## Biology of Sport

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Archival Issues	Effects of training time on serum immunoglobulin alterations and cortisol testosterone responses in male athlete students MJ Pourvaghar, AA Ghaeini, AA Ravasi, MR Kordi <u>Biol Sport</u> 2010; 27 (1): ICID: 907783 Article type: Original article IC <sup>™</sup> Value: 9.38				
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Newsletter	The purpose of this study was to examine the effect of incremental continuous running as well as morning vs evening-time training on changes in serum immunoglobulins including IgA, IgG, IgM, testosterone, and cortisol hormones responses. For this reason, 28 male				
Authors Pathway					
Information for Authors		athletic students w morning-time train time=7: 30 AM) an age=19.81±1.24 y according to an ind months (16 session cortisol and testos once 24 hours befor Then, a 12 – minu consumption. The amounts of IgA, Ig respectively, p=0. between the amou	vere purposefully ning group (n=14, nd evening-time t years, training time cremental continu- ns). To determine terone hormones ore the first training te running-walking results showed the gM, IgG serum of 727, p=0.068, p= unts of testosteror	selected and randomly divided into the two groups , weight= $68.2\pm9.8$ kg, age= $19.5\pm1.6$ years, training training group (n=14, weight= $63.8\pm8.4$ kg, ne = $16:30$ PM). The participants were trained uous running program with a certain heart rate for the the amount of serum immunoglobulins as well as s, the participants' blood samples was taken twice, sing session and once 24 hours after training session ng test was used to measure the maximal oxygen here were not any significant differences between t f both groups in pre-test and post-test (i.e., = $0.14$ ). Also, there were not any significant differences in and cortisol hormones secreted of both groups in	; g two n. he nces in



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influenced by the time of training, which is due to circadian rhythm.

concentrations of cortisol hormone of the two groups in pre-test (p=0.006) and post-test

(p=0.0001). More ever, the results also showed a significant difference between the pretest of the morning-time training group and the post-test of the evening-time training group (p=0.0001). The findings of this research indicate that cortisol hormone is

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