

## **Abstract**

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**Title:** Case Study of Physiotherapy Treatment of a Patient after Unicondylar Endoprosthesis Implantation of the Right Knee Joint.

**Objectives:** The objective of this bachelor thesis is to perform a case study of a physiotherapeutic care of the patient after implantation of unicondylar endoprosthesis of the right knee joint, to guide and record individual therapies and to evaluate their impacts.

**Methods:** The bachelor thesis encompasses of general (theoretical) and special (practical) parts. The general part outlines theoretical information about anatomy of the knee joint, unicondylar replacement and degeneration disease gonarthrosis that preceded the implantation of joint replacement. The special part describes the performed case study of the patient including the initial examination, the subsequent individual therapies and the exit examination. The important part of the practical study is the assessment of the effects of the whole therapy amid the hospitalization of the patient in the medical center Vršovická zdravotní a.s.

**Results:** The results generally showed that the progress of all applied therapies lagged in a comparison with other patients with the same type of implantation. The possible explanation of such results might be the set of various factors such as patient's age, degree of obesity, lifestyle and stage of gonarthrosis. However, the patient improved in ranges to flexion (FLX) and extension (EXT) in the operated knee joint, reduced swelling, and improved scar condition. Another positive effect is the patient's gait and overall fitness.

**Keywords:** knee joint, unicondylar endoprosthesis, gonarthrosis, physiotherapy