

## **ABSTRACT**

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**Opponent of the thesis:**

**Name of the thesis:** Effect of electrical stimulation on soft tissue healing

**Abstract of the thesis:** This bachelor thesis summarizes the current state of knowledge regarding the effectiveness of electrical stimulation on soft tissue healing by providing an overview of the issue. The aim of the thesis is to describe the current level of research on the subject in terms of its completeness, current stage and limitations. Fifteen peer-reviewed, relevant articles were included and analyzed through a systematic search. Through analytical analysis and evaluation of the studies, it is determined whether and under what conditions electrical stimulation is effective for soft tissue healing. The articles presented include studies testing the effectiveness of electrical stimulation for healing structurally damaged muscle, tendon, skin and ligament. The work provides a largely positive conclusion regarding the healing effect of electrical stimulation.

**Key words:** electrical stimulation, healing, soft tissue, muscle, tendon, skin, connective tissue, ligament, regeneration, reparation, electrotherapy