

# **Safety/tolerability and preliminary antitumor activity of sitravatinib plus tislelizumab in patients with PD-(L)1 refractory/resistant unresectable or metastatic melanoma from a Phase 1b study**

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# Disclosure information

## Chuanliang Cui

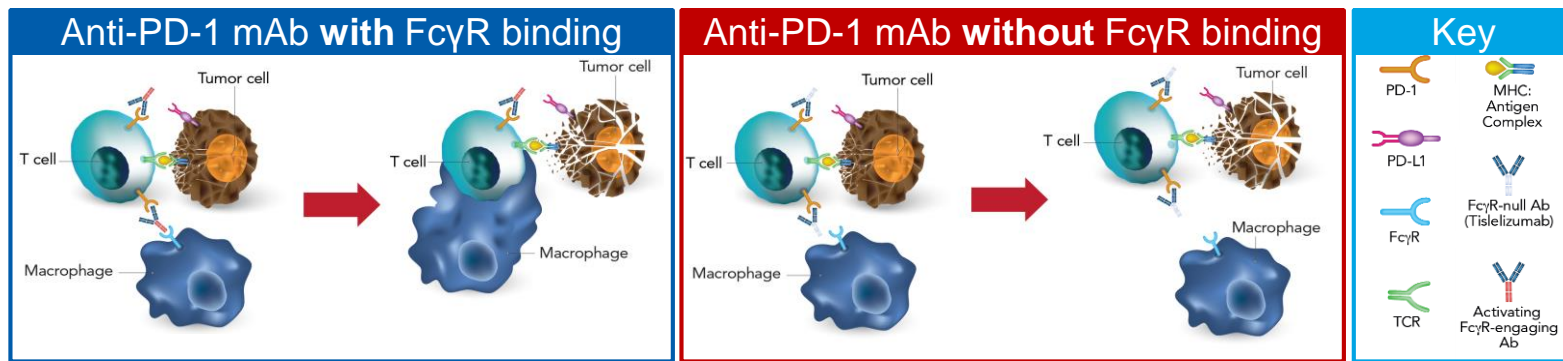
I have no financial relationships to disclose

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# Background

- Immune CPIs are established as the standard of care in the first-line setting for patients with unresectable or metastatic melanoma<sup>1-3</sup>
- However, not all patients respond and a subset of patients who initially respond to CPI, later relapse and develop drug resistance<sup>4</sup>
- Tislelizumab is an anti-PD-1 antibody engineered to minimize FcγR binding on macrophages in order to abrogate antibody-dependent phagocytosis, a mechanism of T cell clearance and potential anti-PD-1 resistance<sup>5-7</sup>

