

Abstract

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Title: Possible orthotic solutions of Pes equinovarus congenitus

Objective: The aim of this thesis is to point out and summarize the available options for solving the issue of Pes equinovarus congenitus. This thesis should also out provide vital information regarding the functional principles and technical composition of equipment and assess the influence of individual types of correction braces and create a basic overview of the relevant subject. The work is focused on the influence of knee-ankle-foot orthosis (KAFO) and ankle-foot orthosis (AFO) orthoses in one-sided congenital malformation of Pes equinovarus congenitus demonstrated on one case report.

Methods: A proband at the age of about 1 with diagnosis of unilateral congenital malformation of the right lower limb (pes equinovarus congenitus) was involved.

The proband was measured accordingly to provide specific data for the production of orthoses and then the subsequent production of three variants of orthosis suitable in the specific case of the solved proband took place.

Results: The KAFO brace was proved to be the most efficient choice in this particular case.

Keywords: pes equinovarus congenitus, congenital defect, lower limb deformity, orthotics, orthosis, KAFO, AFO