EDITORIAL



Treatment Strategy for Oligometastatic Gastric Cancer: Brief Considerations

Daniele Lavacchi¹ · Elisa Giommoni¹ · Fabio Cianchi^{2,3} · Lorenzo Antonuzzo^{1,3}

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Despite recent advances in gastric cancer (GC) treatment, overall survival (OS) in metastatic disease remains approximately 1 year in patients fit for chemotherapy, and treatment options beyond the second-line are limited [1-3]. However, metastatic GC should be considered a heterogeneous group of diseases with different patterns of metastatic spread and specific molecular subclasses [1, 4]. While patients with high tumor burden and multi-organ metastases will never benefit from locoregional therapies, it is intriguing to contemplate that those with oligometastatic and chemosensitive disease may be candidates for a multimodal strategy [4, 5]. In routinely clinical practice, GC patients who receive surgery for metastases account for around 5% of all metastatic GC cases, but incidence varies across different study populations and definitions [6]. Although no definition of oligometastatic GC has yet achieved a prospective validation, inclusion criteria of arm B (limited metastatic) of the AIO-FLOT3 study with modifications according to the RENAISSANCE trial offer the best proof of concept for further investigation. Limited metastatic disease was defined as the presence of retroperitoneal lymph nodes and/or metastases to a single organ: ≤ 5 metastases in case of liver involvement, unilateral or potentially resectable metastases in case of lung involvement. Diffuse peritoneal involvement was considered extensive metastatic disease, while localized peritoneal metastases (P1 score), unilateral or bilateral Krukenberg tumors, localized bone involvement within one radiation field, unilateral or bilateral adrenal gland metastases, and selected cases of extra-abdominal lymph node metastases

FLOT3 trial showed that patients with limited metastatic GC obtained an OS of 22.9 months (95% CI, 16.5, upper level not achieved). Near 60% of patients underwent surgery and achieved a more favorable outcome, particularly for those with abdominal lymph node metastases only. However, this study was for exploratory purposes and, given the lack of randomization, did not provide a real estimate of the benefit of surgery compared to chemotherapy alone [7]. To address the open questions of the AIO-FLOT3 trial, Al-Batran and colleagues are conducting the phase III RENAISSANCE trial (NCT02578368) in which patients with oligometastatic disease receive FLOT for 4 cycles and are randomized to receive additional 4-8 cycles of FLOT or surgery followed by FLOT for 4-8 cycles. Patients with chemorefractory disease dropped out without proceeding to randomization [8]. In recent years, FLOT regimen has been shown to increase the rate of pathological complete response and improve survival outcomes compared to ECF in perioperative setting, offering an acceptable safety profile as demonstrated by the phase III FLOT4-AIO trial and a large Italian observational study [9, 10].

were included in oligometastatic disease [7, 8]. The AIO-

The RENAISSANCE trial is expected to clarify the role of surgery in the treatment strategy of oligometastatic disease, probably confirming FLOT as the regimen of choice in this setting. However, what is the best chemotherapy regimen in this specific population remains to be investigated. New combinations are changing the first-line treatment of GC. At first, the addition of immune checkpoint inhibitors to standard chemotherapy improved OS compared to chemotherapy alone in specific subgroups of patients [11, 12]. Second, the emerging new drugs directed against HER2 could increase response rate and long-lasting disease control also in patients with previously untreated GC [13]. Third, new genomic landscapes and therapeutic targets could rapidly found an application in the selection of the best frontline treatment for advanced disease [14–16].

- Clinical Oncology Unit, Careggi University Hospital, Florence, Italy
- Unit of Digestive Surgery, Careggi University Hospital, Florence, Italy
- Department of Experimental and Clinical Medicine, University of Florence, Florence, Italy



[☐] Lorenzo Antonuzzo lorenzo.antonuzzo@unifi.it

While awaiting the results of the RENAISSANCE trial, the management of patients with oligometastatic GC deserves a multidisciplinary approach. Consistent with previous studies, frontline chemotherapy represents the major milestone in the treatment of oligometastatic GC. Surgery with curative intent should be considered in highly selected cases with good performance status, favorable tumor response to chemotherapy, and easily accessible lesions [4, 5, 7, 8, 17]. However, the goal of preserving the quality of life deserves great attention; thus, patients with chemorefractory disease, relevant comorbidities, or limited chances of curative resection should not receive surgery. Since palliative gastrectomy has not been shown to prolong survival, it should be offered as little as possible. Alongside the proper clinical selection, further efforts should be made to improve the molecular selection of patients who may benefit from the combined modality treatments [1, 4, 5, 7, 18]. Stimulating results in frontline tailored treatments are expected in the next few years. In this regard, the phase II PANGEA trial has shown remarkable results in patients managed with a personalized approach including chemotherapy in combination with targeted therapies individually optimized on the longitudinal molecular profile [14]. This aspect deserves further investigation in patients with potentially resectable metastatic GC.

Declarations

Conflict of Interest The authors declare no competing interests.

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