

عنوان مقاله:

The effect of aerobic training and pomegranate supplementation on lipid peroxidation and some adhesion molecules in obese women

محل انتشار:

مجله بهداشت و توسعه, دوره 8, شماره 4 (سال: 1399)

تعداد صفحات اصل مقاله: 13

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خلاصه مقاله:

Background: Pomegranate supplement is one of the herbal supplements with healing properties. The purpose of this study was to investigate the effect of A weeks of aerobic training and pomegranate supplementation on lipid peroxidation and some adhesion molecules in obese women. Methods: In this randomised double-blind clinical trial, forty women with BMI greater than " kg/m" were randomly assigned into four groups of aerobic training, pomegranate, aerobic training + pomegranate, and placebo. Interventions were performed for A weeks. The exercise program included running on a treadmill with ۶۵% of maximum heart rate for ۱۶ minutes in the first week, which peaked at Wo minutes and Ao% of the maximum heart rate in the eighth week. The groups received either a Yoo mg supplement or a placebo daily for two months. Blood samples were collected from all subjects YF hours before and FA hours after the intervention to measure the variables. One-way ANOVA and paired t-test were used to compare the changes of variables in the four groups of study and at two blood sampling times (pre and post-test). Results: The results showed that MDA, ICAM-1 and VCAM-1 significantly decreased in three intervention groups (training+pomegranates, pomegranates, and training) (p < .. ω). This decrease in the pomegranate+training group was significantly higher than the other two (pomegranates, and training) groups (p < ... Δ). Conclusion: It seems that eight weeks of aerobic training along with pomegranate supplementation may have a better effect on reducing inflammation .and oxidative stress in preventing obesity-related diseases in obese women

كلمات كليدى:

aerobic training, Pomegranate, oxidative stress, Adhesion Molecules

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