

Epidemiological correlation between HER-2 expression with histological type and grade breast carcinoma on oncology department, Moewardi Hospital, Surakarta, Indonesia

Dian Ibnu Wahid¹, Widyanti Soewoto²

¹General Surgery Residency, Surgical Department Medical Faculty Sebelas Maret University – Dr Moewardi Hospital, Surakarta. ²Head of Department of Surgical Oncology, Surgery Department Medical Faculty Sebelas Maret University – Dr Moewardi Hospital, Surakarta

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ABSTRACT

Some woman has breast tumors with higher level of HER-2. HER-2 receptor is a member of the epidermal growth factor receptor family which is gene that can play a role in the development of breast carcinoma. Normally, HER-2 receptors control breast cell grows, divides, and repair breast cell. But in pathologic conditions it makes too many copies. The aim of this study was to evaluate the expression of HER-2 in woman breast carcinoma and to compare it with Histological Type and Grade. We observed 1,395 patients with breast carcinoma. The mean age of the patients was 45.7 (Ranged 23-73 years). In this group the frequency of HER-2 positive was higher than other. The incidences of patients above 50 years were significantly higher in HER-2 positive with 363 (47%). The tumor grading showed the highest on G3 with the results 764 (54.7%). G3 got the highest results on HER-2 positive with 535. We divide the type of tumor consist of three parts (ductal, lobular, and other). Ductal carcinoma was the type of tumor with the most data with 878 (63%). The difference did not achieve statistical significance, chi square results showed >0.05 . It can be concluded there was no relationship between HER-2 with histological type and grade breast cancer.

Keyword: Her-2 expression - hystological type - grade - breast carcinoma

*corresponding author: diw18@yahoo.com