عنوان مقاله:

Study of CYP1A1 Polymorphisms in Women with Breast Cancer in East Azarbaijan Province

محل انتشار:

چهاردهمین کنگره بین المللی سرطان پستان (سال: 1397)

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خلاصه مقاله:

Introduction: Breast cancer is one of the most common cancers and one of the main causes of cancer death in the worldwide. It is the most common form of cancer among women under the age of 50 years. Many studies have shown the association between smoking and the increased risk of developing breast cancer. One of these is smoking and exposure to tobacco smoke. Tobacco smoke contains many potentially harmful compounds that are involved differently in different stages of breast cancer progression. CYP1A1 gene encodes an enzyme that plays a role in the metabolism of polycyclic aromatic hydrocarbons in tobacco and activates the carcinogenic mechanism. Recent studies have reported the association between CYP1A1 (Ile462Ile) and CYP1A1 (Ile462Val) CYP1A1 (Ile462Val) polymorphisms. Our goal was to investigate polymorphisms in smokers with or without breast cancer in Tabriz. Method: 25 female smokers with breast cancer were diagnosed and 25 female smokers with no history of breast cancer in their own family .after ethical confirmation. DNA extracted, from samples and examined for polymorphism PCR-RFLP method was used. Data were analyzed using SPSS-16 software. Conclusion: CYP1A1 (Ile462Ile) in female smokers with breast cancer and CYP1A1 (Ile462Val) in female smokers with no history of breast cancer had the highest genotype, so CYP1A1 (Ile462Ile) could be a risk factor of breast cancer and CYP1A1 (Ile462Val) Play a protective role of breast cancer in these women. By doing so, you can take an effective step in identifying this disease in early stages and organizing treatment and reducing costs.

کلمات کلیدی:
reast Cancer, Cigarette, Polymorphism, CYP1A1 and RFLP

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