

Association between Endoscopy Findings and the Degree of Inflammation from Biopsy Results in Gastritis Patients

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Abstract:

Objectives: Gastritis is an inflammation of the gastric mucosa which can be acute or chronic. In Indonesia, the incidence of gastritis has reached a number 40.8%. Gastritis may be erosive (superficial, deep, or hemorrhagic) or non-erosive; the latter type is mostly caused by infection with *Helicobacter pylori*. Endoscopy and stomach tissue biopsy are the most accurate screening method in assessing the severity of gastritis and evaluating the risk of metaplasia. Level of inflammatory cell infiltration and *Helicobacter pylori* infection proven to be related to increased risk of gastric cancer. By knowing the pattern of severity gastritis in patients, then the level risk of stomach cancer in an area can be predicted.

Objectives: evaluating the relationship between endoscopy findings and inflammation level in gastritis patients.

Methods: This study uses a retrospective cohort design. Subjects were sampled using consecutive random sampling. Patients with gastritis diagnosis, age 18 - 80 were included in this study. The subject's biopsy material was taken from endoscopy examination. The subject's sample will then be taken to the laboratory to be examined histopathology. Univariate analysis was carried out to measure the frequency distribution. Bivariate analysis was carried out using chi square test.

Results: The average age of the subjects was 47.08 ± 14.46 years old with a range of 19 – 79 years old. There was no statistically significant relationship between degree and activity level, *H.pylori*, atrophic condition, intestinal metaplasia, inflammation level with a p value of 0.353; 0.267; 0.142; 0.512; 0.864. There was also no statistically significant relationship between location and inflammation level with a p value of 0.479.

Conclusion: There were no significant relationship between endoscopy findings and the degree of inflammation from biopsy results in gastritis patients.

Keywords:

Endoscopy findings, gastritis, degree of inflammation.