

## **Abstract**

**Title:** The case study of a physiotherapeutic treatment of a patient with stroke and total hip arthroplasty.

**Aim:** The aim of this thesis is to analysis a theoretical knowledge about stroke and total hip arthroplasty and elaboration of physiotherapy treatment schedule in the form of an patient with these two diagnosis case study.

**Methods:** This bachelor thesis elaborate stroke and total hip arthroplasty for femoral neck fracture. The thesis is divided into two parts – general and special. I deal with patient’s diagnosis in general part of thesis. I describe etiopatogenesis of stroke, ischemia in carotid artery in detail and I deal with chronic stroke rehabilitation. Further I elaborate anatomy and kinesiology of hip joint, femoral neck fracture and its treatment. In the end I combine these two diagnosis because femoral neck fracture is common complication of a stroke.

Special part include case study of a patient with ischemic stroke and total hip arthroplasty. The physiotherapy treatment is described here in detail, also input and output kinesiology analysis, short - term and long - term therapy plan and evaluation of therapy effect are here. The case study was processed during my internship in the Military University Hospital in Prague at the Department of Physical Medicine and Rehabilitation in the period from 11th of January to 5th of February 2016.

**Results:** We managed to reach some of the aims. The patient’s conditions has changed during the treatment. The patient developed better joint movement and improved ADL especially walking.

**Key words:** stroke, ischemic stroke, hip joint, femoral neck fracture, total hip arthroplasty, physiotherapy, case study