

## **Abstract**

**Title:** Case study of physiotherapy treatment of a patient diagnosed with femoral neck fracture treated with DHS.

**Objectives:** The aim of this thesis is a summary of theoretical knowledge of femoral neck fractures and a case study of physiotherapy treatment of a patient, who suffered this fracture and underwent an osteosynthesis with DHS.

**Methods:** This thesis is divided into two parts. The first, general part is based on the research of professional literature. It describes the anatomy and kinesiology of hip joint, trauma of the proximal femur area, especially femoral neck fractures, options of their treatment and recommended physiotherapy approaches and methods. The second, specialized part covers the case study of physiotherapy treatment of a patient diagnosed with femoral neck fracture, which was treated with DHS osteosynthesis. The case study includes the physiotherapy assessment of the patient before and after the treatment, process of the physiotherapy treatment and evaluation of the treatment effect based on the assessments.

**Results:** The result of the physiotherapy treatment was general improvement of patient's condition. The most apparent changes were muscle strength improvement, range of motion improvement, better condition of soft tissues, better gait skills and regained independence of the patient.

**Key words:** case study, femoral neck fracture, osteosynthesis, DHS, dynamic hip screw, physiotherapy, rehabilitation