

# Immunoexpression of pRb and EGFR using tissue microarray (TMA) technique - A preliminary study

Type: Meeting Abstract

Content:

**Purpose:** To assess the expression of pRb and EGFR in oral epithelial lesions using TMA technique. **Methods:** Paraffin embedded specimens were selected from the archives of the Diagnostic Laboratories at the Faculty of Dentistry, University of Malaya and Universiti Kebangsaan Malaysia. Selected epithelial areas were cored and developed into tissue microarray blocks. A total of 32 samples for pRb and 50 samples for EGFR were analysed using immunohistochemical techniques. **Results:** Abnormal pRb staining (1+ or less) was seen in 80% (8/10) OSCC, 38.5% (5/13) dysplastic and 22.2% (2/9) normal/hyperplastic epithelium. Positive EGFR staining was observed in 25/35 (71.4%) OSCC cases with 11 cases (31.4%) showing staining of 2+ or more. Out of 5 epithelial dysplasia and 10 normal/hyperplastic epithelium, positive EGFR staining was noted in 3 (60%) and 8 (80%) cases respectively. Interestingly, only 1(20%) epithelial dysplasia and 1(10%) normal/hyperplastic epithelium showed staining of 2+ or more. **Conclusion:** High frequency of abnormal expression of pRb is observed in OSCC cases as compared to dysplastic and normal/hyperplastic epithelium. EGFR is expressed in OSCC as well as epithelial dysplasia and normal/hyperplastic epithelium. However, higher EGFR positivity is more common in OSCC cases. This study supports the feasibility and ease of using TMA technique for immunohistochemical studies.

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Source	Journal of Oral Pathology & Medicine
ISSN	0904-2512
DOI	-
Volume	35
Page	7
Year	2006

Keyword:

Oral squamous cell carcinoma, OSCC, lichenoid lesions, lichen planus, oral cancer, oral tumours, pemphigus, traumatic eosinophilic granuloma, aphthous ulcers, oral mucosal lesions, betel chewers mucosa, betel quid related lesions, betel quid, areca quid, tobacco quid, oral cancer screening, training and calibration, early detection, oral cancer awareness, biobanking, tissue bank, databank, oral cancer, tissue bank, research credibility, research ethics.

Please Cite As:

KIPLI, N. P., CHEONG, C. S., ZAIN, R. B., HAMID, S., LIM, K. P., ABRAHAM, T., ISMAIL, M. S. & HUSSAINI, H. M. 2006. **Immunoexpression of pRb and EGFR using tissue microarray (TMA) technique - A preliminary study.** *Journal of Oral Pathology & Medicine*, 35, 450-450.

URL:

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