

AN ELECTRONIC SYSTEM ACCORDING TO THE COOPERATIVE METHOD AND ITS IMPACT ON DEFENSIVE MOVEMENTS IN YOUTH BASKETBALL

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Abstract

What distinguishes the athlete in dealing with all stimuli is the ability to understand the cognitive rules through which he acts and directs behavior through thinking and regular planning methods in dealing with the environment in a realistic manner, and this comes through techniques and means based on modernity in obtaining information that makes the athlete arrange in His memory is the programs that are the most important crutch for relying on when he asks for them in applying and executing the skill assignment. One of the enhancers of awareness of variables is the ability of coaches to provide openness in modern ideas to find solutions, through which the player can sense and interpret events and produce outputs for quick and successful solutions, so the researcher believes It is possible to influence the athlete in two ways: the environment he deals with and the extent of his interaction with it, as well as the level of learning and providing information related to skill performance when applying motor duties during the match, and from this standpoint and in order to know the impact of relying on an electronic system that works according to a cooperative method and its outputs towards defensive movements in the ball. Basketball for juniors. The goal of the research is the outputs of the electronic system according to the cooperative method towards defensive movements in youth basketball. It is assumed that the electronic system according to the cooperative method will have a response towards the defensive movements of juniors in basketball on the basis of statistical significance. As for the research sample, the Al-Farouq and Housing Forum players, supported Based on the experimental approach and relying on appropriate statistics to give results, concluding that the electronic system according to the cooperative method has a moral impact on the defensive movements of young people, and recommending its adoption and reliance on it, especially the defensive movements of the young group.

Keywords: electronic system, cooperation, defensive movements

Introduction

Reaching goals comes through interaction between the athlete and the means to which he applies them, especially if that means is devices that have a motivational effect that helps the athlete interact easily and quickly as a result of mutual activity between them (Saad M., 2022), which gives a positive impact in the process of improving skills. The player's defensiveness through application on modern devices, which affects the learner's feeling with sensory stimuli through which the sensory devices can be involved during the application with them and find solutions according to his sensory perceptions, which are auditory, visual, and tactile, and choose the appropriate response to those stimuli, (Ali, H., & Khalid, 2018) The use of technology in the sports field and using educational methods improves skill performance, which gives results by facilitating ways to address the problems we face in our sporting events in general and basketball in particular, (Abdel-Nabi, M., Taqi, B. M., & Hammood, 2020) This is through the player dealing with these modern devices and methods (jawad kadhim, M., & Mahmood, 2023) and combining them in a way that serves the technical aspect followed during the application between the learner and the modern devices, since the players, especially the junior category, will respond quickly and determine the extent of the correctness or Response errors during or after execution, following up on the progress of skill performance, and following up on its details accurately, (Dr. Zina Abdul-Salam, 2020), especially since basketball is considered one of the games that requires its learners to control their movement paths with high precision, as it is a game for earning points, investing time and effort in applying basic skills, (Abdel-Nabi, M., Taqi, B. M., & Hammood (2020) and (Moayed, A., Moayed, G., & Jawad, 2019), which led the researcher to aim to enrich learners with the ease of receiving, memorizing, and assimilating the ability to enter information into their intellectual stock and recall it at the time the player deems appropriate, and to distinguish wrong from right when Processing information and making appropriate judgments regarding the situation, (Ali Al-Attar & Jari, 2023), which requires dealing with its circumstances in a meaningful manner and with positive results that can be relied upon in achieving goals, from the ability to link the information stored in his brain and playing situations on the field, by (Nazar, So The researcher believes that choosing the technological method develops the player's awareness and makes him plan, evaluate and interpret his behavior and translate it practically into field implementation on the field. (Ali et al., 2022) Therefore, the researcher relied on adopting an electronic system in a cooperative manner and integrating it with the motor aspect during the application by the players of basic defensive skills in basketball. Its purpose is to address the problems that make the application of defensive capabilities of basic basketball skills for the junior category random and inept and make it Within its correct and precise movement path during execution (Hadi, A., 2019), and (Kadhim, 2012). It is no secret to those involved in sports affairs that the basic skills in basketball are the key to playing and the most used during the match as it is the player's asset to implement his basic skills, especially the ability to The performance of defensive moves is compatible with the offensive positions of the opposing team, which must be subject to educational methods to improve the performance of defensive moves in basketball for the junior category (Hmood & Al-Reda, 2022)

Method and procedures

The researcher relied on the experimental method

Research community:

They are junior players from the Al-Farouq and Alaska Youth and Sports Centres, divided into two experimental and control samples.

Means, devices and tools:

Electronic system number 1

Tools: whistle - basketballs - playground - signs 5

Skills test

Test defensive moves in basketball

Tools: 6 cones - a stopwatch - the free throw zone is legal.

Execution: When the whistle is heard, the player moves according to the basic steps of the defender, sliding sideways to throw. It is not permissible to use normal steps, and the back foot is used to change direction. The player's total time of the last two attempts is recorded (Abdul Kareem, M., & Qasim, 2023).

