

## **Abstract**

The bachelor's thesis „Selected methods of therapeutic rehabilitation in spinal muscular atrophy – a research paper” deals with the issue of a progressive neurodegenerative disorder in spinal muscular atrophy (SMA) with the focus on therapeutic rehabilitation. Due to the lack of causal treatment in the present time, therapeutic rehabilitation holds a crucial position. The main part of the thesis consists of a brief overview of the existing knowledge of the SMA disorder, the principles of prevention and therapy of the most frequent musculoskeletal difficulties of patients, as well as an overview of selected methods of therapeutic rehabilitation, appropriate in this disorder. The most frequent musculoskeletal difficulties of the SMA patients include: development of scoliosis, contractures and luxation of hip joint. In the overview of methods and concepts appropriate in patients with SMA, selected methods and concepts based predominantly on neurophysiologic principle and options for respiratory rehabilitation were listed. The thesis is supplemented with the casuistry of a patient with the third type of SMA.