

## **ABSTRACT**

This study aims to evaluate the importance of proper back support for patients with spinal damage after long-term sitting in a mechanical wheelchair. The subject of this thesis was to analyze Czech and foreign literature and offer the most accurate and still missing information when selecting and compiling the selection of mechanical wheelchair seating unit. The thesis describes the differences between right and wrong sitting posture of mechanical wheelchair users. It analyzes the available information on the possibility of objective assessment, as well as trying to justify the importance of the support of the trunk on the resulting stability and functionality during activities of daily living. It refers to the most common secondary changes and their chaining caused by poor sitting posture. A subjective evaluation of the comfort of users sitting in mechanical wheelchairs in the form of a questionnaire was chosen to assess the urgency of the theme. The research carried out confirmed the hypotheses of clinical practice, which are included in the work. Based on the collected information, this work may allow occupational therapists, physiotherapists and doctors to more easily determine in a broader context whether an indication of the fixed backrest is appropriate and desirable (required) when dealing with the sitting posture.

## **KEYWORDS**

transversal spinal lesion, fixed backrest, posture, mechanical wheelchair