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# The Relationship of Tactical Knowledge Aspects with the Accuracy of Performing Some Basic Handball Skills

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#### **Introduction and importance of the research:**

The importance of the research lies in the analysis of the cognitive structure and its relationship to the skillful performance in the game of . handball in order to raise the level of the game and thus benefit the acquisition of knowledge and theoretical information related to the playing plans, which is generated through theoretical explanation and discussions of the situations that the athlete is exposed to during the application of the skill or sports competition. Handball.

#### The conclusions were

1. There is a significant correlation between the cognitive structure of the three axes and the following skills (serving, spiking, defending the stadium, blocking wall).

The researchers came up with the following recommendations: -

- 1. The training staff must possess a good and knowledge structure in order to be able to deliver the material within its intellectual and my scientific framework in order to secure an increase in knowledge in the ad cognitive achievement and to participate in training courses to provide it with information in to order to deliver the material to the players in a manner that provides a greater scope for ma increasing scientific knowledge.
- 2. Involving players in the details of accurate su theoretical matters and making use of their information.

# Introduction and Importance of Research: -

Perhaps the most important method that an athlete or trainer can access sj is familiarity with the cognitive aspect, as scientific knowledge is not limited to a specific oi phenomenon or field, but rather deals with all gh areas and phenomena surrounding the individual in terms of knowledge and information ty serving the skill, as the aim of the study was to analyze the level of the cognitive structure and its relationship With skillful performance in . handball .

# Research problem:-

handball is a team game that has spread fj widely at the present time. It is one of the reasons that prompted the researcher to delve into fj this problem. And knowledge of all the scientific aspects that serve this game and the rt fact that researchers are specialists and professors of teaching methods, kinetic learning widely and by . handball . They wanted to know the relationship between the widely cognitive structure and the skillful performance because it is one of the important widely scientific reasons for ma the theoretical and practical training process for the player because theoretical training hd is an important and effective part of the training and educational process Handball

# 1.3 Research Objectives: - The research aims to: -

- 1. Designing a form for the knowledge relationship between structure ty with indicators (law, history, plans) for players applying for . handball
- 2. Building a test for the scientific knowledge relationship between sd structure for advanced . handball players .
- 3. Identify the relationship between is relationship between the players' cognitive structure and the performance of some basic. handball skills.

# 1.4 Research hypotheses:

- 1. There are statistically significant be differences in the scientific knowledge structure and the performance of some basic we handball skills.
- 2. There is a moral relationship between bathe level of cognitive structure and the performance of some basic . handball skills.

#### 1.5 Research areas:

- 1.5.1 The Human Field: Players of Al Kasem Olub, which is participating in the Premier League.
- 1.5.2 Time range: 13/2/2024 to 23/4/2024.
- 1.5.3 Spatial domain: Al-Qasim Youth Forum.

# 1.6 Research Methodology:

The researchers used the descriptive df approach in the method of correlational relations, which means "trying to link the ma different variables with each other and identifying common factors. It aims in general qh through correlation to analyze causes".

#### 2.3 Research Society and Sample

The research community determined the relationship between my Premier League clubs participating in the Premier League for the year (2023-2024) and their number was (10) clubs. The research sample was chosen randomly, and the is sample was Qasim club players, and their number was (16) . handball players.

# 3.3 Sample homogeneity:

By analyzing the results of the cognitive rt structure and tests of skill performance in. handball, which includes reference to the arithmetic mean and their difference from one variable to another,

Table (1)
It shows the cognitive achievement of the members of the research sample

№	Researched variables	$\overline{X}$	Y	ΥX	Coefficient of torsion
1	Cognitive structure	.6112	10.83	2.21	0.82
2	Law	13.48	.1034	0.72	0.53
3	History	6.12	326.	0.46	153
4	Plans	41.54	6.64	.111	0.38

Table (2)

It shows the skills performance of the members of the research sample

№	Researched variables	$\overline{X}$	Y	$Y\overline{X}$	Coefficient of torsion
1	Handlinq	2.68	0.59	11.0	0.50
2	Defensive movements	19.3	0.64	14.0	53.0-
3	Blocking wall	00.4	0.68	16.0	66.0-
4	Correct	44.2	0.63	0.13	28.0-

#### **Devices and tools used:**

- 1. A legal. handball court.
- 2. Legal. Handballs.
- 3. Colorful adhesive tape.
- 4. Colored marking pen.
- 5. A rope for the purpose of taking the test.

