عنوان مقاله:

The Effect of Eight Weeks of Selected Combined Training (Aerobic-Resistance) on Vascular Adhesion Molecules and Lipid Profile in Inactive Elderly Men

محل انتشار:

مجله گزارش بهداشت و درمان, دوره 5, شماره 3 (سال: 1398)

تعداد صفحات اصل مقاله: 9

نویسندگان:

Hassan Akhavan - Faculty of Physical Education and Sports Sciences, Bojnourd Branch, Islamic Azad University,
Bojnourd, Iran

Mehrdad Fathi - Faculty of Physical Education and Sports Sciences, Ferdowsi University of Mashhad, Mashhad, Iran

Teimour Darzabi - Faculty of Montazeri, Khorasan Razavi Branch, Technical and Vocational University, Mashhad, Iran

Keyvan Hejazi - Faculty of Physical Education and Sports Sciences, Toos Institute of Higher Education, Mashhad, Iran

خلاصه مقاله:

Introduction: Adhesion molecules and lipid profile play an important role in the pathogenesis of atherosclerosis. The aim of this study was to investigate the effect of combined training (aerobic-resistance) on vascular adhesion molecules and lipid profile in inactive elderly men. Methods: In this semi-experimental study, ۳. elderly men were divided randomly into three equal groups: resistance group (n=10), aerobic training (n=10) and control groups (n=10). The combined training (aerobic-resistance) included running on a treadmill for Yo minutes per session, Y sessions per week, for Λ weeks, at an intensity of ۶ to Yo% of HRR. Furthermore, the resistance training comprised 1 circling stationary movements of leg flexion, leg extension, leg press, scott, underarm stretch, chest press, iron cross with dumbbells, biceps flexion, triceps extension, and rowing motion with rope. This training included an intensity of 90 to Yo% of one maximum repetition with extra load and No repetitions in Y successive times with Wo-second rest between each repetition and Y-minute rest between each movement. To make intra and between groups comparison, paired and independent sample t-test was used. Results: The levels of ICAM-1 and VCAM-1 in both aerobic (p=o.ool) and resistance groups (p=o.oot) rather than control group reduced significantly. The amount of LDL-C, TG, TC in both aerobic and resistance groups rather than control group reduced significantly; while the levels of HDL-C in both exercise groups increased significantly. However, a significant difference was seen between $\operatorname{\mathcal{P}}$ groups with regard to serum TG, TC and HDL-C levels (P<o.o\alpha). Conclusion: The levels of ICAM-1 and VCAM-1 in both aerobic and resistance groups compared to control group reduced significantly. Therefore, combined training can be used as a .good method to improve inflammatory markers in elderly people

كلمات كليدى:

Training, Vascular Adhesion Molecules, Elderly

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1907740

