

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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Source	New Armenian Medical Journal
ISSN	18290825
DOI	-
Volume (Issue)	13 (1)
Page	40-47
Year	2019

Keyword:

Gastric mucosa, H.Pylori density, Interleukin-8 expression

Please Cite As:

Ismarini, H., Nusi, I. A., Maimunah, U., Setiawan, P. B., Purbayu, H., Sugihartono, T., . . . Vidyani, A. (2019). Helicobacter pylori density and expression of gastric mucosal interleukin-8 in dyspeptic patients. New Armenian Medical Journal, 13(1), 40-47.

URL:

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