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Metastasis-Associated Protein S100A4 and p53 Predict Relapse in Curatively Resected Stage III and IV (M0) Gastric Cancer

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Abstract

Purpose: Pathologic stage is the most important predictive factor of relapse in gastric cancer after curative resection. However, patients with the same stage often have different risks of relapse. Here, we investigated whether the expressions of molecular markers can supplement the current staging system in terms of relapse prediction.

Patients who had received curative resection and adjuvant chemotherapy for gastric cancer (n = 100) were included in this study. The overall survival rate was 50%. The overexpression of S100A4 and p53 were found in 10% and 10% of patients, respectively. The overexpression of S100A4 and p53 were found to be predictive factors for relapse. The overexpression of S100A4 and p53 were found to be predictive factors for relapse.

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expression was significantly associated with a higher relapse rate (85% vs. 53%, $p = 0.008$). In multivariate analysis including tumor stage, S100A4 and p53 expression were independent predictive factors of relapse (relative risk, 6.98; 95% confidence interval [CI], 1.608-30.342, 3.49; 95% CI, 1.328-9.186, respectively). On comparing patients who expressed S100A4 or p53 with those who expressed neither, relapse rates were 58% vs. 25% in stage III ($p = 0.011$) and 95% vs. 59% in stage IV (M0) ($p = 0.003$). Conclusion: In addition to staging system, the expressions of S100A4 and p53 were significant predictive factors of relapse in gastric cancer after curative resection and adjuvant chemotherapy.

Keywords: Gastric cancer Relapse Immunohistochemistry S100A4 p53

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