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## Association between the polymorphism of TGF- 1 gene promoter (-509C&gt;T) and idiopathic chronic urticaria

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## Abstract

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Idiopathic Chronic Urticaria (ICU), the most common form (70-80%) of chronic urticaria is supposed to have immune basis causes. It is speculated that the promoter polymorphism of TGF- 1 gene may be involved in ICU. This condition is thought to affect at least 0.1% of the population and often can be severe and difficult to treat. A total of 40 patients with ICU and 41 normal subjects were studied. DNA was extracted from whole blood and TGF- 1 promoter -509C>T polymorphism was determined by PCRFLP method. Out of the 40 patients with ICU, 11 (27.5%) had CC, 26 (65%) had CT and 3 (7.5%) had TT genotypes. A higher proportion of case subjects with the C allele (CT type or CC type) was found compared with the T allele. These results do suggest an influence of genetic variability at the promoter of TGF- 1 gene (-509C>T) on the occurrence of ICU. This polymorphism has been shown as a useful genetic change in our study. Further work is required to confirm this result. Copyright© 2006, Iranian Journal of Allergy, Asthma and Immunology. All rights reserved.

## Reaxys Database Information

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## Author keywords

Polymorphism; TGF- 1 gene; Urticaria

## Indexed Keywords

EMTREE drug terms: transforming growth factor beta1

EMTREE medical terms: adult; article; chronic urticaria; clinical article; controlled study; DNA extraction; DNA polymorphism; female; gene frequency; genetic association; genetic variability; genotype; human; idiopathic disease; male; polymerase chain reaction; promoter region; restriction fragment length polymorphism; single nucleotide polymorphism

MeSH: Adult; Case-Control Studies; Female; Humans; Iran; Male; Polymorphism, Single Nucleotide; Promoter Regions (Genetics); Promoter Regions, Genetic; Transforming Growth Factor beta1; Urticaria

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

Chemicals and CAS Registry Numbers: Transforming Growth Factor beta1

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