

Abstract

Title: Orthotic options of paretic limbs in patients after a cerebrovascular stroke

Objectives: The main goal of the thesis is to introduce a medical reader to the orthotic options of paretic limbs in patients after a cerebrovascular stroke in the context of a comprehensive multidisciplinary approach.

Methods: In my thesis, I have used the methods of systematic research of accessible books, online sources, published studies, and proceedings of Czech or even foreign conferences. Further materials used in the thesis comprise presentations and notes from certified trainings for physiotherapists, professional internships in rehabilitation or orthotics departments, and from personal consultations with experts from fields of orthotics, neurophysiotherapy, robot-assisted rehabilitation and multidisciplinary team management.

Results: The thesis offers a comprehensive overview of rehabilitation care in patients after stroke together with an overview of orthotic options of paretic limbs in patients with permanent effects, e. g. spastic paresis, post stroke shoulder pain or joint instability. The thesis could be useful for all members of a multidisciplinary neurorehabilitation team and it should lead to improvement of awareness about orthotic options and to better understanding of the work of an orthotics specialist who should be present in every such a team.

Keywords: spastic paresis, multidisciplinary approach, modern neurorehabilitation, neuroplasticity, hemiparetic gait, ankle-foot orthoses, orthotics, static progressive stretching