

Building and Codifying a Measure of Pursue among Advanced Volleyball Players in Iraq

Afrah Baqer Abduljaleel¹, Luma Sameer Hamoodi²

¹PhD. Student, ²Prof. Dr., Faculty of Physical Education and Sports Sciences for Women / University of Bagdad, Iraq

Abstract

The importance of the study lies in the extent to which the players possess pursue and what it contains in terms of cooperation, coordination and integration in the roles that lead to achieving common goals among the players, which is reflected in their solidarity by performing the required tasks, whether in the training or competition process.

The problem arises: Do advanced volleyball players rely on discipline to achieve the team's common goals, both in training and competition?

The objective of the research was to: Building and codifying the pursue scale for advanced volleyball players, as well as setting standard levels for the advanced volleyball players' pursue scale.

The researchers used the descriptive approach in the survey method because it is more appropriate to the objectives of the research and the nature of the problem. The research community consists of the Iraqi Premier League volleyball players for the season (2019-2020), whose number is (196) players. And all the research sample was selected intentionally.

As for the most important conclusions: It was to find a measuring tool to build and standardize the pursue of advanced volleyball players. The research sample was distributed over five levels of the scale of pursue for advanced volleyball players. While the most important recommendations were: The researcher recommends using a symmetry scale on all players in other team games.

Keywords: *codifying, Building, pursue, players, Iraq*

Introduction

The game of volleyball is one of the popular and well-known public games in most countries and has met with great public turnout because the players need high psychological, skill and physical preparation in all its components and elements, especially the cooperation and enthusiasm of the players towards achieving achievement and great victory and excellence in training and in sports competition.

As the topic of pursue is one of the new topics that have not been addressed in the sports field, which has an important role on the psychological side of the players, because the discipline works to urge the player to be advanced and distinguished among his peers in the

team, especially at the higher levels, as the player needs to cooperation, integration and achieving common goals that work to explode and stimulate its potential energy as well as work on integration and complementarity in performance and coordination of roles towards achieving the common goal of adaptation between players.

Also, coaches need to know what their players possess in terms of cooperative, coordination and complementary capabilities that crystallize under the name called consistency before entering the competition, and this case is not arbitrary, but rather comes through the use of the coach's experience that enables him to know this matter and we mean by it a measuring tool with an objective feature in the expression From this we find the importance of research lies in the construction

and technicians of the symmetry scale for advanced volleyball players, based on scientific foundations for building standards that help coaches achieve this required task.

Therefore, the researchers identified the problem through their simple experience of continuous follow-up to the Iraqi volleyball league, as the volleyball player needs many capabilities and abilities, whether physical, skill or planning, and psychological factors that affect the training process and sports competitions in order to be able to withstand and continue until the last round of the match, pursue is one of the basic variables that determine the player's activity and ability to perform what it requires in terms of cooperation, complementarity and complementation from the player in general, as it is assumed that the player, when practicing any sporting activity, aims to achieve the goals he seeks through his solidarity with his colleagues and coordination according to the centers and roles he possesses every player has reached a degree of achievement, especially when he reaches the higher levels, through the researcher's follow-up of many matches and the first-class volleyball teams, the players noticed differing in the degree of their possession of pursue and the presence of a clear discrepancy among some players, and due to the poor diagnosis and knowledge of coaches of the importance and effect of the synergies of advanced volleyball players objectively as a result of the influences and pressures that players face during matches, whether the crowd pressure was the difficulty and importance of the match and the player's social pressure, all of these make distraction, lack of focus, and completion of the tasks required of the player in coordination, cooperation, integration and complementarity between them, at the beginning of the match there is a clear competition between the players to acquire points and runs, this leads to the failure of the players to adapt among themselves during the player and the emergence of frequent lapses and errors, which leads to the failure to achieve the desired goals, so the researchers decided to build a measure of pursue and codify it on the players of the volleyball clubs of the Premier League in Iraq in an attempt to contribute to the help of coaches in identifying what the players have in terms of discipline, then take the necessary measures and use the educational and psychological units that urge the players to do so to calm down and avoid any defect or deficiency in repetition during training or competition.

Consequently, the objectives of the research were to build and standardize a measure of pursue for advanced volleyball players in Iraq for the 2018 sports season, as well as setting standard levels for a measure of symmetry for advanced volleyball players in Iraq for the 2019 sports season.

