First-Line Tislelizumab Plus Chemotherapy in Gastric/Gastroesophageal Junction Cancer: RATIONALE-305 Asian Subgroup

Ken Kato,¹ Yuxian Bai,² Jianhua Shi,³ Keun-Wook Lee,⁴ Jufeng Wang,⁵ Hongming Pan,⁶ Sun Young Rha,ˀ Ruixing Zhang,⁶ Hidekazu Hirano,¹ Kensei Yamaguchi, ⁹ Zengqing Guo, ¹⁰ Yi Ba, ¹¹ Lei Yang, ¹² Hiroshi Tsukuda, ¹³ Yaling Xu, ¹⁴ Tao Sheng, ¹⁵ Silu Yang, ¹⁴ Liyun Li, ¹⁴ Do-Youn Oh, ¹⁶ Rui-Hua Xu¹⁷

¹National Cancer Center Hospital, Tokyo, Japan; ²Harbin Medical University Cancer Hospital, Harbin, China; ³Linyi Cancer Hospital, Linyi, China; ⁴Seoul National University College of Medicine, Seoul National University Bundang Hospital, Seongnam, Republic of Korea; 5Henan Cancer Hospital, Zhengzhou, China; 6Sir Run Run Shaw Hospital, Zhejiang University School of Medicine, Hangzhou, China; ⁷Yonsei Cancer Center, Yonsei University Health System, Seoul, Republic of Korea; ⁸Fourth Hospital of Hebei Medical University, Shijiazhuang, China; ⁹Cancer Institute Hospital of JFCR, Tokyo, Japan; ¹⁰Fujian Cancer Hospital, Fuzhou, China; ¹¹Tianjin Medical University Cancer Institute & Hospital, Tianjin, China; ¹²Nantong Cancer Hospital, Nantong, China; ¹³Izumi City General Hospital, Izumi, Japan; ¹⁴BeiGene (Beijing) Co., Ltd., Beijing, China;

¹⁵BeiGene USA, Inc., Boston, MA, USA; ¹⁶Seoul National University Hospital, Cancer Research Institute, Seoul National University College of Medicine, Seoul, Republic of Korea; ¹⁷Sun Yat-sen University Cancer Center State Key Laboratory of Oncology in South China, Collaborative Innovation Center of Cancer Medicine, Guangzhou, China.

Presented at the Asia Pacific Gastroenterology Cancer Summit (APGCS); 29-31 August 2024; Singapore



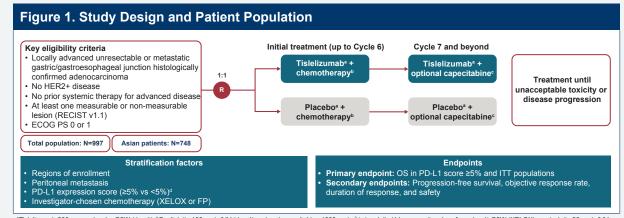
- In Asian patients in the RATIONALE-305 study
- Tislelizumab plus chemotherapy showed an improvement in overall survival (OS) versus placebo plus chemotherapy in both the intent-to-treat (ITT) and programmed death-ligand 1 (PD-L1) score ≥5% populations
- Additionally, tislelizumab plus chemotherapy demonstrated improved progression-free survival (PFS), favorable response rates, and more durable antitumor responses versus placebo plus chemotherapy
- Tislelizumab plus chemotherapy also showed a manageable safety profile, with no new safety signals identified
- The efficacy and safety results in the Asian patient subgroup were consistent with the results in the overall study population, suggesting this combination may be a first-line treatment option for Asian patients with advanced gastric/gastroesophageal junction cancer (GC/GEJC)¹

Introduction

- Gastric cancer is one of the leading causes of cancer-related deaths worldwide; Asia has a notably higher incidence and mortality rate of GC, and the disease is of particular concern in China, South Korea, and Japan²⁻⁵
- Prior to the introduction of immunotherapy, platinum plus fluoropyrimidine chemotherapy was the standard first-line therapy for advanced GC/GEJC, with a median OS of less than 12 months⁶⁻⁸
- The RATIONALE-305 study (NCT03777657) met its primary endpoint, showing significant improvement in OS with tislelizumab plus chemotherapy versus placebo plus chemotherapy in the PD-L1 ≥5% population at interim analysis, and in the ITT population at final analysis, with favorable PFS^{1,9}
- Overall, results of the final analysis supported tislelizumab plus chemotherapy as a potential first-line treatment option for patients with advanced GC/GEJC1
- Here, we present results from the Asian patient subgroup of the RATIONALE-305 study at final analysis

