## Biology of Sport

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	Upma Editorial Doord Editorial Stoff Loctructions for Authors
Archival Issues	
Archival issues           Volume 27, 2010           Volume 26, 2009           Volume 25, 2008           Volume 24, 2007           Volume 23, 2006           Volume 22, 2005           Volume 21, 2004           Volume 20, 2003	Laterality of the lower limbs and carving turns F Vaverka, S Vodickova <u>Biol Sport</u> 2010; 27 (2): ICID: 913080 Article type: Original article IC <sup>™</sup> Value: 9.38 Abstract provided by Publisher
Search	The aim of this study is to discover whether the lateral preference of the lower limbs
Newsletter Authors Pathway	influences the execution of successive carving turns or not. Six skilled skiers (men, right lower limb preference, age 26.5±1.61 years old, height 1.80±0.04 m, body weight 78.83±5.46 kg) executed 30 (18 left, 12 right) symmetrical carving turns. Kinetic
Information for Authors	analysis of the final vertical component of reaction force FZ(t) measured dynamometrically provided the information about the time of initiation and steering phases of the turn and the maximum force, average force and force impulse. Differences between right and left turns are not statistically significant. Factual analyses of the magnitude of measured variables confirmed that left turns were found to have a longer duration, a shorter initiation and longer steering phase, and higher level of produced force and force impulse in comparison with right turns. Based on the results it can be concluded that the turns where the outer leg is the preferred limb are preferentially used to regulate the speed of the ride. The study of laterality in symmetrical carving turns has proven that lateral preference of lower extremities influences the execution of the turn also by expert skiers.
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