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Archival Issues	Responses of saliva testosterone, cortisol, and testosterone-to-cortisol ratio
Volume 27, 2010 Volume 26, 2009 Volume 25, 2008 Volume 24, 2007 Volume 23, 2006 Volume 22, 2005 Volume 21, 2004 Volume 20, 2003	to a triathlon in young and middle-aged males CK Chang, HF Tseng, HF Tan, YD Hsuuw, J Lee-Hsieh <u>Biol Sport</u> 2005; 22 (3): ICID: 891493 Article type: Original article IC [™] Value: 10.26 Abstract provided by Publisher
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Newsletter	Saliva testosterone and cortisol have been suggested to represent the biologically activ
Authors Pathway	forms of the respective hormones. This study investigated the acute responses of salivates testosterone, cortisol, and testosterone-to-cortisol ratio (T/C) after a triathlon in young
Information for Authors	and middle-aged recreationally-trained males. Thirty-five subjects were divided into the Young (18-35 years, n=12) or Middle-aged (MA, 40-56 years, n=23) group. Pre- and post-race saliva testosterone and cortisol concentrations were measured by radioimmunoassays. Baseline testosterone was lower in MA, compared to the Young group. Cortisol and T/C decreased significantly after the race in both groups. Testosterone increased after the race in MA. Race-induced change in T/C was correlate with age (r=-0.686, p<0.05) in the Young group and change in cortisol in both groups. (r=-0.729, p<0.01 in Young; r=-0.714, p<0.01 in MA). Race-induced change in testosterone was correlated with age (r=0.487, p<0.05). This study suggested that the decline in T/C after intensive endurance exercise may be more significant with advanci age until mid-30 s, then it may reach the plateau after the fourth decade of life. The ag related decline in testosterone may be temporarily normalized after intensive endurance exercise in middle-aged men. Race-induced change in cortisol was the major determinant of that in T/C. ICID 891493 FULL TEXT 117 KB
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