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Association between expressions of a panel of immunohistochemistry (IHC) markers including Ki 67, Cyclin D1, p53, bcl2, C-KIT, and Her2/neu and metastatic disease in oral squamous cell carcinoma (OSCC)

Prabhashankar Mishra
Assistant Professor,at utopia divine wanowrie pune,India.

Aim: This study aims to find out any association between expressions of a panel of immunohistochemistry (IHC) markers including Ki 67, Cyclin D1, p53, bcl2, C-KIT, and Her2/neu and metastatic disease in oral squamous cell carcinoma (OSCC).

Materials and methods: A total of 236 cases of OSCC presenting to our centre between Jan 2013-Dec 2016 with available clinical details were included in the study. Forty cases each of non metastatic disease and metastatic disease at presentation were selected randomly for evaluation of IHC marker's expression as enumerated above.IHC expression of the markers were interpreted as positive ,negative or indeterminate or non-contributory based on standard practice in clinical use. Other important clinical and pathological features were also noted for further evaluation and analysis.

Results: MIB 1(Ki 67) index as a percentage value, and diffuse p53 expression were found to be independently associated with metastatic OSCC at presentation (p values <0.001, confidence interval 95%).Cyclin D1,bcl2, C-KIT, and Her2/neu expressions did not show any association with metastatic/ non-metastatic disease at presentation.

Conclusion: MIB 1 mitotic index and p53 positivity are significantly associated with metastatic OSCC. Further studies on this subject are needed to substantiate this important finding which may be used to analyze the role of these IHC markers in possible prediction of metastatic potential and therefore prognosis in the cases of OSCC.

Biography

Prabhashankar mishra, Working as an Assistant Professor,at utopia divine wanowrie pune,India.He was successful achiever producing his work on "Association between expressions of a panel of immunohistochemistry (IHC) markers including Ki 67, Cyclin D1, p53, bcl2, C-KIT, and Her2/neu and metastatic disease in oral squamous cell carcinoma (OSCC)".

psmofi2@gmail.com

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Page 47