

in Physical Education. *International Journal of Applied Exercise Physiology*. 8(2). 1–5. <https://doi.org/10.30472/ijaep.v8i2.391> Doi: 10.30472/ijaep.v8i2.391

DOI <https://doi.org/10.30525/978-9934-26-253-1-38>

FEATURES OF USING THE VIDEO ASSISTANCE SYSTEM (VAR) FOR THE REFEREES IN MODERN FOOTBALL

ОСОБЛИВОСТІ ВИКОРИСТАННЯ СИСТЕМИ ВІДЕОДОПОМОГИ (VAR) ДЛЯ АРБІТРІВ У СУЧАСНОМУ ФУТБОЛІ

Chopilko T. G.

*Ph.D. in Physical Education and Sports,
Senior Lecturer at the Football
Department
National University of Physical
Education and Sports of Ukraine
Kyiv, Ukraine*

Чопілко Т. Г.

*кандидат наук з фізичного виховання
та спорту,
старший викладач кафедри футболу
Національний університет фізичного
виховання і спорту України
м. Київ, Україна*

Problem statement and its connection with important scientific and practical tasks. Technical means for recording images to determine the winners in sports have been used more than a century. The first mention of photofinishes dates at 1882. It was used to determine the winners of the horse races – the results were recorded and used in the tote for payments.

The financial component was a crucial role in the photo finish. But in 1928 this technology was first used at the Olympic Games in Amsterdam in track-and-field. The correctness of determining the winners has become important not only in terms of finances but also in terms of fairness. Equity and finance are still the key factors in stimulating the development of video replay systems and video refereeing.

Football is one of the most popular sports games in the world. The rules of the game of football have changed periodically and to this day came the game which retained the defining features of the football but with changes dictated by time. Moreover, the modernization of the rules of the game continues to this day.

Experts note that during the existence of football, the speed of movement of players has become much more intense, changed tactics and strategies of the game. Accordingly, difficulties began to appear in the refereeing of the game. The referee in football sometimes just does not have time to follow everything that happens on the big football field because it is very difficult to control all the players and move the ball at high speed. And the point is not in the incompetence of the referees but in the fact that a person can not cope with it at the same time due to physical limitations. Therefore is a need to introduce modern technologies in football to solve this problem.

Analysis of recent research and publications. For the first time VAR (video assistant referee) in football was used in the USA in a match of reserve teams of MLS clubs, and in Europe this system was tested in a friendly match between the national teams of Italy and France.

The first time in history the Hungarian referee Victor Kashai used the VAR system in an official match in the semifinals of the Club World Cup. It was a match that took place in Japan at the Sunte Stadium on December 14, 2016 between the teams of Kasima Antlers (Japan) and Atletico Nacional (Colombia). As a result of the onfield review an Penalty kick was awarded to the Colombian team. The match was ended with the victory of "Kasima Antlers" with a score of 3:0 [4, p. 74].

In the official matches of the national teams the VAR first appeared in the Confederations Cup in 2017. At that time the opinions of experts and journalists on the operation of the VAR were divided as the spectators at that time was not yet accustomed to the fact that the match between the teams could be interrupted for a few minutes at any time [3, p. 1].

Among the players and coaches are both VAR supporters and his staunch opponents. What is the reason for the categorical attitude if the video assistant referee has to help the refereeing team make the right decisions? On the opinion of the legendary goalkeeper of the national team of Italy and Juventus Gianluigi Buffon the referees began to abuse the opportunity and to avoid mistakes began to use VAR where needed and where not needed [2, p. 1].

Despite endless debates between fans and football experts about the introduction of a video assistance system, modern football simply needs VAR like never before. Sometimes the authority of some players can influence the final decision of the referee or the human factor can change the course of the game and only modern technology can help to avoid such mistakes. And simulations as a kind of untirespect game are beginning to disappear due to VAR [1, p. 11].

In Ukraine the VAR began to be implemented in the UPL in 2020.

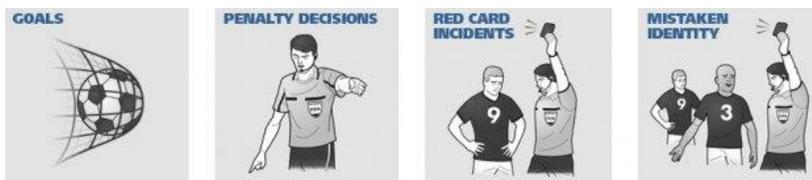
The purpose of the study: to analyze the features of the use of video assistance (VAR) to referees in modern football.

Presentation of the main material. The level of modern technology has reached such a level that it can independently assess the game situations in various sports and accordingly respond to some actions of players (goals scored, violent conducts, etc.). In many kind of sports video replay systems already work this way. However in football the final decision is responsibility of the referee. Moreover FIFA decided to implement the VAR system in such a way that the additionally referees team can review and change game moments. In other words the refereeing of the match continues to be performed by a referee, but with the help by the information system [5, p. 7].

In a detailed analysis of the VAR system its efficiency in comparison with analogues in other sports is quite low. Of course, the system works quite well but at the beginning of its implementation in practice mistakes and failures were quite often. Now the functioning of the system has been adjusted and optimized so even people who were skeptical began to admit that the quality of match refereeing has really improved.

