Abstract

Title: Comparison of Current Methods of Cycling Set Up for Cycling Olympic

triathlon (case study).

Objectives: The main aim of the thesis is to compare the subjective and objective

performance of selected fitting settings.

Methods: In our work we compared three methods of cycling setting - theoretical

methodology of calculation and individual dynamic methodology of Retül

and Guru Fit Bike. We used the objective performance evaluation

Spiroergometric stress test. We have rated the performance achieved at the

level of aerobic and anaerobic threshold and then compared the maximum

achieved parameters. The pedal technique was evaluated using the Wattbike

SW. Comparison was performed using percentage points. Subjective

assessment was carried out by means of a controlled interview.

Results: We found that proband in the subjective evaluation better evaluated the

methods of the Guru Fit Bike and Retül compared to the objective rating in

which the theoretical method achieved the best results.

Keywords: biomechanics, fitting, effectiveness of cycling, pedal technique,

spiroergometry.