

## **Abstract**

**Title:** Ankle joint hypermobility in relation to the postural stability evaluated by the postural somatooscillography method

**Objectives:** The aim of this dissertation is to assess the influence of the local joint hypermobility on the postural stabilization measured by postural somatooscillography. It also compares the postural stabilization ability in case of local ankle joint hypermobility to the constitutional hypermobility on the lower limb including acrie.

**Methods:** This thesis has been composed by means of descriptive-associative method using the quantitative research comparing two groups of twelve subjects. The research part was evaluated under standard conditions using the monopedal postural provocation test "3 steps - standing on one leg" which was measured on the instable platform „Posturomed“. The test results were logged in application Microswing 6. The recorded data was exported and evaluated by „Posturomed Commander“ software.

**Results:** The research has not proved a significant statistical difference between the group with local ankle joint hypermobility and constitutional hypermobility. However, the group with local ankle joint hypermobility was found to have slightly worse results, primarily in the ability of long-term stabilization.

**Keywords:** postural stability, Posturomed, ankle joint, hypermobility