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Editorial Board Editorial Staff Instructions for Authors **Journal Abstract Current issue Archival Issues** Acute exercise induced oxidative stress is prevented in erythrocytes of male long distance athletes Volume 27, 2010 S Dane, S Taysi, M Gul, F Akcay, A Gunal Volume 26, 2009 Biol Sport 2008; 25 (2): Volume 25, 2008 Volume 24, 2007 ICID: 890326 Volume 23, 2006 Article type: Original article Volume 22, 2005 IC[™] Value: 9.57 Volume 21, 2004 Volume 20, 2003 Abstract provided by Publisher Search The aim of this study was to investigate the redox status in blood of long distance Newsletter running athletes if it is favourably affected, and help to prevent acute exercise-induced **Authors Pathway** oxidative stress. Nineteen sedentary males and 20 male long distance runners, volunteered to participate in this study. Acute exercise was applied as treadmill run, Information for Authors which was continued until the heart rate of the subject has reached 80-90% of the maximum and stopped after 5 min. Acute exercise increased the hematocrit percentage in sedentary males but not in male athletes. It decreased the number of erythrocytes and also Hb level in sedentary males, but not in male athletes when they were adjusted to the changes in hematocrit level. There was no difference in erythrocyte malondialdehyde levels between sedentary males and male athletes at rest. Acute treadmill run increased the erythrocyte malondialdehyde level in sedentary males, however, it did not affect it in male athletes. Erythrocyte glutathione peroxidase and superoxide dismutase activities were not affected by acute exercise in both groups. Our results show that erythrocytes in long distance male athletes are better protected against acute exercise-induced oxidative stress compared with the ones from sedentary counterparts. ICID 890326 FULL TEXT 131 KB **Related articles** in IndexCopernicus[™] antioxidant enzymes [21 related records] Malondialdehyde [137 related records] erythrocyte [10 related records] Exercise [953 related records] E Long distance runner [0 related records]

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