

عنوان مقاله:

HbA1c in Polycystic Ovary Syndrome as the Cardiac Risk Assessment

محل انتشار:

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خلاصه مقاله:

Objective: Polycystic ovary syndrome (PCOS) is an endocrine disorder associated with hyperandrogenism marked with hirsutism and ovarian dysfunction. These conditions may lead to the risk of insulin resistance (IR), type 2 diabetes, obesity, and cardiovascular disease. These conditions are related to PCOS complications hence our aim was to study and investigate the relationship between high-sensitivity C - reactive protein (hs-CRP) level and glycosylated hemoglobin (HbA1c) level in PCOS patients. Materials and Methods: Female patients visiting the obstetrics and gynecology outpatient department (OPD), aged between 19 and 45 years with a body mass index (BMI) of 25 to 29 kg/m². The individuals fulfilling the National Institute of Health (NIH) criteria for PCOS; including amenorrhea or oligomenorrhea and had been clinically diagnosed with hyperandrogenism were served as subjects. Results: Two hundred and ten individuals with HbA1c of 5.4% have a higher risk of cardiovascular disorders. The study showed the association between increased cardiac risk as measured by hs-CRP and patients with normal HbA1c values with a sensitivity of 77.2% and specificity of 75.99%. The HbA1c cutoff value can be used in the PCOS patients to assess the cardiac risk due to association of HbA1c cut off value with false positivity rate of 15.24%. Conclusion: In PCOS patients with chronic low-grade inflammation, IR, and the degree of inflammation associated with HbA1c value .was observed

کلمات کلیدی:

HbA1c, Polycystic ovary syndrome, hs-CRP, Cardiovascular disorder

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