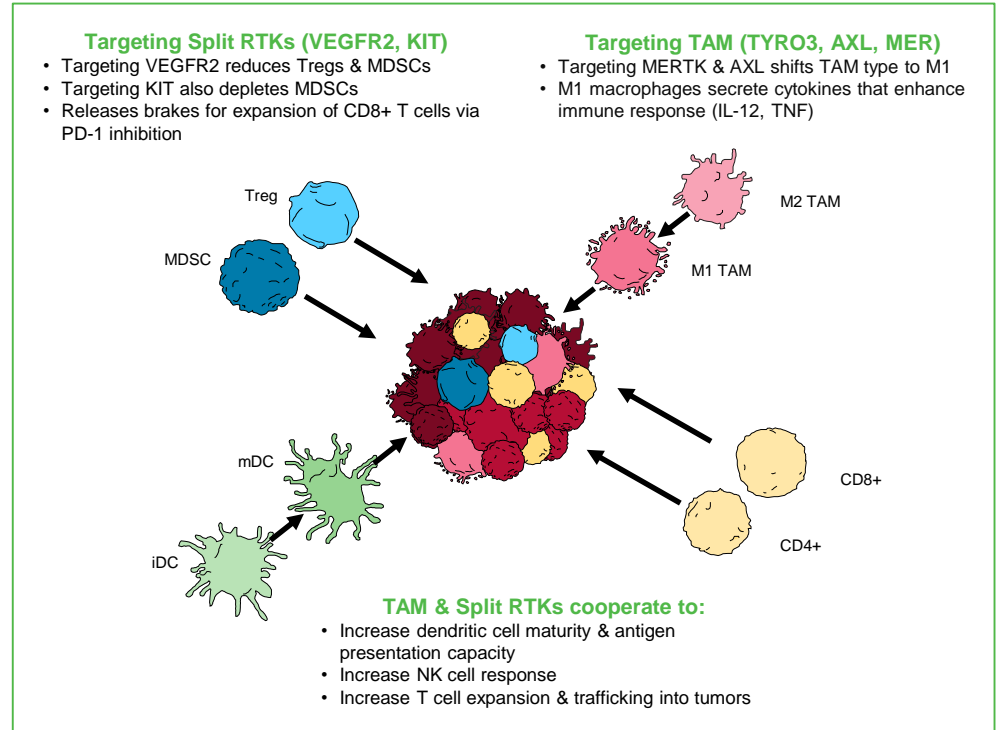
## Tislelizumab MoA



Ab, antibody; CPI, checkpoint inhibitor; MHC, major histocompatibility complex; MoA, mechanism of action; mAb, monoclonal antibody; PD-1, programmed cell death protein 1; PD-L1, programmed death ligand 1.  
1. Hodi FS, et al. N Engl J Med 2010;363:711-23; 2. Robert C, et al. N Engl J Med 2015;372:2521-32; 3. Larkin J, et al. N Engl J Med 2015;373:23-34; 4. Gide TN, et al. Clin Can Res 2018;24:1260-70 5. Zhang T, et al. Cancer Immunol Immunother 2018;67:1079-90; 6. Dahan R, et al. Cancer Cell 2015 Sep 14;28:285-95; 7. Qin S, et al. Future Oncol 2019 15:1811-1822

# Background

- Sitravatinib is an oral spectrum-selective TKI targeting TAM (TYRO3, AXL, MER) and split (VEGFR2/KIT) receptors<sup>1</sup>
- Inhibition of these receptors reduces the number of MDSCs and regulatory T cells, while increasing the ratio of M1/M2-polarized macrophages, which may overcome an immunosuppressive tumor microenvironment and augment antitumor immune responses<sup>1</sup>
- Combining an anti-PD-1 CPI with an agent that has both pleiotropic and antitumor properties could enhance the antitumor efficacy observed with either agent alone<sup>2,3</sup>
- Tislelizumab plus sitravatinib is currently being investigated in several solid tumor types, including metastatic melanoma (NCT03666143)



iDC, induced dendritic cell; mDC, myeloid dendritic cell; MDSCs, myeloid-derived suppressor cells; NK, natural killer; PROC, platinum-resistant ovarian cancer; TKI, tyrosine kinase inhibitor; Treg, regulatory T-cell.  
1. Du W, et al. JCI Insight 2018;3:e124184; 2. Demircan NC, et al. Ann Transl Med 2020;8:1714; 3. Arance Fernandez AM, et al. Ann Oncol 2020;31:S1142-215

# Study design

## Eligibility criteria:

- Age ≥18 years old
- Histologically or cytologically confirmed advanced or metastatic, unresectable solid tumors
- ECOG PS 0,1
- Adequate organ function

## Cohort G: Anti-PD-1/PD-L1 antibody refractory/resistant unresectable or metastatic melanoma

Tislelizumab 200 mg IV Q3W + sitravatinib 120 mg PO QD

### N = 20 for all cohorts

Cohort A: Nsq NSCLC; Anti-PD-1/PD-L1 Ab R/R  
Cohort B: Nsq NSCLC; Anti-PD-1/PD-L1 Ab naïve  
Cohort C: RCC; Anti-PD-1/PD-L1 Ab R/R  
Cohort D: (China): RCC; Metastatic/advanced without prior systemic therapy  
Cohort E: Anti-PD-1/PD-L1 Ab naïve recurrent platinum-resistant OC  
Cohort F: Sq NSCLC; Anti-PD-1/PD-L1 Ab treated metastatic  
Cohort H: Nsq NSCLC; Treatment-naïve, metastatic, positive (≥1%) PD-L1  
Cohort I: Sq NSCLC; Treatment-naïve, metastatic, positive (≥1%) PD-L1

