

ABSTRACT

- Title:** Analysis of the functionality of the current transtibial prostheses
- Objectives:** The aim of the thesis is to describe a history of the development of prosthetics from its inception to the present and describe the basic structure and distribution of lower limb prostheses. The thesis will also include analysis of functionality existing transtibial prostheses. To determine the required documents and clarify key issues: " whether transtibial prostheses are now able to fully replace the patient lost limbs" will be used poll/questionnaire .
- Methods:** In the theoretical part, I used the literature search. I have analyzed the accumulated data from professional publications and books. In the empirical section, I did a quantitative research to determine whether transtibial prosthesis fully replace missing to the handicapped persons.
- Results:** I think that the current prosthetics will replace to patients the functionality of the real limbs.
- Keywords:** prostheses , leg prosthesis, femoral prosthesis , exartikulation in the knee, the development of prosthetic devices, amputation , foot, stump, construction , transtibial prosthesis