

Abstract

Title: The influence of swimming part of triathlon the total performance in competitions of world championships 2000-2010.

Objectives: The aim is to investigate the influence of the swimming part of the total performance in triathlon in the last 10 years.

Methods: The relation between two variables (times from swimming and the total time of competitions from competitions of world championships 2000-2010) were described with the help of linear regression. Individual years were then compared in a point graph.

Results: Our hypotheses were confirmed. It means that the result from the swimming part explains the result from the competition in less than 30%, which means the R^2 is smaller than 0,3. We also found, that the influence of the swimming part on the final result in triathlon has not changed in the last years. The relationship times in the swimming part and total (final) times was closest in 2005 ($R^2 = 0,21$). In other years, this dependence is lower, R^2 was smaller than 0,07.

Keywords: linear regression, longitudinal analysis, performance