



CONTENTS

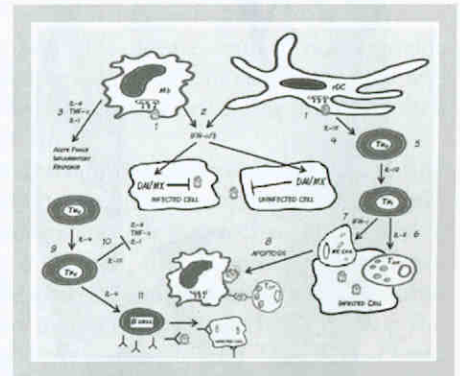
VOLUME 37 | NUMBER 4 | OCTOBER 2009

Commentary to Accompany

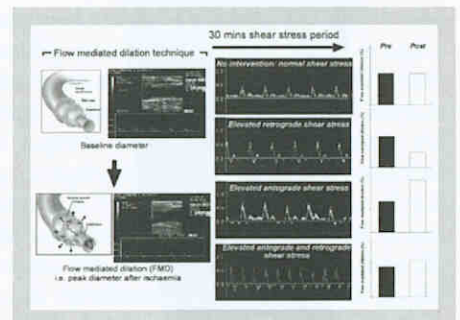
- 155 Moving Toward Solid Ground on Exercise and Immune Defense Against Viral Infection
Mary P. Miles
- 156 Exercise and Insulin — Understanding the Molecular Interactions
Mark Hargreaves

Articles

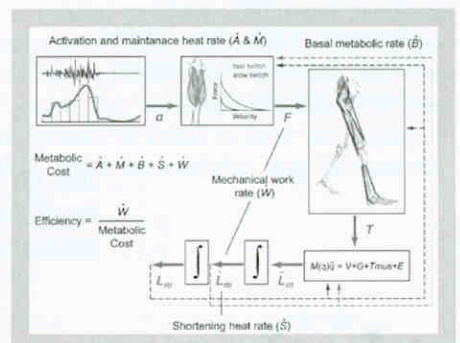
- 157 Exercise and Respiratory Tract Viral Infections
Stephen A. Martin, Brandt D. Pence, and Jeffrey A. Woods
Prolonged intense exercise causes immunosuppression, whereas moderate-intensity exercise improves immune function and potentially reduces risk and severity of respiratory viral infections.
- 165 Exercise Training as a Treatment for Chronic Inflammation in the Elderly
Barbara J. Nicklas and Tina E. Brinkley
This article evaluates current evidence supporting regular exercise as a novel treatment for chronic inflammation in the elderly.
- 171 Activity-Dependent Plasticity of Spinal Locomotion: Implications for Sensory Processing
V. Reggie Edgerton and Roland R. Roy
The mammalian spinal circuitry can control stepping without supraspinal input. Here, we describe how this spinal circuitry accomplishes this task.
- 179 Cross-Education of Strength Depends on Limb Dominance: Implications for Theory and Application
Jonathan P. Farthing
Cross-education of strength is greater after training the dominant limb, which suggests a connection between strength transfer and skill transfer.
- 188 Exercise and Insulin: Convergence or Divergence at AS160 and TBC1D1?
Gregory D. Cartee and Katsuhiko Funai
AS160 and TBC1D1, with overlapping and unique responses to insulin and exercise, seem to play distinct roles in glucose transport.
- 196 Exercise Training as Vascular Medicine: Direct Impacts on the Vasculature in Humans
Daniel J. Green
Direct effects of exercise training on the vessel wall may contribute to the antiatherogenic effects of exercise.
- 203 Forward Dynamics Simulations Provide Insight Into Muscle Mechanical Work During Human Locomotion
Richard R. Neptune, Craig P. McGowan, and Steven A. Kautz
Muscle-actuated forward dynamics simulations have the potential to provide much insight into muscle mechanical work and efficiency in human locomotion.
- 211 Using Waveform Analyses to Develop Pediatric Gait Indices
Victoria Chester
This article outlines the recent efforts to define pediatric gait patterns using waveform analysis techniques.



page 157



page 196



page 203

INDEX TO VOLUME 37

The index to Volume 37 can be found online at <http://www.acsm-essr.org/>