

Investigation of intra-arterial chemotherapy infusion and embolization combined with abdominal chemotherapy for advanced gastric cancer

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Abstract

AIM: To explore the feasibility and clinical benefit of intra-arterial chemotherapy infusion and embolization (GAI + GAE) combined with abdominal chemotherapy for advanced gastric cancer.

METHODS: Ninety-eight patients with advanced gastric cancer were randomized into three groups according to gender, age, pathological classification, and clinical staging. Group A was treated with GAI + GAE combined with abdominal chemotherapy, Group B with abdominal chemotherapy, and Group C with intravenous chemotherapy. Group A was followed up for gastric mucosa change by gastroscopy.

RESULTS: The response rate for Group A, B and C was 71.88%, 38.71% and 14.29%, respectively. The median survival duration for Group A, B and C was 16, 10 and 8 mo, respectively. The response rate and median survival duration of Group A were significantly different from those of Group B ($P < 0.01$) or Group C ($P < 0.01$), 5 patients in Group A had complete remission. The main side effects were gastrointestinal toxicity and inhibition of bone marrow. An injury to gastric mucosa was detected by gastroscopy within 2 wk after treatment in group A. Tissue repair took place by the 2nd week. And normal gastric mucosa returned in 4 wk.

CONCLUSION: GAI + GAE combined with abdominal chemotherapy was an effective modality for advanced gastric cancer.

Key words: Gastric neoplasms/drug therapy; Chemoembolization, therapeutic; Infusions, intra-arterial; Peritoneal cavity; Randomized controlled trials

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