

## ABSTRAKT BAKALÁŘSKÉ PRÁCE V AJ

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**Opponent:**

**Title of bachelor thesis:** Functional electrical stimulation of nervus peroneus of patients after stroke

**Abstract:** This bachelor thesis consists of a theoretical and a practical part. The theoretical part is mainly focused on the option of managing foot drop with the use of functional electrical stimulation. It provides background research of available thematical literature, information about current options of using funtional electrical stimulation and information of its combination with other types of therapy. It also provides results of research studies that have been realized and describes effects of functional electrical stimulation on different aspects of gait and function of the lower limb. Described effects are both of orthotic (immediate) and therapeutic (long-term) character. Goal of the practical part was to compare gait of one patient after stroke with no compensational device and with functional electrical stimulator and to sum-up the orthothic effect of electrostimulator. It was anticipated that both quantity and quality of gait would be improved, but there was no noted improvement in quantity.

**Key words:** Functional electrical stimulation, foot drop, nervus peroneus, stroke, ankle-foot orthosis