عنوان مقاله:

Alteration of Par, hMLH1, and HERY Gene in Bangladeshi Gastric Cancer Patients: Their Association with H. pylori Infection and Clinicopathological Factors

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خلاصه مقاله:

Background: Gene alterations are required for the development of gastric cancer, which are influenced by environmental and host factors. We conducted the present study to find the status of Helicobacter pylori (H. pylori) infection and its association with altered genes $P\Delta P$, hMLH1, and HERY in gastric cancer patients and to analyze their correlation with clinical, pathological, and environmental factors. Method: This was a cross-sectional study. For genetic (P ΔP and hMLH1) study of the gastrectomized tissue DNA extraction and optimization, we performed PCR amplification and DNA sequencing. HERY was studied by immunochemical technique. The results were matched with tumor status, age and sex, smoking, and H. pylori antibody status of the patients to find their association. Results: The mean age of the patients was $\Delta Y.91$ ($\pm 1P.9F$) years. Among the $F\Delta$ patients selected for genetic tests, $P\Delta P$ aged $P\Delta P$ or more and $P\Delta P$ aged over $P\Delta P$. Among the genes, $P\Delta P$ and $P\Delta P$ and $P\Delta P$ in hMLH1 were mutated and $P\Delta P$ in HERY were found to be overexpressed. Chi square and regression analysis showed that they all had associations with H. pylori positivity ($P\Delta P$). hMLH1 was associated with the location of the tumor, smoking, sex,

blood group, and age, and Par was found to be affected by extra salt intake, sex, blood group, and age of the patients (P ≤ o.oa). Conclusion: Genetic mutation was found in nearly all the patients with gastric cancer, which was significantly associated with H. pylori infection. Mass eradication of this organism might play a role in reducing cancer .incidence in Bangladesh

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