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RATIONALE 302: RATIONALE 302: Randomized, Phase 3 study of tislelizumab vs chemotherapy as second-line treatment for advanced unresectable/metastatic esophageal squamous cell carcinoma

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Disclosure Information

- Employment: N/A
- Consultant or Advisory Role: Roche and Eisai
- Stock Ownership: N/A
- Research Funding: N/A
- Speaking: Eisai, Roche and Celgene
- Grant support: N/A
- Other: N/A

Ahora y siempre por y para los pacientes

Tislelizumab is not authorized in the European Union for any indications. This study was sponsored by BeiGene, Ltd. Editorial support was provided by Peloton Advantage, LLC, an OPEN Health company, Parsippany, NJ and funded by BeiGene.

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Tislelizumab: A Novel Monoclonal Anti-PD-1 Antibody

Advanced or metastatic ESCC has an estimated 5-year survival rate of 5%1

Single-agent chemotherapy is recommended when ESCC progresses after first-line therapy but is associated with limited survival and poor tolerability²⁻⁶

Second-line use of anti-PD-1/L1 monoclonal antibodies has improved OS versus chemotherapy³⁻⁵

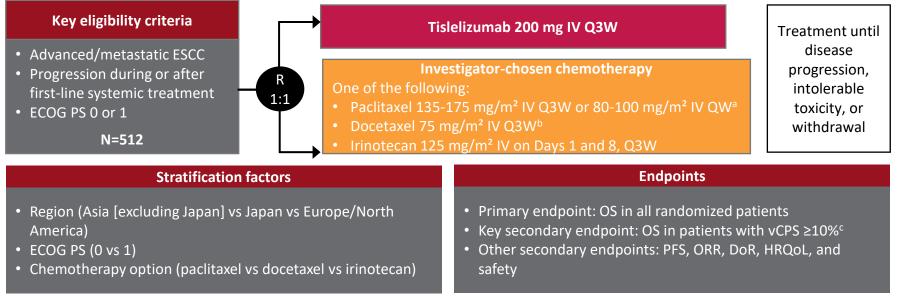
Tislelizumab has high affinity and specificity for PD-1 and was designed to minimize binding to FcγR on macrophages to limit antibody-dependent phagocytosis⁷

We report data from the overall and EU/NA populations in the RATIONALE 302 study (NCT03430843) that evaluated the efficacy and safety of second-line tislelizumab in patients with advanced or metastatic ESCC⁸

1. Howlader N, et al. SEER Cancer Statistics Review, 1975–2017. National Cancer Institute, Bethesda, MD, USA (2020). https://seer.cancer.gov/csr/1975_2017/. 2. Ford HE, et al. Lancet Oncol. 2014;15:78-86. 3. Huang J, et al. Lancet Oncol. 2020;21:832-842. 4. Kato K, et al. Lancet Oncol. 2019;20:1506-1517. 5. Kojima T, et al. J Clin Oncol. 2020;38:4138-4148. 6. NCCN Clinical Practice Guidelines in Oncology. Esophageal and Esophagogastric Junction Cancers, Version 2.2021 – March 9, 2021. https://www.nccn.org/professionals/physician_gls/pdf/esophageal.pdf. 7. Zhang T, et al. Cancer Immunol Immunother. 2018;67:1079-1090. 8. Shen L, et al. Poster presented at ASCO 2021 Virtual Conference, June 4-8, 2021.

Abbreviations: ESCC, esophageal squamous cell carcinoma; EU, European Union; NA, North America; OS, overall survival; PD-1, programmed cell death protein-1; PD-L1, programmed death- ligand 1.

RATIONALE 302: Study Design



• The study required ~400 death events to achieve 82% power to detect an HR of 0.75 at 0.025 significance level (one-sided) for the primary endpoint of OS in all randomized patients (ITT analysis set)

ClinicalTrials.gov: NCT03430843

Assessment of tumor-response status was performed approximately every 6 weeks (± 7 days) for the first 6 months and every 9 weeks (± 7 days) thereafter.