#### 3.4 Research Tests:

#### **3.4.1 Achievement tests in.** handball:

In order to reach the identification of the so most important axes of knowledge and basic skills in. handball, the researchers distributed a questionnaire rt form in Appendices (1 and 2) to a group of experts and specialists in gh (teaching methods, tests, measurement and evaluation, and sports training) of (9) experts by and specialists.

#### The scientific foundations of the tests:

#### **Test validation:**

Honesty is one of the important scientific Gogh foundations in the test, and it refers to the "degree to which it is extended in measuring chastity what was set for it" with a degree of validity and

<sup>&</sup>lt;sup>1</sup> Salah Al-Din Mahmoud Allam: Educational and Psychological Tests and Scale, 1st Edition, Amman, Dar Al-Fikry, Publishers and Distributors, 2006, pg. 56

validity. Accurately and analyze its sd aspects to ensure that its content matches what it wants to measure. <sup>2</sup>

# **Stability Tests:**

To find out the stability of the test, which mu is no less important than its validity, as it represents one of the characteristics of a good deferens test, and in order to know the stability of this test for the research sample, the sddqag researchers used the test method and re-test and demonstrated its results by using the ad simple correlation coefficient (Pearson) between the scores of the first test and hogtie the scores of the second test And the reliability of the test is defined as "the test gives araba almost the same results" <sup>3</sup>

# **Objectivity of the tests:**

Objectivity is one of the scientific scud foundations that must be met in the tests. Objectivity is an evaluation criterion that all reflects the validity of the measurement and affects its stability factor and to calculate aquult the objectivity between the results of those who performed the evaluation process for shadfly's the same sample <sup>4</sup> by using the simple correlation coefficient (Pearson) to find may the correlation relationship between these results in light Therefore.

Table (5)
It shows the stability and objectivity Kadak parameters of the tests for . handball cognitive achievement

N₂	Axes of cognitive achievement	Stability coefficient	Objectivit y factor	Tabular value	Statistical significance
1	Cognitive achievement	0.95	0.99		
2	The legal axis	66.0	80.0	403.0	Moral
3	Linear axis	0.88	77.0		
4	Historical axis	78.0	76.0		

# **3.8 statistical methods:** The researcher used the statistical bag (spss)

# 4.1.1 sample results in tests of cognitive structure in handball

In order to identify the results of the research dht for the tests of cognitive construction, the researchers calculated aku the arithmetic mean and the standard

Table (6)

№	Researched variables	Measruing unit	Arithmetic mean	standard deviation
1	Cognitive achievement	Degree	14.61	84.10
2	The legal axis	Degree	99.12	46.3
3	Linear axis	Degree	98.40	68.6
4	Historical axis	Degree	15.6	30.2

<sup>&</sup>lt;sup>2</sup> Muhammad Hassan Allawi; Sports Psychology. 7th Edition: (Cairo, Dar Al Maaref, 1993), p. 87.

<sup>&</sup>lt;sup>3</sup> Ahmad Muhammad Khater and Ali Fahmy Al-Beik; Measurement in the Mathematical Field: (Cairo, Dar Al Maaref, 1979), 22.

