

An Immunohistochemical Panel for The Accurate Differentiation Between Mucoepidermoid Carcinoma and Pleomorphic Adenoma

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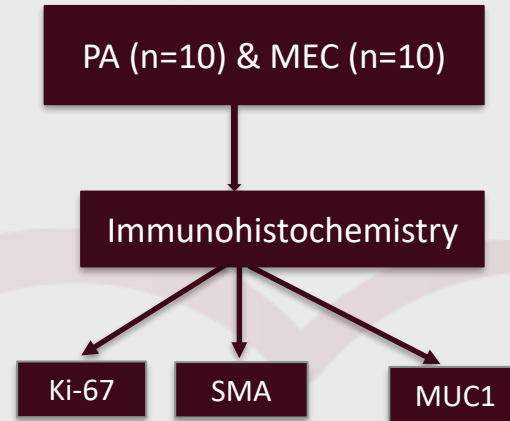
Introduction: Pleomorphic Adenoma (PA) and Mucoepidermoid Carcinoma (MEC) stand out as prevalent entities originating from the salivary glands. The accurate differentiation between these two entities is crucial for treatment planning and predicting the prognosis of patients.

Aim : To assess the effectiveness of immunobiomarkers in differentiation between mucoepidermoid carcinoma and pleomorphic adenoma.

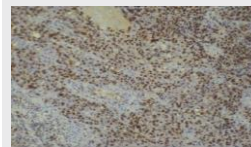
Objectives:

- A. To evaluate the efficacy of immunobiomarkers in differentiation between MEC and PA
- B. To arrive at a definitive diagnosis by using immunobiomarkers

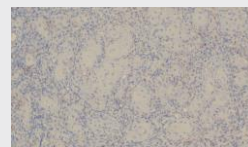
Methodology



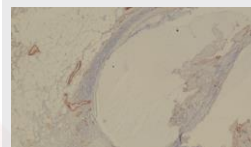
Results:



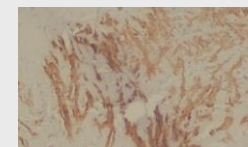
+Ve Ki-67 Expression in MEC



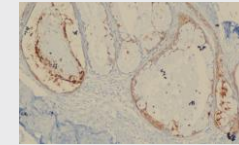
-Ve Ki-67 Expression in PA



-Ve SMA Expression in MEC



+Ve SMA Expression in PA



+Ve MUC1 Expression in MEC



-Ve MUC1 Expression in PA

Discussion: Ki-67 exhibited higher positive expression in MEC compared to PA. SMA was strongly expressed in PA suggesting a myoepithelial cell origin, MUC1 exhibited positive membrane and slight cytoplasmic expression in MEC.

Conclusion: Immunohistochemistry serves a crucial role in identifying salivary gland tumors.

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