

Abstract

Title: A case study of physiotherapeutic treatment of a patient with a diagnosis of unilateral above-knee amputation.

Objectives: The goal of the study is to summarize the theoretical information and findings about the problematics of amputation, with a focus on above-knee amputation, and further elaboration on a case study concerning a patient with a diagnosis of unilateral above-knee amputation.

Methods: The bachelor thesis consists of two parts. The theoretical part summarizes knowledge from academic literature about lower limb amputation caused by the peripheral vascular diseases, and a further elaboration on lower limb prosthetics and the rehabilitation care for patients before and after amputation. The practical part consists of a case study about a patient with a diagnosis of unilateral above-knee amputation. It includes medical history, initial kinesiological analysis, therapeutic plan, description of therapeutic units, closing kinesiological analysis and evaluation of the effects of the prescribed therapy. The case study was conducted during a professional physiotherapy practice in Nemocnice Brandýs nad Labem, from 19. 1. 2021 to 1. 2. 2021.

Results: Throughout the therapy treatment, some of the patient's problems have significantly improved; there was a decrease in the flexion-abduction position of the residual limb, increase in the range of motion of the shoulder and hip joints, muscles gains of the upper and lower limbs, improvement of the postural stability, improvement of the breathing stereotype, improvement of the walking stereotype and lastly an increase in self-sufficiency in regards to body movement. The scar tissue was however left unchanged and it was not possible to remodel the distal part of the residual limb.

Keywords: amputation, peripheral vascular disease of lower extremities, prosthetics, physiotherapy