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Immunohistochemical expression of actin and s100 in pleomorphic adenoma and mucoepidermoid carcinoma

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Background: The aim of this study was to evaluate the expression of fibroblast growth factor-2 and Heparanase in salivary pleomorphic adenoma, and to correlate the two studied markers with each other and with clinicopathological parameters including: age, sex, tumor site and histopathological presentation.

Methods: Sections of twenty five formalin-fixed paraffin embedded tissue blocks specimens of salivary pleomorphic adenoma were immunostained using monoclonal antibodies (Fibroblast growth factor-2 and Heparanase) to assess their expression in this tumor.

Results: The expression of fibroblast growth factor-2 and Heparanase were positive in all pleomorphic adenoma cases (100%). The positive expression of fibroblast growth factor-2 was significantly correlated with histopathological presentation (p-value=0.032), but it was non-significantly correlated with FGF-2 and other clinicopathological parameters (age, sex, tumor site). The positive expression of Heparanase was non-significantly correlated with the histopathological presentation (p-value=0.088) as well as with other clinicopathological parameters (age, sex, tumor site). Statistically significant correlation was found between the expressions of both studied markers (p-value= 0.0005).

Conclusion: The fibroblast growth factor-2 and Heparanase positive expression was noted in all cases of salivary pleomorphic adenoma signifying that both fibroblast growth factor-2 and Heparanase might contribute in the biological behavior of pleomorphic adenoma. The highly significant correlation found in the expression of both markers suggests their synergistic and cooperative role in the tumorigenesis of pleomorphic adenoma.

Biography

Dr. Ahlam obtained her B.D.S and MSc degree from the college of dentistry of Baghdad. She was a junior teaching staff in periodontal. In 2004 she obtained professor degree in oral diagnosis department. In 2002 she was the head of oral diagnosis department from July-2002 to October-2006 and in 2006 she was the head of Promotion department. In 2015 she was the head of scientific committee in Baghdad College of dentistry. Now she is Professor in oral pathology in dental college, Uruk University. She is a Member of Iraqi Diabetic Society. She has more than 45 publications in the field of oral and maxillofacial pathology.

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