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Archival Issues	A follow-up study of the changes in left ventricle and running performance in
Volume 27, 2010 Volume 26, 2009 Volume 25, 2008 Volume 24, 2007 Volume 23, 2006 Volume 22, 2005 Volume 21, 2004 Volume 20, 2003	highly trained runners A Legaz, M González, I Lacambra <u>Biol Sport</u> 2005; 22 (2): ICID: 891540 Article type: Original article IC [™] Value: 10.26 Abstract provided by Publisher
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Newsletter	Long-term studies have not previously been reported concerning the association among left ventricle (LV) adaptation and running performance. This association can be important for differentiation between pathological and physiological cardiac adaptation. The echocardiograms of 11 male and 9 female elite endurance-trained runners were evaluated over at least four times. The best running performance and echocardiography measurements achieved by each athlete in each year were selected in order to observe the individual association among LV and performance. Extreme LV enlargement (i.e., >60 mm) was observed in a 64% of the male runners. In a 75% of athletes, the higher
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value of the left ventricular internal diameters at end-diastole (LVIDd) was observed during the season whereon they obtained his/her better running performance. The mean value of range went from 5.8 and 4.4 mm for the LVIDd, and of 2.2 and 1.7 for the wall thickness; respectively for male and female runners. Individual analysis showed that LVIDd was associated with running performance in a 50% of runners (p<0.05). Wall thickness was negatively associated with performance in a 30% of runners, this relation was linked to LVIDd enlargement. These results represent an important criteria in

considering extreme LV enlargement in elite runners to be a physiological adaptation and

variables to control do that these conclusions should be taken like the start of a new field

determine the fitness of the athlete. However, this study's design and different difficult

it leads on to thinking that the echocardiographic would be able to be utilized to

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of study.

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