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

Yu Jung Kim, Min A Kim, Seock-Ah Im, Tae Min Kim, Dong-Wan Kim, Han-Kwang Yang, ... show all

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markers examined, p53 and S100A4 were expressed only in tumor tissues, and S100A4 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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