عنوان مقاله:

Association of Ki67 expression and CK19 detection in breast cancer patients

محل انتشار:

دهمین کنگره بین المللی سرطان پستان (سال: 1393)

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خلاصه مقاله:

Cytokeratin19 (CK19) is a part of the cytoskeleton which abundantly expressed in the majority of epithelial tumor cells and is used as a tumor marker in cancer. Ki67 is a cellular proliferation marker as well as a cancer antigen that is found in growing and dividing cells. Thischaracteristic makes Ki67 a good tumor marker. Methods: In the present study, 25 patients and 25 healthy women as control were evaluated. Total RNA was extracted from blood. RT-PCR technique was applied to the extracted RNA, using specific primers. RT-PCR assay was used for detection of CK19 tumor marker and Glyceraldehyde 3-phosphate dehydrogenase (GAPDH) as an internal control.Results: In this study, CK19 was detected in 32% of breast cancer patients but CK19 was not positive in the healthy controls. The CK19 gene expression in blood was assessed and compared with Ki67 gene expression; pathologic characteristic of patients. The association of the CK19 and Ki67 gene expression was statistically significant with P value =0.000. Conclusion: It was shown that CK19 gene expression is potentially related to the Ki67 expression and it could be involved in the pathogenesis of breast cancer.

کلمات کلیدی:

Ki67, RT-PCR, CK19

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