

The target of the work was to evaluate influence of gait parameters changes on energy expenditure. I evaluated influence of cadence on energy expenditure during floor and treadmill walking. The effect of different cadence from preferable one was significant during floor walking in all cases. During treadmill walking the difference between energy expenditure was indicated only during walking with higher cadence from comfortable one. There were not significant differences by lowering cadence in comparison with comfortable walking. When comparison between floor and treadmill walking was carried out, the significant difference was only during walking with slower cadence. In other cases the difference was not significant.