Methods

- Of 997 randomized patients, 748 (tislelizumab with chemotherapy: n=376; placebo with chemotherapy: n=372) were enrolled from Asia, of whom 403 had a PD-L1 score of ≥5% (Figure 1)
- The Asian subgroup comprised patients from China (including Taiwan), Japan, and South Korea
- As of the data cutoff for the final analysis (February 28, 2023), median study follow-up in the Asian subgroup was 14.5 months (range, 0.1-50.1) and minimum study follow-up in this subgroup was 24.6 months

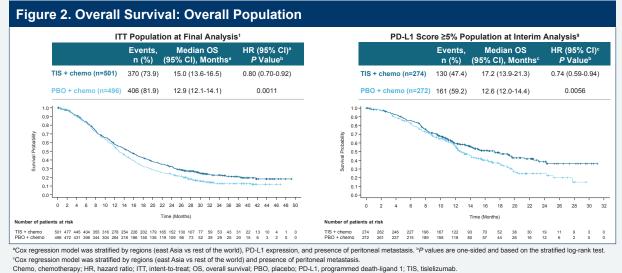


zumab 200 mg or placebo Q3W (day 1). POxaliplatin 130 mg/m² IV (day 1) and oral capecitabine 1000 mg/m² twice daily (14 consecutive days from day 1) Q3W (XELOX), or cisplatin 80 mg/m² IV (day 1) and FP 800 mg/m²/day IV (days 1-5) (33W. "Capecitabine as maintenance therapy was optional and only for XELOX-treated patients. "PD-L1 score was determined using the VENTANA PD-L1 (SP263) assay by tumor area positivity score.

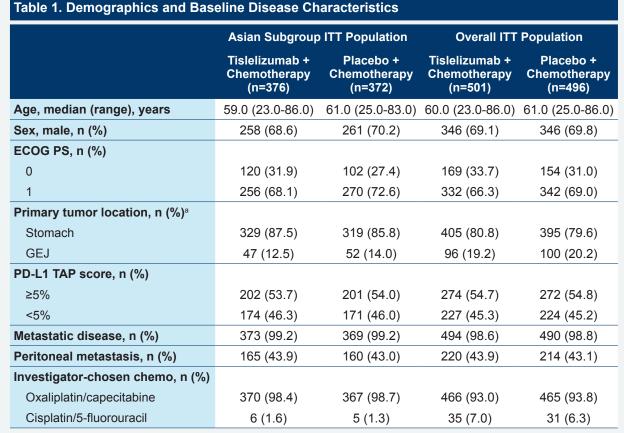
ECOG PS, Eastern Cooperative Oncology Group Performance Status; FP, 5-fluorouracil; HER2, human epidermal growth factor receptor 2; ITT, intent-to-treat; IV, intravenous; OS, overall survival PD-L1, programmed death-ligand 1; Q3W, once every 3 weeks; R, randomized; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1

Results

 Improved OS differences of 2.1 and 4.6 months in favor of tislelizumab plus chemotherapy versus placebo plus chemotherapy were observed in the overall ITT and PD-L1 score ≥5% populations at final and interim analysis, respectively (Figure 2)9

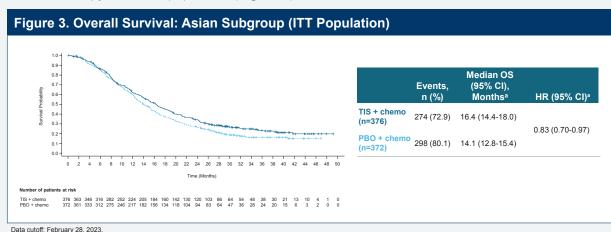


 Demographics and baseline characteristics of patients in the Asian subgroup were similar to those of the overall ITT population (**Table 1**)



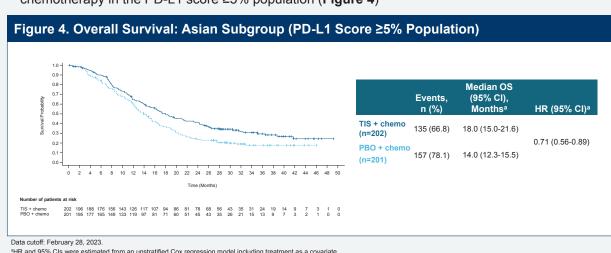
The diagnosis of 1 patient was updated from gastric adenocarcinoma to pancreatic cancer after randomization and the patient remained in the ITT population

 An improvement in OS was observed with tislelizumab plus chemotherapy versus placebo plus chemotherapy in the ITT population (Figure 3)