^aFor Japan: paclitaxel 100 mg/m² IV in cycles consisting of weekly dosing for 6 weeks, followed by 1 week of rest. ^bFor Japan: docetaxel 70 mg/m² IV Q3W. ^cPD-L1 expression centrally assessed by immunohistochemistry with the Ventana SP263 assay.

Abbreviations: DoR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance score; ESCC, esophageal squamous cell carcinoma; HR, hazard ratio; HRQoL, health-related quality of life; ITT, intent-to-treat; IV, intravenously; ORR, objective response rate; OS, overall survival; PD-L1, programmed death-ligand 1; PFS, progression-free survival; QW, once weekly; Q3W, every three weeks; vCPS, visually-estimated combined positive score.

Demographics and Baseline Patient Characteristics

		Overall Population		EU/NA Subgroup	
		Tislelizumab (n=256)	Chemotherapy (n=256)	Tislelizumab (n=55)	Chemotherapy (n=53)
Median Age (range), years		62 (40–86)	63 (35–81)	65 (41–86)	65 (35–80)
Male, n (%)		217 (84.8)	215 (84.0)	37 (67.3)	36 (67.9)
Region	Asia	201 (78.5)	203 (79.3)	0.0	0.0
	Europe/North America	55 (21.5)	53 (20.7)	55 (100)	53 (100.0)
	Spain	14 (5.5)	10 (3.9)	14 (25.5)	10 (18.9)
Race, n (%)	Asian	201 (78.5)	207 (80.9)	0.0	4 (7.5)
	White/Caucasian	53 (20.7)	44 (17.2)	53 (96.4)	44 (83.0)
	Black/African American	0.0	2 (0.8)	0.0	2 (3.8)
	Other ^a	2 (0.8)	3 (1.2)	2 (3.6)	3 (5.7)
ECOG PS, n (%)	0	66 (25.8)	60 (23.4)	23 (41.8)	18 (34.0)
	1	190 (74.2)	196 (76.6)	32 (58.2)	35 (66.0)
PD-L1 Status ^ь , n (%)	vCPS ≥10%	89 (34.8)	68 (26.6)	22 (40.0)	10 (18.9)
	vCPS <10%	116 (45.3)	140 (54.7)	27 (49.1)	37 (69.8)
	Unknown	51 (19.9)	48 (18.8)	6 (10.9)	6 (11.3)
Disease Status at Baseline, n (%)	Locally advanced	5 (2.0)	20 (7.8)	2 (3.6)	6 (11.3)
	Metastatic	251 (98.0)	236 (92.2)	53 (96.4)	47 (88.7)
Prior Therapies, n (%)	Surgery	94 (36.7)	99 (38.7)	9 (16.4)	10 (18.9)
	Radiotherapy	169 (66.0)	163 (63.7)	34 (61.8)	34 (64.2)
	Platinum-based chemotherapy	249 (97.3)	252 (98.4)	54 (98.2)	53 (100.0)

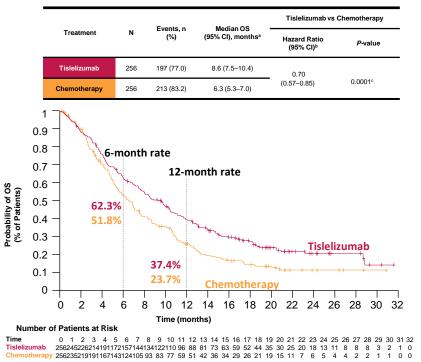
Data cut-off date: December 1, 2020. Overall population was stratified according to region, ECOG PS, and chemotherapy treatment.

alncluding categories of "not reported," "unknown," and "other." ^bPD-L1 expression centrally assessed by immunohistochemistry with the Ventana SP263 assay.

