

## **Abstract**

**Title:** Evaluation of sensation in hands area in patients with multiple sclerosis

**Objective:** Summarize findings about multiple sclerosis and sensation in the hands area. Find suitable testing methods and use them to evaluate the quality of deep sensation in the hands area in patients with multiple sclerosis.

**Method:** With help of selected tests to evaluate the quality of deep sensation in the fingers and palms area in selected probands with multiple sclerosis. Compare the results depending on the current spasticity and condition of the patient.

**Results:** There were founded, that in people with multiple sclerosis the quality of vibrating and discriminating sensation and stereognosis in the hands area is reduced. The quality of stateesthesia, kinesthesia, vibrating and discriminating sensation isn't directly linearly dependent on the current spasticity. The quality of stereognosis is directly linearly dependent on the current spasticity.

**Keywords:** sensation, multiple sclerosis, spasticity