

Abstract

Title: Participation of the players on the team game performance in ZBL matches

Objectives: My work deals with the proportion of female players on the team's performance in the game of basketball teams in the women's top basketball competition - ZBL. My main aim is to explore these trends from the season 1998/1999 to 2019/2020. The file of observed extraleague players was divided into three categories (Czech players under 20 years, foreigners, Czech players over 20 years). At the same time I determined the monitored characteristics (number of players, numbers of minutes played, numbers of points scored, coefficients of validity) that are significant for the research. The data from the Women's Basketball League can be found on the website of Czech Basketball Federation, where they are available. This work follows, updates and extends my Diploma thesis (2014).

Methods: The study is based on the secondary analysis of statistical data of different teams that participated in the seasons from 1998/1999 to 2019/2020 in the Women's Basketball League (ZBL). The focused seasons are divided into several years cycles and for further processing I used basic statistical and comparative methods, to get information if there is existence of link among focused situation we used Chi-squared test independence in contingency table. To get information about existence significant differences we used Kruskal-Wallis test. Effect size was counted using coefficient η^2 eta-squared and in case to find out statistic significant difference between files was done post-hoc analysis using nonparametric Mann-Whitney test.

Results: The given results have confirmed all three set hypotheses: an increase in players from abroad and their significant effect on the Extraliga competitive matches, reduction of statistical data for Czech players under 20 years and an increased participation of foreigners in the monitored statistics (minutes played, points scored, validity). We monitored all the best players after each year they played. Dividing and comparison of several cycles into several years showed existence differences and dependence among these cycles which are statistically significant. While doing a research into the national composition of players in all Women's Basketball League (ZBL) teams, the author found out that most foreign players come from the USA (46 %), followed by slovakian players (15 %). The average number of foreign players is 2,5 per team from the total number of 22 seasons, 226 teams and 574 foreign players. However, there was a significant increase in the average number of foreign players to 3,1 from the season 2015/2016 to the season 2019/2020.

Keywords: Basketball, team game performance, foreigners, league ZBL