Abstract

Title: Axial system straining during martial arts and after care compensation of

injuries

Objective: The main goal of this diploma thesis is to bring complex view on injuries of axial

system, which happend during martial arts. This thesis is going to define the

ijuries and offer an alternative compensation of these injuries. Furthermore, the

focus is on summarizing current knowledge about this issue

Methods: The thesis is based on literary research and has an analytical-descriptive

character. The studies used meet predetermined criteria. The work is divided into

several parts. The first part, called the theoretical background, focuses on the

description of combat, further analyzes the axial system of man and also the

biomechanics of the components of the axial system. The next part discusses the

load of the axial system in the fights. After that, the work deals with injuries in

combat.

Results: Based on the findings of individual studies, it can be said that the vast majority

of all injuries incurred during judo and Brazilian jiu jitsu are orthopedic. Large

joints were most affected by the injury. Injuries within the axial system occurred

rather sporadically and were mostly head and cervical spine injuries.

Keywords: axial system, axial system injuries, fights, judo, Brazilian

jiu jitsu, combat in combat, physiotherapy in combat