

Abstract

Title: Dependence of the gait parameters on a stature of an adult

Objectives: The main aim of this study is to find out how the gait parameters depends on a stature of an adult. Another aim of this study is to compare these parameters between group of men and group of women.

Methods: This thesis is type of descriptive - association research. In the practical part was used method of comparison for locomotion of people. As an objectification method was chosen 3D kinematic analysis of gait, which was performed using the Qualisys.

Results: It was found that the dependence on a stature subject to the step length, pelvic rotation, flexion of a front knee, frequency and walking speed. Linear dependence on a stature is not subject to the the angle between femurs and flexion of a back knee. It was also found that the values of parameters which have the highest rate of variability reach a relatively low angular values. These parameters include the angle of rotation of a pelvis and the angle of flexion of a front knee. Opposite qualities shows the angle between femurs, which reaches the highest value, but clearly has the lowest rate of variability.

Keywords: gait, footstep length, double support, stature