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Tumour necrosis factor α -308 promoter polymorphism in patients with rheumatoid arthritisRezaieyazdi, Z.^a, Afshari, J.T.^b, Sandooghi, M.^c, Mohajer, F.^b^a Department of Internal Medicine, Ghaem Hospital, Mashhad University of Medical Sciences (MUMS), Mashhad, Iran^b Immunogenetic and Tissue Culture Department, MUMS, Bu Ali Research Institute, Mashhad, Iran^c MUMS, Ghaem Hospital, Mashhad, Iran

Abstract

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There are controversial reports that TNF- α promoter polymorphism may be an independent marker of susceptibility to rheumatoid arthritis (RA). We used Polymerase chain reaction amplification and Restriction fragment length polymorphism for analysis of the polymorphism at position -308 in promoter of TNF- α gene in 34 patients with RA and 30 healthy individuals. Distribution of TNF- α genotypes in RA patients did not differ from that in controls. Moreover, there was apparent association between the -308 TNF- α polymorphism and erosions in hand x-Ray was found (P value = 0.043). We suggest that TNF- α -308 promoter polymorphism is not a genetic risk factor for RA susceptibility but may be associated with radiographic damage in rheumatoid patients. © 2007 Springer-Verlag.

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Indexed Keywords

EMTREE drug terms: tumor necrosis factor alpha

EMTREE medical terms: adult; article; clinical article; comparative study; controlled study; disease predisposition; gene amplification; genetic polymorphism; genetic risk; genotype; human; polymerase chain reaction; priority journal; promoter region; radiography; restriction fragment length polymorphism; rheumatoid arthritis; risk factor; X ray

MeSH: Alleles; Arthritis, Rheumatoid; Case-Control Studies; DNA; DNA Primers; Gene Frequency; Genetic Predisposition to Disease; Hand; Humans; Nucleic Acid Amplification Techniques; Polymerase Chain Reaction; Polymorphism, Genetic; Polymorphism, Restriction Fragment Length; Promoter Regions, Genetic; Risk Factors; Severity of Illness Index; Tumor Necrosis Factor-alpha; X-Rays

Medline is the source for the MeSH terms of this document.

Chemicals and CAS Registry Numbers: DNA, 9007-49-2; DNA Primers; Tumor Necrosis Factor-alpha

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