Abstract

Title: Interrater reliability of assessment set of clinical features of patients with multiple sclerosis

Objectives: The aim of this thesis is to verify interrater reliability of the assessment set of clinical features of patients with multiple sclerosis which purpose is to evaluate sensitivly and comprehensivly the stage of the patients´ clinical condition.

Methods: According to the inclusion criteria, the patients with MS were selected by an independent neurologist who determined the EDSS score and duration of the disease. After, patients were evaluated by the assessment set by two independent physiotherapists. The assessment set of clinical features incluedes Low-Contrast Letter Acuity Test which tests contrast vision, Nine Hole Peg Test investiges fine motor skills, Timed 25 - Foot Walk evaluates walking speed over a distance of 7,5 m, Paced Auditory Serial Addition assesses cognitive function, Motricity Index tests muscle strength, Modified Ashworth Scale spasticity, Berg balance Scale equilibrium. Furthemore, the tests for evaluation of righting, equilibrium and protective reactions, the test evaluating knee hyperextension, the examination of dysdiadochokinesia and ataxia.

Results: High interrater reliability was confirmed in all tests in the examinig set (ICC: 0,80 - 1), except for MAS reaching the mid-range interarter reliability (ICC: 0,44). In the Bland-Altman graphs, measurements differ substantially and meet the condition of the 95% confidence interval.

Keywords: multiple sclerosis, interrater reliability, clinical tests, psychometric properties