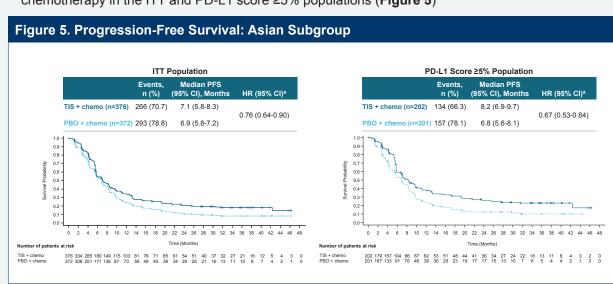
Chemo, chemotherapy; HR, hazard ratio; ITT, intent-to-treat; OS, overall survival; PBO, placebo; TIS, tislelizumal

 An improvement in OS was also observed with tislelizumab plus chemotherapy versus placebo plus chemotherapy in the PD-L1 score ≥5% population (Figure 4)



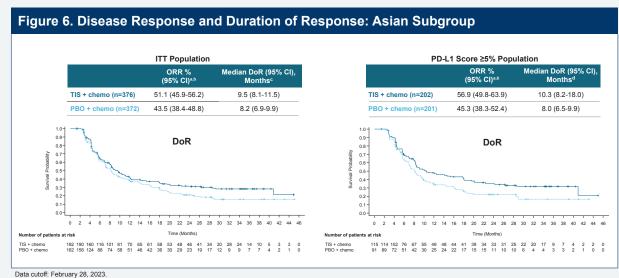
Chemo, chemotherapy; CI, confidence interval; HR, hazard ratio; OS, overall survival; PBO, placebo; PD-L1, programmed death-ligand 1; TIS, tislelizumab

 Improved PFS was observed with tislelizumab plus chemotherapy versus placebo plus chemotherapy in the ITT and PD-L1 score ≥5% populations (Figure 5)



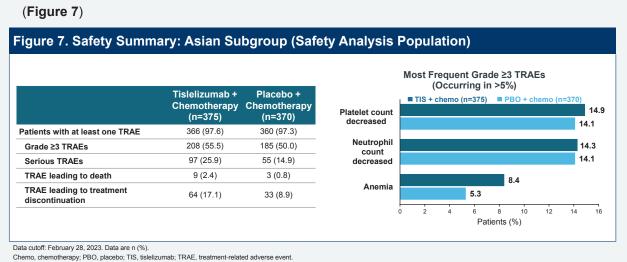
^aHR was based on an unstratified Cox regression mode Chemo, chemotherapy; HR, hazard ratio; ITT, intent-to-treat; PBO, placebo; PD-L1, programmed death-ligand 1; PFS, progression-free survival; TIS, tislelizumab

 Tislelizumab plus chemotherapy showed a favorable objective response rate and duration of response compared with placebo plus chemotherapy in the ITT and PD-L1 score ≥5% populations



*ORR was calculated using the unstratified Cochran-Mantel-Haenszel method. *ORR is defined as the proportion of patients with a confirmed complete response or partial response. *DoR analysis performed on 192 patients in the TIS + chemo arm and 162 patients in the PBO + chemo arm. DoR analysis performed on 115 patients in the TIS + chemo arm and 91 patients in the PBO + chemo arm rate; PBO, placebo; PD-L1, programmed death-ligand 1; TIS, tisle

No new safety signals with tislelizumab plus chemotherapy were identified in the Asian subgroup



- 1. Xu et al. Ann Oncol. 2023;34(suppl 2):S1320-S1321. 2. Sung et al. CA Cancer J Clin. 2021;71(3):209-249.
- Shin et al. Cancers (Basel). 2023;15(9):2639.
- 5. Sekiguchi et al. Digestion. 2022;103(1):22-28.
- Cheng et al. Ther Adv Med Oncol. 2019:11:1758835919877726.
- 7. Lordick et al. Ann Oncol. 2022;33(10):1005-1020. 8. Catenacci et al. Oncologist. 2021;26(10):e1704-e1729
- Moehler et al. J Clin Oncol. 2023:41(suppl

KK: Consultancy/advisory role for ONO Pharmaceuticals. Bristol Myers Squibb. Merck and Co. Bayer AG. AstraZeneca. BeiGene. Taiho, Merck Biopharma, Amgen. Novartis. Daiichi Sankyo: Grant/Research funding from ONO Pharmaceuticals, Merck & Co, Bayer AG, AstraZeneca, BeiGene, Chugai, Taiho, Oncolys Biopharma, Janssen Pharmaceutica