

## عنوان مقاله:

The Association between C19FT and GW99A Polymorphism of XRCC1 Gene and Susceptibility to Gastric Cancer in Population from Western Iran

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### خلاصه مقاله:

Background: Gastric cancer is one of the most common malignancies in the world. It may result from a defect in the genes involved in DNA repair. One of the essential genes in the repair pathway is the XRCC1 gene that its polymorphisms in the human population play a role in gastric cancer susceptibility. The main purpose of this study was to investigate the association of 19FC/T and W99G/A polymorphisms of the XRCC1 gene with gastric cancer in an Iranian population. Materials and methods: A total of FF patients with gastric cancer and FY control individuals were enrolled in our study. Following DNA extraction from blood samples, polymorphisms were analyzed by polymerase chain reaction-restriction fragment length polymorphism (PCR-RFLP) assay. Results: The allele frequencies of C/T of XRCCI-19FC/T in the control and patients groups were AT.IV% and YI.Y9%, respectively. Moreover, The allele frequencies of G/A of XRCCI-m99G/A in control and patient groups were \$5.37% and \$7.3%, respectively. Our results indicated a significant positive association between the distribution T/C alleles and the risk of gastric cancer (XY: ۵.۳Y and  $P=\circ.\circ Y$ ), but no significant association was found in the distribution G/A alleles ( $\chi Y$ :  $\circ.FY$  and  $P=\circ.FA$ ). Conclusion: Altogether, these findings indicate a positive association between the distribution of 19FT/C alleles of XRCC1 and the .risk of gastric cancer and the presence of the C allele may increase the risk of gastric cancer

**کلمات کلیدی:** PCR, RFLP, SNP, potential markers, DNA repair

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