

Diploma thesis „Effect of gait school with prosthesis on stability and walking parameters of patients after transfemoral amputation deals with problems of patients after transfemoral amputation due to vascular etiology. It mentions elementary knowledge of rehabilitation after amputation of lower extremity. Furthermore, there are described main complications that amputation brings into the patient's life: pain associated with amputation, skin complications and psychological hardships. Emphasis is laid on gait and gait practice for patients with amputation. I further deal with deviations commonly observed on gait of these patients and with factors influencing the gait, including the influence of particular parts of the prosthesis on patients' gait. The practical part is dedicated to comparison of two different approaches to gait practice. The effect of these approaches is evaluated on the basis of results of two groups of patients. The results were gathered by examination on force plate, measurement of gait velocity, examination of gait cadence and evaluation of patients' gait videos. Furthermore, I use functional tests: LCI – 5, ABIS – R, ABC scale and PEQ. All of these examinations were performed at the beginning and in the end of patients' stay at the Clinic of rehabilitation in Hradec Králové. The patients' stay was three weeks long.