AdvanTIG-203: A randomized Phase 2 study comparing anti-TIGIT monoclonal antibody ociperlimab plus tislelizumab vs tislelizumab plus placebo as second-line treatment in patients with advanced or recurrent esophageal squamous cell carcinoma expressing programmed death-ligand 1 (PD-L1)

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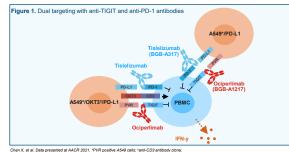
Introduction

Unmet need in ESCC

- Esophageal cancer is the eighth most common cancer globally, with approximately 544,000 deaths in 2020, and is the sixth
 most common cause of cancer-related deaths.¹ Esophageal squanous cell carcinoma (ESCC) represents over 90% of
 esophageal cancer cases in Asia, South America, and the Middle East²
- First-line treatment with programmed cell death protein-1 (PD-1) antibodies in combination with chemotherapy has been shown to provide improvements in objective response rate (ORR), overall survival (OS), and progression-free survival (PFS) vs chemotherapy alone, in patients with advanced ESCO²
- PD-1 antibodies have also demonstrated improvements in OS and ORR vs second-line chemotherapy in patients with recurrent locally advanced or metastatic ESCC, who progressed on or after one prior line of systemic treatment.^{4,5} PD-11 may be a predictive biomarker for clinical benefit⁶
- However, for patients who are anti-PD-1 naive, there is still an unmet need for second-line treatment options. Few patients
 with ESCC receive treatment beyond second-line therapy, often due to a significant decline in performance status and lack
 of clinical benefit. In general, fewer than 5% of patients with ESCC survive beyond 5 years²

Introduction to ociperlimab, tislelizumab, and the AdvanTIG-203 study

- T-cell immunoreceptor with immunoglobulin and immunoreceptor tyrosine-based inhibition motif domain (TIGIT) is a co-inhibitory immune checkpoint receptor expressed on immune cells, including T cells and natural killer (NK) cells in multiple solid tumors, which can inhibit anticancer immune responses⁷³
- Ociperlimab is a humanized IgGT monoconal antibody designed to bind to TIGIT with high specificity and affinity.
 Ociperlimab binds to TIGIT, blocking interaction with CD155 (PVR) and CD112 (PVR-L2; nectin-2) ligands on tumor cells, resulting in reactivation of Toell-mediated and NK cell antitumor immune responses⁸
- Tislelizumab is an anti-PD-1 antibody engineered to minimize binding to FcγR on macrophages to abrogate antibody-dependent phagocytosis, a mechanism of T-cell clearance and potential resistance to anti-PD-1 therapy^{10,11}
- Tislelizumab demonstrated statistically significant and clinically meaningful improvement in OS in patients with advanced or metastatic ESCC, compared with second-line chemotherapy¹²
- Dual targeting of tumors with anti-TIGIT and anti-PD-1 monoclonal antibodies (Figure 1) produces synergistic immune cell
 activation and enhanced antitumor activity in preclinical and clinical studies^{8,13}
- We report the design of an ongoing Phase 2, AdvanTIG-203 study, which is investigating the efficacy and safety of ociperlimab plus tislelizumab in patients with previously treated, unresectable, locally advanced, recurrent or metastatic ESCC



Chen X, et al. Data presented at AACR 2021. "PVR positive A549 cells; Tanti-CD3 antibody PBMC, human peripheral blood mononuclear cells; PVR, poliovirus receptor

Conclusions

Advan-TIG-203 is an ongoing Phase 2 study investigating whether ociperlimab + tislelizumab combination therapy improves ORR and OS vs tislelizumab + placebo in adults with unresectable, locally advanced, recurrent or metastatic ESCC

Methods

Study design and treatment

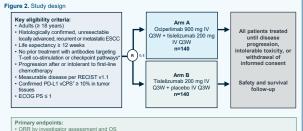
 AdvanTIG-203 is a randomized, Phase 2, double-bind study (NCT04732494) being conducted in approximately 100 centers globally in ~280 patients with unresectable, locally advanced, recurrent or metastatic ESCC, whose tumors express PD-1 (visually-estimated Combined Positive Score (VCPS) ≥ 10% (Figure 2)

Study enrolment has begun, and recruitment is ongoing

- Eligible patients will be randomized 1:1 to:
- Arm A: Ociperlimab 900 mg plus tislelizumab 200 mg intravenously (IV) every 3 weeks (Q3W)
- Arm B: Tislelizumab 200 mg plus placebo IV Q3W

Stratification factors include Eastern Cooperative Oncology Group Performance Status (ECOG PS) score (0 vs 1), number of organs with metastases (\$1 vs \$2), and region (Asia vs non-Asia)

 Study drugs (including placebo) will be administered until disease progression per Response Evaluation Criteria in Solid Tumors version 1.1 (RECIST v1.1), unacceptable toxicity, or withdrawal of informed consent, whichever occurs first



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Endpoints and assessments

- Co-primary endpoints are:
 - Investigator-assessed ORR in the intent-to-treat (ITT) analysis set, according to RECIST v1.1
 OS in the ITT analysis set
- Secondary endpoints are listed in Table 1
- a Tumor imaging will be performed at baseline (≤ 28 days before randomization). During the study, tumor imaging will be performed approximately every 6 weeks (± 7 days) for the first 54 weeks and every 12 weeks (± 7 days) thereafter
- Responses will be assessed using RECIST v1.1. If a patient continues to benefit from study drugs after disease progression per RECIST v1.1, the patient may continue the study treatment at the investigator's discretion
- Patients will be evaluated for adverse events (AEs) and serious AEs (SAEs), and immune-mediated AEs. Vital signs, physical examinations, ECOG PS change, electrocardiogram results, and other examinations will be used for safety assessments (Table 1)

Table 1. Secondary and exploratory endpoints

Secondary endpoints	Exploratory Endpoints
ORR by IRC*	 Association between exploratory biomarkers and clinical efficacy, disease status, and resistance
PFS by IRC and investigators*	 Biomarkers include, but are not limited to, TIGIT, CD226, CD155, CD112 and PD-L1, GEP, and TMB/gene mutation/MSI
DoR by IRC and investigators*	
DCR by IRC and investigators*	 Serum ociperlimab and tislelizumab concentrations at specified timepoints
CBR by IRC and investigators*	
• HRQoL	Immunogenic responses to ociperlimab and tislelizumab*
-EOTRC, QLQ-C30, and QLQ-OES18	QoL, measured by EQ-5D-5L assessment
- Type, frequency, and severity of AEs and SAEs'	

*According to RECIST v1.1; †Graded by NCI-CTCAE version 5.0; #Assessed through detection of antidrug antibodies

CBR, clinical benefit rate; EORTC, European Organization for Research and Treatment of Cancer; EQ-5D-SL, European Quality of Life 5 Dimensional 5-Level; MSI, microsabilite instability, NCI-CTCAE, National Cancer Institute-Common Terminology Otteria for Adverse Events; QLQ-C30, EORTC Quality of Life Questionnaire Core 30, QLQ-OC516, EORTC Quality of Life Decoparad Cancer Questionnaires 16, TMB, tume mutation burden

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Acknowledgements

This study is sponsored by BeiGene, Ltd. Medical writing support, under the direction of the authors, was provided by Jessica Jones, PhD, and Tamsin Grewal, MSc, of Ashfield MedComms, an Ashfield Health company, and funded by BeiGene, Ltd.

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