



Clinical Trial

Health-related quality of life of adjuvant chemotherapy with S-1 versus gemcitabine for resected pancreatic cancer: Results from a randomised phase III trial (JASPAC 01)



Yasuhiro Hagiwara ^a, Yasuo Ohashi ^{b,*}, Katsuhiko Uesaka ^c,
Narikazu Boku ^d, Akira Fukutomi ^e, Yukiyasu Okamura ^c,
Masaru Konishi ^f, Ippei Matsumoto ^g, Yuji Kaneoka ^h,
Yasuhiro Shimizu ⁱ, Shoji Nakamori ^j, Hirohiko Sakamoto ^k,
Soichiro Morinaga ^l, Osamu Kainuma ^m, Koji Imai ⁿ, Naohiro Sata ^o,
Shoichi Hishinuma ^p, Hitoshi Ojima ^q, Ryuzo Yamaguchi ^r,
Satoshi Hirano ^s, Takeshi Sudo ^t for the JASPAC 01 Study Group

^a Department of Biostatistics, Graduate School of Medicine, The University of Tokyo, 7-3-1 Hongo, Bunkyo, Tokyo 113-0033, Japan

^b Department of Integrated Science and Engineering for Sustainable Society, Chuo University, 1-13-27 Kasuga, Bunkyo, Tokyo 112-8551, Japan

^c Division of Hepato-Biliary-Pancreatic Surgery, Shizuoka Cancer Center Hospital, 1007 Shimo-Nagakubo, Nagaizumi, Sunto, Shizuoka 411-8777, Japan

^d Gastrointestinal Medical Oncology Division, National Cancer Center Hospital, 5-1-1, Tsukiji, Chuo, Tokyo 104-0045, Japan

^e Division of Gastrointestinal Oncology, Shizuoka Cancer Center Hospital, 1007 Shimo-Nagakubo, Nagaizumi, Sunto, Shizuoka 411-8777, Japan

^f Department of Hepatobiliary-Pancreatic Surgery, National Cancer Center Hospital East, 6-5-1, Kashiwanoha, Kashiwa, Chiba 277-8577, Japan

^g Division of Hepato-Biliary-Pancreatic Surgery, Kindai University Faculty of Medicine, 377-2, Onohigashi, Osakasayama, Osaka 589-8511, Japan

^h Department of Surgery, Ogaki Municipal Hospital, 4-86, Minaminokawacho, Ogaki, Gifu 503-8502, Japan

ⁱ Department of Gastroenterological Surgery, Aichi Cancer Center Hospital, 1-1, Kanokoden, Chikusa, Nagoya, Aichi 464-8681, Japan

^j Department of Surgery, Osaka National Hospital, 2-1-14, Hoenzaka, Chuo, Osaka, Osaka 540-0006, Japan

^k Division of Gastroenterological Surgery, Saitama Cancer Center, 780, Komuro, Ina, Kita-adachi, Saitama 362-0806, Japan

^l Department of Gastrointestinal Surgery, Kanagawa Cancer Center, 2-3-2, Nakao, Asahi, Yokohama, Kanagawa 241-8515, Japan

^m Department of Gastroenterological Surgery, Chiba Cancer Center, 666-2, Nitonacho, Chuo, Chiba, Chiba 260-8717, Japan

ⁿ Department of Surgery, Asahikawa Medical University, Midorigaoka-Higashi, 2-1-1, Asahikawa, Hokkaido 078-8510, Japan

^o Department of Surgery, Jichi Medical University, 3311-1, Yakushiji, Shimotsuke, Tochigi 329-0498, Japan

* Corresponding author: Fax: +81 3 3817 7280.
E-mail address: ohashiy.00e@g.chuo-u.ac.jp (Y. Ohashi).