As for the areas of research, they were represented by the players of the Iraqi Premier League clubs in volleyball for the year (2019-2020), and the time for conducting the research was for the period from 10/9/2019 to 1/2/2020, as for the place of application of the standards, stadiums and training rooms for class players excellent advanced volleyball in Iraq.

Key words: Volleyball, pursue.

Research methodology and field procedures:

Research Methodology

The descriptive approach was used in the survey method because it is more appropriate to the research objectives and the nature of the problem.

Community and sample research:

The research community consists of (196) players from the Iraqi Premier League clubs in the volleyball season (2019-2020). The sample was chosen by the deliberate method and the sample was distributed among three groups as follows. Where the exploratory research sample was chosen randomly and included (14) players with a percentage (7.142%), and the building and application sample included (182) players and a percentage (92.857%).

Means of Collecting Information: The researcher used the following means and tools to obtain information and data:

Means of data collection: Arab and foreign sources and references, internet.

Tools and devices used:

- **Observation:** It is defined as the attention to a certain phenomenon or problem or something in order to reveal its causes and laws .

- **The interview:** The researcher conducted personal interviews with some experts and specialists in

the field of sports administration, testing, measurement and handball coaches.

- **Questionnaire:** A scientific research tool, where the questionnaire is the appropriate tool to obtain information, data and facts related to a specific reality

Steps to build a measure of pursue for advanced volleyball players in Iraq

To achieve the first research goal of building a pursue scale for advanced volleyball players in Iraq, where the researcher carried out the following procedures and steps .

Determine the phenomenon to be studied: The phenomenon in question is a measure of the pursue of advanced volleyball players in Iraq.

Determine the method of formulating the phrases and their foundations: The process of preparing scale phrases is one of the most important steps, as it requires the fulfillment of certain conditions for the researchers, which is the scale designer

- Knowing how to write the vocabulary so that can choose what suits the goal of the scale.

- Linguistic fluency and ease of expression in simple language.

Determine the axes of the pursue scale:

After reviewing many sources and measures related to correlation related to the current study, the researchers reached to identifying and proposing five axes of the pursue scale that can be employed in the mathematical field:

- Achieving common goals.
- Cooperate.
- Coordination and integration.
- Team cohesion.
- Adaptation between players.

Then the researcher presented the scale axes to those with experience and specialization in the field of administration, organization, physical education and sports sciences, and their number was 15 experts in order to determine the main axes and it was found through table (1) and through statistical treatments (Ka^2) that each axis achieved the values of (Ka^2) is significant and thus are the approved axes for the scale .

Table (1) the percentage of experts' agreement (Ka^2) for the pursue axes

N	Axes	Agree	Disagree	Ka^2	Sig level	Sig type
1	Achieving common goals	14	1	11.26	0.00	Sig
2	Cooperate	12	3	5.4	0.02	Sig
3	Coordination and integration.	13	2	8.06	0.00	Sig
4	Team cohesion.	14	1	11.26	0.00	Sig
5	Adaptation between players.	12	3	5.4	0.02	Sig
Significant at the level 0.05 .						

Preparing the phrases of the axes of the pursue scale:

After choosing the scale axes, the researchers proceeded to prepare the scale phrases in the initial form,

and it was presented to the experienced and specialized in the field of administration, organization and psychology, and their number was (15) experts in order to know the belonging of each statement to the field in the scale.

Table (2) Shows the validity of the pursue statements.

N	Axes	Paragraphs	Experts		Ka ²	Sig type
			Fit	Not fit		
1	Achieving common goals field	1·3·4·5·6·10·2·7	14	1	11.27	Sig
		8	6	9	0.60	Non sig
		9	4	11	3.27	Non sig
2	Cooperate field	3·4·5	13	2	8.07	Sig
		6·7·8·1	14	1	11.27	Sig
		2·9·10	5	10	1.67	Non sig
3	Coordination and integration field	2·4·7·3	13	2	8.07	Sig
		9·10·6	14	1	11.27	Sig
		1·5·8	4	11	3.27	Non sig
4	Team cohesion field	3·6	4	11	3.27	Non sig
		9	6	9	0.06	Non sig
		2·7·8·10·1·4·5	15	0	15.00	Sig
5	Adaptation between players field	1·2·6	13	2	8.07	Sig
		7·10·4	14	1	11.27	Sig
		3·5·8·9	5	10	1.67	Non sig

Significant at a significance level of ≥ 0.05

Method for correcting pursue scale:

The phrases were graded from (1-5) degrees for each statement in the scale, and five alternatives and a graded response were placed, and the highest score that could be obtained on the scale was (175) and the lowest score was (35), where the alternatives to the answer were (always 5 points, often 4 points, sometimes 3 points, rarely 2 points, never 1 point).

