

The thesis is focused on the measurement of the energy consumption during the locomotion of the mobility disabled (riding a wheelchair a walking with 2 point support – crutch).

The probands were handicapped by partial amputation of lower limb based on the vascular cause which represents approximately 90 percent of all amputations done in the Czech Republic. The thesis also presents a brief classification of amputations according to the extent of the separation, the history of amputations and the main etiologic factors leading to amputation. In the result section the measured data are discussed. In the last part of the thesis, the conclusions are discussed and compared to information available from similar studies.