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# 4.1.2 Results of the sample in tests of some basic skills in handball

The researchers extracted the arithmetic fqih mean and standard deviation of the research sample after completing the skill tests for grungy the research sample as shown in the following table

**Table (7)** 

№	Researched variables	measruing unit	Arithmetic mean	standard deviation
1	Handlinq	Degree	69.2	60.0
2	Defensive movements	Degree	15.3	64.0
3	Blocking wall	Degree	38.3	69.0
4	Correct	Degree	36.2	65.0

Table (8)

It shows the relationship of cognitive construction with indicators of skill performance

Cognitive achievement	Compute d (R)	The value (T) computed for the significance of	Tabular (T)	Statistical
basic skills	value	the correlation coefficient	value(*)	significance
Cognitive achievement	52.0	77.2		Moral
Transmitter				
Cognitive				Not moral
achievement	0.31	50.1		Not illorar
Defend			2.11	
Cognitive			2.11	Not moral
achievement	38.0	65.1		Not illorar
Blocking wall				
Cognitive		_		
achievement	52.0	56.2		Moral
Crushing				

(\*) At a degree of freedom (15) and a level of significance (0.05)

In order to find out the degree of the relationship between Sfax cognitive construction indicating that the correlations is not significant and the reason for that This is due to the fact that the defending skill of the stadium and the blocking wall requires a high concentration and special technique, sandhi which leads to the place where the colleague is, the direction of the ball and the awe position of the opposing player during the correction, which is difficult to correct grandbaby the decision directly, and they are two skills that need explanation and clarification teeth in addition to the professional performance.

Since the results of tests were weak Qwest in general, that showed us the weakness of the relationship between the cognitive tcfg construction and the performance of the defense of the stadium because of this aspect cage of the necessary importance during the skillful performance, since the defense of the Yuhji stadium needs a high concentration as it depends on the opposing player's movement handball des and his control in order not to exploit the space And correcting towards the void, as well as following the trainers in each training unit on more than one exercise wads', which leads to a lack of repetitions of the exercise used in developing the skill as rafts this contributed to the low level of performance as well as the lack of intersex squadded in building with scientific knowledge. As for the wall, it is one of the most important qq2e basic skills in handball, and it is the most used skill in playing, as it is used in the hurt defensive and offensive dimensions,

so the player needs to master this skill greatly because my an it is a basis in handball to other skills \*

Emphasis must be placed on the fact for of measuring the cognitive level of the coaches themselves, as well as the training age rm, of the players and the difficulty of performing the skill in defense of the stadium gnu and the wall, as well as the different means of cognitive construction for the players mya in the different method of handball explanation and clarification using the model Addy and auxiliary means and by repetition, reinforcement and fixation, which leads to a good jeep mental perception of the players.

As for the cognitive structure and my skills (sending, overwhelming), the correlation relationship was significant, as it reached (0.50 and 0.50) respectively, and the value of (T) calculated for the hju significance of the handball correlation li coefficient was (2.87, 2.55) respectively.

Which indicates a moral connection and Quy the reason for this is that most coaches in volleyball stress the need to confirm gays the correct performance of the service because losing it leads to the opposing satyr team controlling the service and losing a point at the same time and thus giving the loss opposing team the opportunity to attack as well as the crushing because of arty its The importance of deciding the outcome of the match, therefore, most coaches sad resorted to explaining and clarifying this skill by showing or watching and by correcting huge mistakes for the players <sup>5</sup> The most difficult service for the opponent is the one mite who plays quickly and at the bottom of the net where it is difficult to respond and gaffed need to move quickly by the opponent to confront and this loses the characteristic gym of concentration and good preparation, which provides an opportunity to lose a point bran or return the ball in an easy way to the court and contribute to preparing and building adieus an organized attack through preparation Good for epicingula and getting a new handball point <sup>6</sup>.

4.2.2 Presentation, analysis and discussion of the results sot of cognitive construction and its relationship to skill performance bogy in terms of the alienation factor **Table (9)** It shows the relationship of cognitive achievement and skill performance in terms

Researched variables	Computed value (R)	Designation factor (contribution percentage) (R <sup>2</sup> )	Alienation coefficient $\sqrt{(1-R^2)}$	Confidence ratio correlation coefficient $\sqrt{(1-1-R^2)}$	Significance of the correlation coefficient
Handlinq	52.0	27.0	85.0	15%	Moral (0.05)
Defensive movements	33.0	10.0	0.95	%6	Immoral
Blocking wall	38.0	15.0	96.0	%6	Immoral
Correct	50.0	27.0	87.0	13%	Moral (0.05)

In order to demonstrate the confidence of the Myo correlation coefficients calculated above, or to know the ability of the cognitive sadly structure of the sample members to predict the skillful performance softy of the skills under study that they perform. Percentage in the leadwort correlation coefficient.

