

Abstract

Title: The effect of a six-week physiotherapeutic intervention in child patients with clubfoot evaluated with a change in ROM of ankle dorsiflexion and the quality of gait measured by 2D analysis.

Objectives: The aim of this work was evaluation of six-week physiotherapeutic intervention focused on movement and stability improvement in child patients with clubfoot based on a change in ROM of ankle dorsiflexion and the quality of gait measured by 2D analysis.

Methods: The work consists of a theoretical part, which summarizes the theoretical background to the chosen topic, and a practical part. For the purposes of the practical part, an intervention group of patients (aged from 3 to 6 years) who have already received medical treatment for clubfoot, was created. The physiotherapeutic intervention period was six weeks, during that period there were from 4 to 5 individual exercises supplemented with home exercises. At the beginning and at the end there were control measurements. The control measurements consisted of a clinical examination and a 2D analysis of gait, supplemented by a dynamometric examination of gait.

Results: There were no verifiable improvements in measured parameters, especially in a combination of several factors related to both the intensity of the physiotherapeutic intervention and the lack of data obtained from the examination.

Keywords: clubfoot, physiotherapy, 2D gait analysis, dynamometry, ankle