## Safety and efficacy of sitravatinib plus tislelizumab in patients with PD-L1-positive, locally advanced or metastatic, nonsquamous non-small cell lung cancer; SAFFRON-103

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Sitravatinib plus tislelizumab had a manageable safety and tolerability profile in patients with PD-L1 ≥1%, locally advanced or metastatic nonsquamous NSCLC.

The combination demonstrated promising antitumor activity (ORR, 57.1%; median PFS. 11.1 months: median OS. 17.4 months).

A phase 3 study investigating this combination therapy in advanced NSCLC is currently recruiting (NCT04921358).

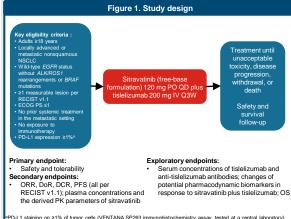
## Background

Patients with programmed death-ligand 1-expressing (PD-L1 ≥1%), locally advanced or metastatic, nonsquamous non-small cell lung cancer (NSCLC) have a poor prognosis and despite the availability of anti-programmed cell death protein 1 (PD-1)-based treatments, there remains a need for further treatment options.1

## Methods

This was an open-label nonrandomized phase 1b study

- The primary endpoint was safety and tolerability (Figure 1)
- Between November 7, 2019, and December 23, 2020, 22 patients were enrolled. All patients were included in the safety analysis set, and 21 patients in the efficacy-evaluable analysis set



Abbreviations: ALK, anaplastic lymphoma kinase; BRAF, B-Raf; DCR, disease control rate; DoR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; EGFR, epidermal growth factor receptor; IV, ntravenous; NSCLC, non-small cell lung cancer; ORR, overall response rate; OS, overall survival; PD-L1, programmed death-ligand 1; PFS, progression-free survival; PK, pharmacokinetic; PO, oral; Q3W, every 3 weeks; QD, once daily; ECIST, Response Evaluation Criteria in Solid Tumors; ROS1, proto-oncogene tyrosine-protein kinase ROS.

# Results

polarized macrophages.2-4

- The median age was 60.5 years (range: 41-78), and 68.2% of patients were male (Table 1)
- Median study follow-up was 11.8 months (range: 0.9-17.9)
- As of the data cutoff (November 8, 2021), all patients experienced at least one treatmentemergent adverse event (TEAE), with a ≥grade 3 TEAE occurring in 59.1% of patients (Table 2)

Sitravatinib, a selective tyrosine kinase inhibitor, may help to reduce the

number of myeloid-derived suppressor cells and regulatory T cells, promotes

the expansion of antitumor cytotoxic T cells, and increases the ratio of M1/M2-

- Treatment-related adverse events (TRAEs) of any grade and ≥grade 3 were reported in 95.5% and 50.0% of patients, respectively; serious TRAEs were observed in 36.4% (Table 2)
- The most commonly reported ≥grade 3 TEAE and ≥grade 3 TRAE were hypokalemia (18.2%) and hypertension (13.6%), respectively
- The most common TEAEs occurring in ≥30% of patients are listed in Table 3 Efficacy

  - In the efficacy-evaluable population confirmed objective response rate (ORR) was 57.1% (95% CI: 34.0, 78.2) with all 12 patients achieving partial response (Figure 2)
  - Disease control rate was 85.7% (95% CI: 63.7, 97.0)

#### Table 1. Patient baseline characteristics (safety analysis set)

	N=22
Median age, years (range)	60.5 (41-78)
Male sex, n (%)	15 (68.2)
Race, n (%)	
Asian/White	21 (95.5)/1 (4.5)
COG performance status, n (%)	
0/1	4 (18.2)/18 (81.8)
obacco use, n (%)	
Never/Current/Former	11 (50.0)/1 (4.5)/10 (45.5)
isease stage, n (%)	
Metastatic	19 (86.4)
Prior anticancer drug therapy, n (%) <sup>a</sup>	1 (4.5)
Dne patient received adjuvant therapy. bbreviation: ECOG, Eastern Cooperative Oncology Gro	up.

	s (safety analysis set) N=22		
Patients, n (%)	TEAEs	TRAEs	
Any AE	22 (100.0)	21 (95.5)	
≥Grade 3	13 (59.1)	11 (50.0)	
Serious AE	10 (45.5)	8 (36.4)	
≥Grade 3	8 (36.4)	4 (18.2)	
AE leading to death	2 (9.1) <sup>a</sup>	2 (9.1)	
AE leading to sitravatinib discontinuation	2 (9.1) <sup>b</sup>	2 (9.1)	
AE leading to tislelizumab discontinuation	2 (9.1)°	1 (4.5)	
AE leading to sitravatinib dose modification <sup>d</sup>	16 (72.7)	16 (72.7)	
AE leading to tislelizumab dose modificatione	13 (59.1)	12 (54.5)	

