

Proliferative activity of follicles surrounding third molars and canines

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Objective: To compare the proliferative activity of dental follicles surrounding impacted maxillary canines and mandibular third molars.

Study Design: Follicles of the impacted mandibular third molars (n:40) and maxillary canines (n:40) were removed and their epithelial proliferative activity was assessed using immunohistochemical labeling for Ki-67, minichromosome maintenance 2 (MCM-2) protein and epithelial growth factor receptor (EGFR).

Results: The lining epithelium of the maxillary canine follicles had mean scores of 4.65 ± 0.27 for Ki-67, 1.25 ± 0.33 for MCM-2 and 7.30 ± 0.23 for EGFR which were similar to those expressed in the mandibular third molar follicles (4.46 ± 0.26 for Ki-67, 1.39 ± 0.33 for MCM-2 and 7.21 ± 0.20 for EGFR). EGFR expression (the other two marker were not detected), detected in the epithelial remnants in both groups, was not significantly different (7.28 ± 0.14 in the canine group as opposed to 7.21 ± 0.16 in the third molar group).

Conclusion: Impacted mandibular third molars and maxillary canines carry similar risk of pathology development.

Biography

Nurgül Kömerik completed her DDS degree at the Dental School of Ankara University, Ankara, Turkey in 1992. She obtained her PhD degree at the University Collage London, Eastman Dental Institute, London, UK in 2001. Besides presentations in numerous national and international congresses, she has published many articles for her credit in reputed national and international journals. Dr. Kömerik has reviewed articles submitted to various journals in Turkey and abroad. She is the sole author of text book titled "Oral, Dental, Jaw Surgery" published by Nobel Medical Publishers, Istanbul, Turkey in 2009. She is currently practicing and teaching at the Oral Maxillofacial Surgery, Suleyman Demirel University Dental School, Isparta, Turkey in addition to pursuing an MSc degree in Healthcare Management at the Hacettepe University, Ankara, Turkey.

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