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Archival Issues	Influence of moderate physical training on the GH/IGF-1 axis in diabetic rats
Volume 27, 2010 Volume 26, 2009 Volume 25, 2008 Volume 24, 2007 Volume 23, 2006 Volume 22, 2005 Volume 21, 2004 Volume 20, 2003	RJ Gomes, FH Caetano, MAR Mello, E Luciano <u>Biol Sport</u> 2006; 23 (3): ICID: 890842 Article type: Original article IC [™] Value: 9.29 Abstract provided by Publisher
Search	The influence of moderate physical training on serum growth hormone (GH), insulin-like growth factor –1 (IGF-1) and binding protein (IGFBP-3) in experimental diabetic rats was investigated. Male Wistar rats were divided into 4 groups, sedentary control (SC), trained control (TC), sedentary diabetic (SD) and trained diabetic (TD). Experimental diabetes
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Information for Authors	 was induced of Alloxan (35mg/b.w.) The training program consisted by swimming 5 days/week, 1 h/day, supporting a load of 2.5% b.w., during 6 weeks. Then, the rats were sacrificed and blood was collected for determinations of serum glucose, insulin, GH, IGF-1 and IGFBP-3. Samples of liver were used to evaluate glycogen, protein and DNA contents. The results were analyzed by ANOVA, and Bonferroni test and the significance level was set at 2.5%. Diabetes decreased serum GH, IGF-1, IGFBP-3 and liver glycogen stores in SD group. Physical training promoted increase in serum IGF-1 in both TC and TD groups (SC=82±15; TC=103±13; SD=77±16; TD=112±29 ng/ml) and liver glycogen store in TD group when compared to SD (SC=5.2±1.2; TC= 6.2±1; SD=2±0.5; TD=5±1.8 mg/100mg). Therefore, physical training contributes to the increase in liver glycogen content and to rise of insulin-like growth factor level in diabetic rats. It was concluded that moderate physical training promotes important adaptations related to GH-IGF-1 axis in diabetic organisms. ICI D 890842 FULL TEXT 244 KB
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