



Use of Mechanical Variables to Prescribe Training and Evaluate Physical Fitness

Guest Editors:

Dr. Amador García Ramos

Department of Physical Education and Sport, Faculty of Sport Sciences, University of Granada, 18071 Granada, Spain

Dr. Jonathon Weakley

School of Behavioural and Health Sciences, Australian Catholic University, North Sydney, NSW, Australia

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Message from the Guest Editors

Mechanical variables are known to provide useful information to optimise training prescription and to refine the testing procedures intended to assess physical fitness. Due to advances in technology, researchers, coaches and health practitioners have now at their disposal affordable methods that allow the monitoring of important mechanical variables for guiding their training and testing procedures. For example, new training methods are being developed due to the possibility of assessing velocity during resistance training exercises or power output during continuous activities, such as running and cycling. Monitoring mechanical variables may be valuable to improve physical fitness and health in different populations from athletes to the elderly. The analysis of mechanical performance in acute studies may also help to better understand long-term adaptations in physical fitness.

The aim of this Special Issue is to provide new insights into how different mechanical variables (velocity, acceleration, etc.) can be used to optimise the training prescription and evaluate physical fitness.





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Message from the Editor-in-Chief

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MDPI, Grosspeteranlage 5
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