

# Sitratavitinib + tislelizumab in patients with metastatic non-small cell lung cancer

Qing Zhou,<sup>1</sup> Xinmin Yu,<sup>2</sup> Bo Gao,<sup>3</sup> Zhiyong Ma,<sup>4</sup> Qian Chu,<sup>5</sup> Dingzhi Huang,<sup>6</sup> Jun Zhao,<sup>7</sup> Daphne Day,<sup>8</sup> Amy Louise Body,<sup>8</sup> Hongming Pan,<sup>9</sup> Jiawei Cui,<sup>10</sup> Cheng Chen,<sup>11</sup> Juan Zhang,<sup>11</sup> Jun Wang,<sup>11</sup> Cong Fei,<sup>11</sup> Liu Yang,<sup>11</sup> Yi-Long Wu<sup>1</sup>

<sup>1</sup> Guangdong Lung Cancer Institute, Guangdong Provincial People's Hospital and Guangdong Academy of Chinese Sciences, Guangzhou, China; <sup>2</sup> Department of Medical Oncology, Cancer Hospital of University of Chinese Academy of Sciences & Zhejiang Cancer Hospital, Blackdown Cancer and Hematology Center, Blackdown, NSW, Australia; <sup>3</sup> The Affiliated Cancer Hospital of Zhengzhou University/Henan Cancer Hospital, Zhengzhou, China; <sup>4</sup> Department of Oncology, Tongji Hospital of Tongji Medical College, Huazhong University of Science and Technology, Tianjin Medical University Cancer Institute and Hospital, Tianjin Key Laboratory of Cancer Prevention and Therapy, National Clinical Research Center for Cancer, Key Laboratory of Carcinogenesis and Translational Research (Ministry of Education), Beijing, China; <sup>5</sup> Department of Thoracic Medical Oncology, Peking University Cancer Hospital & Institute, Beijing, China; <sup>6</sup> Monash Health and Monash University, Melbourne, Australia; <sup>7</sup> Sir Run Run Shaw Hospital, Zhejiang University, Hangzhou, China; <sup>8</sup> The First Hospital of Jilin University, Changchun, China; <sup>9</sup> BiGene (Beijing) Co., Ltd., Beijing, China

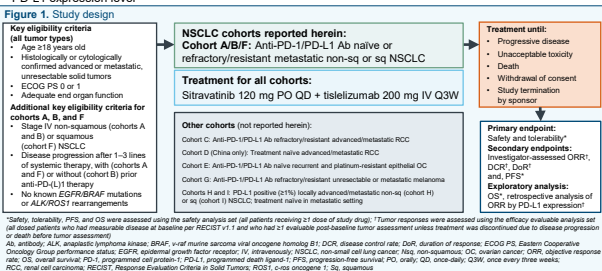
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## Introduction

- Patients with advanced non-small cell lung cancer (NSCLC) often develop progressive disease, but treatment options are limited for patients heavily pretreated with anti-programmed death protein/ligand-1 (PD-(L)1) antibodies and/or chemotherapy<sup>1-3</sup>
- Sitratavitinib is an oral spectrum-selective tyrosine kinase inhibitor targeting TAM (TYRO3, AXL, MER) and split tyrosine-kinase domain-containing receptors (VEGFR2, KIT)<sup>4</sup>
  - Preclinical studies demonstrate that sitratavitinib reduces the number of myeloid-derived suppressor cells and regulatory T cells and increases the ratio of M1/M2 polarized macrophages, which may help overcome resistance to immune checkpoint inhibitors and augment antitumor immune responses<sup>4</sup>
- Tislelizumab is an anti-PD-1 antibody with high affinity and binding specificity for PD-1 that has been engineered to minimize binding to FcγR on macrophages to abrogate antibody-dependent phagocytosis, a potential mechanism of resistance<sup>5,6</sup>
- Combining a PD-1 inhibitor and an agent with immune modulatory and antitumor properties may enhance antitumor activity beyond that provided by either agent alone<sup>4,7</sup>
- A Phase 1b study assessed the safety, tolerability, and antitumor activity of sitratavitinib + tislelizumab in various solid tumors
  - We report results from metastatic NSCLC cohorts including both anti-PD-(L)1-naïve patients and those with tumors refractory/resistant (R/R) to anti-PD-(L)1 therapy

## Methods

- An open-label, multicenter, non-randomized, multi-cohort, Phase 1b trial was conducted (NCT03666143)
- Study design and endpoints are summarized in Figure 1
- Cohorts reported herein (A, B, and F) included patients with squamous or non-squamous metastatic NSCLC treated with 1-3 prior lines of systemic therapy, with or without an anti-PD-(L)1 inhibitor, enrolled regardless of PD-L1 expression level



## Results

- Patients**
  - From December 2018–June 2020, 75 patients were enrolled, including:
    - 46 patients with non-squamous NSCLC and 29 patients with squamous NSCLC;
    - 28 anti-PD-(L)1-naïve patients and 47 with disease R/R to PD-(L)1 therapy
  - Median follow-up at the time of data cut-off (October 13, 2020) was 10.1 months (range: 0.4 to 18.8)
  - 10 patients (13.3%) remained on treatment
  - Baseline characteristics are summarized in Table 1

**Table 1. Demographics and baseline characteristics**

	Total (N=75)	
Age, years	Median (range)	60.0 (25–79)
Sex, n (%)		
Male		59 (78.7)
Female		16 (21.3)
Race, n (%)		
Asian		62 (82.7)
White		13 (17.3)
ECOG PS, n (%)		
0		17 (22.7)
1		58 (77.3)
Prior lines of anticancer therapy, months	Median (range)	35 (46.7)
Prior lines of anticancer therapy, months	Median (range)	32 (40.5)
Duration of last therapy, months	Median (range)	4.5 (0.7–24.9)

ECOG PS, Eastern Cooperative Oncology Group performance status

## Conclusions

- Sitratavitinib + tislelizumab had a manageable safety and tolerability profile, which is consistent with what has previously been reported in patients with non-squamous or squamous metastatic NSCLC who were either pretreated or naïve to anti-PD-(L)1 treatment
- The combination demonstrated preliminary antitumor activity, both in patients who were naïve to anti-PD-(L)1 treatment and in those with anti-PD(L)1 R/R disease, with an overall ORR of 16.9%, DCR of 84.5% and PFS of 5.5 months
- These results support the further investigation of sitratavitinib + tislelizumab in metastatic NSCLC patient populations

## Safety

- Median duration of exposure was 17.9 weeks (range: 1.3 to 78.1) for sitratavitinib and 18.1 weeks (range: 3.0 to 78.1) for tislelizumab
- Mean relative dose intensity was 79.7% (SD: 20.3) for sitratavitinib and 93.7% (SD: 11.8) for tislelizumab

- All patients had a treatment-emergent adverse event (TEAE) and treatment-related adverse event (TRAE) (Table 2)
  - Hypertension was the most commonly reported Grade ≥3 TEAE and TRAE
  - No cases of hypertension led to treatment discontinuation
- 73.3% of patients experienced dose modification (including dose reduction and/or interruption) of sitratavitinib due to TEAEs
  - TRAEs leading to death were reported in three patients, including one case each of ischemic stroke (considered related to sitratavitinib), cardiac failure with pneumonia and respiratory failure (considered related to tislelizumab), and unspecified death (considered related to both drugs)

**Table 2. Summary of TEAE and TRAE incidence (safety analysis set)**

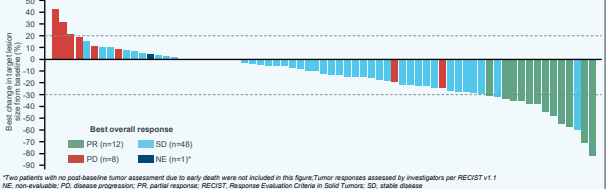
Patients, n (%)	All patients (N=75)
Any AE	75 (100.0)
Grade ≥3 AE	55 (73.3)
Serious AE	41 (54.7)
Grade ≥3 serious AE	34 (45.3)
AE leading to death	10 (13.3)
AE leading to sitratavitinib discontinuation	15 (20.0)
AE leading to tislelizumab discontinuation	10 (13.3)
AE leading to sitratavitinib dose modification <sup>1</sup>	55 (73.3)
AE leading to tislelizumab dose modification <sup>2</sup>	30 (40.0)
<b>Grade ≥3 AEs reported in ≥5% of patients<sup>3</sup></b>	
Hypertension	12 (16.0)
Death	4 (5.3)
Stomatitis	5 (6.7)
Pneumonia	4 (5.3)

## Efficacy: Tumor response

- In the overall population, confirmed objective response rate (ORR) was 16.9% (Table 3)
  - ORR was numerically higher in patients naïve to anti-PD-(L)1 therapy (22.2%) compared with patients with anti-PD-(L)1 R/R disease (13.8%)
  - Median duration of response was 7.0 months, which did not differ between patients naïve to anti-PD-(L)1 therapy and patients with anti-PD-(L)1 R/R disease
- Confirmed partial response and stable disease were reported in 12 (16.9%) and 48 (67.6%) patients, respectively, in the overall patient population. Few patients (n=8 [11.3%]) had progressive disease (Table 3 and Figure 2)
- Disease control was achieved in >80% of patients in both anti-PD-(L)1 pretreated and naïve groups (Table 3)

<sup>1</sup>AE leading to sitratavitinib dose modification includes dose reduction and/or interruption; <sup>2</sup>AE leading to tislelizumab dose modification includes dose delay and/or interruption; <sup>3</sup>Incidence reported by preferred term for any TEAE or TRAE reported in ≥5% of patients. All AEs are treatment-emergent and graded based on National Cancer Institute/Common Terminology Criteria for Adverse Events (version 5.0). <sup>4</sup>AE, adverse event; TEAE, treatment-emergent AE; TRAE, treatment-related AE.

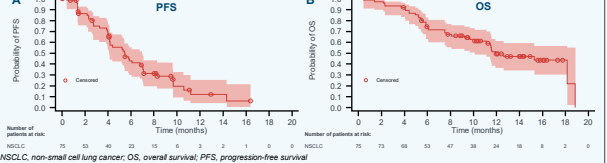
## Figure 2. Best change in target lesion size from baseline by confirmed best overall response (efficacy evaluable analysis set)



## Efficacy: Survival

- In the overall population, median progression-free survival (PFS) was 5.5 months (95% CI: 4.1, 7.0) (Figure 3A)
  - Median PFS was numerically longer in patients naïve to anti-PD-(L)1 therapy (7.0 months [95% CI: 2.7, 11.2]) compared with those with anti-PD-(L)1 R/R disease (5.2 months [95% CI: 4.1, 5.9])
- Median overall survival (OS) was 11.9 months (95% CI: 10.1, 18.8) in the overall population (Figure 3B), 15.3 months (95% CI: 11.5, 18.8) in anti-PD-(L)1-naïve patients, and 10.1 months (95% CI: 6.1, 18.1) in those with anti-PD-(L)1 R/R disease
  - OS data are not mature (median follow-up duration: 14.1 months)

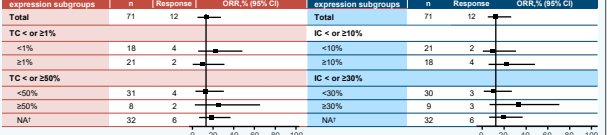
## Figure 3. PFS and OS (safety analysis set)



## Efficacy: Tumor response by PD-L1 expression

- Defined cut-offs for PD-L1 tumor cell (TC) or immune cell (IC) expression were used to investigate whether there was an association between PD-L1 expression and tumor response (Figure 4)
  - A trend for higher ORR was observed in patients with higher PD-L1 IC expression
  - No association was observed between ORR and PD-L1 TC
  - Further exploration is required in a larger population

## Figure 4. Subgroup analysis of ORR by TC and IC PD-L1 expression (efficacy evaluable analysis set)<sup>1</sup>



**References**

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**Author contact details:** gzzhouqing@126.com (Qing Zhou)