

Abstract

Thesis title: Possibilities of prosthetic treatment for skiers with exarticulation of the knee especially for cross-country skiing

Main objectives: I tried to find out the prosthetic possibilities for the people who have the exarticulation in the knee joint and compare the differences between healthy and amputated person.

Goals:

1. Try to find out the possibilities for the cross country skiing to people who are having an exarticulation in the knee joint.
2. Watch the cross-country skier with the exarticulation in the knee joint during the activity and find out the differences with healthy person.
3. Devise a solution how to eliminated the shortcomings and try to minimize these differences.

Methods: This thesis is one case study. I used qualitative research methods to write this thesis. I was collecting data to get more information during observation of my experimetees doing recreational sports activities. Then I compared this information with knowledge obtained in the professional literature about cross-country skiing, healthy and amputated cross-country skiers.

Results: In this thesis I found out that there is an available prothesis in the Czech Republic which allows the people with exarticulation in the knee joint to cross-country skiing. However there are any limitations in movement that a healthy people do not have.

Key words: femoral amputation, the prothesis, C-leg, cross-country skiing with a prothesis, cross-country skiing after amputation