개방형 위축성 위염과 장상피화생 및 Cdx2 발현과의 연관성

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Open-type Atrophic Gastritis is Related to Intestinal Metaplasia and Cdx2 Expression

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Background and Aim: Long-term Helicobacter pylori infection results in atrophic gastritis and intestinal metaplasia with Cdx2 expression. We tried to determine if there was a link between endoscopic and histological diagnoses of intestinal metaplasia based on the status of aberrant Cdx2 expression.

Patients and Methods: One hundred and one subjects who agreed on upper gastrointestinal endoscopic examination before and after the treatment were included. On endoscopic examination, atrophic gastritis was defined as discoloration with blood vessel transparency, and was classified as either closed or open. Metaplastic gastritis was defined by the presence of whitish patches, whitish plaques, and/or homogeneous whitish discoloration. Histologic analysis was performed to determine H. pylori density, intensity of acute polymorphonuclear cell infiltrates, and chronic mononuclear infiltrates, gastric atrophy, and intestinal metaplasia (IM) as demonstrated using immunohistochemistry for Cdx2.

Results: Cdx2 expression (p=0.018) and the prevalence of histologically detected IM (p=0.011) were higher in cases of endoscopically diagnosed open-type atrophic gastritis and metaplastic gastritis than in closed-type atrophic gastritis and nonatrophic/nonmetaplastic cases. The degree of activity (p=0.006) and inflammation (p=0.007) improved significantly after 4 weeks of successful H. pylori eradication treatment, whereas the degree of atrophy, metaplasia, and Cdx2 expression did not.

Conclusion: Unlike the endoscopic diagnosis of closed-type atrophic gastritis, that of open-type atrophic gastritis is highly correlated with the histological diagnosis of IM and Cdx2 expression. Endoscopically diagnosed open-type atrophic gastritis and endoscopically diagnosed metaplastic gastritis show similar histological features, which suggests that a considerable percentage of IM cases are diagnosed as open-type atrophic gastritis through endoscopic examination.

색인단어: Cdx2, 장상피화생, 위축성 위염, 헬리코박터

Key Words: Cdx2, Intestinal metaplasia, Atrophic gastritis, Helicobacter pylori