

عنوان مقاله:

Insulin resistance improvement by cinnamon powder in polycystic ovary syndrome: A randomized double-blind placebo controlled clinical trial

محل انتشار:

اولین کنگره بین المللی پریوناتالوژی، هفتمین کنگره سراسری پریوناتالوژی و نئوناتالوژی (سال: 1398)

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خلاصه مقاله:

Background: Our aim is to assess the effect of cinnamon powder capsules on insulin resistance, anthropometric measurements, glucose and lipid profiles, and androgens of women with polycystic ovarian syndrome (PCOS)
Method: Out of 80 women that were diagnosed as PCOS by Rotterdam Criteria, 66 were enrolled in this randomized double-blind placebo-controlled clinical trial. All of the PCOS women were taking medroxy progesterone acetate 10 mg/day for the last 10 days of their menstrual cycles. The cases were randomly allocated to 2 groups. The women in the first group were treated by cinnamon powder capsules 1.5 g/day in 3 divided doses for 12 weeks and the second group by similar placebo capsules. Anthropometric measurements, fasting blood sugar, fasting insulin, blood glucose 2 hr after taking 75 g oral glucose, HbA1c, testosterone, dehydroepiandrosterone sulphate, homeostatic model assessment for insulin resistance, triglyceride, and cholesterol (low-density lipoprotein, high-density lipoprotein, and total) before and after the intervention were evaluated and compared as outcome measures
Result: Fasting insulin ($p = .024$) and homeostatic model assessment for insulin resistance ($p = .014$) were reduced after 12 weeks in the cinnamon group compared with the placebo. There was also a significant decrease in low-density lipoprotein in cinnamon group ($p = .004$) as compared with baseline that caused significant difference with placebo ($p = .049$). However, changes in other outcome measurements did not lead to statistically significant difference with placebo.
Conclusion: The present results suggest that complementary supplementation of cinnamon significantly reduced fasting insulin and insulin resistance in women with PCOS.
Keywords: HOMA-IR, cinnamon, fasting insulin, insulin resistance, polycystic ovary syndrome

کلمات کلیدی:

