

## Abstract

Title: Analysis of plantar pressures distribution at patients after microdiscectomy L5/S1

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Objective: The topic of the thesis is to analyze distribution of plantar pressure at „broken“ and „healthy“ foot. The work is based on comparison of plantar pressure distribution on „broken and healthy“ footprint in static position before and after intensive daily rehabilitation.

Method of solution: Twelve 40-65 years-old individuals were chosen for the study. They were treated for L5/S1 microdiscectomy and rehabilitated daily at Rehabilitation clinic Malvazinky in Prague. This group of individuals was examined in two ways; by a physiotherapist, who analysed their state of health using kinesiology analysis, and by Plantograph V07, which is used for examination of state of pressure between sole of foot and miniature pressure sensors shaped in a grid. Three weeks of rehabilitation was ended by the same ways of examination used at the beginning of therapy. The results were processed and compared by a computer.

Key words: back pain, radicular syndrome, microdiscectomy, radicular pain, analysis of plantar pressures, plantograph