

Joint Event

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### Application of functional load procedures in the deadly disabled elderly persons for evaluation of indicators of the cardiovascular system at the steps of prosthetics

The problem of prosthetics of elderly patients (EP) has worsened due to the growing number of disabled people in the Russian Federation (RF), the aging of the population. Annually in RF, about 10, 000 surgical interventions are performed in the case of lesions of the arteries of the lower extremities. The number of EP who needs prosthetic supplies has increased. To individualize the selection of technical means of rehabilitation (TMR), at the stages of learning to walk and use prostheses, it is necessary to conduct optimal functional tests (FT). The study aims, selection of the optimal FT with load in EP who underwent amputation at the level of the shin and thigh. We examined 54 patients who underwent at the level of the lower leg and thigh. Studies were carried out with modeling of the load using manual bicycle ergometry. A universal variant of the loading test is developed, the most informative for assessing the physical state of EP, identifying potentially dangerous rhythm disturbances and painless myocardial ischemia. All samples were monitored by electrocardiography, pulse oximetry. Severe circulatory failure (CF) was detected in seven patients (12.9%), persistent moderate in 35 patients (64.8%), and insignificant in 12 patients (22.3%). Patients with severe CF prosthetics were not performed, due to low FT and a high risk of complications in the stages of prosthetics. Patients with mild CF after choosing conservative treatment were successfully prosthetized. In the remaining 12 patients the results of FT with exercise helped to start prosthetics in the early period. The use of functional stress tests in disabled patients for assessment of the cardiovascular system at the stages of prosthetics, as well as adaptation to new living conditions, allows individualizing the selection of TMR, eliminating the risks of complications at the stages of prosthetics, and shortening the terms of rehabilitation.

#### Biography

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