

## عنوان مقاله:

Effect of Aerobic Training and *C. vulgaris* Intake on Lipid Profile and Leptin in Obese Women

## محل انتشار:

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## خلاصه مقاله:

**Background:** Regular physical activity can reduce the complications of obesity. *Chlorella vulgaris* (*C. vulgaris*) is recognized as a rich source of health promotion. **Objectives:** The aim of this study was to evaluate the effect of aerobic training and *C. vulgaris* intake on lipid profile and leptin in obese women. **Methods:** We randomly divided 32 obese women into control (C), aerobic training (AT), *C. vulgaris* (CV), and aerobic training plus *C. vulgaris* (AT+CV) groups. Interventions were performed for eight weeks. *C. vulgaris* was used at the dose of 1200 mg/day. The aerobic training included activities on a treadmill with 65% - 80% of maximum heart rate (MHR) (three sessions/week). Blood samples were taken before and after the interventions. **Results:** The body weight, body mass index (BMI), leptin, triglyceride, cholesterol, HDL-C, and LDL-C significantly improved in the AT and AT+CV groups compared to the control group ( $P < 0.05$ ). There was no significant difference between the AT and AT+CV groups ( $P > 0.05$ ). **Conclusions:** Aerobic training can improve the lipid profile and leptin in obese women by reducing weight, increasing oxygen uptake, and improving lipid oxidation. Nevertheless, the effect of *C. vulgaris* was not detected individually. However, the effect of training may be due to the modification of exercise-induced responses by *C. vulgaris* properties. Therefore, there is a need for further investigation of *C. vulgaris* physiological function in the field of sports medicine.

## کلمات کلیدی:

Exercise, Herbal Supplements, Obesity, Adipokines

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