher recommends the following recommendations:

- Relying on the predictive equations that resulted from this study, and other studies when selecting referees'
- Benefiting from the results of this study, especially the predictive equation, by generalizing it to the rulers of other grades.
- Periodic and continuous evaluation of referees' performance, as well as flexible thinking

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