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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	Effects of training status and different treadmill exercises on the activity of complement receptor type 1 of erythrocytes Q Hu, M Chia, G Schmidt, S Moochhala <u>Biol Sport</u> 2008; 25 (4): ICID: 890264 Article type: Original article IC [™] Value: 9.57
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Newsletter	The aims of this study were to investigate the effects of training status, different intensities, durations and modes of exercises on the activity of complement receptor type 1 (CR1) of erythrocytes. Fifteen sedentary male adults and 15 male adult endurance athletes performed five separate treadmill exercise trials: test (T1), exercise at 40% for 30 min (T2), 80% for 30 min (T3) and for 60 min (T4) and downhill running (- 10% gradient) at 60% for 30 min (T5). Blood samples were taken before exercise, immediately, one h, two h and 24 h after each exercise trial to assay the activity of erythrocyte CR1. The results showed that there was no significant difference between trained and untrained participants in erythrocyte-tumor cell rosette (ETCR) formations at rest (p>0.05). ETCR was significantly decreased after five exercise trials (p<0.05). Changes in ETCR were more obvious after T1, T3 and T4. ETCR 24 h after T5 was significantly lower than that after uphill running. Greater reductions and slower recoveries in ETCR were found in the untrained group than in the trained group. The results indicated that erythrocyte CR1 activity at rest was not affected by training status, but was significantly inhibited by acute exercise. Exercise at higher intensities and longer durations resulted in a greater suppression in the activity of erythrocyte CR1. The suppression was more marked in the untrained participants than in the trained participants. Downhill running. ICI D 890264 FULL TEXT 269 KB Related articles
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