

عنوان مقاله:

Effect of A weeks Aerobic Training and Nigella Supplement on Insulin Resistance, Lipid Profile and Plasma Level of HbAic in Type Y Diabetic Rats

محل انتشار:

مجله علمی پژوهُشی دانشگاه علوم پزشکی زنجان, دوره 27, شماره 120 (سال: 1397)

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خلاصه مقاله:

Background and Objective: Metabolic syndrome is defined as a cluster of metabolic disorders, which may lead to type II diabetes and cardiovascular diseases. The aim of this study was to investigate the effect of Λ weeks of aerobic training and Nigella sativa supplements on insulin resistance, lipid profiles, and plasma levels of HbAlc in Type Y diabetic rats. Materials and Methods: $\[mathbb{mathbb{W}\]$ male Wistar rats were divided into five groups. Diabetes was induced by intraperitoneal injection of streptozotocin. The training program included Λ weeks of aerobic training on a treadmill. The supplement group consumed N. Sativa supplement at the end of each training session at the dose of Foomg/kg/day. After Λ weeks of aerobic training and N.Sativa consumption, the plasma levels of HbAlC, insulin resistance and lipid profiles were measured. Results: The results showed that blood glucose level in all three groups was significantly lower than the baseline (P=0.0001). Cholesterol, triglyceride and LDL showed the most significant decrease in aerobic and combination training groups (P=0.0001). In HDL index, aerobic and combination group showed a significant decrease compared to the other groups (P=0.0001). Conclusion: The results show that exercise along with N. Sativa supplement is more effective than N. sativa supplement or exercise alone in the status of rats with .type Y diabetes. This kind of combination therapy may also be applicable to diabetic patients

كلمات كليدى:

Diabetes, Aerobic Training, Nigella, Insulin resistance

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