

Randomized, Global, Phase 3 Study of Tislelizumab Plus Chemotherapy Versus Placebo Plus Chemotherapy as First-Line Treatment for Advanced or Metastatic Esophageal Squamous Cell Carcinoma (RATIONALE-306): Non-Asia Subgroup

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Conclusion

Tislelizumab plus chemotherapy demonstrated a clinically meaningful improvement in OS compared with placebo plus chemotherapy as 1L treatment in patients with advanced or metastatic ESCC in the non-Asia subgroup.

Tislelizumab plus chemotherapy had a manageable safety profile as 1L treatment for advanced or metastatic ESCC, with no new safety signals identified in the non-Asia subgroup.

The treatment benefits and the safety profile of tislelizumab plus chemotherapy in the non-Asia subgroup were consistent with the published results in the overall study population.



Background

Esophageal squamous cell carcinoma (ESCC) is the predominant histologic subtype of esophageal cancer, accounting for 85% of cases worldwide.¹ Platinum-based chemotherapy has been used for first-line (1L) treatment of advanced or metastatic ESCC, but median survival remains poor at <1 year.²⁻⁵

Tislelizumab is a monoclonal antibody with high affinity and binding specificity for programmed cell death protein 1.⁶ In the interim analysis of the phase 3 RATIONALE-306 study (NCT03783442), tislelizumab plus chemotherapy (TIS+chemo) demonstrated a statistically significant and clinically meaningful overall survival (OS) benefit as 1L treatment in patients with advanced or metastatic ESCC, compared with placebo plus chemotherapy (PBO+chemo).⁷

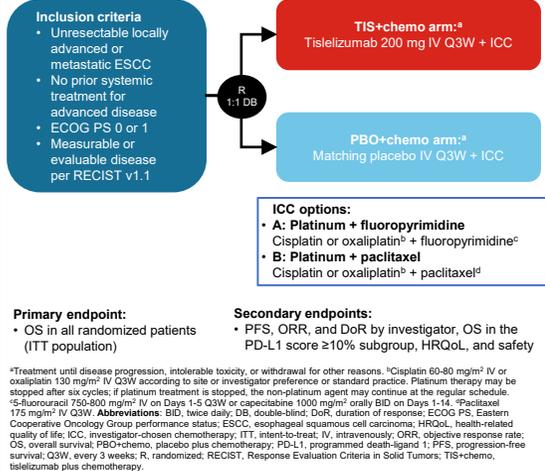
Here, we report interim analysis results for the non-Asia subgroup: Europe, North America, and Oceania.



Methods

- Patients were randomized to receive either tislelizumab 200 mg intravenously (IV) every 3 weeks (Q3W) plus investigator-chosen chemotherapy (ICC), or placebo IV Q3W plus ICC (Figure 1)

Figure 1. RATIONALE-306 Study Design



Results

Patient Disposition and Baseline Characteristics

- Of 649 randomized patients, 163 (25.1%) were in the non-Asia subgroup (TIS+chemo, n=83; PBO+chemo, n=80)
- Baseline characteristics were generally balanced between treatment arms, with the exception of sex (Table 1)
- As of February 28, 2022, median study follow-up time was 16.0 months in the TIS+chemo arm vs 8.4 months in the PBO+chemo arm (range: 0.8-30.1)

Table 1. Baseline Characteristics

	TIS+chemo (n=83)	PBO+chemo (n=80)
Median age, years (range)	64 (38-78)	66 (40-84)
Sex, male	70 (84.3)	59 (73.8)
Race, white/other*	79 (95.2)/4 (4.8)	76 (95.0)/4 (5.0)
ECOG PS 0/1	31 (37.3)/52 (62.7)	30 (37.5)/50 (62.5)
Disease status at baseline		
Metastatic/locally advanced	67 (80.7)/16 (19.3)	60 (75.0)/20 (25.0)
PD-L1 score		
≥10%<10%/unknown	30 (36.1)/34 (41.0)/19 (22.9)	17 (21.3)/45 (56.3)/18 (22.5)
ICC options, n		
A (platinum + 5-FU)	n=44	n=39
Cisplatin/oxaliplatin + 5-FU	23/21	24/15
(platinum + cap)	n=18	n=19
Cisplatin/oxaliplatin + cap	4/14	2/17
B (platinum + pac)	n=21	n=20
Cisplatin/oxaliplatin + pac	10/11	9/11
Post-treatment systemic therapy/immunotherapy	37 (44.6)/4 (4.8)	36 (45.0)/8 (10.0)

Data are n (%) unless otherwise specified. *Includes "not reported," "American Indian or Alaska Native," and "Unknown." Abbreviations: 5-FU, 5-fluorouracil; cap, capecitabine; ECOG PS, Eastern Cooperative Oncology Group performance status; ICC, investigator-chosen chemotherapy; pac, paclitaxel; PBO+chemo, placebo plus chemotherapy; PD-L1, programmed death-ligand 1; TIS+chemo, tislelizumab plus chemotherapy.

