ABSTRACT

Title: Using a tensimyograph to measure girls in sport aerobics

Objectives: The goal of my bachelor thesis is perform a functional muscle diagnosis with a focus on the quadriceps femoral muscle in a team of sport aerobics girls using TMG. Based on a general analysis of the training load, evaluate the effect of the training on the functional status of the femoral muscle and deduce general training

recommendations.

Methods: This bachelor thesis is a case study. Research is done qualitatively. mapping a small

number of respondents. The actual measurements on the tensiomyograph, the

analysis of the results and the recommendations of the measurement were performed

on five selected individuals.

Results: The task of the thesis is a description of a device called tensiomyograph, about which

known documents had to be searched and translated exclusively from abroad. The

second task, the output of this work is the results of measuring five respondents from

the TMG and the analysis of the two-month competitive season, on the basis of

which a recommendation was made leading to the elimination of the imbalances,

through strength exercises, resp.stretching exercises.

Keywords: Sports aerobics, training load, motion apparatus, tensiomyograph, muscle