Sample homogeneity

Table 1: Homogeneity of the research sample's response

The variable	Arithmetic mean	standard deviation	Loom	Torsion coefficient
age	13.32	0.86	13	- 0.79
height	152.44	0.65	152	0.67
weight	42.64	0.79	143	- 0.46

Parity

Table 2: Equivalence of the research sample for the pre-tests

No	Skills	Experimental		Calculated T value	Type of significance	
		S	А	Calculated I value	Type of significance	
1	Basic defensive moves	3.25	0.45	0.69	random	

Test stability:

If the test and re-test were used, the test was conducted on the first day at four o'clock in the afternoon on Sunday, September 17, 2023, and the same test was repeated with an interval of seven days, on September 24, Sunday, for 10 players.

Table 3

the test	Correlation coefficient	indication
Basic defensive moves	0.87	Function

Test objectivity:

Table 4

the test	Correlation coefficient	indication
Basic defensive moves	0.85	Function

Implementation steps

Pretest

At Al-Farouk Sports Forum Hall 10/1/2023 at 4:00 PM on Sunday

The main experiment

It was implemented by the work team using the electronic system in accordance with the cooperative method and included (12) educational units, (3) educational units per week, lasting (60) minutes, and divided into four weeks.

Posttests

It was conducted at four o'clock in the afternoon on Thursday 11/2/2023

Show results

Table 5

The pre and post tests to test the ability to perform basic defensive moves with basketball for the experimental group

Statistical features	Posttests		Pretest		Calculated	Type of
skills	S	А			T value	significance
The ability to perform defensive movements	3.0	0.67	7.31	0.74	5.78	Function

Table 6

Arithmetic means, the amount of development and its percentages between the pre-test and posttest for the technical performance test of the ability to perform the basic defensive movement skill in basketball for the experimental group

Statistical features	Posttests	Pretest	Calculated	percentage
skills	S	S	T value	%
The ability to perform	2.0	7 21	1 21	58 06 %
defensive movements	5.0	7.51	4.51	38.90 /0

Discussion

From the numbers that the experiment produced in the statistical tables, the idea of research based on the electronic system crystallized into the possibility of achieving a change in defensive movements according to the cooperative method (Hamza Muhammad Al-Bahadli & Ali Al-Tamimi, 2022), which had logic and meaning in translating performance on the field. The adoption of the electronic system caused the feeling, then the behavior and the appearance of those results emerged from the experimental research sample, and this is what the sample members confirmed that their application of this technology enabled them to expand their

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thinking space and make it positive with a strong impact and in a simple implementation manner that allowed the sample members to communicate with each other during the application to perform defensive skills. (Ahmed Fadhil Farhan Mohammed Jawad Kadhim, 2016), which led to raising the efficiency of performance and organizing the process of skill implementation, overcoming obstacles, which facilitated the analysis of the details of the skill in a kinetic analysis and the exclusion of attachments that negatively affect implementation. The researcher adds (Jamal, A., & Muayed, 2023) Following the cooperative method had an impact on the way the players thought, which generated disciplined behaviors (Fadel & Kadem, 2021) and (Gree & Attiyah, 2022) that led to reaching the maximum limits of their abilities to deal positively with pressures, control their actions, and their ability to confront changes. Playing with, (Prof. Dr. Mohammed Jawad Kadhim, Prof. Dr. Ghadah Muayad Shihab, 2021) Offensive situations according to defensive movements codified in timing, coordination, and follow-up of offensive movements and dealing with them by choosing defensive movements appropriate to them, (Ali, H., & Qasim, 2023) and also confirms (Mondher, H. A., & Khalaf, 2023 (The assistant work team said that the electronic system helped in adjusting the correct paths in technical performance and gave the players an opportunity to correct errors and how to find the required treatments, which motivated them to learn the technique of defensive movement skill and raised their level and independence, relying on themselves in facing variables and dealing with them on the field and reaching achieved results. By relying on that technology, he assigned duties to him (Salman et al., 2022), and this was confirmed by (Fadel & Kadem, 2021) and gave him sufficient space to arrange and implement them freely and without any restrictions in the face of changes. Therefore, it is advised to follow modernization and keep up with them. To achieve the desire and motivation to learn all skills, especially defensive control skills in basketball for young people, and to move away from routine and randomness, (Easa et al., 2022) and (Mousa, A. M., & Kadhim, 2023). The conclusion is that the return of adopting the electronic system according to the cooperative method between The players' interest in seriousness led to creating a spirit of cooperation, harmony, and communication between them, and understanding the details of skill performance and applying it in an interesting and enjoyable way among young basketball players, (Mahmood et al., 2023).

Conclusions

- 1. The electronic system has a clear impact that has led to a significant amount of development and high percentages of defensive movements in youth basketball.
- 2. The cooperative approach makes the work and application of the curriculum interesting and enjoyable, with positive results that are reflected positively on the defensive movements in youth basketball.

Recommendations

- 1. Modern equipment for basketball training improves defensive skills.
- 2. Taking advantage of the electronic system to conduct similar research on other activities

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