Efficacy

- OS (Figure 2) and progression-free survival (Figure 3) were improved in the TIS+chemo arm vs the PBO+chemo arm

Figure 2. OS (Non-Asia Subgroup)

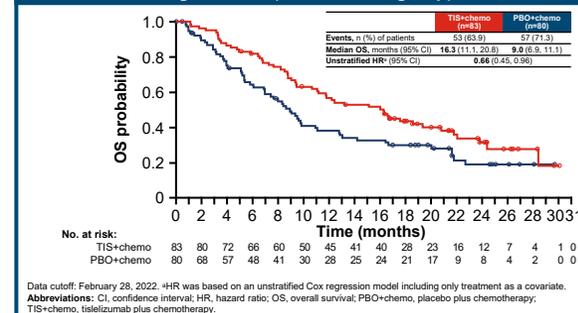
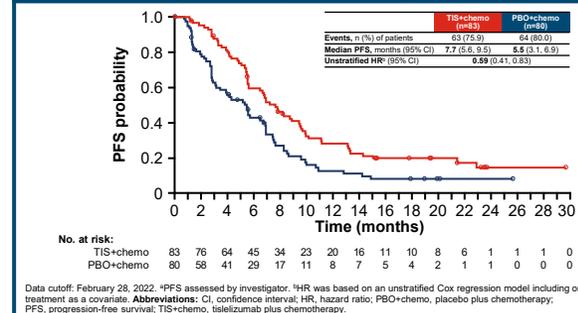


Figure 3. PFS^a (non-Asia subgroup)



Efficacy, Ctd.

- For TIS+chemo versus PBO+chemo, respectively, the objective response rate was 61.4% (95% confidence interval [CI]: 50.1, 71.9) vs 41.3% (95% CI: 30.4, 52.8) (complete response, 8.4% vs 5.0%; partial response, 53.0% vs 36.3%; stable disease, 32.5% vs 32.5%; progressive disease, 1.2% vs 12.5%; not assessable [no postbaseline tumor assessment by data cutoff], 4.8% vs 13.8%)
- Median duration of response was longer with TIS+chemo than PBO+chemo (7.1 months [95% CI: 5.6, 9.6] vs 5.7 months [95% CI: 3.8, 8.3], respectively)

Safety

- A summary of the safety findings is shown in Table 2
- For TIS+chemo and PBO+chemo, respectively, treatment-related adverse events (TRAEs) occurring in ≥15% of patients in either arm were peripheral sensory neuropathy (38.6% vs 30.8%), stomatitis (34.9% vs 30.8%), diarrhea (33.7% vs 34.6%), nausea (32.5% vs 42.3%), anemia (31.3% vs 30.8%), fatigue (22.9% vs 19.2%), neutropenia (21.7% vs 24.4%), asthenia (20.5% vs 28.2%), decreased appetite (19.3% vs 24.4%), and vomiting (9.6% vs 16.7%)
- The most common ≥grade 3 TRAEs (occurring in ≥10% of patients in either arm) in the TIS+chemo vs PBO+chemo arms, respectively, were stomatitis (10.8% vs 9.0%), neutropenia (9.6% vs 16.7%), and anemia (6.0% vs 10.3%)

Table 2. Safety Summary (Safety Analysis Set)

n (%)	TIS+chemo (n=83)	PBO+chemo (n=78)
Patients with ≥1 TRAE^a	78 (94.0)	69 (88.5)
≥Grade 3	47 (56.6)	41 (52.6)
Serious	21 (25.3)	14 (17.9)
Leading to death ^b	1 (1.2)	1 (1.3)
Patients with ≥1 TEAE leading to any treatment discontinuation	35 (42.2)	28 (35.9)
Discontinuation of tislelizumab/placebo	15 (18.1)	6 (7.7)
Discontinuation of any chemotherapy	34 (41.0)	28 (35.9)

Data cutoff: February 28, 2022. ^aTRAEs included TEAEs that were considered by the investigator to be related to study drug or TEAEs with a missing causality. ^bDeaths due to disease progression are not included as TEAEs leading to death. Abbreviations: PBO+chemo, placebo plus chemotherapy; TEAE, treatment-emergent adverse event; TIS+chemo, tislelizumab plus chemotherapy; TRAE, treatment-related adverse event.

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Disclosures

ER, EG, and LW: no conflicts of interest. RH: BeiGene, Boston Scientific, Ipsen, Novartis, and Roche. EV: Array, Astellas, AstraZeneca, Bayer, BeiGene, Biocartis, Boehringer Ingelheim, Bristol-Myers Squibb, Celgene, Daiichi, Halozyme, GSK, Incyte, Ipsen, Lilly, Merck Sharp & Dohme, Merck KGaA, Novartis, Pierre Fabre, Roche, Servier, Sirix, and Taiho. PJ-F: Amgen, HRA Pharma, BMS, MSD, Lilly, Mylan, Novartis, LeoPharma, Sanofi, and Rovi. RP-C: BeiGene, Celgene, Eisai, and Roche; JX, LW, YP, and LL: BeiGene, Ltd; KK: Bayer, BeiGene, BMS, Lilly, MSD, Oncology Biopharma, and ONO; HHY: ALX Oncology, Amgen, Astellas, AstraZeneca, BeiGene, BMS, CARsgen Therapeutics, Macrogenics, Merck, Novartis, OncKema, and Zymeworks.

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