

عنوان مقاله:

Effect of Arginine Supplementation and High Intensity Training on Appetite Hormones and Body Composition of Obese Boys

محل انتشار:

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خلاصه مقاله:

Background: There is little information about the effects of high intensity aerobic exercise training (HIT) and L-arginine supplementation on appetite-regulating hormones among obese male adolescents. We aimed to determine the effect of eight weeks of HIT and L-arginine supplementation on appetite-regulating hormones and body composition indices in obese adolescent boys. Methods: Twenty obese adolescents were randomly divided into two groups of HIT and placebo (P-HIT, $n = i_0$) and HIT with supplementation of L-arginine (A-HIT, $n = i_0$). The HIT protocol was treadmill running with ventilation threshold (VT) intensity and training sessions were isoenergetic and energy consumption were set to μ_{Δ_0} kcal per session for each participant, which were evaluated indirectly by calorimetry. The A-HIT group received μ g of L-arginine per day for λ weeks. Before the interventions and $F\lambda$ hours after the last exercise session, anthropometric indices and levels of appetite-regulating hormones were measured. Results: There was no significant changes in weight reduction between the groups ($P\leq 0.0\Delta$). However, body max index (BMI) and percent body fat (PBF) changes were not significant in between groups ($P\geq 0.0\Delta$). Conclusion: Our findings suggest that co-supplementation of L-arginine with HIT training had no further effects on appetite regulatory hormones and body composition of obese ...male adolescents

كلمات كليدى:

L-arginine, Leptin, Agouti, PYY۳-۳۶, High intensity training, Obesity

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