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S-1 plus cisplatin versus S-1 alone for first-line treatment of advanced gastric cancer (SPIRITS trial): a phase III trial

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Summary

Background

Phase I/II clinical trials of S-1 plus cisplatin for advanced gastric cancer have yielded good responses and the treatment was well tolerated. In this S-1 Plus cisplatin versus S-1 In RCT In the Treatment for Stomach cancer (SPIRITS) trial, we aimed to verify that overall survival was better in patients with advanced gastric cancer treated with S-1 plus cisplatin than with S-1 alone.

Methods

In this phase III trial, chemotherapy-naive patients with advanced gastric cancer were enrolled between March 26, 2002, and Nov 30, 2004, at 38 centres in Japan, and

randomly assigned to S-1 plus cisplatin or S-1 alone. In patients assigned to S-1 plus cisplatin, S-1 (40–60 mg depending on patient's body surface area) was given orally, twice daily for 3 consecutive weeks, and 60 mg/m² cisplatin was given intravenously on day 8, followed by a 2-week rest period, within a 5-week cycle. Those assigned to S-1 alone received the same dose of S-1 twice daily for 4 consecutive weeks, followed by a 2-week rest period, within a 6-week cycle. The primary endpoint was overall survival. Secondary endpoints were progression-free survival, proportions of responders, and safety. Analysis was by intention to treat. This trial is registered with [ClinicalTrials.gov](https://clinicaltrials.gov/ct2/show/study/NCT00150670), number [NCT00150670](https://clinicaltrials.gov/ct2/show/study/NCT00150670).

Findings

305 patients were enrolled; seven patients were ineligible or withdrew consent, therefore, 148 patients were assigned to S-1 plus cisplatin and 150 patients were assigned to S-1 alone. Median overall survival was significantly longer in patients assigned to S-1 plus cisplatin (13.0 months [IQR 7.6–21.9]) than in those assigned to S-1 alone (11.0 months [5.6–19.8]; hazard ratio for death, 0.77; 95% CI 0.61–0.98; $p=0.04$). Progression-free survival was significantly longer in patients assigned to S-1 plus cisplatin than in those assigned to S-1 alone (median progression-free survival 6.0 months [3.3–12.9] *vs* 4.0 months [2.1–6.8]; $p<0.0001$). Additionally, of 87 patients assigned S-1 plus cisplatin who had target tumours, one patient had a complete response and 46 patients had partial responses, ie, a total of 54% (range 43–65). Of 106 patients assigned S-1 alone who had target tumours, one patient had a complete response and 32 had partial responses, ie, a total of 31% (23–41). We recorded more grade 3 or 4 adverse events including leucopenia, neutropenia, anaemia, nausea, and anorexia, in the group assigned to S-1 plus cisplatin than in the group assigned to S-1 alone. There were no treatment-related deaths in either group.

Interpretation

S-1 plus cisplatin holds promise of becoming a standard first-line treatment for patients with advanced gastric cancer.



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