

title: Validation of the coding theory in TENS utilizing electrotherapy

Objective: Confirmation of the existence of coding theory in electrotherapy to relieve pain elektroanalgetickými current type TENS (transcutaneous electrical neurostimulation).

Method: The thesis is elaborated on the basis of the pilot study, which is based to investigate the usability of TENS currents in pain. The experiment is conducted in ten patients (men and women aged 20-30 years) with chronic pain lumbar using assessment of pain using a visual analogue scale. The effect of the therapy is evaluated again using a visual analogue scale immediately after treatment and the following day before the treatment.

For

verify the effect of the therapy was repeated five times each day. Due to the low number

Patients research has pilot character and its results are statistically analyzed.

Results: As stated in theory (Nafe, 1934; Weddell, 1955; Sinclair, 1955), will be pain relief at least one level on a visual analogue scale, however, an absolute pain relief after one therapy does. In the context of the whole group during the five-day pain therapy reduced by 2 to 3 degrees, but not reduced during one current application, as indicated theory.

Keywords: pain - coding theory - TENS - visual scale analogue