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Home-Made Rapid Urease Test Compared with Commercial Kit for Diagnosis of Helicobacter pylori Infection

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Abstract

Objective: To evaluate the sensitivity and specificity of home-made rapid urease test compared with commercial kit for diagnosis of Helicobacter pylori infection.

Material and Method: A cross-sectional study of patients who underwent esophagogastro-duodenoscopy from June 2009 to May 2010 was carried out. Gastric biopsy specimens were taken from antrum and body of the stomach for homemade rapid urease testing, commercial kit (hpfast) urease testing, and histological study.

Results: One hundred and ninety nine patients were included in the present study. The sensitivity of home-made rapid urease test and hpfast were 40% and 48.5% at 1 hour and 91.4% and 91.4% at 24 hours. The specificity, positive and negative predictive value and accuracy of home-made rapid urease test vs. hpfast were 100% vs. 100%, 100% vs. 100%, 95.5% vs. 95.5% and 96.9% vs. 96.9% respectively. Furthermore 45.3% of home-made rapid urease test and 54.7% of hpfast showed positive results within 1 hour.

Conclusion: Home-made rapid urease test has good sensitivity and specificity comparable to commercial kit for the diagnosis of H. pylori infection.

Keywords: Helicobacter pylori, Home-made rapid urease test, Hpfast, Diagnostic test

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