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Manuscript Title:

Current status of therapy for *Helicobacter pylori* infection and risk factors of eradication failure in Eastern China

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Abstract:

Background/Aim: The *H. pylori* eradication rate is decreasing in the general population of China. This study aimed to evaluate the *H. pylori* eradication situation in real-world clinical practice and to explore factors related to eradication failure.

Methods: Patients with *H. pylori* infection who were treated with standard 14-day quadruple therapy and received a test of cure at a provincial medical institution between June 2018 and May 2019 were enrolled. Demographic and clinical data were recorded. Eradication rates were calculated and compared between regimens and subgroups. Multivariate analysis was performed to identify predictors of eradication failure.

Results: Of 2610 patients enrolled, eradication was successful in 1999 patients (76.6%). Amoxicillin containing quadruple regimens showed a higher eradication rate than other quadruple therapy regimens (83.0% vs. 69.0%, $P < 0.001$). The quadruple therapy containing amoxicillin plus clarithromycin achieved the highest eradication rate (83.5%). Primary therapy had a higher eradication rate than rescue therapy (78.3% vs. 66.5%, $P < 0.001$). In rescue therapy, the amoxicillin plus furazolidone containing regimen achieved the highest eradication rate (80.8%). Esomeprazole-containing regimens showed a higher eradication rate than those containing other...

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