



CWSF 2011 - Toronto, Ontario



Demetrios Koziris, lakovos Vathis

Ischemic Preconditioning: Effect on Muscular Endurance

Challenge: Health
Category: Senior
Region: Montreal
City: Montreal, QC

School: Académie Royal West

Abstract: An experiment investigating how upper-limb ischemic preconditioning, a

technique used before surgery to reduce damage caused by restriction of blood supply (oxygen deficiency) to tissues, can improve muscular endurance and therefore have applications in sports performance

improvement; Ischemic preconditioning technique consisting of alternating vascular occlusion and reperfusion of upper limb. Results supported the hypothesis with a statistically significant increase of muscular endurance.

Biographies

Demetrios - Hello! My name is Demetrios Koziris. I'm 17 years old and currently attend Royal West Academy in Montreal. Being passionate about my heritage, I attend Aristotelis Greek School every Saturday and I'm a member of a traditional Greek folk dancing troup and AHEPA. I'm an avid reader (Orson Scott Card is my favourite author and I especially enjoy science fiction novels) and my hobbies include writing and drawing. I will be continuing my education in the sciences in cegep next year and am now taking physics, chemistry and pre-calculus courses in my final year of high school (grade 11). I plan to become an architect as I believe that would allo...

lakovos - Hello! My name is lakovos Vathis and I am currently attending my fifth and final year at royal west academy. I am looking to continue my studies in the science field, hoping to achieve my goal of becoming a sports physiologist. I am currently enrolled in the science program at my school, which is both challenging and engaging. Although I strive to achieve good marks in my studies, I enjoy physical activity such as hockey and down hill mountain biking. This was my first year participating in the expo-sciences and won multiple awards such as a gold medal at the Montreal Regional Science and Technology Fair. I am honoured to partake in the Pan-C...

Awards	Value
Statistical Society of Canada Award	\$1 000
Sponsor: Statistical Society of Canada	
Excellence Award - Senior - Gold Medal	\$1 500
Sponsor: Youth Science Canada	
Dalhousie University Faculty of Science Entrance Scholarship	\$5 000
Senior Gold Medallist - \$5000 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$4 000
Senior Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
University of Manitoba Entrance Scholarship	\$5 000
Senior Gold Medallist - \$5000 Entrance Scholarship	
Sponsor: University of Manitoba	
The University of Western Ontario Scholarship	\$4 000
Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: University of Western Ontario	
University of Ottawa Entrance Scholarship	\$4 000
Senior Gold Medallist - \$4,000 Entrance Scholarship	
Sponsor: University of Ottawa	
Total	\$24 500





