



Role of *Helicobacter pylori* in the pathogenesis of infantile hypertrophic pyloric stenosis

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ABSTRACT

Objectives: To investigate the possible correlation between infantile hypertrophic pyloric stenosis (IHPS) and *Helicobacter pylori* infection. **Materials and Methods:** In a case-control study, 20 infants with confirmed IHPS (Group 1) and 30 age-matched healthy infants (Group 2) were enrolled for the assessment of *H. pylori* infection. Serological testing of anti-*H. pylori* antibody (IgG) was performed preoperatively on all infants and their mothers. Also, *H. pylori* stool antigen test (HpSA) was carried out preoperatively on all infants in both groups. Statistical analyses were performed with Chi-square test, Fisher's exact test, Mann-Whitney U test, and Independent-Samples T test. **Results:** There were 20 patients in group 1 (18 boys, 2 girls) and 30 infants in group 2 (30 boys). The mean age in groups 1 and 2 were 42.40 ± 18.09 days and 44.67 ± 12.65 days, respectively. The numbers of positive HpSA and positive anti-*H. pylori* antibody both in infants and mothers were comparable between the two groups ($P > 0.05$). The median titres of *H. pylori* stool antigen were not comparable between the two groups (0.20 ng/dL in group 1 vs 0.57 ng/dL in group 2; $P = 0.02$). **Conclusions:** *H. pylori* does not seem to be in a causative linkage with IHPS.

Key words: Aetiology, *Helicobacter pylori*, infantile hypertrophic pyloric stenosis

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