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Home > Vol 36, No 4 (2006) > Janura

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## The variability assessment of the dynamic gait parameters of persons with unilateral trans-tibial amputation

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### Abstract

Human gait is a genetically fixed motion model. The use of prosthesis changes the structure of the gait, the distribution of energy increases. The aim of this study was to compare the intra and inter individual variability of the basic dynamic gait parameters of physically active persons with unilateral trans-tibial amputation. A group of 11 males (age  $46.1 \pm 12.0$  years, body weight  $82.5 \pm 13.9$  kg) with unilateral trans-tibial amputation was analysed. The basic dynamic parameters (AMTI) of the gait of each subject with conventional and dynamic prosthetic foot were measured. The interindividual variability in the group of the evaluated person is higher in comparison with the intraindividual variability. The sizes of the coefficients of reliability are exceeded for measured parameters (time, force, force impulse) in anteroposterior and in vertical direction the value 0.976. The extent of these values depends on the individual properties of evaluated person (for example the instability of the knee etc.).

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TABLE OF CONTENTS

### Reading Tools

#### The variability a...

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About the author  
How to cite item  
Indexing metadata  
Print version  
Notify colleague\*  
Finding References

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