Helicobacter pylori density and expression of gastric mucosal interleukin-8 in dyspeptic patients

Type: Article

Abstract:

Background: The density of the H. pylori colonies is associated with more severe clinical manifestations, chronic infections, ineffective therapy responses and malignant events. Interleukin-8 (IL-8) is one of cytokines that plays a role in the inflammatory process that results in gastric mucosal damage. We determined the association between H. pylori density and gastric mucosal IL-8 expression in dyspeptic patients. Methods: H. pylori density was determined using histopathology based on Updated Sydney System. IL-8 levels were measured using immunohistochemistry from the gastric biopsy. Results: There was significant difference between gastric mucosal IL-8 expression obtained in gastric mucosal gland epithelium (\( p = 0.028 \)) at mild and high density of H. pylori (\( p = 0.013 \)). There was a correlation between H. pylori density with gastric mucosal IL-8 expression of glandular epithelium (\( r = 0.622; \ p = 0.004 \)), surface epithelium (\( r = 0.510; \ p = 0.026 \)), and inflammatory cells (\( r = 0.054; \ p = 0.028 \)). Conclusion: We found a significant positive correlation between H. pylori density and gastric mucosal IL-8 expression in dyspeptic patients.

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