

# Association between human papilloma virus and laryngeal masses

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## Abstract

**Background:** The Human Papilloma Virus can play a role in the development of head and neck tumors such as oropharyngeal tumors.

Nevertheless, a real impact between Human Papilloma Virus and other head and neck sites such as the larynx is not well studied.

**Objectives:** The aim of the study is to assess the association of Human Papilloma Virus (HPV) and laryngeal tumors in a sample of our patients.

**Patients and Methods:** A prospective, case control study, in which a random samples of 34 patients who have laryngeal masses. In a period of November 2017 to December 2018 collected from the Department of Otolaryngology, Basra Teaching Hospital. These patients evaluated by questioner according to gender, age, marital status, full medical history, and examination. A biopsy then is taken for histopathology study to confirm presence of tumors or other lesions. Malignant tumors evaluated according to staging and grading systems. All lesions submitted for presence of HPV by Immunohistochemistry (IHC) study. The results evaluated for an association between HPV and type of lesions and other variables.

Statistical studies were done using SPSS v.23.

**Results:** The study reveals that there was HPV infection in 30% of patients' sample. Moreover, HPV was found 30% of laryngeal squamous cell carcinoma and in 30% of benign lesions. Statistical tests shows there were no significant association between the HPV and Laryngeal squamous cell carcinoma.

**Conclusion:** Although there were a thirty percent of patients had HPV infections ,but there were no significant association between HPV and laryngeal malignant tumors .A larger epidemiologic and more multi-centric , case control studies with larger samples are mandatory for evaluate the true prevalence of HPV infection in the mucosa of larynx and laryngeal malignancies.

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