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EXPRESSION OF P53 ONCOPROTEIN IN HUMAN DUCTAL BREAST CARCINOMA (IN SITU, INVASIVE AND METASTATIC)

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Abstract

Breast cancer is a malignant tumor mostly disclosed in women. It has heterogeneous biological behavior - so that the knowledge of tumor markers is very important to determine its prognosis and therapy. Up to now, the determination of prognosis and treatment of choice is still based on clinical and morphologic finding although recent studies pointed out that there was tight relationship between carcinoma growth and molecular abnormalities including normal cell gene consisting of proto-oncogene, tumor suppressor gene, programmed cell death and DNA repair gene. Therefore, the description of molecular changes is required - in determining the prognosis and therapy of breast cancer. Molecular pathologic approach may offer a prospective promise even though the genetic mechanism of molecular carcinogenesis in breast cancer is still unclear. In this study, immune pathologic investigation was carried out by using immune histochemical method, with antibody monoclonal against protein p53. Based on multivariate test of Wilks' Lambda method, p53 protein expression was concomitantly different in various tumor diameters of breast cancer (p = 0,000 < α = 0,05). With method of Wilks' Lambda method, protein expression p53 was simultaneously different in various carcinoma cell differentiation of breast cancer (p = 0,000 < α = 0,05) and with Wilks' Lambda method, protein expression p53 was concomitantly different in various progressiveness of ductal carcinoma growth (p= 0,000 < α= 0,05). Also with Wilks' Lambda method, p53 protein expression was concomitantly different in various grade of ductal carcinoma (p = 0,000 < α= 0,05). The result designated that there was a significant difference among four breast cancer groups (p= 0,000 < α= 0,05) and oncoprotein expression contributed on cellular activity in carcinogenesis of breast cancer. It showed that malignancy occurred in genetic lesion.

Keyword : breast, cancer, prognosis, molecular, pathological, role, (p53, -, protein, expression),

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