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Current issue	» Journal Abstract
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Volume 27, 2010 Volume 26, 2009 Volume 25, 2008 Volume 24, 2007 Volume 23, 2006 Volume 22, 2005 Volume 21, 2004 Volume 20, 2003	Differences in morphological and biodynamic characteristics in maximum speed and acceleration between two groups of female sprinters M Čoh, K Tomažin, N Rausavljević <u>Biol Sport</u> 2007; 24 (2): ICID: 890639 Article type: Original article IC [™] Value: 9.36
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Newsletter	The purpose of the study was to identify those morphological characteristics and
Authors Pathway	m sprint results. Morphological characteristics were established with a set of 21 variable
Information for Authors	measured with the International Biological Programme (IBP) procedure. Biodynamic parameters of sprint running were identified on the basis of the start acceleration test and the maximum speed test. The criterion for start acceleration was a 30-m run from the sprint start and the criterion for maximum speed was a 30-m run from a flying start. In these two tests measurements were carried out using the Opto–Track system. Statistically significant differences between the two groups of female sprinters were established by the t-test for independent sample. The results of the study showed that the athletes did not differ in terms of morphological characteristics, with the exception of leg length (p<0.05). The differences between the athletes were statistically significant in the start acceleration speed and the maximum speed (p<0.01). In both tests, the most important generator that differentiated between the superior and the inferior sprinters was the stride length (p<0.01). The contact phase time was on the edge of statistical significance only in the case of start acceleration. Superior sprinters develop higher starting speed (p<0.05), due to shorter average contact time, longer stride (p<0.05) and the same frequency compared to the inferior group. ICLD 890639 FULL TEXT 251 KB
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