^p Department of Hepato-Biliary-Pancreatic Surgery, Tochigi Cancer Center, 4-9-13, Yonan, Utsunomiya, Tochigi 320-0834, Japan

^q Department of Gastroenterological Surgery, Gunma Prefectural Cancer Center, 617-1, Takahayashi-nishi-cho, Ota, Gunma 373-8550, Japan

^r Department of Surgery, Kasugai Municipal Hospital, 1-1-1, Takaki-cho, Kasugai, Aichi 486-8510, Japan

^s Department of Gastroenterological Surgery II, Hokkaido University Graduate School of Medicine, Kita 15, Nishi 7, Sapporo 060-8638, Japan

^t Department of Surgery, National Hospital Organization Kure Medical Center, 3-1, Aoyama-cho, Kure, Hiroshima 737-0023, Japan

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S-1 (combination)

Abstract Background: Adjuvant chemotherapy with S-1 for resected pancreatic cancer demonstrated survival benefits compared with gemcitabine in the JASPAC 01 trial. We investigated the effect of these agents on health-related quality of life (HRQOL) of patients in the JASPAC 01 trial.

Methods: Patients with resected pancreatic cancer were randomly assigned to receive gemcitabine (1000 mg/m² weekly for three of four weeks for up to six cycles) or S-1 (40, 50, or 60 mg twice daily for four of six weeks for up to four cycles). HRQOL was assessed using the EuroQol-5D-3L (EQ-5D) questionnaire at baseline, months three and six, and every 6 months thereafter. HRQOL end-points included change in EQ-5D index from baseline, responses to five items in the EQ-5D, and quality-adjusted life months up to 24 months.

Results: Of randomised 385 patients, 354 patients were included in HRQOL analysis. Mean change in the EQ-5D index was similar in the S-1 and gemcitabine groups within 6 months from treatment initiation (difference, 0.024; $P = 0.112$), whereas corresponding mean from 12 to 24 months was better in the S-1 group than in the gemcitabine group (difference, 0.071; $P < 0.001$). Problems in mobility and pain/discomfort were also less frequent in the S-1 group than in the gemcitabine group in that period. Quality-adjusted life months were longer in the S-1 group than in the gemcitabine group ($P < 0.001$).

Conclusion: Adjuvant chemotherapy with S-1 does not improve HRQOL within 6 months from treatment initiation but does improve HRQOL thereafter and quality-adjusted life months.

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1. Introduction

We previously reported the efficacy and safety of adjuvant chemotherapy with the oral fluoropyrimidine drug S-1 (TS-1; Taiho Pharmaceutical Co., Ltd., Tokyo, Japan) versus gemcitabine for resected pancreatic cancer in a randomised, open-label, non-inferiority, phase III trial: the Japan Adjuvant Study Group of Pancreatic Cancer (JASPAC) 01 trial [1]. This trial demonstrated not only non-inferior but also superior overall survival (OS) and relapse-free survival (RFS) in patients who received S-1 compared with those who received gemcitabine (hazard ratio, 0.57 and 0.60; $P < 0.001$ and $P < 0.001$, respectively). Although toxicities of both treatments were well tolerated, their profiles differed; haematologic adverse events were more common with gemcitabine, whereas gastrointestinal adverse events were more common with S-1.

In addition to survival and safety outcomes, assessment of health-related quality of life (HRQOL) is important in evaluating adjuvant chemotherapy for resected pancreatic cancer. Even with novel adjuvant chemotherapy after a potentially curative resection, patients often suffer an early relapse, resulting in a relatively short OS, as reported in recent randomised phase III trials [1,2]. Maintaining good HRQOL over a short OS is important for patients with this disease. Moreover, the effect of S-1 on HRQOL during adjuvant chemotherapy should be investigated because of differences in toxicity profiles and administration routes. Given these issues, HRQOL can provide important information for informed decision-making on treatment of resected pancreatic cancer [3]. So far, few detailed HRQOL results have been reported in randomised phase III trials of adjuvant chemotherapy for this disease [2,4–6].

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