Preparation of the pursue scale instructions: -

The researchers prepared the instructions and how to answer the scale phrases and that the response of the sample will be confidential and be used for the purpose of scientific research only, also, the sample members were asked to accurately answer all the phrases for the purpose of reaching objective results.

Linguistic validity of phrases: The scale was presented to a specialist in the Arabic language, in order for the phrases to be sound and free from linguistic errors, and thus the scale would be free from linguistic errors.

Exploratory study of the pursue scale: The researcher applied the scale on the (El-Dagara) club, which was chosen randomly, using a lottery method consisting of (14) players from the original research community, on (10/9/2020)

Apply a pursue scale on construction sample:

The scale was distributed to the players of the Iraqi Volleyball Premier League clubs, which consisted of (182) players, and for the period from 20/9/2020 until 20/10/2020.

Statistical analysis of scale phrases: The researchers adopted the two terminal group style and internal consistency.

The two terminal groups (discriminatory power):

Through this step, a distinction is made between players with high scores and players who score low in the scale forms. The researchers calculated the total score for each player by collecting the total statement scores for the scale. For the purpose of calculating the statement discrimination, the researcher followed the following steps:

First - The forms were corrected and the total score for each question was calculated.

Second - The scores obtained by the sample members are arranged in descending order.

Third - the scores were divided into two groups, one of which represents the players who got the highest scores at a rate of (27%) and the second group represents the players who got the lowest scores at a rate of (27%).

Internal consistency of scale phrases: Internal consistency means the extent to which the statements are related to each other within the scale or test, and the extent to which each statement relates to the standard as a whole.

The relationship of the phrase to the axis and the axis to the overall degree of the scale.

Table (3) shows the internal consistency of each statement of the pursue scale with the overall score of the scale.

N	Correlation coefficient	Sig level	Sig type	N	Correlation coefficient	Sig level	Sig type
1	0.730	0.000	Sig	19	0.865	0.000	Sig
2	0.853	0.000	Sig	20	0.563	0.000	Sig
3	0.906	0.000	Sig	21	0.740	0.000	Sig
4	0.669	0.000	Sig	22	0.836	0.000	Sig
5	0.885	0.000	Sig	23	0.846	0.000	Sig

Cont... Table (3) shows the internal consistency of each statement of the pursue scale with the overall score of the scale.

6	0.543	0.000	Sig	24	0.870	0.000	Sig
7	0.784	0.000	Sig	25	0.878	0.000	Sig
8	0.905	0.000	Sig	26	0.775	0.000	Sig
9	0.863	0.000	Sig	27	0.730	0.000	Sig
10	0.854	0.000	Sig	28	0.793	0.000	Sig
11	0.912	0.000	Sig	29	0.867	0.000	Sig
12	0.750	0.000	Sig	30	0.791	0.000	Sig
13	0.776	0.000	Sig	31	0.837	0.000	Sig
14	0.844	0.000	Sig	32	0.702	0.000	Sig
15	0.675	0.000	Sig	33	0.634	0.000	Sig
16	0.920	0.000	Sig	34	0.607	0.000	Sig
17	0.896	0.000	Sig	35	0.810	0.000	Sig
18	0.872	0.000	Sig				

Significant at the level of significance (0,05)

Table (4) shows internal consistency of the pursue pivot with the overall score of the scale.

N	Axes	Total phrases	Correlation coefficient	Sig level	Sig type
1	Achieving common goals	8	0.696	0.000	Sig
2	Cooperate	7	0.864	0.000	Sig
3	Coordination and integration.	7	0.960	0.000	Sig
4	Team cohesion.	7	0.529	0.000	Sig
5	Adaptation between players.	6	0.853	0.000	Sig

Significant at the level of significance (0,05).

Scientific transactions of the scale:

Validity: The degree to which a test or scale measures the thing to be measured (67: 7)

First: Face validity: It is the test (the scale) whose name indicates its validity, i.e. is true in its outward form, and in other words it is not scientific and statistical validity.

