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The evaluation between genetic factors & gingival overgrowth

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Multi-drug resistance P-glycoprotein (P-gp), which is produced by the 1 gene and is a member of the ABC transporter protein family and connected to ATP, is involved in the transmembrane transport of numerous hydrophobic, cationic, amphoteric, and xenobiotic compounds. The main goal of this study was to establish a connection between the Multi Drug Resistance 1 Gene and gingival overgrowth (such language should be kept in the introduction). A cross-sectional epidemiologic examination evaluated laboratory, clinical, and historical data on the illness, as well as histological parameters and the usage of calcium antagonists. P-glycoprotein (P-GP) was found in gingival tissues, and the drug resistance variants G2677T/A and C3435T polymorphism were identified. 12 patients (30%) exhibited clinically severe gingival overgrowth, while 28 patients (70%) had minor gingival overgrowth. This drug-related side effect was connected with the MDR1 2677G or G/TA genotype (P.002) but not with the variant genotype T/TA. Patients treated with calcium antagonists exhibited substantially deeper gingival than their drug-free counterparts (P.0002). The association between this medication effect and higher C-reactive protein levels was demonstrated by multiple regression analysis with adjustment for the periodontitis risk variables (age, sex, smoking, education, and employment) (P.0002). The matched-pair analysis supported the connection between probing depth and the MDR1 polymorphism (P=.0002). Obviously, self-performed sustenance has an impact on the reduction of gingival overgrowth. Particularly in patients who possessed the polymorphism for multiple medication resistance (C3435T).

Recent publications

1. Panahi, Omid. (2020). Diagnosis and management of complications of implant surgery.
2. Panahi, Omid. (2019). Stem Cells & Modern Dentistry.
3. Panahi, Omid & tayebi, Soudeh. (2019). Dental implants: success or failure?. 8. 66. 10.4172/2161-1122-CB-051.

Biography

Omid PANAHÄ°, graduated from Centro Escolar University in 2013 in the field of Doctor of Dental Medicine (DMD), MSc in Oral and Maxillofacial Surgery at Yeditepe University, Istanbul, Turkey. He did Master of Business administration Management (MBA) major in health-care Management at the University of the People, California, USA.

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