

RESULTS OF USING ADJUVANT PERFUSION CHEMOTHERAPY IN RADICAL TREATMENT OF INFILTRATIVE GASTRIC CANCER

M.Ye. REUTOVICH¹, O.V. KRASKO², A.V. IVANOV³

¹State Educational Establishment «Belarusian Medical Academy of Postgraduate Education,» Minsk, Belarus;

²United Institute of Informatics Problems, National Academy of Sciences of Belarus, Minsk, Belarus;

³N.N. Alexandrov National Cancer Center of Belarus, Minsk, Belarus.

ABSTRACT

Relevance: Given the high biological aggressiveness of infiltrative gastric cancer warranting a need for a multimodal approach to its radical treatment employing adjuvant perfusion thermochemotherapy (HIPEC) and systemic adjuvant polychemotherapy, the goal of the present study was to assess the efficacy and expediency of such an approach.

The study aimed to evaluate the effectiveness of a combination of HIPEC and systemic adjuvant polychemotherapy in patients radically operated on for infiltrative forms of gastric cancer pT4a-bN0-3M0.

Methods: The study examined the long-term results of radical treatment for gastric cancer in 141 patients (pT4a-bN0-3M0, Borrmann type III-IV).

Of them, 18 patients underwent a multimodal treatment, including radical surgery in combination with HIPEC and systemic adjuvant polychemotherapy (ACT) (oxaliplatin 100 mg/m² on day 1 of the cycle), capecitabine 1,000 mg/m² or tegafur 10-15 mg/kg (2 times per day, on days 1-14 of the cycle, with a 7-day break between cycles, 8 cycles) – HIPEC+ACT group. For comparison purposes, we used the data on 55 radically operated patients (surgery control) and 68 other patients who underwent radical surgery in combination with HIPEC (cisplatin 50 mg/m² + doxorubicin 50 mg/m², 42°C, one hour). The long-term treatment results were evaluated using competing risks analysis, the Kaplan-Meier multiplier method, and multivariate analysis (Cox and Fine-Gray models).

Results: The multimodal treatment group showed a decrease in unfavorable outcomes associated with tumor progression ($\beta = -2.14$, RR 0.12, 95% CI 0.04-0.38, $p < 0.001$), a decrease in the risk of carcinomatosis ($\beta = -1.99$, RR 0.14, 95% CI 0.04-0.44, $p < 0.001$), and better five-year survival rates compared to the control groups. The adjusted survival was 81.9±9.5% ($p = 0.003$), the progression-free survival was 82.2±9.3% ($p < 0.001$), and the dissemination-free survival was 81.9±9.3% ($p < 0.001$).

Conclusions: It is advisable to supplement the standard approach for infiltrative gastric cancer (radical surgery and systemic polychemotherapy) with perfusion HIPEC to prolong the remission of the tumor process.

Keywords: gastric cancer, adjuvant hyperthermic intraperitoneal chemotherapy (AHIPEC), adjuvant systemic polychemotherapy (ACT).

Introduction: High invasive and metastatic potential of infiltrative forms of gastric cancer (GC) causes early progression of the tumor process even in radically operated patients [1]. The latter determines the necessity of complex treatment to prevent the development of various variants of cancer progression, both implantation metastases and systemic progression in the form of lymphohematogenous metastasis. The current strategy of radical treatment of locally advanced cancer involves the use of perioperative or adjuvant polychemotherapy (APChT) [2, 3], which cannot prevent the development of metachronous peritoneal dissemination (MPD) due to insufficient effective penetration of chemotherapy from the systemic blood flow into the peritoneal tissue due to the presence of hematoperitoneal barrier. Several recent publications emphasize the excellent use of adjuvant perfusion thermochemotherapy (APTChT) for this purpose [4]. It is also noted the necessity of its com-

bination with APChT to prevent the systemic progression of GC [5-7].

The study aimed to evaluate the effectiveness of a combination of HIPEC and systemic adjuvant polychemotherapy in patients radically operated on for infiltrative forms of gastric cancer pT4a-bN0-3M0.

Materials and methods: The study was conducted at the Republican Scientific and Practical Center of Oncology and Medical Radiology, named after N.N. Alexandrov, in 2008-2021. Data on the treatment results of 141 patients radically operated for GC stage IIB-IIIc (type III-IV according to Borrmann, 1926) were used to prepare this article. In 18 patients, a previously developed comprehensive approach to treatment [5-7], which included, in addition to radical surgery, a combination of APTChT (cisplatin, doxorubicin, 42°C, 1 hour) in combination with 7-8 courses of APChT (oxaliplatin, capecitabine or tegafur) – APTChT+APChT group – was

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