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Correlative study of risk factors and histopathological grading in carcinoma breast

Pradeep Kumar

Karuna Medical College, India

Objective: Correlating risk factors for breast cancer with histopathological grading.

Material and Method: A four year retrospective study was carried out in the department of Pathology in Karuna Medical College from 2009-2012. 46 cases which were reported as breast cancer in due course were reviewed with histopathological (Scarff-Bloom-Richardson) grade of the tumor and familial, hormonal and acquired risk factors. The correlation of risk factors and the histopathological grade is done by using 'z' test.

Results: Among 46 cases of breast cancer, all were female. 16 cases were having familial risk factors, 12 cases were having hormonal risk factors and 12 cases were having acquired risk factors. 6 cases were having both familial and hormonal risk factors. In histopathological grading 12, 12, 22 cases were of grade I, II and III respectively. High grade was significantly correlating with familial and hormonal risk factors. There was a significant correlation with p value <0.0001.

Conclusion: Familial and hormonal risk factors are associated with high grade breast cancer than with that of acquired risk factors.

pradeepnaik.1@gmail.com