

Immuno histo chemical expression of matrix metalloproteinase-9(MMP-9) and collagen IV in the keratocystodontogenic tumor and dentigerous cyst

Flahe Soufian

Khorasgan Islamic Azad University School of Dentistry, Iran

Objective: The aim of this study was to evaluate immuno histo chemical expression of matrix metalloproteinase-9 (MMP-9) and collagen IV in the keratocystodontogenic (KOTs) and dentigerous cyst (DCs), to assess the role of these markers in biologic behavior of these lesions.

Method and material: Twenty cases of KOTs and twenty cases of DCs were selected and analyzed by Immuno histo chemistry. Immuno expression and distribution pattern were semiquantitatively scored.

Result: Most DCs, showed continuous and more than 50% staining for collagen IV in the basement membrane, where ase in most of KOTs abserved discontinuous and lessthan 50% staining for collagen Iv. MMP-9 was expressed in both epithelial and mesenchymalcells in all case of KOTs and DCs. But expression of MMP-9 showed high score in KOTs.

Conclusion: These results demonstrate that the MMP-9 hasimportantrole in collagen IV degradation, contributing to KOTs's behavior is more aggressive than DCs. So MMP-9 and collagen IV are important markers for determine of difference in biologic behavior of KOTs and DCs.

Biography

Elahe Soufianis Undergraduate student of khorasgan Islamic Azad University (Isfahan-iran) of dentistry. She has an oral presentation in international periodontology congress (2013-iran, Tehran) and poster presentation in oral and maxillofacial pathology congress (2013-iran, Tehran)

elahesoufian@yahoo.com