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Effects of the consumption of black garlic on metabolic syndrome risk factors: A double-blind randomized controlled trial

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rarlic (Allium sativum) has been used as a traditional medicine and home remedy since ancient times and Uin many cultures to treat various diseases and health problems. Global garlic consumption is declining. Some people do not like to eat raw garlic because of its pungent taste and smell. Therefore, attention was focused on the processing of this food in order to facilitate consumption and bring its taste closer to people's tastes. In this study, individuals were included in the study based on the definition of metabolic syndrome and were randomly divided into three groups of consumers, 2 and 4 grams of black garlic and the control group. Consumption of raw garlic in three experimental groups lasted for three weeks. Before and after the intervention, 5 cc of blood sample was taken to determine the level of blood glucose. Blood pressure and body mass index were also measured. Finally, statistical analysis was performed using one-way T-test using SPSS software version 25. The results of the average data show that consumption of black garlic, 2 and 4 grams, for three weeks has an effect on reducing all health indicators compared to pre-consumption values and the greatest effect is obtained with daily consumption of 4 grams of black garlic. Analysis of the results showed that there is a positive and significant relationship between consumption of black garlic and reduction of systolic and diastolic blood pressure and body BMI (p≤0.05). Meanwhile, for blood sugar, it was found that daily consumption of black garlic for 3 weeks of 4 grams ($p \le 0.0001$) has a greater effect on lowering blood sugar than consumption of 2 grams of black garlic ($p \le 0.038$). Based on the results of this study and similar studies, it can be concluded that black garlic can be used as a safe supplement to help prevent the development of health problems associated with metabolic syndrome.

Biography

Essam Amerian is affiliated from Ahvaz Jundishapur University of Medical Sciences, Iran.

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