Original Paper

Glycodelin expression in human breast cancer

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Abstract

Background and Objective: Glycodelin expression in normal and cancerous human breast tissue and its relation with age, tumor type, microscopic grade and metastasis to axillary lymph nodes recently were noticed. This study was done to evaluate the glycodelin expression in breast cancer.

Methods: In this descriptive study, 96 Paraffin-embedded blocks of malignant breast cancer by immunohistochemistry method were considered to evaluate the expression of glycodelin. Patients age,tumor size, tumor type, microscopic grade and metastasis to axillary lymph nodes were recorded for each subject.

Results: Glycodelin was found in 30.45% of invasive carcinoma of the breast with axillary lymph node metastasis. Glycodelin was expressed in 72.7% of carcinoma of the breast without lymph nodes metastasis (P<0.05). There was a significant relation between glycodelin expression with microscopic grade 1 of tumor and metastasis to less than 4 of lymph nodes (P<0.05).

Conclusion: Glycodelin expression can be evidence for lack of axillary lymph node metastasis of breast cancer.

Keywords: Glycodelin, Breast, Carcinoma, Immunohistochemistry

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