- Progressive disease
- Unacceptable toxicity
- Death
- Withdrawal of consent
- Study termination by sponsor

## Key eligibility for Cohort G melanoma:

- PD on or after 1L anti-PD-1/PD-L1
- No other prior immunotherapy (including but not limited to anti-CTLA-4)
- No prior exposure to anti-VEGF or VEGFR TKIs
- Documented *BRAF* mutation status

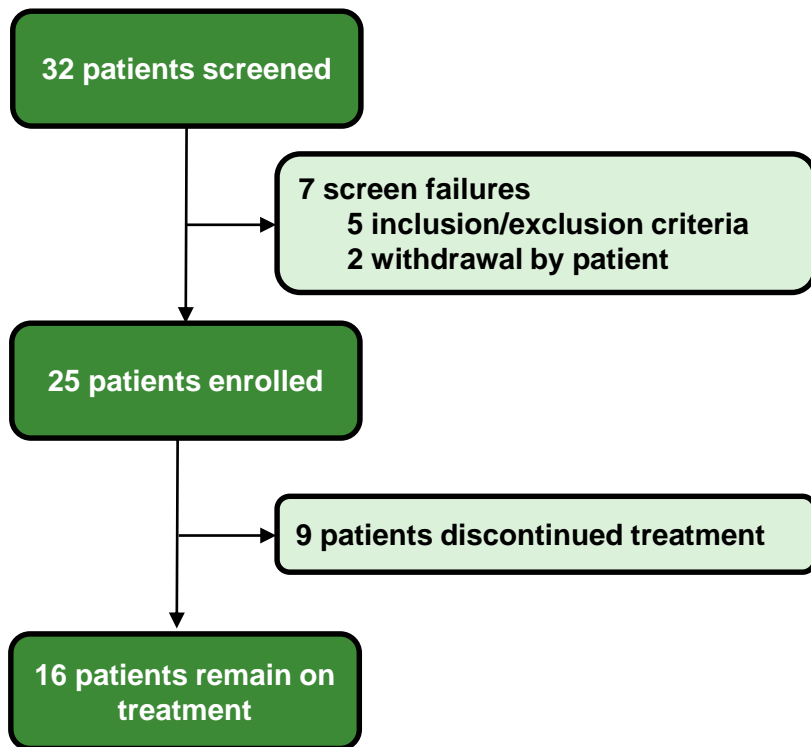
## Key endpoints:

- **Primary:** Safety and tolerability
- **Secondary:** Antitumor activity
- **Exploratory:** PK and immunogenicity

**Data cut-off 13 Oct 2020**

ECOG PS, Eastern Cooperative Oncology Group performance status; IV, intravenously; NSq, non-squamous; NSCLC, non-small cell lung cancer; OC, ovarian cancer; PD, progressive disease; PK, pharmacokinetic; PO, orally; QD, once-daily; Q3W, once every three weeks; RCC, renal cell carcinoma; R/R, resistant/refractory; Sq, squamous; VEGF, vascular endothelial growth factor; VEGFR TKI, vascular endothelial growth factor receptor tyrosine kinase inhibitor

# Patient disposition – Cohort G



At the data cut-off, 13 October, 2020, a total of 25 patients had been enrolled into the cohort and 16 patients remained on treatment

	<b>Melanoma (N = 25)</b>
Median duration of follow-up, months (range)	5.5 (1.5–13.3)

# Baseline characteristics

Baseline characteristics		Melanoma (N = 25)
Age, years	Median (range)	51 (23–79)
Sex, n (%)	Male	13 (52)
	Female	12 (48)
Race, n (%)	Asian	23 (92)
	White	2 (8)
ECOG PS, n (%)	0	3 (12)
	1	22 (88)
Histology at initial diagnosis, n (%)	Cutaneous, chronic sun-induced damage	4 (16)
	Cutaneous, without chronic sun-induced damage	8 (32)
	Acral	7 (28)
	Mucosal	4 (16)
	Unknown	2 (8)

