

ABSTRAKT BAKALÁŘSKÉ PRÁCE

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Oponent práce:

Název bakalářské práce:

Postural changes in hereditary polyneuropathy – treatment possibilities by use of the physiotherapy methods

Abstract:

Hereditary neuropathy is a clinically and genetically heterogeneous group of diseases which most often represent a hereditary neuromuscular disorder. The prevalence is approximately 17-40 per 100 000. The most frequent form is called Charcot-Marie-Tooth disease (CMT) or hereditary motor and sensitive neuropathy (HMSN). In most cases, the clinical symptoms appear in the 1. and 2. decade and include atrophy and weakness of lower limb muscles (peroneal atrophy), the pes cavus deformity of the foot with a shortened Achilles tendon, areflexia in the lower limbs and the stocking type sensory disorder. Patient's difficulties are demonstrated in four basic fields: muscle limb weakness, gait failure deformity of the foot, lower dexterity of the limbs, sensitivity defect (pins and needles, a lack of sensation, pain). By sensomotoric stimulation (specific trainings on balance surface) is possible to maintain the best quality of movements and stability in standing and gait and at the same time to cause preventively on co-occurring articulation and spinal pains. Sensomotoric stimulation effect is in this paper verified by Balance Master System method. Final outcomes approve positive effect of sensomotoric stimulation on patient's postural stability and objectify treatment results.

Key words:

Hereditary polyneuropathy, Charcot-Marie-Tooth, postural stability, sensomotoric stimulation, computerized posturography.