SUMMARY

Title: The relationship between rest and the maximum spirometric indicators in

the triathlon

Made by: Bc. Zdeněk Kučera

Supervisor: Mgr. Lenka Kovářová, Ph.D., MBA

Objectives: The aim of thesis is to analyze the relationship between rest and the

maximum spirometric indicators for triathletes, who are members of the SCM. It will be also determined whether the analyzed indicators show

statistically significantly better performance of triathletes in the

representation compared to other triathletes in the SCM.

Methods: Data were collected on basis of standard test, which was attended by

triathletes in term of SCM. Data were statistically analyzed based on

correlation analysis and unpaired non-parametric test. Statistical

significance was assessed at the level of 0.05 or 0.01.

Results: In the group of men can be confirmed that between rest and maximum

indicators is statistically significant correlation relationship (except for

respiratory rate and the economy). Another output is achieved for

women, a statistically significant relationship exists mainly between rest

spirometric indicators and tidal volume and respiratory rate. Higher

values of VO_{2max} is achieved in groups with better performance, this is

valid for both group of men and women.

Keywords: diagnostics, maximum oxygen consumption, vital capacity, youth sports

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