

Abstract

Title: The comparison of stereognosis and pallesthesia of the preferred and non-preferred upper extremity in students of physiotherapy

Objectives: To the objectives of the work belong the processing and compilation of information concerning laterality and sensation in the region of the upper extremities, then to evaluate the preference of the upper extremity by means of elected tests in 30 students of physiotherapy and to evaluate, whether the sensitivity of stereognosis and pallesthesia is higher in the region of the non-preferred upper extremity than in the region of the preferred upper extremity or whether the sensitivity of stereognosis and pallesthesia both of the upper extremities do not differ.

Methods: The tasks of the work were dealt with four tests directed to the examination of preference, stereognosis and pallesthesia in the region of upper extremities. The statistic analysis of the results of the examination was carried out by means of paired t-test.

Results: In the examination of pallesthesia in the region of processus styloideus radii and in the examination of stereognosis the null-hypothesis, that the sensitivity of pallesthesia / stereognosis examined by selected test in the region of preferred and non-preferred upper extremity in students of physiotherapy does not differ, was at the elected level of significancy confirmed. The alternative hypothesis was accepted at the elected level of significancy for pallesthesia in the region of proximal interphalangeal joint of the index finger, where the sensitivity of pallesthesia in students of physiotherapy is higher in the region of non-preferred upper extremity than in the region of preferred upper extremity.

Keywords: laterality, functional asymmetry, sensation