

This bachelor thesis consists of a theoretical and a practical part. The theoretical part provides a brief introduction into problematics of disability of stroke patients and mainly focuses on gait impairment, specifically on foot drop syndrome that affects about 20% of all stroke patients. Following section contains characterization of functional electrical stimulation and its application to the peroneal nerve, which is used in therapy of foot drop. The theoretical part is then concluded by neat description of two peroneal stimulators that are currently available in Czech Republic, systems WalkAide® and NESS L300®. The practical part includes therapy records of two stroke patients, in which both mentioned devices were used, and filled questionnaires that were directed to representatives of distributor companies. These documets focus on financial problematics of systems in question. The outcome of the practical part is a comprehensive overview that summarizes the use of both stimulators in therapy of foot drop and their accessibility for patients in Czech Republic. All gathered facts about WalkAide® and NESS L300® are then systematically compared and evaluated from the perspective of a therapist and a patient.