



IMMUNOHISTOCHEMICAL EXPRESSION OF Cyclin B1 IN ORAL SQUAMOUS CELL CARCINOMA AND VERRUCOUS CARCINOMA

by

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Abstract

Aim; The present study is planned to elucidate the expression of Cyclin B1 in different histopathological grades of oral squamous cell carcinoma, and compare with clinicopathological features, and also to compare the expression between oral squamous cell carcinoma and Verrucous carcinoma.

Study Design; in this retrospective study, 60 cases of previously diagnosed oral squamous cell carcinoma are subjected for immunohistochemical expression of Cyclin B1. Histopathologically graded as Well (11), Moderately (9), Poorly (9) differentiated Squamous cell carcinoma and Verrucous Carcinoma (31) are taken. The data presented along with biopsy requisition are helped to formulate the stage of carcinoma. The variation in difference among different histopathological grade of carcinoma for Cyclin B1 expression is compared, and also between Verrucous carcinoma and different histopathological grade of carcinoma of Cyclin B1 is compared. The various clinical data was tabulated and compared with Cyclin B1 expression in among these carcinomas.

Results; in this study there is increased nuclear expression as there is increase in the grade of carcinoma, Verrucous being the lowest followed by well and moderate, all three showed predominant cytoplasmic expression. There is increase of nuclear expression Cyclin B1 in Poorly differentiated Squamous cell carcinoma indicating higher proliferative activity of the cells. There is significant difference in distribution of Carcinoma within oral cavity and also in clinical presentation at the time of biopsy. However there is no significant difference in Cyclin B1 expression and its clinical presentation and site distribution of Squamous cell carcinoma.

Conclusion; Localizations of Cyclin B1 shifts from cytoplasmic to nuclear as there is fall in the degree of cellular differentiation. Verrucous showing least nuclear expression followed by Well, Moderate and Poorly differentiated Squamous cell carcinoma. Clinical staging has no effect on Cyclin B1 expression.

Keywords: *Cycin B1, Oral Squamous cell carcinoma, Verrucous carcinoma.*