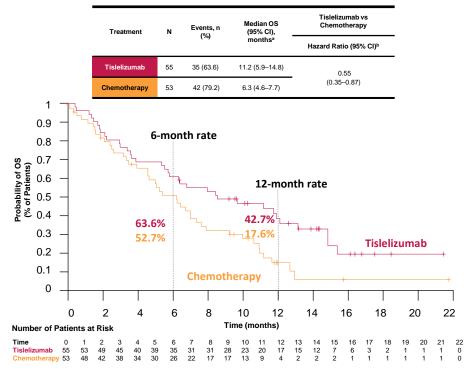
Abbreviations: ECOG PS, Eastern Cooperative Oncology Group performance score; EU, European Union; NA, North America; PD-L1, programmed death-ligand 1; vCPS, visually-estimated combined positive score.

Overall Survival

Overall Population



EU/NA Subgroup

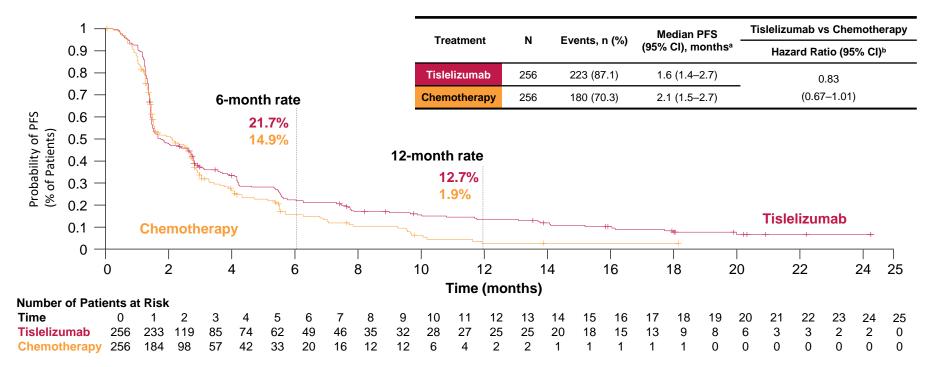


Data cut-off date: December 1, 2020. Overall population was stratified according to region, ECOG performance score, and chemotherapy treatment.

^aMedians were estimated by Kaplan-Meier method with 95% CIs estimated using the method of Brookmeyer and Crowley; OS rates (cumulative probability of OS) were estimated by Kaplan-Meier method with 95% CIs estimated using Greenwood's formula. ^bHazard ratio was based on unstratified Cox regression model only including treatment as a covariate. ^cOne-sided *P*-value was estimated from a stratified log rank test.

Abbreviations: CI, confidence interval; ECOG, Eastern Cooperative Oncology Group; EU, European Union; NA, North America; OS, overall survival.

Progression Free Survival



In the EU/NA subgroup, there was no meaningful difference in PFS between the two arms (HR=0.97; 95% CI: 0.64–1.47)

Data cut-off date: December 1, 2020. Overall population was stratified according to region, ECOG performance score, and chemotherapy treatment. ^aMedians were estimated by Kaplan-Meier method with 95% CIs estimated using the method of Brookmeyer and Crowley. ^bHazard ratio was based on a Cox regression model. **Abbreviations:** CI, confidence interval; ECOG, Eastern Cooperative Oncology Group; EU, European Union; HR, hazard ratio; NA, North America; PFS, progression-free survival.

ORR and DoR: Overall Population and EU/NA Subgroup

	Overall Po	Overall Population		EU/NA Subgroup	
	Tislelizumab (n=256)	Chemotherapy (n=256)	Tislelizumab (n=55)	Chemotherapy (n=53)	
ORR, n	52	25	11	6	
% (95% CI) ^a	20.3 (15.6–25.8)	9.8 (6.4–14.1)	20 (10.4–33.0)	11.3 (4.3–23.0)	
Odds Ratio for ORR, (95% CI) ^b	2.4 (1.4-	2.4 (1.4–4.0)		2 (0.7–5.8)	
Best Overall Response, n (%)					
Complete Response	5 (2.0)	1 (0.4)	2 (3.6)	0 (0.0)	
Partial Response	47 (18.4)	24 (9.4)	9 (16.4)	6 (11.3)	
Stable Disease	68 (26.6)	82 (32.0)	17 (30.9)	20 (37.7)	
Progressive Disease	116 (45.3)	86 (33.6)	23 (41.8)	16 (30.2)	
Missing/Not Evaluable ^c	20 (7.8)	63 (24.6)	4 (7.3)	11 (20.8)	
DoRd					
Median (95% CI), months	7.1 (4.1–11.3)	4.0 (2.1–8.2)	5.1 (1.6–NE)	2.1 (1.3–6.3)	
Pts With Ongoing Response, n (%)	10 (19.2)	0 (0.0)	4 (36.4)	0 (0.0)	

