

Detection of Helicobacter Pylori with Rapid Urease Test in Laryngopharyngeal Reflux Patients (LPR)

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Abstract

Background: Laryngopharyngeal reflux (RLF) is a backflow of gastric acid to the area of the larynx, pharynx, trachea, bronchi that causes contact with the upper aerodigestive tract tissue that causes injury to the laryngopharynx. Allegedly Helicobacter pylori contained in stomach acids play a role in the emergence of laryngopharyngeal infections.

Objective: To detect Helicobacter pylori (Hp) in the laryngeal mucosa of patients with RLF by using a rapid urease test.

Methods: This was a cross-sectional study conducted on 78 RLF patients. Determination of RLF patients by using Reflux Symptom Index (RSI) and Reflux Finding Score (RFS). Biopsy was performed on the laryngeal mucosa of patients with RLF. The tissue is then examined with a Hp Urease Test. Data analysis using the Chi-Square test with a significant test result if p < 0.05 and using the Mann-Whitney test with a significant test result if p < 0.05 and using a spearmen correlation test with a significant test result if p < 0.05.

Result: The results was found 52 samples of LPR patients (66.7%) with Hp urease test positive and 26 samples (33.3%) with Hp urease test negative . The average value of RSI and / or RFS is higher on positive Hp test results than negative Hp test results (p < 0.05). The higher the RSI value, the higher the RFS value in patients with RLF (p = 0.000). There are differences in complaints and laryngeal abnormalities of patients with RLF between positive Helicobacter pylori test results and negative Helicobacter pylori test results.

Conclusion: There is a significant relationship between RSI and / or RFS values on the results of laryngeal Hp urease test in patients with RLF. **Keywords**: Helicobacter pylori (Hp), Laryngopharyngeal reflux (RLF), Rapid urease test, Reflux Symptom Index (RSI), Reflux Finding Score (RFS).



Biography

Amsyar Akil is an ORL specialist, has his expertise in evaluation of LPR in improving the health and quality of live. He works as a consultant both in the teaching hospital and education institutions.

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