Second: construct validity: the dependence of this type of validity on theoretical assumptions which are verified experimentally and is considered the most complex type of validity . This type of validity has been calculated by:

The method of the two terminal groups: The researchers extracted the discriminatory power of expressions in the study of statistical phrase analysis, and in light of them the researcher identified expressions

capable of distinguishing between individuals who have high scores and those who have low scores.

Coefficient of internal consistency: The internal consistency coefficient was used in analyzing the scale statements, i.e. calculating the validity of the scale statements using the internal criterion by finding the correlation between the degree of each statement and the total degree of the scale, and this type of validity was achieved through the use of the simple correlation law (Pearson).

Reliability: Accuracy in estimating the individual's true mark on the statement measured by the scale, and the researcher has chosen two methods from among them:

First: the Alpha Cronbach method: The stability was extracted in this way by applying the equation (Alpha Cronbach) to the individuals of the sample building each scale using the statistical bag (spss).

Second: Spilt- Half: Use the stability calculation by the spilt-half method using the statistical bag (spss).

Where the coefficients were (Pearson 0.59, Spearman 0.74, Alpha Cronbach 0.89).

Skew ness: The researcher calculated the torsion coefficient using the statistical program spss and it

reached (0.59) for the scale of pursue, where the mean was (119.29), while the standard deviation was (13.91), and the skew ness was (0.53).

Final application of the pursue scale: The number of final scale phrases was (35), as it was applied to the application sample of (182) players for the period of time from 25/1/2020 until 1/2/2020.

The statistical methods used:

- Mean.
- Median.
- Std. Deviation.
- Skew ness.
- Ka^2 .
- Correlation coefficients.
- Percentage.

The researchers used a system (spss) for statistical treatments.

Presentation, analysis and discussion of the results of the pursue scale:

Table (5) shows the raw scores, levels, number and percentage of the pursue scale for the rationing sample.

Levels	Raw grade	Total number	Percentage
Too high	153-170	8	4.39%
High	135-152	40	21.97%
Medium	117-134	76	41.75%
Weak	99-116	57	31.31%
Very weak	81-98	1	0.54%

Where the arithmetic mean of the application sample was (125.81) and the standard deviation ⁽¹⁾ and that the level for the sample was (Medium). Table (5) shows that the application sample occurred at the (average) level, and the researchers attribute that the reason for this is that the largest effect in this area is The cooperation, integration and coordination that takes place between the players has a great impact on achieving common goals, as a result of adaptation, it makes players at a high level, whether in training or competition, as a result of working in the spirit of one team⁽²⁾, and this does not come to diligence or experimentation, and the reason for this is that the players in some matches and according to the conditions of competition, they lose ability and focus and not feel calm and lapses the moment the ball is struck or posting, as well as the lack of cooperation and cohesion between some players as a result of the pressures they are exposed to in the match, external pressures, or the pressure of the public and the important match as a result of not winning and achieving the required goals⁽³⁾, and behavior control plays a big role in influencing their performance during competition and interacting with external influences that may push them to make incorrect behavioral patterns, which may lead to failure to achieve symbiosis among players as well. One of the most important factors affecting this area is the psychological and cognitive aspect of the players and the importance of psychological and cognitive ability. For them, it represents the main place for good behavior, focus, attention, and distraction in order to achieve cooperation, integration and coordination during play ⁽⁴⁾.

Conclusions and Recommendations

Conclusions:

In light of the research results, the researchers reached the following conclusions:

- A special scale was built and codified to measure the pursue of advanced volleyball players in Iraq.
- The research sample was divided into five levels of pursue scale among advanced volleyball players in Iraq.
- It was found that the highest percentage was at the intermediate level, followed by the weak level, then the high level, then the very high level, then the very

weak level.

Recommendations:

After the researchers obtained the most important conclusions, they recommend the following:

- The researchers recommend the use of the scale, which is designed for players, as it is a tool to measure the extent of players' possession of pursue.
- Work on studying the application of discipline to the players in the club and this is done through their pursue of sudden changes.
- The necessity of conducting more studies similar to the Iraqi league players for all team and individual games to measure their pursue.

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Conflict of Interest: None to declare.

Ethical Clearance: All experimental protocols were approved and all experiments were carried out accordance with approved guidelines.

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