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### HPV subtypes in patients with cholesteatoma in Central Greece

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**Statement of the problem:** Cholesteatoma is a non neoplastic cystic tumor of the middle ear. Although there is no clear evidence of the pathogenesis of cholesteatoma, there is a possibility a lot of microorganisms, especially Human Papilloma Virus, play a significant role in certain types of cholesteatoma. The purpose of this study is to evaluate the prevalence of HPV genome in the middle ear cavity of patients with cholesteatoma, and to identify the different HPV subtypes.

**Methodology & Theoretical Orientation:** Specimens of cholesteatoma tissue from 62 patients, during the period 2002-2017, were studied. After the abstraction of the DNA from Formalin-Fixed Paraffin-Embedded Tissue (FFPET), viral detection and identification of the different HPV subtypes (6, 11, 16, 18, 31, 33, 35, 39, 42, 43, 44, 45, 51, 52, 56, 58, 59, 68) has been assessed by the method of real time polymerase chain reaction (Real-Time PCR).

**Findings:** Among 62 patients with cholesteatoma, 30 patients were positive for HPV genome (48,3%). Specifically, 28 out of 62 patients were positive for the high risk HPV types 16, 18, 31, 51, 59 (45,1%), and 9 out of 62 patients were positive for low risk HPV types 6 (14.5%). Co-presence of more than one subtypes was detected in seven patients. Actually, 25 patients were found with HPV16, one with HPV 18, one with HPV 31, one with HPV 51, one.

#### Biography

E Petinaki is a Clinical Microbiologist, Professor and Head of Department of Microbiology of the University Hospital/Medical School of University of Thessaly in Larissa (Central Greece). Her research interest is focused on the epidemiology of nosocomial infections, on the characterization of mechanisms of antimicrobial resistance and on the application of molecular methods for the identification of etiological agent of infectious diseases. She is responsible for the teaching of Microbiology in several Under-graduate and Post-graduate programs of Greek Universities and she is Coordinator in many national research studies.

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