

Abstract

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Title: Case study of physiotherapeutic treatment of a patient after bilateral lower limb amputation

Objective: The aim of the theoretical part of this thesis is to describe the topic of lower limb amputation, including its pathokinesiological effects on gait, the possibilities of using various types of prosthetic knee joints, and an overview of physiotherapeutic and other rehabilitation care following lower limb amputation. The aim of the special (practical) part is to develop a case study of physiotherapeutic care of a patient after bilateral transfemoral amputation, including an evaluation of the therapeutic outcomes.

Methods: The theoretical section was compiled through a literature review of academic sources and professional scientific articles in both English and Czech. In the special section, both theoretical and practical knowledge and skills were applied, corresponding in scope to the requirements of a bachelor's degree in physiotherapy. The case study was developed within the framework of practical training at the Malvazinky Rehabilitation Clinic.

Results: The theoretical section covered the issue of lower limb amputation including all the mentioned subsections. The practical section presented a case study including therapy evaluation. The most significant improvement was observed in the patient's gait with prostheses, particularly in terms of increased walking distance and improved gait mechanics. Further short-term goals also showed noticeable improvements.

Conclusion: The selected physiotherapy procedures and methods led to an improvement in the patient's physical condition.

Keywords: amputation; bilateral amputation; transfemoral amputation; case study; physiotherapy