

Evaluation of gene expression of CK7 and CK20 in Oral squamous cell carcinoma and dysplasia of oral epithelium by Real-time RT-PCR technique.

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Abstract

Objective: Most prevalent malignancy of the mouth is oral squamous cell carcinoma Which is divided to grades I,II,III according to histologic criteria and degree of differentiation Local recurrence and lymph node metastasis is the most usual cause of treatment failure . Although OSCC is a tumor that can arise without external influence, but it usually arise from precancerous lesions and situations. Many recent studies performed on cellular proteins to use as prognostic or target therapy in OSCC specially in those with higher stages or grades. Cytokeratins are cellular skeletal proteins which exclusively expressed by epithelial cells and malignancies arising from them, like OSCC. The aim of this study is to evaluate the expression of ck7 and ck20 gene in OSCC grades I, II, III and dysplastic epithelium by q-rt-PCR and new RNA extraction method from paraffin blocks.

Methods & Materials: This study performed on 60 paraffin block samples in including OSCC and dysplastic epithelium, together with their clinical data (age and gender) which obtain from archive of oral and maxillofacial pathology department of Mashhad dental school, university of medical science. First of all total RNA extraction from all paraffin blocks performed and expression of ck7 and ck20 gene had been evaluated by real time PCR method.

Conclusion: By raising of OSCC grades and decreasing of cellular differentiation, expression of ck7 and ck20 increases. So that the highest expression of ck7 and ck20 mRNA is in OSCC grade III than OSCC grades I and II.



Biography:

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