

Abstract

Title of the work :

Boutonniere thumb deformity and its influence on hand grasp function of „Rheumatic hand“

Aims of the work:

The main aim of this work is to create a material, which will contain the complex description of the healing problems and therapy of rheumatic hand with the main intention on Boutonniere thumb deformity. The main goal was to measure and evaluate hand grasp functions at the beginning of a complex therapy, where all the measurements were strictly repeated in set time intervals after 6 weeks, 3 months, 6 months, 9 months and 12 months. There were 12 participants, who took part, 7 men and 5 women with the diagnosis of rheumatoid arthritis with the appearance of Boutonniere thumb deformity. The main aspiration was to objectively and statistically evaluate the complex approach of the healing process of rheumatic hand under the presence of Boutonniere thumb deformity and its influence on hand grasp function. I expected, that a comprehensive approach in healing therapy methods of rheumatic hands will show positive results in grasp functions improvement of rheumatic hands. This work should be on such a specialized level, that it could be used by physiotherapists who are interested in this problem.

Methods:

This work is divided into two parts, where the first one is a literature and background research and the second one concentrates on experimental research of the 12 participants.

First step was to get to know about the set problem, its background and literature research and its theoretical problem specification. It was also necessary to get involved into the methods of needed data acquisition. Afterwards it was followed by creation of research sheets of papers and tables. According to the discussions with the dissertation work leader the next step was to collect data needed to be evaluated and

used in my work. This was done in the form of many measurements and testing of individually hand functions. All the results were than written down into the sheets of research paper and tables. Each of the acquired data were statistically evaluated and presented in the form of graph. A discussion where everything, each result of its own was evaluated and set followed at the end of the experimental research.

Results:

There was created a complex discoursed material combining information from many medicinal areas dealing with the diagnostic and healing therapies of rheumatic hand with the main intention on Boutonnier thumb deformity. A component part of this material is a experimenatal research in which 12 participants have taken part and with the same diagnose of Boutonnier thumb deformity. It is objective demonstrated the necessity of multidisciplinary approach to the Boutonnier thumb deformity therapy and its positive influence on hand grasp functions.

Key words:

rheumatoid arthritis, rheumatic hand, multidisciplinary approach, Boutonnier thumb deformity