

Abstract

The bachelor's thesis focuses on the temporomandibular joint and its dysfunction, which has a negative impact on a person's physiological needs. TMD can apparently also affect postural control and thereby even more significantly reduce a person's quality of life. The work summarizes knowledge about the jaw joint, its anatomy, biomechanics, and its functional connection with the surrounding structures of the body. The work also contains a comprehensive description of temporomandibular dysfunction, its manifestations, treatment options, its effect on the cervical spine and possible effect on postural control. The main goal of the work was to develop a case report of one patient with temporomandibular dysfunction and then to provide therapy focused on the temporomandibular complex and to find out whether physiotherapy treatment of the jaw joint will induce the change in postural control parameters, vertical head position and subjective visual vertical perception. The obtained results showed an improvement in symptoms of temporomandibular dysfunction and changes in postural parameters after the therapy. Results on head position and subjective visual vertical perception did not show significant changes. In the discussion, the results from the measurement of the patient with temporomandibular dysfunction are compared with the results of a correlation group of healthy individuals with artificially induced temporomandibular dysfunction. However, this comparison did not show significant agreement.