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Primary antibiotics resistance of *Helicobacter pylori* isolated from Peptic Ulcer children at National Pediatric Hospital, Hanoi, Vietnam

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Statement of the Problem: *Helicobacter pylori* (*H. pylori*) is the major cause of peptic ulcer disease (PUD) in children. Treatment of *H. pylori* induced PUD is challenging due to antibiotics resistance. The objective of this study is to evaluate the prevalence of antibiotic resistance in *H. pylori* strain isolated from PDU children in National Pediatric hospital in 2017 in Vietnam. Methodology & Theoretical Orientation: 165 children had symptoms of gastro-duodenal disease with no history of eradication of *H. pylori*, were included in the present study. By gastric endoscopy, we performed biopsy, and dyed *H. pylori* shed for histopathology,. We conduct *H. pylori* culture to examine antibiotic resistance of *H. pylori* to clarithromycin, levofloxacin, amoxicillin, tetracycline and metronidazole. were performed according to a standardized protocol using Etest strips The study was conducted from January 2017 through December 2017 in National hospital of Pediatrics, Hanoi, Vietnam. Findings: We observed 163 strains (98.8%)with primary antibiotic-resistant *H. pylori*. Resistance to clarithromycin was the

most predominant with the highest proportion of 97%. Resistance to amoxicillin, metronidazole, levofloxacin and tetracycline were 51.5%, 66.1%, 9.7% and 0.6 %, respectively. Co-resistance to 2 antibiotics was observed among 64.8% for clarithromycin and metronidazole, and 31.5% for amoxicillin and metronidazole. Triple resistance to amoxicillin, clarithromycin, and tetracycline was as low as 0.6%. Since primary antibiotic resistance of *H. pylori* children on peptic ulcers are common, it is necessary to the use antimicrobial susceptibility test before prescribing antibiotics in order to improve the effectiveness of *H. pylori* eradication.

Speaker Biography

Thi Ut Nguyen is a pediatrician. She is working as gastroenterologist in Gastroenterology department of the National Pediatric Hospital. She has conducted several studies on *Helicobacter pylori* antibiotics resistance and virulence of gastritis and peptic ulcer among children.

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