

عنوان مقاله:

Study the Molecular Association between a Deletion Mutation in CHEK2 gene (5395 bp) and Breast Cancer

محل انتشار:

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خلاصه مقاله:

Background & Objectives: Breast cancer is the most common cancer among women and the second most common cause of cancer death. Genetic factors play an important role in the development of breast cancer. Among these genetic factors, CHEK2 (checkpoint kinase 2) gene, as a tumor suppressor gene, plays a critical role in DNA repair. Germline mutations in CHEK2 result in the loss of this feature. One of the mutations in CHEK2 gene is a 5395 bp deletion mutation which has been associated with the increasing risk of Breast Cancer in some populations in the world. In the present study, we investigated the association between a 5395 bp deletion mutation in CHEK2 gene and the risk of Breast Cancer in the women of an Iranian population. **Methods:** Pathologic information of 38 cases under the age of 45 and 62 cases over the age of 45 referring to surgery ward of Milad Hospital in Tehran were extracted. 100 healthy controls were included in the study as well. After obtaining informed consent, 5 mL whole blood was taken DNA was successfully isolated. Multiplex PCR was used to investigate the association between a 5395bp deletion mutation in CHEK2 gene and increasing risk of Breast Cancer among patients. **Results:** The 5395bp deletion mutation in CHEK2 gene was not found in any of the participating groups of patients or healthy controls. **Conclusion:** The present study revealed that there is no significant relation between increasing the risk of Breast Cancer and bearing .large deletion mutation in exon 9 and exon 10 of CHEK2 gene

کلمات کلیدی:

Breast Cancer, CHEK2, 5395 bp Deletion Mutation, سرطان پستان, CHEK2, جهش حذف 5395bp ژن

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