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## High prevalence of HPV in odontogenic cysts

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**Introduction:** Human papilloma virus is one of the DNA viruses which seems to be a causative factor in benign and malignant epithelial proliferation by synthesis of special oncoproteins so that they are considered as etiologic or cofactors in odontogenic cysts. Up to now, limited studies evaluated the presence of this virus in odontogenic cysts and tumors and also their conflicting results made it hard to conclude. Further studies are needed to make a rational hypothesis related to the role of these viruses in the development of odontogenic lesions.

**Aim:** The aim of this study was to evaluate the presence of HPV in odontogenic cysts.

**Material & Method:** 85 cases of odontogenic cysts from archive of oral and maxillofacial pathology department of Mashhad Dental School were collected. All cases were deparaffinized and subsequently hydrated and after that DNA was extracted from specimens. By PCR technique the presence of HPV was evaluated.

**Results:** 85 odontogenic cysts were evaluated in our study including 20 periapical cysts, 20 dentigerous cysts (DC), 25 calcifying odontogenic cysts (COC) and 20 odontogenic keratocysts (OKC). Regarding to our results, prevalence of HPV in periapical cyst were 15%, in OKC 25%, in DC 15%, in COC 24% (Ia 18.18%, Ib 25%, Ic 16.6%, II 50%). Statistical analysis showed that there is a statistically significant difference regarding to prevalence of HPV only between COC Ia, Ib, Ic types.

**Conclusion:** According to high prevalence of HPV in odontogenic cysts, we concluded that these viruses may have a role in etiology and pathogenesis of these lesions.

## Biography

Mohammad Amin Khajavi has completed his DMD degree from the Faculty of Dentistry at Mashhad University of Medical Sciences. After working a short time, he entered the Post-graduate Periodontics Program at Mashhad Dental School. He has published several papers in dental journals and presented at various conferences.

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