

عنوان مقاله:

The Significant Association of the dupA and cagA genes of *Helicobacter pylori* with Peptic Ulcer

محل انتشار:

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نویسندگان:

.Hamid Reza Zaratgar Gohardani - Department of Basic Sciences, School of Microbiology Islamic Azad University, Damghan, Iran

.Ehsan Moghanloo - Department of Microbiology and Immunology, School of Medicine, Kashan University of Medical Sciences, Kashan, Iran

.Parisa Badameh - Department of Microbiology, College of Basic Science and Biology, Islamic Azad University Varamin, Iran

.Soheila Rezaei - Department of Molecular Genetics, National Institute of Genetic Engineering and Biotechnology, Tehran, Iran

.Vahid Babaei - Department of Medical Genetics, Iran University of Medical Sciences, Tehran, Iran

.Shahram Teimourian - Department of Virology, Pasture Institute of Iran, Tehran, Iran

خلاصه مقاله:

Background: *Helicobacter pylori* play a significant etiological role in various digestive diseases. Peptic ulcer is caused by *H. pylori*, which destroys the duodenum mucus and is often observed in the individuals consuming tobacco, spicy and heavy meals, alcohol, coffee, and tranquilizers. Several studies have indicated that duodenal ulcer promoting genes dupA and cagA are involved in *H. pylori* etiology. The present study aimed to evaluate the correlation between these genes and peptic ulcer. Methods: In this study, 500 stomach biopsy samples were assessed based on the rapid urease test and polymerase chain reaction (PCR) for *H. pylori* infection, followed by histological and microscopic examinations. Results: The dupA and cagA genes were subjected to PCR. Although dupA showed no significant correlation with peptic ulcer, the cagA genotype had a significant association with peptic ulcer ( $P < 0.05$ ). Similar to the dupA gene, blood group was not observed to be correlated with *H. pylori* infection. Conclusion: According to the results, there are significant correlations between tobacco use ( $P < 0.05$ ), tranquilizer use ( $P < 0.05$ ), and meteorism ( $P < 0.05$ ) with peptic ulcer. In addition, the expression of the cagA and dupA genes was investigated in patients with non-ulcer dyspepsia and peptic ulcer.

کلمات کلیدی:

*Helicobacter pylori*, Peptic ulcer, Real time technique, dupA, cag-A

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