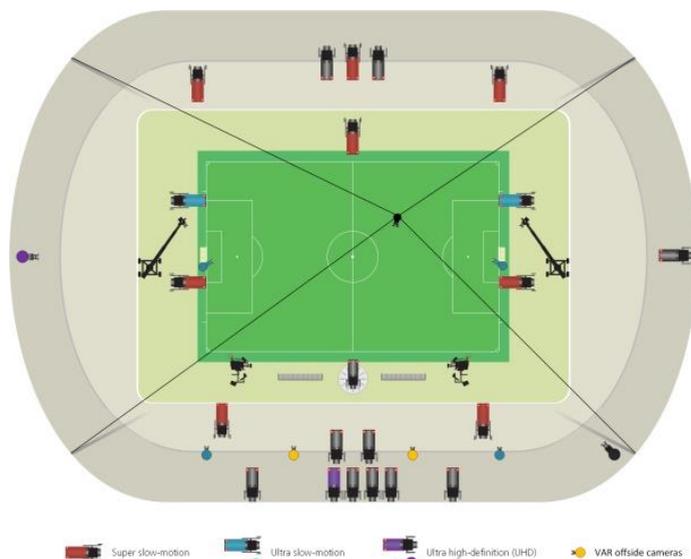
The VAR system is designed to assist in making the right decisions by the referees in four contradictory moments that may arise during the match (Pic. 1) [6, p. 23]:

- checking of each goal scored in the match (APP);
- to check of a penalty kick;
- possibility Red card fot the players;
- determining the degree of guilt of the player who should be punished.



Picture 1

In order for the VAR to function properly, the stadium must be equipped with a big number of TV cameras (Pic. 2). It is necessary for a clear image of the controversial episode from many angles. The main referee of the match has two options to choose – to get a direct hint or to view and evaluate the episode by watching a replay of the game episode in the record – onfield review.



Picture 2

For solve the problem of long-term game stops the VAR Protocol provides for the use of several video referees in resolving disputes – a video assistant referee (VAR) and a video assistant VAR (AVAR). The VAR is responsible for checking game episodes related between players, the interpretation of the Rules, etc. AVAR is responsible for the game moments related to the actual position of the players outside and the interpretation of these episodes in accordance with Rule №11 [6, p. 24].

Conclusions: Summing up it should be noted that the technical innovations that are actively implemented in football do make it more transparent and the results fairer, but even despite the presence of such a universal system as VAR mistakes in refereeing are possible (if they are highly qualified professionals).

References:

1. Zyukin D.A., Matushanskaya E.E. Mass sports as an integral element of the implementation of the concept of a healthy lifestyle of the population. *Regional Bulletin*. 2018. No 6(15). P. 11–13.
2. Video Assistant Referee (VAR). How the system of video replays of the future works. *Football information portal 24*. [Electronic resource]:

Access-stupid mode: https://football24.ua/ru/mir_tag36/ (date of application: 03/18/2020).

3. Video assistance system for referees. *Sports portal Fan of sports*. [Electronic resource]: Access mode: <https://sportsfan.ru/sistema-videopomoshhi-arbitram.html>. (Date of access: 18.03.2020).

4. Kivgazov K.S. Using the VAR system at the 2018 FIFA World Cup. *Young Scientist*. 2019. No 20. P. 74–75.

5. Telykh D. A. VAR as an automated system for monitoring of the football match. *Regional Bulletin*. 2019. No 5(20). P. 7–9.

6. Telykh D. A. The use of innovative cameras as one of the elements of information systems for refereeing football matches. *Regional Bulletin*. 2019. No 2(17). P. 23–24.

DOI <https://doi.org/10.30525/978-9934-26-253-1-39>

PHYSICAL EDUCATION OF CHILDREN OF OLDER PRESCHOOL AGE USING FAIRY TAIL YOGA

ФІЗИЧНЕ ВИХОВАННЯ ДІТЕЙ СТАРШОГО ДОШКІЛЬНОГО ВІКУ ЗАСОБОМ КАЗКОВОЇ ЙОГИ

Shturko G. I.

*Postgraduate Student at the
Department of Preschool Education
Kryvyi Rih State Pedagogical
University
Kryvyi Rih, Dnipropetrovsk region,
Ukraine*

Штурко Г. І.

*аспірант кафедри дошкільної освіти
Криворізький державний педагогічний
університет
м. Кривий Ріг,
Дніпропетровська область,
Україна*

Постійні, швидкі та істотні темпи зростання захворюваності дітей з психічною невірноваженістю привели до того, що постало питання про необхідність введення у фізкультурне зайняття нових форм і методів фізичного виховання. Нині гостро стоїть питання про фізичне і емоційне здоров'я дітей, оскільки це основа формування особистості. Прийнято вважати, що здоров'я населення залежить на 10% від медицини, на 15% від спадковості, на 25% від впливу довкілля, на 50% від індивідуального способу життя. На думку спеціалістів – медиків 75% усі хвороби людини закладено в дитячі роки і тільки 10% дітей