

# THE NEW OPTIMIZED RAPID UREASE TEST IN DIFFERENT AGE GROUPS



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➡ **Abstract:** One of the methods of invasive using endoscopically obtained gastric biopsy specimens to determination of *Helicobacter pylori* (HP) is rapid urease test (RUT). Correlation of sensitivity and specificity for different age groups is important characteristic of the new optimized rapid test.

➡ **Materials and methods:** The biopsy specimens were taken from two age groups of patients by endoscopic procedure. One group has 52 (18-70 years) adults and another has 67 (4-17) children. Biological specimens were studied by histological examination and New rapid urease tests (fig.1). Also for determination of HP was used quantitative serological express method.

In cases of a discrepancy, concordance of the results of two methods was accepted as reliable result.

➡ **Results:** In cases of group with adults patient has positive 41 RUT test and 9 negative, 33 HP positive cases were ratified by histological and serological methods. For children's group was 46 positive (44-ratified positive) and 21 negative patients.

New test rapid system	Adults	Children
Specificity,%	88	85
Sensitivity,%	89	89
Accuracy,%	86	88

➡ **Conclusion:** The new rapid urease test-system has high diagnostic characteristics. This test can be used for determination of *H.pylori* in adults and children’s medicals centers.



Fig.1

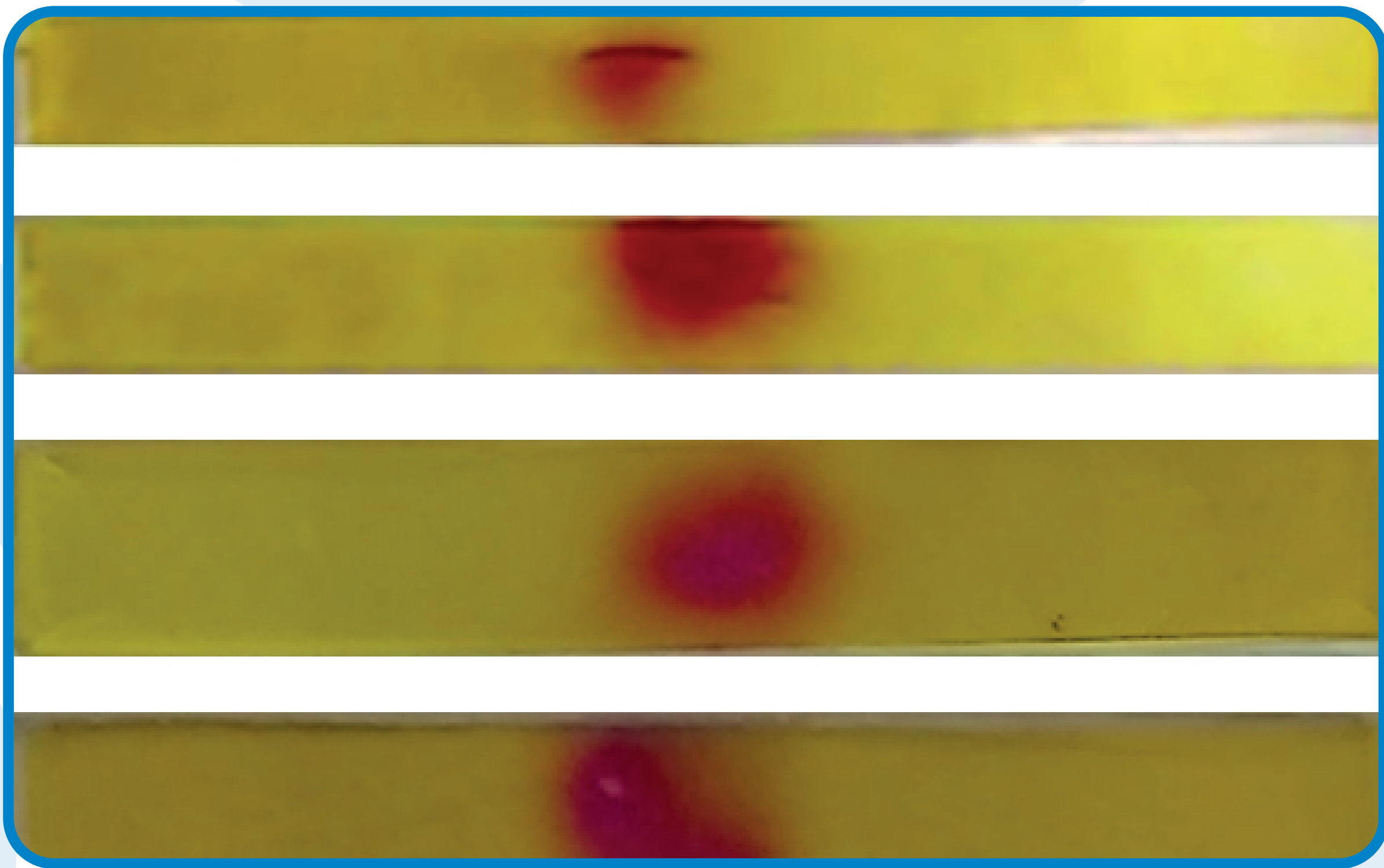


Fig.2