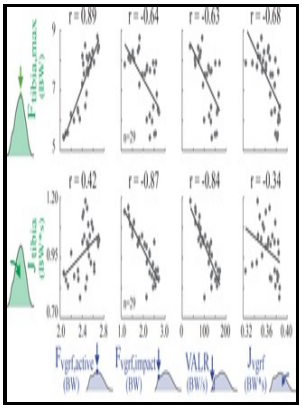
Variability of selected ground reaction force parameters during running.

Microform Publications,College of Human Development and Performance, University ofOregon - Reliability of selected ground reaction force parameters during walking



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-Variability of selected ground reaction force parameters during running.
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Reliability of selected ground reaction force parameters during walking

The 20 trial and 0. Conclusion Several successive jumping cycles are necessary to achieve stability of GRF pulses during continuous countermovement jumping.

Number of trials necessary to achieve performance stability of selected ground reaction force variables during landing.

DUFEK Employment Visiting Research Associate Professor in the Department of Kinesiology in the School of Allied Health Sciences at the University of Nevada, Las Vegas. RFD was calculated as the slope of the line of a jumping pulse from the initial contact i. First, the landing task 0.

Time and frequency domain analysis of ground reaction forces during walking: an investigation of variability and symmetry

These values differ substantially from each other and the decision to follow one recommendation over the other could have important implications relative to the time and financial investment in an experiment. Then, the SAT was utilized to make possible a comparison with previous research on the stability of the joint kinetic variables due to jumping Rodano and Squardone , as well as with similar reports on stability of the selected GRF variables due to running Bates et al.

Reliability of selected ground reaction force parameters during walking

Introduction Stability of a performance variable refers to the repeatability of that variable across repeated trials observed performances over time and can be evaluated using test-retest reliability methods Portney and Watkins, 2000. Other investigators have used a variety of methods for examining the reliability, stability, and variability of gait variables both within and between days Belli et al. This information is important for both experimental measurements and analytical studies of GRF signals due to continuous, repetitive countermovement jumping.

Reliability of selected ground reaction force parameters during walking

Research Quarterly for Exercise and Sport 77, 1-13.

Effects of arch height of the foot on ground reaction forces in running

Greater movement variability results in less stable data and a greater likelihood of sampling an atypical performance from the population of all possible performances. This made some of the GRF variables typically peak force amplitudes and their positions very hard to define in the consistent manner for successive pulses, so the stability analyses used in this paper are ineffective for such force data.

Number of Successive Cycles Necessary to Achieve Stability of Selected Ground Reaction Force Variables During Continuous Jumping

Ground reaction forces are often used as a primary descriptive component in the analysis of the support phase of running. Seven vertical GRF variables period of jumping cycle, duration of contact phase, peak force amplitude and its timing, average rate of force development, average rate of force relaxation and impulse were extracted on the cycle-by-cycle basis from vertical jumping force time histories generated by twelve participants who were jumping in response to regular electronic metronome beats in the range 2-2. However, a limitation of their method was that many criteria used to establish stability across multiple steps of data also were selected arbitrarily.

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