

Abstract

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Title: Case Study of Physiotherapy Treatment of a Patient after Transfemoral Amputation

Objectives: The work aims to summarize the theoretical knowledge of amputation issues and their therapeutical solutions, to utilize, document and evaluate these within the case study of physiotherapeutic care for a patient after unilateral transfemoral amputation.

Methods: This study comprises two parts. The first part provides a theoretical overview of amputation issues and their therapeutic solutions, focusing on postoperative care within physiotherapy and prosthetics. The second part presents a case study of a 3-week physiotherapeutic intervention for a patient after right-sided transfemoral amputation, including postoperative complications (MRSA, Covid 19). The case study took place approximately 5 months after the amputation and includes the patient's history, initial examination, rehabilitation plan, 13 therapeutic sessions, final evaluation, and the therapy evaluation.

Results: The most significant results of the physiotherapeutic intervention were desensitization and coning of the stump, its alignment; increase in range of motion and strength of both hip joints, particularly into extension; qualitative and quantitative improvements in standing and walking without the prosthesis with the support of parallel bars and crutches, during which the patient subjectively feels greater confidence.

Conclusion: The study shows how targeted physiotherapy improves mobility after amputation, suggesting an improvement of quality of life. The study also highlights the issues of amputations and long-term hospitalizations. It also shows the inconsistency among authors in evaluating individual therapeutic approaches and the lack of relevant studies and specialized therapeutic standards for specific situations or patients. Therefore, further work should focus on mapping approaches for specific comorbidities.

Keywords: femoral, transfemoral, phantom pain, PAD, ICHDK, dysvascular, amputation stump, therapy