Abstract

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Title: Comparative analysis of the effect on disease-modifying drugs and biological therapy in functional ability in patients with rheumatoid arthritis.

Objective: The aim of the thesis is to compare the effect of disease-modifying drugs and biological therapy on quality of life using the disability index, which is achieved by evaluating the HAQ, grip strength the small muscles of the hand, which is tested a hand dynamometer and standing stability, which is detected by measuring on stabilometric platform.

Methods: This is a pilot study using subjective and objective examination. Stabilometric and dynamometric examination and the Czech version of the Stanford Health Assessment Questionnaire validated by Rheumatology Institute in Prague 2010 were used to the analysis. Evaluation of the collected data was done using two-way analysis of variance with repetition.

Results: Biological therapy and disease-modifying antirheumatic drugs have significant impact on quality of life, the strength of the small muscles of the hand and standing stability in patients with rheumatoid arthritis. Disease-modifying antirheumatic drugs have reached significant results than the biological therapy in quality of life, forces the small muscles of the right hand and standing stability. Biological therapy have had a significant effect only in assessing the strength of the small muscles of the left hand.

Keywords: rheumatoid arthritis, biological therapy, dynamometry, stabilometry