Tislelizumab, an anti PD-1 antibody engineered to minimize binding to

FcyR on macrophages, has shown clinical activity in patients with

advanced solid tumors, including nonsquamous NSCLC.5,6

sitravatinib and tislelizumab (n=1); "Death (n=1) and pulmonary tuberculosis (n=1); "AE leading to sitravatinib dose modification included dose reduction and/or interruption; \*AE leading to tislelizumab dose modification included dose delay. Abbreviations: AE, adverse event; TEAE, treatment-emergent adverse event; TRAE, treatment-related adverse

#### Table 3. TEAEs with ≥30% frequency (safety analysis set)

Patients, n (%)	N=22
Patients with ≥1 TEAE	22 (100.0)
Aspartate aminotransferase increased	14 (63.6)
Alanine aminotransferase increased	12 (54.5)
Diarrhea	11 (50.0)
Hypothyroidism	10 (45.5)
Hypoalbuminemia	9 (40.9)
Palmar-plantar erythrodysesthesia syndrome	9 (40.9)
Blood creatine phosphokinase increased	7 (31.8)
Hypokalemia	7 (31.8)
Proteinuria	7 (31.8)

Abbreviation: TEAE, treatment-emergent adverse event

- Higher PD-L1 staining in tumor cells correlated with a trend for increased ORR (Table 4) and median progression-free survival (PFS); the median overall survival (OS) in the higher PD-L1 expression level subgroup was not reached
- Median PFS was 11.1 months (95% CI: 5.5, not estimable [NE]) and median OS was 17.4 months (95% CI: 11.8, NE) (Figure 3)



This phase 1b study assessed safety, tolerability, and antitumor activity of

sitravatinib and tislelizumab in advanced solid tumors (NCT03666143).

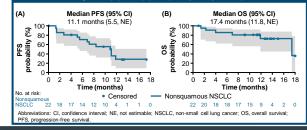
We report results from patients with PD-L1 ≥1%, nonsquamous NSCLC.

One patient did not have post baseline target lesion measurements due to death before first scheduled tumor assessment, but this patient was included in the efficacy evaluable analysis set Abbreviations: BOR, best overall response; PD, progressive disease; PR, partial response; SD, stable disease

Table 4. Efficacy analysis by PD-L1 subgroup						
	Efficacy-evaluable analysis set (N=21ª)		Safety analysis set (N=22ª)			
	n	ORR (95% CI)	n	mPFS (95% CI)	mOS (95% CI)	
PD-L1 TC 1-49%	9	44.4 (13.7, 78.8)	10	7.2 (1.3, 11.1)	17.4 (1.3, 17.4)	
PD-L1 TC ≥50%	11	63.6 (30.8, 89.1)	11	11.8 (5.5, NE)	NR (11.8, NE)	

<sup>a</sup>One patient had <1% PD-L1 TC expression level and did not meet the inclusion criteria for this cohort. This patient was included in both the safety and efficacy evaluable analysis sets but was excluded from the PD-L1 subgroup analysis. Abbreviations: C1, confidence interval; mCS, median overall survival; mPFS, median progression-free survival; NE, not estimable; NR, not reached; ORR, objective response rate; PD-L1, programmed dealh-ligand 1; TC, tumor cell.

#### Figure 3. (A) PFS (B) OS (safety analysis set)



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#### Acknowledgments Percent I, et al. J Clin Oncol. 2020;38(suppl

This study was sponsored by BeiGene. Ltd. The authors acknowledge the contributions of Cong Fei in the analysis of the biomarker data. Medical writing support, under direction of the authors, was provided by Louise Oakes, PhD, and Sophie Cook, PhD, of Ashfield MedComms, an Inizio company, and was funded by BeiGene, Ltd.

Disclosures

J Zhao, JW, LW, MS, BG, ZM, YL, ZW: no conflict of interest to disclose: XL, HL, J Zhang, JS, YP: employment: BeiGene Co., Ltd.: Y-LW: research funding and honoraria: AstraZeneca, BMS, and Pfizer; honoraria: Boehringer Ingelheim, Eli Lilly, Hengrui, MSD, Sanofi, Roche.

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