The Frequency of Technical and Tactical Offensive Actions of Elite Serbian Handball Teams

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Abstract

The goal of this research is to determine the modal characteristics of technical and tactical actions in handball offense. The subject sample consists of elite Serbian national handball teams. The observed variables are selected based on the unique criteria that characterizes the conclusion of the offensive actions, both in situations when there is an equal and unequal number of players on the field. The results confirm that all analysed actions are not equally represented in play of the observed teams and that there are multiple factors that contribute to the final team standing. The data shows that the defining characteristic and the highest offensive efficiency of the best teams was achieved by using counterattacks, which is to be expected given the fast pace of the modern handball.

1. Introduction

Modern sport is characterized by the variety of technical and tactical actions. Actions utilised in a given sport are primarily dependent on the competition rules, players physical and mental attributes of players, as well as motor abilities (Malacko & Stanković, 2011; Karcher & Buchheit, 2014; Ilić, 2015). Handball is a sport with a wide variety and complexity of technical and tactical actions. These can be offensive or defensive, individual, group or team plays (Tomljanović & Malić, 1982). The analysis of the actions efficiency in modern handball is of vital importance for the team’s success (Belčić & Sporiš, 2012). The wide variety of offensive actions in particular has been the subject of many studies. Some had the goal to analyse the efficiency of attacking actions based on the player position when shooting (Costa et al., 2015) and others the efficiency and frequency of

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individual, group or team offensive plays (Srhoj, Rogulj, & Katić, 2001). The goal of this research is to determine the modal characteristics of technical and tactical actions in handball offense.

2. Material and methods

For this research, the subject sample has taken into the account all 12 handball teams that compete in Serbia’s top competition - Serbian Super League. The players of the observed teams are male, senior professional registered players who actively compete in the season 2018/2019. No further restrictions were made to the selection of the sample of subjects. In order to determine the frequency of the selected teams technical-tactical actions (TE- TA), the following variables were taken into the account: shots made from the position of pivot, shots made from the position of wings, shots made from the position of backs, shots made from the penalties, and shots made from the individual player actions. These variables are selected based on the unique criteria that characterizes the conclusion of the offensive actions, both in situations when there is an equal and unequal number of players on the field. Data was collected by analysing videos of games played in 2018/2019 season. The observed TE-TA were analysed using graphical and statistical descriptive and frequency methods in order to determine how often they occur in the offensive play for each of the selected teams. Microsoft Excel 2016 was used for all calculations and graphical representations of the data in this research.

3. Results and Discussions

After collecting and analysing the data, the overall results are shown in the table 1. The results confirm the expected positive trend, where the top teams were more efficient and had more successful attempts on goal in comparison to the teams that finished in the lower end of the season 2018/2019 table.

