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Analysis of -1082 IL-10 gene polymorphism in Iranian patients with generalized aggressive periodontitis

Mellati, E.^a, Arab, H.R.^b, Tavakkol-Afshari, J.^b, Ebadian, A.R.^b, Radvar, M.^{ac}^a Department of Periodontology, Dental Research Center, Mashhad University of Medical Sciences, Mashhad, Iran^b Department of Immunogenetic, Bu-Ali Research Institute, Mashhad University of Medical Sciences, Mashhad, Iran^c Department of Periodontology, School of Dentistry, Mashhad University of Medical Sciences, Mashhad, Iran

Abstract

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Background: Periodontitis is a multifactorial disease and its severe forms, such as aggressive periodontitis, are suggested to have a genetic basis. Among the genetic factors, polymorphisms in cytokine genes have recently been described in susceptibility to periodontitis. IL-10 is a multifunctional cytokine thought to play a role in the pathogenesis of periodontitis. A substitution G/A polymorphism in the promoter region of the IL-10 gene at position -1082 has been associated with different amounts of IL-10 production. The aim of the present study was to investigate the possible links between -1082(G/A) polymorphism of the IL-10 gene and the generalized form of aggressive periodontitis. Material/Methods: This study included 52 Iranian Khorasanian (north-east province of Iran) subjects suffering from generalized aggressive periodontitis referred to the Periodontology Department of Mashhad Dental School. They were compared to 61 age and sex-matched healthy controls of the same race. DNA was isolated from peripheral blood cells and genotyping was performed by means of the amplification refractory mutation system polymerase chain reaction (ARMS-PCR) method. Data were analyzed using the chi-squared test. Results: There was no marked difference in genotype frequencies between the controls and generalized aggressive periodontitis patients ($p=0.585$). Moreover, no association between patients and normal subjects was found in their allele frequency ($p=0.329$). Conclusions: We conclude that the polymorphic nucleotide A at position -1082 of the IL-10 gene is not associated with generalized aggressive periodontitis in the Iranian population. © Med Sci Monit, 2007.

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Aggressive periodontitis; ARMS-PCR; Genetic polymorphism; Interleukin-10

Indexed Keywords

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EMTREE medical terms: adult; article; chi square test; controlled study; DNA isolation; female; gene frequency; genetic polymorphism; genotype; human; Iran; major clinical study; male; periodontitis; polymerase chain reaction

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