

عنوان مقاله:

Survey of Interleukin 10 Gene Promoter Polymorphisms at Position -592 (A/C) and -1082 (A/G) in Type 2 Diabetes Patients in Northwest Iran

محل انتشار:

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خلاصه مقاله:

Background and Objective: Today diabetes is one of the most prevalent noncontagious diseases around the world. There is strong evidence showing inflammatory reactions play a crucial role in initiating this disease. Interleukin 10 is one of the most significant anti-inflammatory cytokines. Thus the present study was conducted to investigate the relationship between Interleukin 10 gene polymorphisms -592 A/C and -1082 A/G and susceptibility to type 2 diabetes patients (T2D). **Materials and Methods:** In this study 75 T2D patients and 75 healthy controls were selected. DNA extraction was carried out and then the genotype in the -592 A/C and -1082 A/G positions were determined using PCR-RFLP while chi squared (χ^2) was used as the statistical method for data analysis. **Results:** The frequency of genotype AC and CC in the -592 A/C position was significantly higher in type 2 diabetes patients compared to healthy controls ($p < 0.05$). **Conclusions:** The high frequency of C allele in -592 A/C can be considered as a predisposing factor for type 2 diabetes.

کلمات کلیدی:

Key words: Type 2 diabetes, Polymorphism, Interleukin 10

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