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Randomized, Global, Phase 3 Study of Tislelizumab Plus Chemotherapy versus Chemotherapy as First-line Treatment for Advanced or Metastatic Esophageal Squamous Cell Carcinoma (RATIONALE-306): China Subgroup Analysis

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Tislelizumab plus chemotherapy showed a clinically meaningful improvement in overall survival (OS) compared with placebo plus chemotherapy as first-line (1L) treatment in patients with advanced or metastatic esophageal squamous cell carcinoma (ESCC) in the China subgroup of RATIONALE-306.

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

The treatment benefit and the safety profile of tislelizumab plus chemotherapy in the China subgroup were consistent with the published results in the overall study population.



Background

Esophageal cancer is the eighth most commonly diagnosed cancer worldwide, with more than half of new cases occurring in China, and with ESCC being the predominant histologic subtype. Platinum-based chemotherapy has been used for first-line (1L) treatment of advanced or metastatic ESCC, but median survival remains poor at ~1 year.²⁻⁴

Tislelizumab is a monoclonal antibody with high affinity and binding specificity for programmed cell death protein 1.5,6 In the interim analysis of the overall population of the phase 3 RATIONALE-306 study (NCT03783442), tislelizumab plus chemotherapy demonstrated a statistically significant and clinically meaningful overall survival (OS) benefit as 1L treatment in China subgroup of RATIONALE-306. patients with advanced or metastatic ESCC, compared with placebo plus chemotherapy.⁷

Here, we report interim analysis results for the



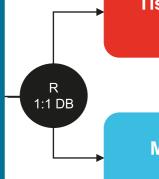
Methods

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

- Key eligibility criteria: Unresectable locally advanced recurrent or metastatic ESCC
- No prior systemic treatment for locally advanced recurrent or metastatic disease
- ECOG PS 0 or 1 Measurable or evaluable disease per

RECIST v1.1



Tislelizumab 200 mg IV D1 Q3W + ICCa

Matching placebo IV D1 Q3W + ICCa

ICC options:

Platinum^b + fluoropyrimidine^c

Platinum^b + paclitaxel^d

Primary endpoint ents (ITT populatior

FS, ORR, and DoR by investigator per RECIST v1. DS in the PD-L1 score ≥10% subgroup, HRQoL, and

^aTreatment until disease progression, intolerable toxicity, or withdrawal for other reasons. ^bCisplatin was used in China, Taiwan, and Japan, where oxaliplatin substitution was not permitted. c5-fluorouracil 750-800 mg/m² IV on Days 1-5 Q3W or capecitabine 1000 mg/m² orally BID on Days 1-14. dPaclitaxel 175 mg/m² IV Q3W.

Abbreviations: BID, twice daily; D, day; DB, double-blind; DoR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; ESCC, esophageal squamous cell carcinoma; HRQoL, health-related quality of life; ICC, investigator-chosen chemotherapy; ITT, intent-to-treat; IV, intravenously; ORR, objective response rate; OS, overall survival; PD-L1, programmed deathligand 1; PFS, progression-free survival; Q3W, every 3 weeks; R, randomized; RECIST, Response Evaluation Criteria in Solid Tumors version 1.1.

Results

Patient Disposition and Baseline Characteristics

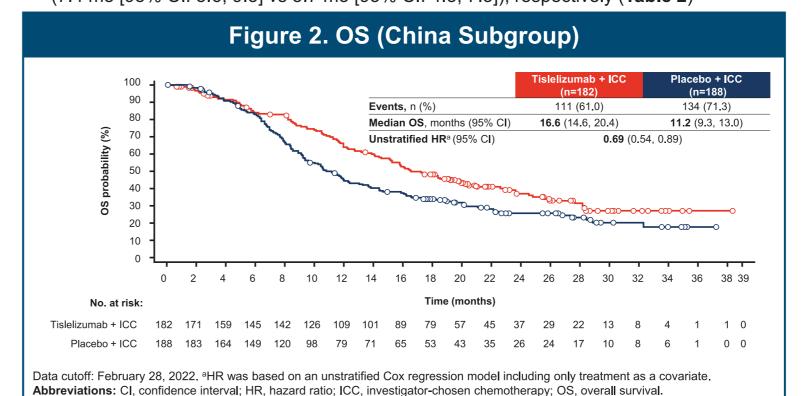
- Of 649 randomized patients, 370 (57.0%) patients were enrolled from China (tislelizumab + ICC, n=182; placebo + ICC, n=188)
- Baseline characteristics were generally
- As of February 28, 2022, median study follow-up was 15.8 months (mo) in the tislelizumab + ICC arm vs 10.6 mo in the placebo + ICC arm

Table 1. Baseline Characteristics Tislelizumab + ICC (n=182) Placebo + ICC (n=188) 63 (57-68) 64 (57-69) Median age, years (range) Sex, male 157 (86.3) 170 (90.4) Race, Chinese 182 (100.0) 188 (100.0) ECOG PS 0/1 44 (23.4)/144 (76.6) 43 (23.6)/139 (76.4) Disease status at study entry Metastatic/locally advanced 158 (86.8)/24 (13.2) 171 (91.0)/17 (9.0) PD-L1 score ≥10%/<10%/unknown 65 (35.7)/87 (47.8)/30 (16.5) 75 (39.9)/95 (50.5)/18 (9.6) ICC option 41a (22.5) 37 (19.7) Platinum + fluoropyrimidine Platinum + paclitaxel 140 (76.9) 151 (80.3) Posttreatment systemic therapy/ 103 (54.8)/36 (19.1) 79 (43.4)/25 (13.7) immunotherapy

