

## **Abstract**

### Current diagnostic methods in patients after brain damage in physiotherapy

This bachelor thesis is focused on an application of current diagnostic methods to patients after brain damage in physiotherapy.

This thesis includes topic of damage brain problems, mainly traumatic brain injury, brain cancer and stroke, which is often met in physiotherapy. Second part of bachelor thesis involves topic of motor-skill control, which is analysed mainly of neurological point of view. It involves spinal motor control, subcortical and cortical motor control. One section of second part was devoted to problems of stand and gait. The theoretical part was concluded with the description of functionality and usage of Screening test of mobility, which was used for testing of patients after the brain damage. The last chapter of the theoretical part is about evaluating by the International classification of functioning, disability and health using the results of the STM.

In the practical part the casuistry of examined patients can be found, the Screening test of mobility and the International classification of functioning, disability and health was used for results investigation. In conclusion I mention STM and subsequent evaluation of its usability in practice for the functional evaluation of stand and gait, as well as its potential use as a basis for evaluation according to ICF.