Baseline characteristics		Melanoma (N = 25)
BRAF mutation, n (%)	Positive	7 (28)
	Negative	18 (72)
Prior systemic therapy, n (%)	Anti-PD-1/PD-L1	25 (100)
Prior lines of anticancer therapy, n (%)	1	25 (100)
Duration of last therapy, months	Median (range)	7 (2–28)

# Safety summary

Event, n (%)		Melanoma (N = 25)
Patients with at least one TEAE		25 (100)
Treatment-related		25 (100)
Grade ≥3 TEAE		12 (48)
Treatment-related		9 (36)
Serious TEAE		1 (4)
Treatment-related		1 (4)
TEAE leading to treatment discontinuation	Tislelizumab	1 (4)
	Sitravatinib	1 (4)
TRAE leading to treatment discontinuation	Tislelizumab	0 (0)
	Sitravatinib	1 (4)

Serious TEAE was an anal abscess, was associated with sitravatinib

Tislelizumab discontinuation was due to vaginal hemorrhage

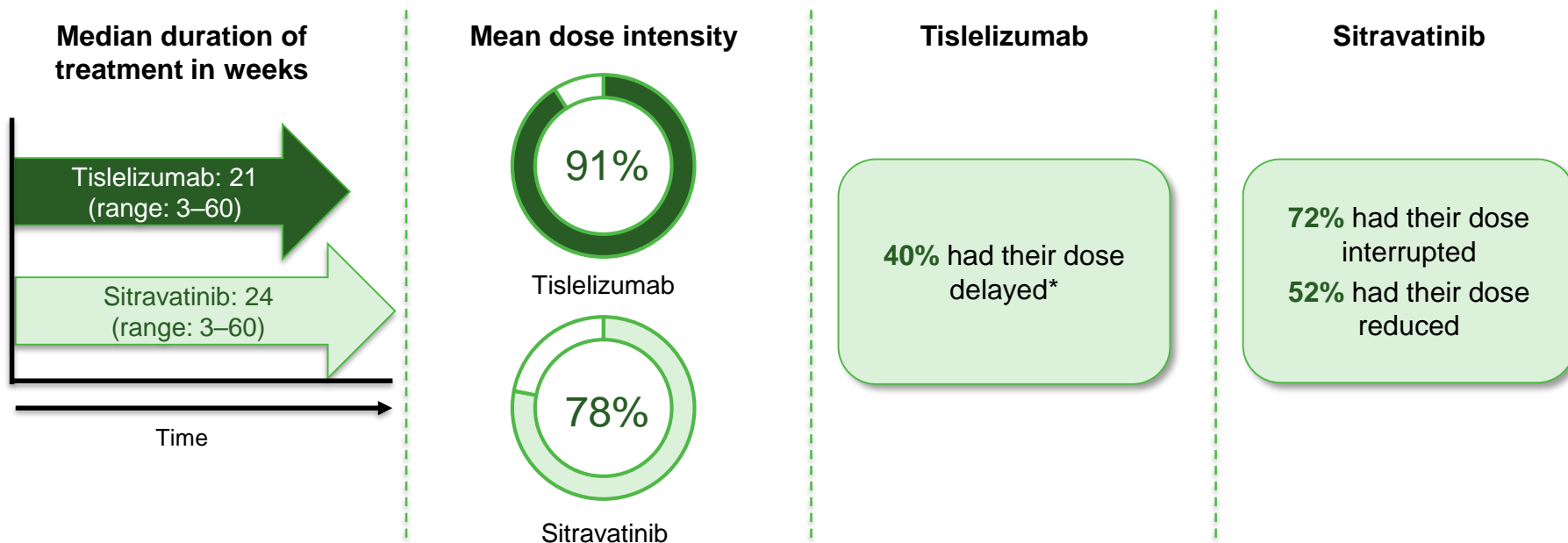
Sitravatinib discontinuation due to increased BCK

No TEAE or TRAE lead to death

BCK, blood creatine phosphate; TEAE, treatment-emergent adverse event; TRAE, treatment-related adverse event



# Safety summary



\*Dose delay was defined as drug is withheld beyond the visit window. Dose interruption of sitravatinib was defined as interruption up to ~28 days consecutively.

