## Biology of Sport

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## Editorial Board Editorial Staff Instructions for Authors **Current issue Journal Abstract Archival Issues** Assessment of the timing of respiration during rowing and its relationship to spinal kinematics Volume 27, 2010 AH Bateman, AH McGregor, AMJ Bull, PMM Cashman, RC Schroter Volume 26, 2009 Biol Sport 2006; 23 (4): Volume 25, 2008 Volume 24, 2007 ICID: 890800 Volume 23, 2006 Article type: Original article Volume 22, 2005 IC<sup>™</sup> Value: 9.29 Volume 21, 2004 Volume 20, 2003 Abstract provided by Publisher Search The purpose of this study was to investigate the use of a nasal thermistor to measure Newsletter respiration events at the nose and mouth, and to provide pilot data to allow experiments **Authors Pathway** to be developed that relate respiration to the mechanics of rowing. Synchronised measures of spinal kinematics, respiratory patterns and force applied were recorded for Information for Authors fourteen male rowers of different abilities while rowing on a Concept II ergometer. The start of inspiration and expiration were measured and related to points in the rowing stroke. Rowers with greater experience showed more consistent synchronisation of breathing with higher stroke ratings. A pattern of 2 breaths per stroke was adopted by the majority of rowers and could be related to spinal kinematics within the stroke. In 8 out of the 9 subjects who took two breaths per stroke, expiration began at 7-16% of the stroke followed by inspiration at 34-40%. A further breath occurred during the recovery phase of the stroke. The nasal thermistor technique can be used to measure the timing of respiration in relation to spinal kinematics during rowing. Entrainment is more consistent in more experienced rowers and is related to the kinematics of the body during rowing. ICID 890800 FULL TEXT 152 KB **Related articles** in IndexCopernicus<sup>™</sup> Electromagnetic device [0 related records] Nasal thermistor [0 related records]

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