<sup>\*</sup> Abdullah Ali and Jabbar Hassen: Individual handball Techniques and Tactics, 2004, p. 46.

<sup>5</sup> Ali Mustafa Taha: Volleyball, History of Learning, Training, Analysis, Law, Cairo, The Arab Thought House, 1998, p.60.

<sup>&</sup>lt;sup>6</sup> Elaine Wadih Farag: Foundations of Volleyball for Juniors, Cairo, Dar Al Maaref, Alexandria, 2008, p. 134.

**Table (10)** It shows the relationship of the legal axis with qwe indicators of skill handball performance

Researched variables	Computed (R) value	The value (T) computed for the significance of the correlation coefficien	Tabular (T) value(*)	Statistical significance
Handlinq	47.0	44.2		moral
Defensive movements	25.0	15.1	2.09	Immoral
Blocking wall	40.0	0.2		Immoral
Correct	42.0	14.2		moral

(\*) At a degree of freedom (15) and a level of significance (0.05)

This indicates a moral connection, and retry the reason is that the cognitive structure in the law of the game constitutes bight one of the most important foundations in the organization of the course of the game amok and the acquisition of correct behavior during the game, and that the player's perception tcfg of this aspect is related to the level of skill and planning performance, as it contributes flush to acquiring the necessary perceptions when implementing various tactics myth, as well as The planning cognitive structure is suitable for understanding the rules dammar of the game and its latest modifications in order to benefit from them in mark solving the planning assignments. This requires a high mental skill to reach the Wm, Ka corrects performance away from legal errors. Therefore, understanding and derby the law of the game and the ability to apply it and employ it well contributes to the success thud of the performance "as the more the athlete or student delves into his study abut and analysis, he discovers aspects closely related to his success in performance" and that the fulfillment gusty Information on the law of the game contributes to hefty correct performance.

**Table (11)** It shows the relationship of the legal axis to the skill performance in terms of the expatriation factor

Researched variables	Computed (R) value	Assignment Lab (Contribution Ratio) (R <sup>2</sup> )	Alienation coefficient $\sqrt{(1-R^2)}$	Confidence ratio correlation coefficient $\sqrt{(1-1-R^2)}$	Significance of the correlation coefficient
Handlinq	47.0	22.0	88.0	12%	Moral (0.05)
Defensive movements	25.0	7.0	96.0	4%	Immoral
Blocking wall	40.0	15.0	90.0	7%	Immoral
Correct	42.0	18.0	92.0	10%	Moral (0.05)

To demonstrate the confidence of the correlation rag coefficients calculated above, or the ability of the legal axis of the sample draggy members to predict the skillful performance of the skills under study that they perform sedgy, the researchers used the alienation coefficient as shown in Table (11) above henny, handball as obtaining the evidence for the prediction of the calculated correlation coefficient froth, which expresses the percentage For confidence in the calculated sassed correlation coefficient.

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<sup>&</sup>lt;sup>7</sup> Amin Al-Khouly and Mahmoud Anan: Mathematical Cognitive Measurement, Edition 1: (Cairo, Dar Al-Fikr Al-Arabi, 1999), p.95.

Table (12)

It shows the relationship of the linear axis with indicators of skill performance

Researched variables	Computed (R) value	The value (T) computed to denote the correlation coefficient	Tabular (T) value (*)	Statistical significance
Handlinq	41.0	91.2		Moral
Defensive movements	18.0	95.0	2.09	Immoral
Blocking wall	16.0	83.0		Immoral
Correct	35.0	70.1		Moral

