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The Estimation of Gastric Cancer Disease Status Using Array-Based Comparative Genomic Hybridization for Endoscopic Biopsy Specimens: Preliminary Experience (CGH for Gastric Cancer Biopsy)

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Abstract
We used an aCGH mini-chip specific to gastric cancer for endoscopic biopsy specimens of gastric cancer to estimate the systemic disease status of the cancer before treatment. We employed the aCGH mini-chip to examine pretherapeutic endoscopic biopsy specimens of 32 gastric cancer lesions from 31 cases. The accuracy levels of the aCGH mini-chip for gastric cancer biopsy specimens were 44% for lymph node metastasis, 80% for liver metastasis, 76% for peritoneal dissemination, and 68% for invasion depth. The aCGH mini-chip was applicable for endoscopic gastric cancer biopsy specimens. It may contribute the therapeutic decision making with automatic evaluation of systemic gastric cancer disease status.
Abbreviation: aCGH, array-based comparative genomic hybridization
Key words: Comparative genomic hybridization, Gastric cancer, Endoscopic biopsy