# All grade and Grade $\geq 3$ TEAEs

## All grade with a frequency of $\geq 20\%$

Event, n (%)	All Grades (N = 25)	Event, n (%)	All Grades (N = 25)
Increased ALT	19 (76)	Increased BB	9 (36)
Increased AST	17 (68)	Abnormal electrocardiogram T wave	9 (36)
Increased blood cholesterol	14 (56)	Hypertension	9 (36)
Hypertriglyceridemia	13 (52)	Palmar-Plantar erythrodysesthesia syndrome	8 (32)
Hypothyroidism	12 (48)	CK-MB increased	7 (28)
Weight decreased	12 (48)	Hyperuricemia	7 (28)
Increased BCK	10 (40)	Upper abdominal pain	6 (24)
Diarrhea	10 (40)	Vomiting	6 (24)
Increased GGT	10 (40)	Hypokalemia	5 (20)
Proteinuria	10 (40)		

## Grade $\geq 3$ with a frequency of $\geq 5\%$

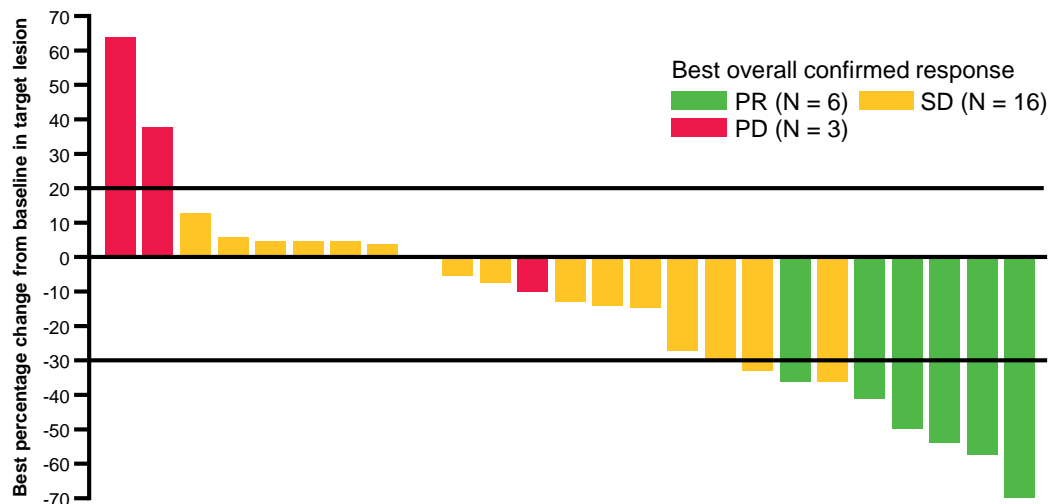
Event, n (%)	$\geq$ Grade 3 (N = 25)
Hypertension	3 (12)
Increased ALT	2 (8)
Increased GGT	2 (8)

