

Abstract

Title: Case study of orthotic - prosthetic care for a patient with a diagnosis of transfemoral amputation

Aims: The aim of this paper is a case study of a patient with a diagnosis of transfemoral amputation. The main objective is to prepare a comprehensive overview related to the issue of lower limb amputations and, based on the examination and clinical interviews, to produce a device that best suits the patient's needs. The process of prosthetic care from the examination of the patient to the fitting of the new prosthesis is described.

Methods: This thesis has theoretical and practical part. In the theoretical part, professional framework of the problem is presented based on a literature research and my experience in practice. It focuses on the anatomy and function of the lower limb, gait cycle, amputation procedure and prosthetic care of the stump. Also, it provides an overview of prosthetic components that could be chosen when indicating a femoral prosthesis. In the practical part, the course of four patient visits is described, from the collection of the measurement materials, through the manufacturing of the stump socket, testing and adjustments, to the handover of the device. The practical part is documented verbally and photographically as it took place during my professional practice.

Results: The case study was prepared within the framework of professional practice in the non-governmental medical facility Orthopedic Prosthetics Josef Nehonský. Here I got acquainted with the course of prosthetic care and prosthetic components in general, but also with the case of patient Mr. K. R. A new femoral prosthesis was designed and manufactured for him, which meets requirements for his comfort and way of life, while trying to eliminate some abnormal stereotypes of the gait cycle that may cause back pain.

Key words: orthotics prosthetics, transfemoral prosthesis, prosthetic components