(\*) At a degree of freedom (15) and a level of significance (0.05)

the correlation is not significant. Planning dirty is the essence of the planning process and is the complementary part to its success duck as it "achieves the development of tactical aspects such as playing saws methods"<sup>8</sup>. So that every match has a way of playing and every way of playing wert and here a non-moral relationship appeared, and this is clear Because our players fishy do not have good and clear planning thinking about how to perform the match Huynh according to its circumstances, as well as not analyzing the way the opposite player tuffs performed, and this is confirmed by the study conducted by the researchers, which tyyn is a questionnaire of the opinions of specialists and experts. Specific tactic in the game dajjal. The schematic axis confirms that completing the information on good performance and rodmen warm-up will each contribute to reaching the correct performance, That sacks is, the implementation of a high skill depends on good fitness and the correct use of baby tactical knowledge on the basis of which the decision-making process is carried out jays and implemented in light of the rules of the game \*. Learning skills in a satisfactory Saxby and moderate manner does not allow the transfer of learners to a higher stage, which Shuji is the planning stage because the foundation is weak as The planning stage requires fret that the learner perform the basic skills effectively <sup>9</sup> Weakness in coaches' training mahewus for planning aspects, which led to the failure of the linkage relations between degraded plans and skills, the failure to use scientific methods in planning duke and scientific training, as well as the absence of external friction and friendly aching meetings to increase the players 'ability to plan for the diversified skill skate play all lead to that.

As for the plans and the skill of (sending) handball, the correlation degum relationship was significant, as it reached (0.33) and the value asset of (T) calculated was (2.90) as a sign of the correlation coefficient This indicates arjun a significant link.

We have previously mentioned that transmission echoey may play from all directions, and it is the basis of the learning soggiest process, so it requires high accuracy and direction, from here the results of the research duty showed us a moral relationship between the planning side and handling, and that Ajeet the players 'interest in this skill and their focus on developing it contributed surah to achieving positive results Due to its importance and effective role in building Suggs the attack, it is the key to playing and implementing various tactics. Here, the trainer's eddy role appears in using various exercises to link this skill handball with other skills to reach schuh performance compatibility. And that the time spent in its transmission has an impact abut on achievement, "The time spent on the subject of the lesson or the activity rumba is related to learning and changing

<sup>&</sup>lt;sup>8</sup> Saady Hammad Jumail: handball, skill and preparation, Amman, Zahran House, 2003, p. 66.

<sup>\*</sup> An interview with the coach of Al-balidy Club, mslam ali.

<sup>&</sup>lt;sup>9</sup> Yuerib khiun; Kinetic learning between principle and practice: (Baghdad, AL-Sakhra Printing Office, 2002), p. 88.

achievement" <sup>10</sup>. So the planned performance angst is a realistic translation of the intellectual solution that is produced stylet in the form of a skill.

# 4.4.2 Presenting, analyzing and discussing the results of the schematic axis and its relationship to skill performance in terms of the alienation factor:

**Table (13)** It shows the relationship of the linear axis to the skill performance in terms of the estrangement factor

Researched variables	Computed (R) value	Assignment Lab (Contribution Ratio) (R <sup>2</sup> )	Alienation coefficient $\sqrt{(1-R^2)}$	Confidence ratio correlation coefficient $\sqrt{(1-1-R^2)}$	Significance of the correlation coefficient
Handlinq	41.0	18.0	90.0	10%	moral
Defensive movements	18.0	11.0	97.0	5%	Immoral
Blocking wall	19.0	15.0	93.0	7%	Immoral
Correct	34.0	25.0	85.0	8%	Immoral

To demonstrate the confidence of the correlation retch coefficients calculated above, or to know the ability of the linear axis of the sampled members in predicting the skill performance of the skills handball under study that they perform award. The researchers used the alienation coefficient as fight shown in Table (13) above, as obtaining fight the predictive evidence for the calculated awry correlation coefficient, which expresses the percentage of confidence in the calculated doggy correlation coefficient.

