

عنوان مقاله:

The Effect of Resistance Training on Levels of Interlukine-6 and High-Sensitivity C - reactive protein in Older-Aged Women

محل انتشار:

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خلاصه مقاله:

Introduction: Aging is associated with elevated levels of some proinflammatory factors and exercise is a non-invasive intervention to improve immune function among older adults. The aim of the study was to compare resistance training effects on interleukine-6 (IL-6) and high-sensitivity C-reactive protein (hs-CRP) levels in older-aged women. **Methods:** The study was quasi-experimental and forty healthy females were selected and randomly assigned to one of four groups: strength after endurance training (endurance + strength (E + S), n = 9), strength prior to endurance training (strength + endurance (S + E), n = 10), interval resistance-endurance training (Int, n = 12), and control (n = 9) groups. The training program was performed for eight weeks, three times per week. Human TNF- α and IL-6 sandwich ELISA Kit were used. Within-group differences were analyzed using a paired samples t-test and between-group differences were analyzed using one-way analysis of variance. **Results:** The intra-session order had not significantly influence on the adaptive response of waist-to-hip ratio ($p = 0.55$), IL-6 ($p = 0.55$) and hs-CRP ($p = 0.55$) throughout the study. However, significant differences were shown following combined training between the S + E, E + S and Int groups for Vo2 max ($p = 0.029$), body mass ($p = 0.016$) and BMI ($p = 0.023$) when comparing pre and posttests. **Conclusion:** This study confirmed that adaptations to a combination of endurance and resistance training appear to be independent of whether resistance training occurs prior to or following endurance training.

کلمات کلیدی:

Exercise, Inflammation, IL-6, hs-CRP, Aging

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