Data are n (%), unless otherwise stated. aOne patient did not receive ICC treatment. Abbreviations: ECOG PS, Eastern Cooperative Oncology Group performance status; ICC, investigator-chosen chemotherapy;

Efficacy

- Median OS was 16.6 mo in the tislelizumab + ICC arm vs 11.2 mo in the placebo + ICC arm (unstratified hazard ratio [HR]=0.69; 95% confidence interval [CI]: 0.54, 0.89;
- Median progression-free survival (PFS) was 8.3 mo in the tislelizumab + ICC arm vs 5.6 mo in the placebo + ICC arm (unstratified HR=0.58; 95% CI: 0.45, 0.75; Figure 3)
- Median duration of response was longer with tislelizumab + ICC than placebo + ICC (7.4 mo [95% CI: 5.6, 9.5] vs 5.7 mo [95% CI: 4.3, 7.5]), respectively (**Table 2**)



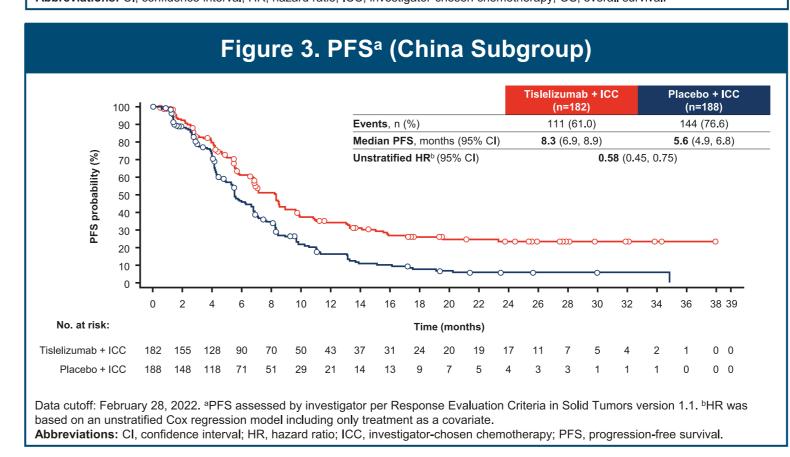


Table 2. Disease Response			
	Tislelizumab + ICC (n=182)	Placebo + ICC (n=188)	
PRR, %	64.8	44.1	
(95% CI)	(57.4, 71.8)	(36.9, 51.6)	
complete response, n (%)	3 (1.6)	3 (1.6)	
artial response, n (%)	115 (63.2)	80 (42.6)	
table disease, n (%)	42 (23.1)	75 (39.9)	
rogressive disease, n (%)	8 (4.4)	20 (10.6)	
lot evaluableª/not assessable, n (%)	14 (7.7)	10 (5.3)	
ledian DoR, months (95% CI)	7.4 (5.6, 9.5)	5.7 (4.3, 7.5)	
Based on Response Evaluation Criteria in Solid Tumors version 1.1.			

Abbreviations: CI, confidence interval; DoR, duration of response; ICC, investigator-chosen chemotherapy; ORR, objective response rate

Safety

- A summary of the safety findings is shown in Table 3
- For tislelizumab + ICC and placebo + ICC, respectively, treatment-related adverse events (TRAEs) occurring in ≥30% of patients in either arm were anemia (70.7% vs 66.0%), neutrophil count decreased (66.3% vs 66.5%), white blood cell count decreased (63.5% vs 67.6%), decreased appetite (40.3% vs 38.8%), and nausea (33.7% vs 37.8%)
- The most common ≥grade 3 TRAEs (occurring in ≥10% of patients in either arm) in the tislelizumab + ICC and placebo + ICC arms, respectively, were neutrophil count decreased (44.2% vs 46.8%), white blood cell count decreased (18.2% vs 23.4%), and anemia (17.1%) vs 16.5%)

vs 10.570)			
Table 3. Safety Summary (Safety Analysis Set)			
n (%)	Tislelizumab + ICC (n=181)	Placebo + ICC (n=188)	
Patients with ≥1 TRAE	179 (98.9)	186 (98.9)	
≥grade 3	129 (71.3)	137 (72.9)	
Serious	50 (27.6)	39 (20.7)	
Leading to death	5 (2.8)	3 (1.6)	
Patients with ≥1 TEAE leading to any treatment discontinuation	52 (28.7)	32 (17.0)	
Discontinuation of tislelizumab/placebo	20 (11.0)	11 (5.9)	
Discontinuation of any chemotherapy	46 (25.4)	30 (16.0)	

Data cutoff: February 28, 2022.

Abbreviations: ICC, investigator-chosen chemotherapy; TEAE, treatment-emergent adverse event; TRAE, treatment-related adverse event.

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PD-L1, programmed death-ligand 1.

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Disclosures

Disclosure information is available online with the abstract details.

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