AdvanTIG-105: Phase 1b Dose-Expansion Study of Ociperlimab Plus Tislelizumab in Patients With Metastatic NSCLC

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Ociperlimab plus tislelizumab demonstrated antitumor activity as first-line treatment for patients with metastatic **NSCLC** with PD-L1 positive tumors (TC ≥1%).

Antitumor activity was observed in patients with tumors with PD-L1 TC 1-49% and PD-L1 TC ≥50%, with a higher response rate in patients with high PD-L1 TC ≥50%.

The combination of ociperlimab plus tislelizumab had an acceptable safety profile, with most TEAEs being grade 1 or 2 in severity.



Background

Programmed cell death protein 1 1)/programmed death-ligand 1 (PD-L1) inhibitors have improved outcomes for patients with non-small cell lung cancer (NSCLC), however unmet needs remain.

Inhibition of T-cell immunoreceptor with immunoglobulin and immunoreceptor tyrosine-based inhibitory motif domains (TIGIT) in combination with PD-1/PD-L1 inhibition has demonstrated early efficacy in NSCLC.2-4

Ociperlimab is a humanized Fc-intact IgG1 monoclonal antibody (mAb) designed to bind to TIGIT with high specificity and affinity.⁵ Tislelizumab is an anti-PD-1 mAb approved for the treatment of NSCLC in China.6

In the ongoing phase 1/1b, openlabel AdvanTIG-105 dose-escalation/ -expansion (NCT04047862) study, ociperlimab plus tislelizumab was well tolerated in patients with advanced, unresectable solid tumors.7



Methods

- The recommended phase 2 dose was ociperlimab 900 mg intravenously (IV) every three weeks (Q3W) plus tislelizumab 200 mg IV Q3W in the dose-escalation part of the study7
- · Here we report data from the doseexpansion part (Cohort 3) of the phase 1/1b AdvanTIG-105 study, in patients with metastatic NSCLC (Figure 1)

Figure 1. AdvanTIG-105 Study Design (Cohort 3)

Inclusion criteria

- Metastatic squamous or nonsquamous NSCLC
- PD-L1 positive^a
- EGFR/ALK/ ROS1 wild-type
- No prior treatment for metastatic disease
- FCOG PS 0-1

Ociperlimab 900 mg IV Q3W + tislelizumab 200 mg IV Q3W

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Continue until disease progression, intolerable toxicity, or withdrawal of consent

Primary endpoint

• Investigator-assessed ORR per RECIST v1.1

Key secondary endpoints

- Investigator-assessed PFS, DoR, and DCR per RECIST v1.1
- Safety
- · Correlation of PD-L1 expression with efficacy endpoints

Key exploratory endpoint

TC ≥1% by VENTANA PD-L1 (SP263) assay by central lab. Abbreviations: ALK, anaplastic lymphoma kinase; DCR, disease control rate; DoR; duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; EGFR, epidermal growth factor receptor; IV, intravenously; LGFK, epidermal growth factor receptor; IV, intravenously; NSCLC, non-small cell lung cancer; ORR, objective response rate; PD-L1, programmed death-ligand 1; PFS, progression-free survival; Q3W, every three weeks; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1; ROS1, c-ros oncogene 1; TC, tumor cell.

Results

Baseline Characteristics

- As of April 5, 2022, 40 patients were enrolled in Cohort 3 and comprised the safety analysis set, who received at least one dose of the study drug
- The median age was 65.0 years (range 46-81), and 32.5% of patients were female
- In total, 35.9% (14/39) of patients were PD-L1
- The median study follow-up was 28.1 weeks (range 3.1-61.7)

Efficacy

- · In total, 39 patients were evaluable for efficacy
- The unconfirmed ORR was 53.8% (95% CI: 37.2, 69.9). In patients with PD-L1 TC 1-49% and PD-L1 TC ≥50% subgroups, the unconfirmed ORR was 44.0% and 71.4%, respectively (Table 1)
- The median DoR was not evaluable (NE) (Table 1), and the median PFS was 5.4 months (95% CI: 4.2, NE), with 5.2 months and 5.6 months in the PD-L1 TC 1-49% and PD-L1 TC ≥50% subgroups, respectively
- · The best change in target lesions and the duration of treatment and response are shown in Figures 2 and 3, respectively

Safety

 The safety profiles of ociperlimab and tislelizumab are shown in Table 2

Table 1. Summary of Antitumor Activity

		PD-L1 TC 1-49% (n=25)	PD-L1 TC ≥50% (n=14)	Total (N=39)
Unconfirmed ORR, n (%) (95% CI)		11 (44.0) (24.4, 65.1)	10 (71.4) (41.9, 91.6)	21 (53.8) (37.2, 69.9)
Unconfirmed BOR, n (%) ^a	CR	0 (0)	1 (7.1)	1 (2.6)
	PR	11 (44.0)	9 (64.3)	20 (51.3)
	SD	11 (44.0)	3 (21.4)	14 (35.9)
	PD	2 (8.0)	1 (7.1)	3 (7.7)
DCR, n (%)b		22 (88.0)	13 (92.9)	35 (89.7)
Median DoR, months (95% CI) ^b		NE (2.2, NE)	NE	NE (4.2, NE)

*One patient in the PD-L1 1-49% group was NE. This patient had sympton which were assessed as disease progression, but was not considered to have radiological progression; *Confirmed.

Abbreviations: BOR, best overall response; CI, confidence interval; CR, complete response; DCR, disease control rate; DoR, duration of response; NE, not evaluable; ORR, objective response rate; PD, progressive disease; PD-L1, programmed-death ligand 1; PR, partial response; SD, stable disease; TC, tumor cell.

Figure 2. Best Change in Target Lesions

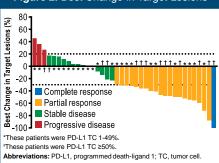
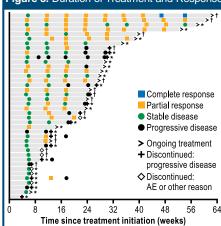


Figure 3. Duration of Treatment and Response



"These patients were PD-L1 TC 1-49%.

*These patients were PD-L1 TC ≥50%.

*Abbreviations: AE, adverse event; PD-L1, programmed-death ligand 1; TC, tumor cell.

 Table 2. Summary of TEAEs and TRAEs

 (Safety Analysis Set)

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	N=40				
Patients, n (%)	TEAEs	TRAEs			
Patients with at least one AE	38 (95.0) ^a	31 (77.5)			
≥ Grade 3 AE	11 (27.5) ^b	4 (10.0)°			
Serious AE	10 (25.0)	4 (10.0)			
AE leading to ociperlimab dose modification	17 (42.5)	=			
AE leading to tislelizumab dose modification	17 (42.5)	=			
AE leading to ociperlimab discontinuation	3 (7.5)	1 (2.5)			
AE leading to tislelizumab discontinuation	3 (7.5)	1 (2.5)			
AE leading to death	1 (2.5)	0 (0)			

a The most common TEAEs were pruritus (32.5%), pyrexia (30.0%), decreased appetite (20.0%), rash (20.0%), anemia (17.5%), nausea (17.5%), and dyspnea (17.5%), "The most common grade ≥3 TEAEs were pneumonia (7.5%) and anemia (5.0%); "The TRAEs were hyperglycemia, lipase increased, pruritis, acute kidney injury, and pneumonia.

Abbreviations: AE, adverse event; TEAE, treatment-emergent adverse event TRAE, treatment-related adverse event.

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Acknowledgments

Disclosures

DISCIOSUIRES

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