Abstract

Title: The Occurrence of Lower Crossed Syndrome in Sprinters and the

Possibilities of Influencing it in Physiotherapy

Objectives: To determine the prevalence of lower crossed syndrome in specific

group of sprinters and compare it with control group. To compare

occurrence especially in men and women in sprint.

Methods: To obtain informations from the research were used clinical tests-

muscle test by Janda for testing muscle strength of m. rectus abdominis

(trunk flexion test), m. gluteus maximus (test of extension in hip with

contemporary flexion in knee), m. gluteus medius et minimus (test of

abduction in the hip joint) and examination of frequently shortened

muscle groups by Janda for examination shortening of the hip flexor

muscles (m. iliopsoas, m. rectus femoris and m. tensor fascia latae) m.

quadratus lumborum- lateral variant and paravertebral back muscles. To

select probands into research and control groups was created

nonstandard questionnaire with open and closed questions. In the

research there were 40 probands.

Results: The results show that the lower crossed syndrome by Janda is more

common in sports recreationally individuals than sprinters. Furthermore

the lower crossed syndrome by Janda is more common in sprinters-

men than in sprinters- women, but here the results are not so clear.

Keywords: lower crossed syndrome, muscle imbalance, athletics, sprint,

compensation exercise