Data cut-off date: December 1, 2020. Overall population was stratified according to region, ECOG performance score, and chemotherapy treatment. Data are investigator-assessed per RECIST v1.1. ^aTwo-sided 95% CI was calculated using the Clopper-Pearson method. ^bCalculated using the Cochran-Mantel-Haenszel Chi-square test. ^cIncluding those with no post-baseline assessment or an unevaluable post-baseline assessment. ^dMedians were estimated by Kaplan-Meier method with 95% CIs estimated using the method of Brookmeyer and Crowley. DoR analysis included patients with objective response (complete or partial response).

Abbreviations: CI, confidence interval; DoR, duration of response; ECOG, Eastern Cooperative Oncology Group; EU, European Union; NA, North America; ORR, overall response rate; Pts, patients; RECIST, response evaluation criteria in solid tumors.

Summary of Adverse Events

	Overall Population		EU/NA Subgroup	
	Tislelizumab (n=255)	Chemotherapy (n=240)	Tislelizumab (n=54)	Chemotherapy (n=49)
Patients with <u>></u> 1 TEAE	244 (95.7)	236 (98.3)	52 (96.3)	47 (95.9)
Grade 3–5	118 (46.3)	163 (67.9)	30 (55.6)	35 (71.4)
Serious AEs	105 (41.2)	105 (43.8)	21 (38.9)	23 (46.9)
Leading to death ^a	14 (5.5)	14 (5.8)	3 (5.6)	5 (10.2)
Leading to treatment discontinuation	49 (19.2)	64 (26.7)	8 (14.8)	15 (30.6)
Most Common (Incidence ≥20%) TRAEs				
Anemia	28 (11.0)	83 (34.6)	2 (3.7)	13 (26.5)
Decreased appetite	16 (6.3)	75 (31.3)	5 (9.3)	12 (24.5)
Diarrhea	14 (5.5)	66 (27.5)	7 (13.0)	16 (32.7)
Nausea	7 (2.7)	66 (27.5)	3 (5.6)	12 (24.5)
White blood cell count decreased	5 (2.0)	98 (40.8)	0	2 (4.1)
Neutrophil count decreased	3 (1.2)	94 (39.2)	0	5 (10.2)

Data cut-off date: December 1, 2020. Overall population was stratified according to region, ECOG performance score, and chemotherapy treatment.

^aDeath events due to disease progression were excluded. All AEs are treatment-emergent and graded based on National Cancer Institute–Common Terminology Criteria for Adverse Events (version 4.03); TRAEs include TEAEs that were considered by the investigator to be related to study drug or TEAEs with a missing causality.

Abbreviations: AE, adverse event; ECOG, Eastern Cooperative Oncology Group; EU, European Union; NA, North America; TEAE, treatment-emergent adverse event; TRAE, treatment-related adverse event.

Conclusions



In the overall population, tislelizumab demonstrated **statistically significant and clinically meaningful improvement in OS** versus chemotherapy in patients with advanced or metastatic ESCC whose tumor progressed during or after first-line treatment



The OS benefit of tislelizumab over chemotherapy in the overall population was **consistently observed in patients from the EU/NA subgroup**



Tislelizumab showed a **higher and more durable antitumor response** in the overall population as well as in the EU/NA subgroup compared with chemotherapy

Tislelizumab demonstrated a **tolerable safety profile** compared with chemotherapy in the overall population

• Safety profile of tislelizumab in the EU/NA subgroup was consistent with the overall population

Data from this study suggests that tislelizumab represents a potential new second-line treatment option for patients with advanced or metastatic ESCC

Abbreviations: ESCC, esophageal squamous cell carcinoma; EU, European Union; NA, North America; OS, overall survival.