

عنوان مقاله:

Effects of Curcumin on Body Weight Glycemic Control and Serum Lipids in Women with Polycystic Ovary Syndrome a Randomized Double-Blind Placebo-Controlled Trial

محل انتشار:

پانزدهمین کنگره بین المللی زنان و مامایی ایران (سال: 1398)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Backgrounds: The aim of this study was to evaluate the effect of curcumin on body weight, glycemic control and serum lipids in women suffering from polycystic ovary syndrome (PCOS). Material and method : The current randomized, double-blinded, placebo-controlled clinical trial was performed on 50 subjects with PCOS, aged 18-40 years old. Subjects were randomly allocated to take 500 mg/day curcumin (n=24) or placebo (n=26) for 12 weeks. Glycemic control and serum lipids were measured at baseline and after the 12-week intervention. Using RT-PCR method, gene expression related to insulin and lipid metabolism was evaluated. Result: Curcumin significantly decreased weight (-0.8±0.9 vs. -0.2±0.8 kg, P=0.03) and BMI (-0.3±0.4 vs. -0.1±0.3 kg/m2, P=0.03). Curcumin, compared with the placebo, significantly reduced fasting glucose (β -2.63 mg/dL; 95% Cl, -4.21, -1.05; P=0.002), serum insulin (β -1.16 μIU/mL; 95% CI, -2.12, -0.19; P=0.02), insulin resistance (β -0.26; 95% CI, -0.48, -0.03; P=0.02), and significantly increased insulin sensitivity (β 0.006; 95% CI, 0.001, 0.01; P=0.02). In addition, taking curcumin was associated with a significant reduction in total cholesterol (β -15.86 mg/dL; 95% CI, -24.48, -7.24; P=0.001), LDL-cholesterol (β -16.09 mg/dL; 95% CI, -25.11, -7.06; P=0.001) and total-/HDL-cholesterol ratio (β-0.62; 95% CI, -0.93, -0.30; P<0.001), and a significant increase in HDL-cholesterol levels (β 2.14 mg/dL; 95% CI, 0.36, 3.92; P=0.01) compared with the placebo. Additionally, curcumin administration up-regulated gene expression of peroxisome proliferator-activated receptor gamma (PPAR-y)(P=0.03) and low-density lipoprotein receptor(LDLR) (P<0.001) compared with the placebo.Conclusion:Overall, curcumin administration for 12 weeks to women with PCOS had beneficial effects on body weight, glycemic control, serum lipids except triglycerides and VLDL-cholesterol levels, and gene expression of PPAR-y and LDLR

کلمات کلیدی:

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Curcumin, insulin metabolism, lipid profiles, polycystic ovary syndromeFinancial sponser : Kashan University of Medical Sciences

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