Hypertension (12%) was the most  
common  $\geq$ Grade 3 TEAE

No patients discontinued treatment due  
to hypertension

# Efficacy analysis

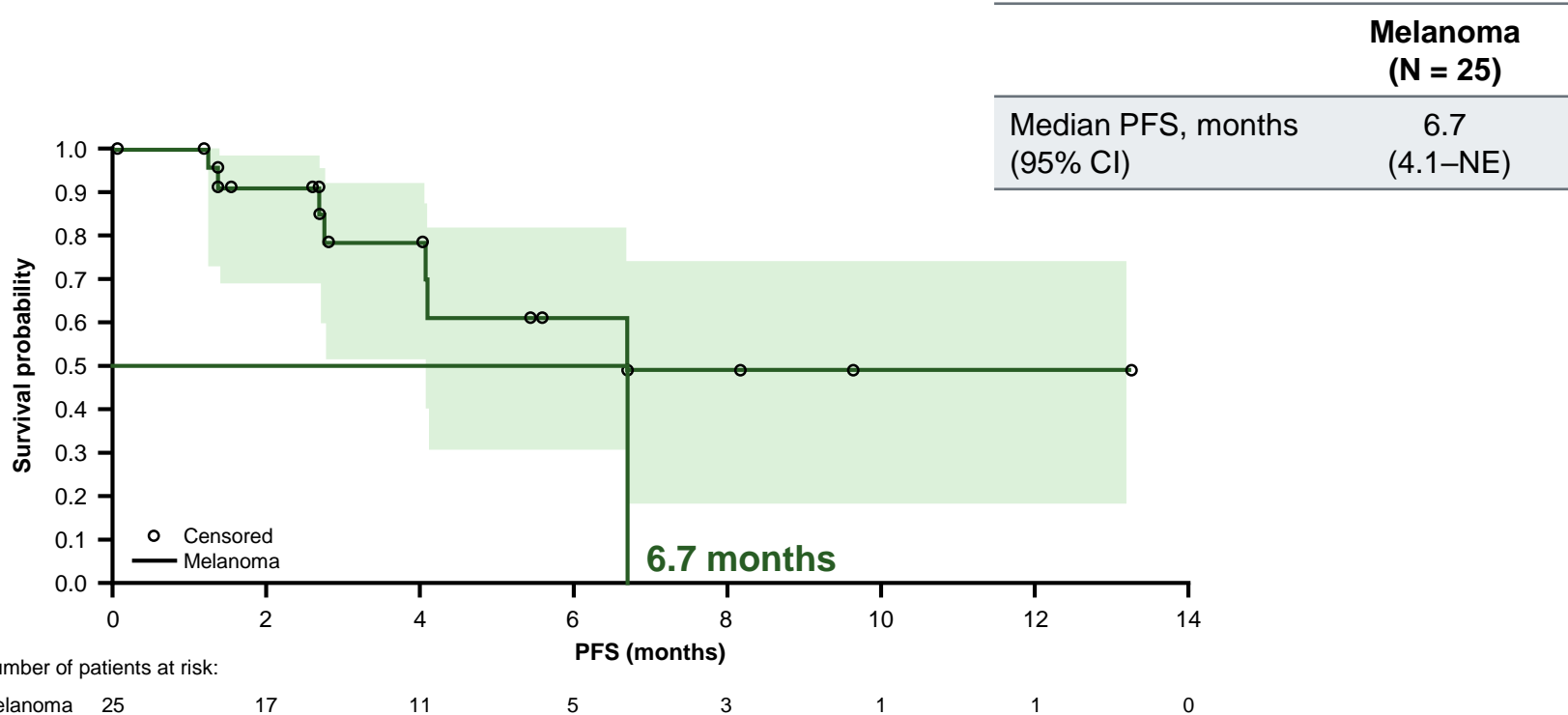
## Maximum change in target lesion from baseline (%)



Clinical activity	Melanoma (N = 25)
Confirmed ORR, % (95% CI)	24 (9.4–45.1)
Best overall response, n (%)	
Complete response	0 (0)
Partial response	6 (24)
Stable disease	16 (64)
Progressive disease	3 (12)
DCR, % (95% CI)	88 (68.8–97.5)
Median DoR, months (95% CI)	NR (4.1–NR)

