

## **ABSTRACT**

**Title:** Comparison of functions of sports testers designed for control and monitoring of parameters of movement in water

**Objectives:** Comparison and evaluation of individual functions of selected sport-testers in different types of swimming training.

**Methods:** The research group consisted of one probande, a student of Charles University FTVS. In the research, we chose a controlled observation method to detect and compare the individual functions of selected sports testers over three types of swimming training.

**Results:** Based on an analysis of the accuracy of the recording of observed quantities for individual sporttesters, we found that the sporttesters Polar and Garmin can be used both to manage and guide and control swimming training. However, the final record needs to be supplemented by the exact sum of the swimming metres, which in turn refines the results of the average swimming speed. The Swimmo sports tester was rated the worst, based on inaccurate measurements of individual quantities and instrument control. In an overall assessment of all devices and their parameters, the Sporttester Polar was the best.

**Keywords:** heart rate, swimming training, Garmin, Polar, Swimmo