



PSIWORLD 2013

A comparative study on the evolution of the parameters in professional soccer matches

Stănculescu George^a, Melenco Ionel^a, Popa Cristian^{a*}

^aFaculty of Physical Education and Sport, Ovidius University, Str. Cpt. Av. Al. Serbănescu, nr.1, RO-900470, Romania

Abstract

We conducted this comparative study showing the evolution of the parameters of soccer matches. The objective of study was to compare the statistically significant parameters on the evolution soccer matches, Romania 1st League and international matches season 2010-2011. Another objective of this study is the efficiency analysis notation in preparation matches and ways of training in soccer. As a research method we used analysis of simple notation. The results of teams participating in international competitions were significantly better than those of the teams in Romania 1st League with the following parameters: assists, one to two, dribbling successful.

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Selection and peer-review under responsibility of Romanian Society of Applied Experimental Psychology.

Keywords: analysis, matches, parameters, soccer.

1. Introduction

Soccer game simultaneously creates a lived experience of the players, coaches and spectators. Generally teams are judged on their ability to win matches, possession of the ball long, prolonged attacks third field goal. To achieve such objectives, must be well known to the playing styles of the elite teams. Notation is an objective analysis of the performance record that can be quantified in a consistent and reliable way. Playing with numerous attacks in the

* Corresponding author. Tel.: 0723163816; fax: 0241-640443
E-mail address: crispopa2002@yahoo.com

future will be key to attractive football. And this may explain why most games analyzed recounts attack game. In soccer, a direct style of play leads to a high percentage of empty brand (Garganta, Maia & Basto, 1995).

Behind the victory is the fact that teams actually have a shot to win and create successful attacks in the third field goal, increasing their chances to score (Pekka, Luhtanen, Korkonev & Ilka, 1997). Notation analysis focuses on analyzing every move, as well as the rate of effort during a soccer match, from simple notation (Reep & Benjamin Source, 1968), studies aimed module enrollment goals (Hughes & Robertson, 1998). Reilly and Thomas 1976, analyzed the number of shots compared to goals scored and every move during a soccer game, intensity and duration of action thus analyzing the computerized notation as in evolution (Hughes & Franks, 1980, 1983). Franks & Muller (1968) states that, international football coaches pursuing the development of a soccer match cannot hold more than 42% of the important stages of the match (and collaborator Hughes, 1997), concluding that appear necessary or computerized drawing simple notation analysis, which improves technical and tactical monitoring the percentage of soccer. Franks & Miller (1987) showed that soccer coaches are in an amount less than 45% in terms of post-game analysis. Hughes (1988), Yamanaka (1993) conducted some studies using notation analysis, which examined the technical and tactical games. Authors have also referred, and how they can be used in these studies (Yamanaka, Masuda, Hughes & Togari, 1992). Notation analysis systems have been developed to obtain insights into the competition, such as the behavior of the game, tactics training, and different strategies (Hodges & Franks, 2002; Hughes & Bartlett, 2002). Qualified computer system allows observation systematic, details of a match or of several matches. Nevertheless, few studies have addressed the specific techniques and tactics of soccer, in order to change the strategy of the game or practice (Bate, 1988; Hughes & Franks, 2005). Pioneers in the field: Franks (1983), Hughes (1985), Bate (1988), Harris & Reilly (1988), Hughes (1988), Yamanaka (1993). Through computerized analysis of the action of each player in possession of the ball were able to analyze movements, could be tactical and technical evaluation, as well as more accurate statistical comparison. Analysis detailed notation football players' aim: care, shot, winning the ball, free kick goal, dribbling, etc. Parse every game offers a more scientific view on player and team development measures to be taken to creating their own strategies for the game, which is surprised and dominated opponents in order to gain points.

Hypothesis

Through this paper we make a comparison between the conduct of the National League matches in Romania and European Leagues (European League, Champions League). We want to present in detail several parameters and statistical aspects of the game of soccer.

2. Material and Methods

Procedures

In this study we used a simple notation analysis research method (videos, pen, paper, computer), after watching broadcasts of the matches in Romania 1st League, European League and Champions League. The parameters studied in these competitions are: shots on goal, red cards, assists, tackling, aerial duels won, 1-2's, successful dribbling's, attacks. All these parameters were collected while watching televised matches.

Statistical analysis

Statistical interpretation of data obtained from initial and final test was performed with the Student test (t) according to "Table III of Fisher & Yates, Statistical Tables for Biological, Agricultural and Medical Research, published by Longman Group Ltd. London" and test d Cohen, recorded in the computer.

Testing

Research methods used in this study are: observation, comparative method, graphical method.

The study itself has started on 14.11. 2010 and ended on 28.05.2011, watching TV direct broadcast matches. We watched and analyzed the following parties: Romania 1st League -20 matches; Europa League - 16 matches; Champions League -18 matches.

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