Table 1. Frequency of offensive actions of teams

<table>
<thead>
<tr>
<th>Standing</th>
<th>Team</th>
<th>PVT</th>
<th>WNG</th>
<th>BCK</th>
<th>PEN</th>
<th>CAN</th>
<th>INA</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dinamo</td>
<td>62</td>
<td>44</td>
<td>40</td>
<td>35</td>
<td>67</td>
<td>31</td>
<td>279</td>
</tr>
<tr>
<td>2.</td>
<td>Metaloplastika</td>
<td>78</td>
<td>30</td>
<td>68</td>
<td>22</td>
<td>82</td>
<td>20</td>
<td>300</td>
</tr>
<tr>
<td>3.</td>
<td>Novi Pazar</td>
<td>68</td>
<td>44</td>
<td>65</td>
<td>32</td>
<td>36</td>
<td>25</td>
<td>270</td>
</tr>
<tr>
<td>4.</td>
<td>Partizan</td>
<td>79</td>
<td>31</td>
<td>34</td>
<td>18</td>
<td>42</td>
<td>23</td>
<td>227</td>
</tr>
<tr>
<td>5.</td>
<td>Šamot 65</td>
<td>37</td>
<td>39</td>
<td>58</td>
<td>51</td>
<td>54</td>
<td>38</td>
<td>277</td>
</tr>
<tr>
<td>6.</td>
<td>Crvena Zvezda</td>
<td>47</td>
<td>35</td>
<td>60</td>
<td>30</td>
<td>31</td>
<td>36</td>
<td>239</td>
</tr>
<tr>
<td>7.</td>
<td>Spartak Vojput</td>
<td>56</td>
<td>30</td>
<td>42</td>
<td>28</td>
<td>47</td>
<td>24</td>
<td>227</td>
</tr>
<tr>
<td>8.</td>
<td>Kikinda</td>
<td>65</td>
<td>34</td>
<td>60</td>
<td>28</td>
<td>37</td>
<td>31</td>
<td>255</td>
</tr>
<tr>
<td>9.</td>
<td>Mokra Gora</td>
<td>73</td>
<td>23</td>
<td>19</td>
<td>20</td>
<td>64</td>
<td>12</td>
<td>211</td>
</tr>
<tr>
<td>10.</td>
<td>Obilić</td>
<td>59</td>
<td>22</td>
<td>17</td>
<td>14</td>
<td>23</td>
<td>5</td>
<td>140</td>
</tr>
<tr>
<td>11.</td>
<td>Rudar</td>
<td>39</td>
<td>24</td>
<td>53</td>
<td>11</td>
<td>17</td>
<td>25</td>
<td>169</td>
</tr>
<tr>
<td>12.</td>
<td>Sloga</td>
<td>34</td>
<td>40</td>
<td>31</td>
<td>15</td>
<td>22</td>
<td>27</td>
<td>169</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>697</td>
<td>396</td>
<td>547</td>
<td>304</td>
<td>522</td>
<td>297</td>
<td>2763</td>
</tr>
</tbody>
</table>

In order to gain a better understanding of the data, the graphical analysis of each of the observed offensive team actions frequencies, as well as total action occurrence, was presented in the charts 1-7.
Based on the results gained from descriptive statistical and graphical analysis, we can deduce that the better positioned teams had better overall offensive parameters. Some deductions on tactical play of the observed teams could be extracted from the data. We can observe that the top team, Dinamo, based their play on individual attacking actions of players and shots from the wings (charts 2 and 6). In comparison, second placed Metaloplastika relied more on shots from backs and pivot, meaning they had more quality in those positions (charts 1 and 3). The most significant category is the number of counter-attacks (chart 3). The team that was third in the final standings, Novi Pazar, had top parameters in all offensive actions except in the counter-attack category. In comparison, the top two teams had significantly higher number of counter-attacks. We can conclude that the dynamics of modern handball and high intensity of the game puts fast counterattacks, which facilitate scoring goals much more easier compared to positional attacks, as the most important aspect of the offensive technical-tactical play in handball. Given that in order to have good counterattacking play in handball teams have to have strong defences, this can also indicate that the top two teams in this research probably had better defences as well. These conclusions are similar as those in the research conducted by Rogulj, Srhoj, & Srhoj (2004) on the teams competing in First Croatian Handball League for men. After analysing 90 games, the results showed that top teams were clearly characterized by quick attacks, whereas the slow attacks were the characteristics of the teams from the lower end of the table. These conclusions are further confirmed in the 2011 research by Rogulj, Vuleta, Milanović, Čavala, & Foretić, in which they conclude that although the number of group and collective offensive actions is more frequent, it is less efficient in comparison to individual actions and counterattacks. In the paper by Srhoj et al. (2001) analysed the results of 80 matches from 1999 Men’s World Handball Championship in Egypt. It’s concluded that the most efficient offensive actions in the tournament, and especially the final match, were individual actions by the break-throughs and from the counterattacks. The research conducted by Vuleta, Sporiš, Purgar, Herceg, & Milanović (2012) of the attacking action efficiency of the teams that participated in the final men’s tournament in the Olympic Games in Peking 2008 also emphasises the pivotal importance of counterattacks, as the leading success factor in modern handball. Conclusions in above-mentioned researches is in accordance with the conclusions made in this research.

4. Conclusions

Handball is a sport with plethora of intertwined technical and tactical actions. There has been many conducted studies in order to determine which of these parameters are crucial for success. The results gained from this research indicate that the handball is a complex sport with different styles of play which rely on different technical-tactical abilities, but that the fast pace of modern game puts a high importance on counterattacks. It can be concluded that this is the defining characteristic of the best teams that compete in top competition in Serbia. The goal
of future research is to include the data from defensive actions, as well as to analyse teams from other top leagues in Europe.

References