

ABSTRACT

- Title:** Statistical analysis of the influence of body height of ATP players on the success of their game
- Objectives:** The aim of my bachelor's thesis is to determine whether a player's body height affects his position in the ATP rankings and whether it affects the effectiveness of his serve. At the same time, I will investigate the possible influence of surfaces on player's serve statistics and his position in the ATP rankings.
- Methods:** The mentioned monitoring was determined on a sample of TOP 200 players of the ATP ranking. Mathematical-statistical analysis of the data was carried out by collecting the data reported on the official ATP website. The results of my investigation were compared with similar characteristics of selected professional literature.
- Results:** Mathematical-statistical analysis showed a loose correlation between a player's body height and his position in the ATP rankings. Furthermore, a stronger correlation was shown between serve statistics and ranking and between serve statistics and player height. This correlation changes with the type of surface, where the most closeness to the player's position in the ATP ranking or his body height is shown by the serve statistics of the player serving on a hard surface.
- Keywords:** Tennis, body height, serve, surfaces, ATP