**Table (14)** It shows the relationship of the historical axis with indicators of skill handball performance

Researched variables	Computed (R) value	The value (T) computed to denote the correlation coefficient	Tabular (T) value (*)	Statistical significance
Handlinq	50.0	45.2		moral
Defensive movements	33.0	39.1	2.09	Immoral
Blocking wall	39.0	85.1		Immoral
Correct	56.0	19.2		moral

(\*) At a degree of freedom (15) and a level of significance (0.05)

The reason for this is the absence of knowledge hognut tests that link the theoretical side with the practical side Noche and vice versa, It also contributed to the weak ability to bridge the obstacles facing hajjes coaches in implementing the training units used in preparing players. And that the gating increase in the knowledge stock and how to use it in practical situations correctly dashy, therefore, the existence of a correlation relationship supports the research falaj hypothesis of the existence of a relationship between knowledge and skillful stearyl performance, "when the individual's stock of information increases, their ability softy to solve problems increases" <sup>11</sup>. Most of the trainers do not pay attention to the historical Stumm axis, as they do not care about the theoretical side of most of the axes and rely fraught on the practical side only, as well as the lack of

<sup>&</sup>lt;sup>10</sup> Ali Mustafa Taha: Volleyball, History of Learning, Training, Analysis, and Law, Cairo, Dar Alfikr Alarabi, 1999, p.59.

<sup>&</sup>lt;sup>11</sup> Yusef Qatami and Naifah Qatami: The Psychology of Classroom Learning, 1st Edition: (Amman, Dar Al Sharq Publishing and Distribution, 2000), p. 130.

interest of the testers in their anything role well in the test, so the results become weak and incorrect.

As for the historical axis and my skills handball (serving and overwhelming), the correlation relationship was, which indicates the existence of a significant correlation and the reason for this is because the Nj, historical axis It is considered an incentive to advance the level of the general culture historical of the player, as knowing the history of the game and even starting and knowing the best myth players leads to stimulating the athlete's motivation to make more effort in reaching ads the higher levels. In this axis, we find that it reflects the player's cognitive sequence hatters and the requirements of the game. His knowledge of the history of the game will Aggrey be the catalyst for making more effort in forming an intellectual vision of skill shaft by knowing who excelled in performance, when the game started, its stages cagey of development and the sequence of its skills, which constitutes motivation and snaggy willpower towards mastering performance. I am for the image of the flag Artha when the players perceive that a good player is a player who has mastered sad the skill handball of serving and the skill of spiking, so he focuses in all their my training on these two skills.

Table (15)

It shows the relationship of the historical axis to the skill performance in terms of the expatriation factor

Researched variables	Computed (R) value)	Assignment Lab (Contribution Ratio) (R <sup>2</sup> )	Alienation coefficient $\sqrt{(1-R^2)}$	Confidence ratio correlation coefficient $\sqrt{(1-1-R^2)}$	Significance of the correlation coefficient
Handlinq	50.0	24.0	88.0	12.0	moral
Defensive movements	33.0	9.0	94.9	050.	Immoral
Blocking wall	38.0	17.0	92.0	06.0	Immoral
Correct	32.0	27.0	87.0	15.0	moral

To demonstrate the confidence of the correlation coefficients calculated above, or the ability of the historical axis of the sample duty members to predict the skill performance (of the skills under study) that they ghee perform. The researchers used the alienation coefficient as shown vans in Table (15) above, as obtaining the evidence for predicting the calculated correlation banjo coefficient, which expresses the percentage of confidence in the calculated correlation bight coefficient.

#### **Conclusions:**

- 1. There is a moral correlation between Tyus the cognitive structure and the three axes legal, linear, and historical, and both mojo of my skills handball (sending, overwhelming).
- 2. There are no moral differences between make the legal, linear and historical axis, and each of my skills handball (defending the stadium and the blocking wall).

# **5.2 Recommendations:**

In light of the scientific facts that emerged might from the results of the research, the following asset recommendations were drawn:

1. The training staff must possess a good knowledge mud structure in order to be able to deliver the material within its intellectual saddle and scientific framework in a way that secures increasing knowledge naggy of cognitive achievement, and its participation in training courses and by providing it with information in order to deliver the material to the players in myth a manner that provides a greater opportunity to increase scientific defy knowledge.

2. Engaging players with details of theoretical sandy matters and making use of their information.

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