BACHELOR THESIS ABSTRACT

First name and surname: Nathalie Stehlíková

Supervisor: Ing. Kristýna Plevová

Title of the bachelor thesis: Prevention of damage of the posterior tigh muscles in active

football players

Abstract:

This bachelor thesis deals with prevention of damage of the posterior tigh muscles in active

football players, also known as hamstrings. The aim of this thesis is to create a training unit

to stretch and strengthen posterior thigh muscles. Furthermore, to create information brochure

about before and after training preparations.

This thesis is both theoretical and practical. Theoretical part deals with football, skeletal muscle

anatomy and detailed anatomy of posterior thigh muscles, risk factors leading to injuries,

injuries of posterior thigh muscles, it's treatment and therapy. A considerable portion of this

thesis is focused on return to training process, prevention of the injury, regeneration

and compensation exercises.

Eight probands of AC Sparta Praha took part in the practical part. They were randomly divided

into experimental group, which did the chosen exercises and control group, which only received

information brochure but did not participate in the exercises. As a part of the entrance and exit

testing, evaluation of shortened muscles, range of motion, modified muscle test and tests

of motoric functions were carried out. Entrance and exit form together with training form were

also filled out by probands after every exercise.

The evaluation of the training unit was done based on differences between entrance and exit

testing values. Results are shown in graphs and tables. The results show that the chosen training

unit is effective and helpful for the football players.

Key words: hamstrings, demage, football, soccer