

## **Abstract**

**Title:** Objectification of surgical treatment of carpal tunnel syndrome

**Objectives:** The main aim of this work is to evaluate the effectiveness of surgical treatment of carpal tunnel syndrome.

**Methods:** In this work was used a two-point discrimination test, that evaluated tactile sensory of the hand with carpal tunnel syndrome. It evaluated the change of discriminatory sensation after surgical treatment of carpal tunnel syndrome. The results of testing were evaluated by using the SigmaPlot statistic program SigmaStat 9.01 to 3.1 integration.

**Results:** Research found that two-point discrimination in region of median nerve innervated is improved by surgical treatment of carpal tunnel syndrome, it improves the tactile sensory of the hand, which is impaired by carpal tunnel syndrome. Effect of physiotherapy on improvement of the discriminatory sensation after surgery was not demonstrated. However, the physiotherapy after surgical treatment of carpal tunnel syndrom is important.

**Keywords:** carpal tunnel syndrome, sensory discrimination, a two-point discrimination test