

عنوان مقاله:

Association between SHBG gene polymorphism (rs 5790) and breast cancer susceptibility

محل انتشار:

دهمین کنگره بین المللی سرطان پستان (سال: 1393)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Background and Aim: Sex hormone binding globulin (SHBG) gene encodes a steroid binding glycoprotein that secreted by the liver and participates in the regulation of steroid responses. The encoded protein transports androgens and estrogens in the blood. The aim of this study was to evaluate the relationship between polymorphisms E326K and the risk of breast cancer. Methods: This case - control samples were studied on 79 patients with breast cancer and 79 healthy control subjects. After sampling and extraction of DNA, genotyping of all samples were determined by PCR-RFLP method and the results were statistically analyzed, using SPSS 19 software. Results: The average patients' ages were 48 ± 8 years and control subjects were 43 ± 6 . After counting the genotypes, the percentages of their frequencies were determined and observed in tumor samples of AA (56.9%), GG (35.4%), AG / GA (7.6%), and in the control samples of AA (12.6%), GG (77.2%), AG / GA (10.1%). Statistically, significant relationship was observed between the two groups of homozygotes. (P-Value 0.05). Conclusion: The results show that the E326K polymorphism in exon 8 of SHBG gene is associated with risk of breast cancer and may be a factor involved in it

کلمات کلیدی:

SHBG gene, Polymorphism E326K, RFLP-PCR

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