

Abstract Title: Serve analysis of Australian Open 2017 semifinalists. **Aim:** The aim of this paper was analysed tennis statistics of serves during tennis tournament – Australian Open 2017. The results are based on 24 matches. All those numbers are converted into tables and graphs. The paper includes averages of serves statistics for each playery which are compared between them and other numbers. **Method:** The analysis was made by data collection from official website of Grand Slam's tournaments. **Results:** Results reflect the most successful players with succes of the first serve, effiency of first and second serve, numbers of aces per match and numbers of doublefaults per match. **Key words:** tennis, serve, efficiency, succes