

Abstract

Title: Quality of Life of People with Idiopathic Scoliosis after Surgical Treatment in the Czech Republic

Objectives: The aim of the research part of the thesis was to evaluate the quality of life of individuals after surgery for idiopathic scoliosis in the Czech Republic on the basis of a questionnaire survey. Within the framework of the research, individuals with IS who had undergone surgical treatment of IS were contacted, but at the same time individuals with IS who had not undergone scoliosis surgery were contacted.

Methods: The study population included individuals diagnosed with idiopathic scoliosis in the age range of 18–60 years. Another criterion for inclusion in the study was a minimum of two years after IS surgery. Two questionnaires were used to assess quality of life in these two groups of scoliotic patients with treatment different undergone: the Short Form 36 and the Scoliosis Research Society 22, which were distributed to individuals with IS for approximately eight months. Analysis of the obtained data and statistical evaluation of the results was performed using MS Excel software. Graphical representation of the results was performed using the Matplotlib library in the Python programming language.

Results: According to the results of the SRS-22r questionnaire, operated individuals score statistically significantly higher on the dimensions „Self-image“ and „Satisfaction with treatment“ than non-operated individuals with a scoliotic curve greater than 40 ° according to Cobb. In the SF-36 questionnaire, we observe a statistically significant difference in the dimensions „Body pain“ and „General health“. For these two dimensions, the operated group again scores higher on their QoL compared to the other treatment group. At the same time, individuals who have undergone IS surgery also score statistically significantly higher on „Physical Component Summary“ and the standalone question "Health change" in the SF-36 questionnaire significantly better.

Keywords: idiopathic scoliosis, rehabilitation, surgery, surgical treatment, quality of life, SF-36, SRS-22r