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The *cagA* and *vacA* genes of *Helicobacter pylori* antibiotics resistance isolated from gastritis and peptic ulcer pediatric patients in Vietnam

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Statement of the Problem: *Helicobacter pylori* (*H. pylori*) antibiotics resistance is the major cause of failure in eradicating *H. pylori*. Recent studies have showed that the virulence genes associated with *H. pylori* antibiotics resistance have been isolated from adult peptic ulcer patients. To date, however, there is still lack of evidence about this in Vietnamese pediatric children. The objective of this study is to evaluate the association between *H. pylori* antibiotics resistance and the presence of *cagA* and *vacA* genes in pediatric patients.

Methodology & Theoretical Orientation: 150 samples of *H. pylori* isolated from 150 infected pediatric patients whose antimicrobial susceptibility showed a resistance to at least 1 of 3 antibiotics: amoxicillin, clarithromycin and metronidazole. *cagA* and *vacA* genes were detected by using multiplex PCR (Polymerase Chain Reaction), between January, 2012 through September, 2013 at National Hospital of Pediatrics, Hanoi, Vietnam.

Findings: The result showed that the *cagA* gene was detected in 34% *H. pylori* strains. The rate of *vacAs1*, *vacAs2*, *vacAm1*, *vacAm2*, *vacAs1/m1*, *vacAs1/m2* and *vacAs2/m2* were 39.3%, 14.7%, 37.3%, 23.3%, 16.7%, 11.3% and 6.6% respectively. 8% strains harbor three virulence genes *cagA*, *vacAm1* and *vacAs1*.

Conclusion & Significance: 34%

Notes: