

## SAFFRON-301: Tislelizumab plus sitravatinib in advanced/metastatic NSCLC progressing on/after chemotherapy and anti-PD-(L)1

**Authors:** Qing Zhou,<sup>1</sup> Bo Gao,<sup>2</sup> Jie Hu,<sup>3</sup> Jun Zhao,<sup>4</sup> Mengzhao Wang,<sup>5</sup> Kai He,<sup>6</sup> Wei Zhang,<sup>7</sup> Chunling Liu,<sup>8</sup> Jian Fang,<sup>9</sup> Xingya Li,<sup>10</sup> Zehai Wang,<sup>11</sup> Marco Matos,<sup>12</sup> Vineet Kwatra,<sup>13</sup> Xin Li,<sup>14</sup> Yaxi Chen,<sup>14</sup> Juan Zhang,<sup>14</sup> Jun Wang,<sup>14</sup> Yi-Long Wu<sup>15</sup>

**Affiliations:** <sup>1</sup>Guangdong Lung Cancer Institute, Guangdong Provincial People's Hospital (Guangdong Academy of Medical Sciences), Southern Medical University, Guangzhou, China; <sup>2</sup>Blacktown Cancer and Haematology Centre, Blacktown, Australia; <sup>3</sup>Fudan University Affiliated Zhongshan Hospital, Shanghai, China; <sup>4</sup>Beijing Cancer Hospital, Beijing, China; <sup>5</sup>Peking Union Medical Hospital, Beijing, China; <sup>6</sup>The Ohio State University College of Medicine, Columbus, OH, USA; <sup>7</sup>The First Affiliated Hospital of Nanchang University, Nanchang, China; <sup>8</sup>Xinjiang Cancer Hospital, Urumqi, China; <sup>9</sup>Beijing Cancer Hospital, Beijing, China; <sup>10</sup>The First Affiliated Hospital of Zhengzhou University, Zhengzhou, China; <sup>11</sup>Shandong Cancer Hospital, Jinan, China; <sup>12</sup>Pindara Private Hospital, Benowa, Australia; <sup>13</sup>Cancer Research South Australia, Adelaide, Australia; <sup>14</sup>BeiGene (Beijing) Co., Ltd., Beijing, China; <sup>15</sup>Guangdong Lung Cancer Institute, Guangdong Provincial People's Hospital (Guangdong Academy of Medical Sciences), Southern Medical University, Guangzhou, China

### ABSTRACT

**Introduction:** There are limited treatment options for patients with advanced NSCLC who were previously treated with chemotherapy and/or anti-programmed cell death protein-1 (PD-1)/–programmed death-ligand 1 (PD-L1) antibodies. Tislelizumab (TIS) is an anti-PD-1 antibody. Sitravatinib (sitra) is a receptor tyrosine kinase inhibitor that can shift the immunosuppressive tumor microenvironment toward an immunostimulatory state. Combining sitravatinib with tislelizumab may potentially overcome initial checkpoint inhibitor resistance. We present efficacy/safety results from an open-label, randomized, phase 3 trial evaluating TIS plus sitra versus docetaxel (doc) in patients with previously treated locally advanced/metastatic NSCLC (NCT04921358).

**Methods:** Adults (≥18 years) with unresectable locally advanced/metastatic histologically or cytologically confirmed NSCLC (ECOG PS ≤1), who were previously treated with ≤2 lines of systemic chemotherapy and anti-PD-(L)1 antibodies were eligible. Patients were randomized (1:1) to TIS 200 mg intravenously once every 3 weeks (Q3W) in combination with sitra 100 mg orally once daily (TIS+sitra) or doc 75 mg/m<sup>2</sup> intravenously Q3W. Patients were treated until disease progression, intolerable toxicity, death, or consent withdrawal. Co-primary endpoints were overall survival (OS) and independent-review committee (IRC)-assessed progression-free survival (PFS). Secondary endpoints included IRC-assessed objective response rate (ORR) by RECIST v1.1 and treatment-emergent adverse events (TEAEs).

**Results:** As of Dec 20, 2023, 187 and 190 patients were randomized to TIS+sitra and doc, respectively (median age [TIS+sitra/doc]: 63.0/63.0 years; median follow-up: 8.0/7.6 months). Most patients (TIS+sitra/doc) were male (81.8%/79.5%), Asian (93.6%/93.2%), had an ECOG PS 1 (74.9%/75.8%), had received 1 line of prior chemotherapy (75.9%/73.7%), and had metastatic disease (77.0%/74.2%). Median OS (95% confidence interval [CI]) was 11.5 (9.4–14.6) and 11.4 (9.9–15.0) months with TIS+sitra and doc, respectively; hazard ratio (HR) (95% CI), 1.02 (0.75–1.39). Median IRC-assessed PFS (95% CI) was 4.4 (4.0–5.7) (TIS+sitra) and 2.9 (2.6–4.2) months (doc); HR (95% CI): 0.82 (0.62–1.07). IRC-assessed ORR (95% CI) was 12.3% (8.0%–17.9%) (TIS+sitra) and 12.6% (8.3%–18.2%) (doc). The incidences of TEAEs was higher with TIS+sitra than doc (**Table**). Grade ≥3 TEAEs occurring in ≥5% of TIS+sitra or doc groups were (TIS+sitra/doc): hypertension (13.4%/1.1%), pneumonia (9.1%/8.5%), palmar-plantar erythrodysesthesia syndrome (6.5%/0%), hypokalemia

(5.4%/2.3%), white blood cell count decreased (0%/29.4%), neutrophil count decreased (0.5%/28.8%), neutropenia (0.5%/7.3%), and febrile neutropenia (0%/5.6%). The trial was terminated due to safety risks/unfavorable benefit-risk analysis.

**Conclusions:** In patients with previously treated advanced/metastatic NSCLC, TIS+sitra showed similar efficacy to doc and was associated with a higher incidence of TEAE.

**Table**

<b>Patients with treatment-emergent adverse events, n (%)</b>	<b>Tislelizumab + sitravatinib (N = 186)</b>	<b>Docetaxel (N = 177)</b>
Any	183 (98.4)	162 (91.5)
Grade $\geq$ 3	121 (65.1)	100 (56.5)
Serious	83 (44.6)	66 (37.3)
Leading to death	15 (8.1)	5 (2.8)
Leading to treatment discontinuation (any component)	45 (24.2)	15 (8.5)
Any Immune-mediated AEs	91 (48.9)	18 (10.2)
Grade $\geq$ 3	18 (9.7)	4 (2.3)