

Background: Taping is widely used both as a preventive and stimulative means in sport and as a therapeutic agent for the treatment of musculoskeletal disorders apparatus. Effect of taping is not yet clearly understood, as well as a mechanism tape which affects muscles and their performance or fatigue. In the publications we learn about the effects and benefits taping, some publications agree on theories influence, but objectively it is not proven mechanism of its effects on the organism. **Objective:** The aim is to create an overview of theoretical knowledge concerning the topic taping, created on the basis of theoretical knowledge, hypothesis, and accordingly build clinical study. It examines whether a taping functional caliper legs influence the activity selected muscles of the lower leg.

Methods: In five subjects with no previous trauma in the ankle was compared course median frequency EMG signal at a constant isometric muscle contraction intensity by 30% MVC for two minutes to m. triceps surae and m. tibialis anterior-free conditions and applications tapu functional caliper legs. Median frequency conditions with taping applications were compared with the state without application of taping and to each other by statistical function T test.

Results: In the theoretical part has managed to create sufficient theoretical basis for Adoption of the issue, which was used to manage the measurement and interpretation its results. In a clinical study has not been confirmed by taping functional caliper legs delay the onset of muscle fatigue m. tibialis anterior and m. gastrocnemius, watch for frequency spectrum of the EMG signal, and in comparison with the same conditions without Applications tapu. T-test was negative in 50% of cases, and therefore a hypothesis relative the theoretical assumptions not clearly valid.

Key words: taping, muscle fatigue, electromyography, m. Triceps surae m. tibialis anterior