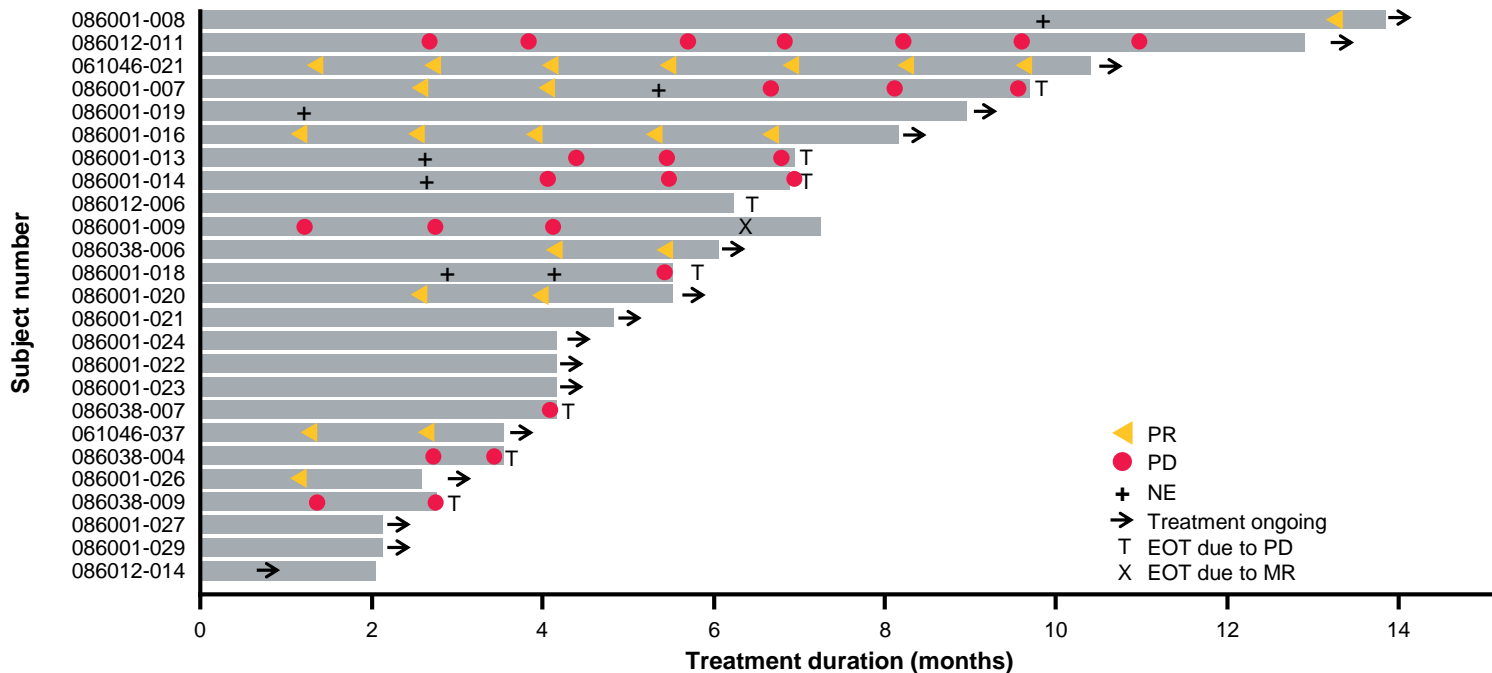
DCR, disease control rate; DoR, duration of response; NR, not reached; ORR, objective response rate; PD, progressive disease; PR, partial response; SD, stable disease

# Investigator-assessed PFS



NE, non-evaluable ; PFS, progression-free survival

# Duration of treatment with disease response in the melanoma cohort



EOT, end of treatment; MR, multiple reason; NE, non evaluable; PD, disease progression; PR, partial response

# Conclusions



Tislelizumab in combination with sitravatinib was generally well tolerated and had a manageable safety/tolerability profile in patients with anti-PD-1/PD-L1 refractory/resistant unresectable or metastatic melanoma

Most TEAEs were mild or moderate in severity and manageable  
No TEAEs lead to death



The combination treatment also demonstrated preliminary antitumor activity, with patients achieving an ORR of 24%, DCR of 88% and median PFS of 6.7 months (95% CI: 4.1–NE)



The results from this Phase 1b study support tislelizumab in combination with sitravatinib as a potential treatment option for patients with refractory/resistant unresectable or metastatic melanoma and further investigation is warranted