

ABSTRACT

Title: Functional Hand and Wrist Examination of Spinal Cord Injury People with Tetraplegia

Abstract: This work deals with the functional hand and wrist examination of spinal cord injury people with tetraplegia. The examination focuses mainly on the areas of evaluation that are important for the occupational therapist.

The theoretical part summarizes the basic knowledge of spinal lesion and spinal problems. Furthermore, a description of hand and wrist and their anatomy and function is provided in this part. Last but not least, the theoretical part mentions the importance of evaluation in occupational therapy and individual functional tests that examine the hand and wrist in persons after spinal cord injury.

The purpose of the practical part is to perform a functional examination of the hand and wrist in persons after the damage of the spinal cord with tetraplegia with a help of an appropriately created evaluation instrument and then test this instrument in practice. The aim is to answer the elemental question: "To what extent is the proposed functional examination of the hand and wrist in people after the injury to the spinal cord with tetraplegia useful in practice?"

The result is a designed assessment tool that investigates the function of the hand and wrist in people after spinal cord injury with tetraplegia. The results show that the proposed instrument can be easily applied to this issue in practice and can help with a functional hand and wrist examination.

Key words: spinal cord injury, hand, wrist, functional examination, occupational therapy