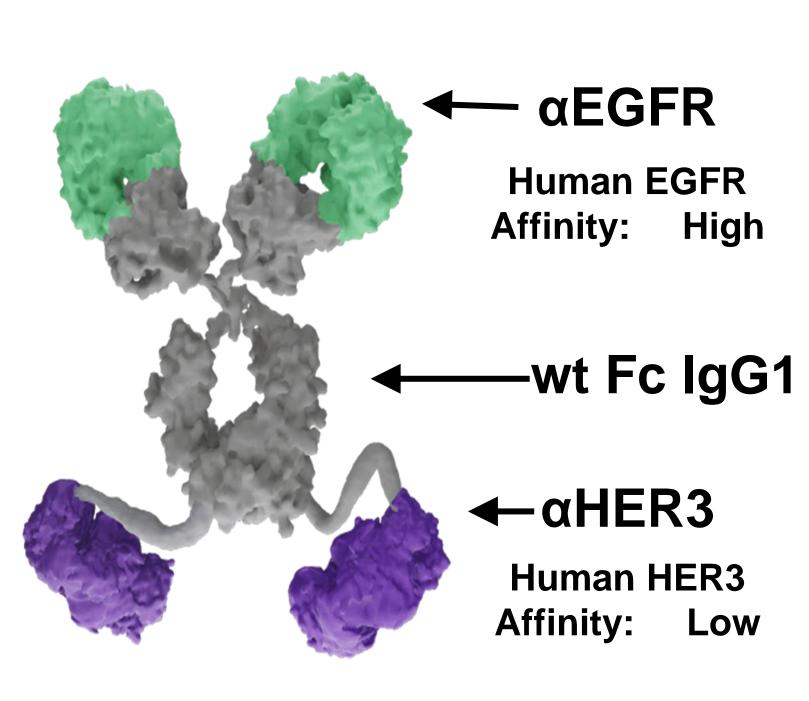


**Abstract Number:** 9025

# SI-B001 plus chemotherapy in patients with locally advanced or metastatic EGFR/ALK wild-type non-small cell lung cancer: A phase II, multicenter, open-label study

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#### Background



- SI-B001 (izalontamab): a novel EGFR×HER3 bispecific antibody.
- Currently, 6 phase II clinical studies of SI-B001, either alone or in combination with chemotherapy, are being conducted in different epithelial carcinomas. The indication in this study (SI-B001-201) is EGFR/ALK wild-type NSCLC.
- Clinical trial information: NCT05020457

## Objective

 To investigate the efficacy and safety of SI-B001 in combination with chemotherapy in patients with locally advanced or metastatic EGFR/ALK wildtype NSCLC.

#### Methods

- This phase II study enrolled patients with locally advanced or metastatic EGFR/ALK wild-type NSCLC who had failed first-line anti-PD-1/L1 therapy, with or without platinum-based chemotherapy (PBC).
- This study consisted of three cohorts: Cohort A pts received SI-B001 plus PBC as second-line treatment after failure to first-line anti-PD-1/L1 antibody monotherapy; Cohort B pts received SI-B001 plus docetaxel as second-line treatment after failure to first-line anti-PD-1/L1 therapy plus PBC; Cohort C pts received SI-B001 plus docetaxel as third-line or higher treatment after failure to first-line anti-PD-1/L1 therapy and PBC.
- This study evaluated SI-B001 in three distinct dosing schedules: Schedule 1 (16+9mg/kg once weekly), Schedule 2 (14mg/kg on Days 1 and 8 every 3 weeks), and Schedule 3 (21+12mg/kg once weekly).
- The primary endpoints of the study were to determine the objective response rate (ORR) in evaluable patients and to identify the optimal dose. The secondary endpoints included assessment of progression-free survival (PFS), disease control rate (DCR), duration of response (DOR), and safety.

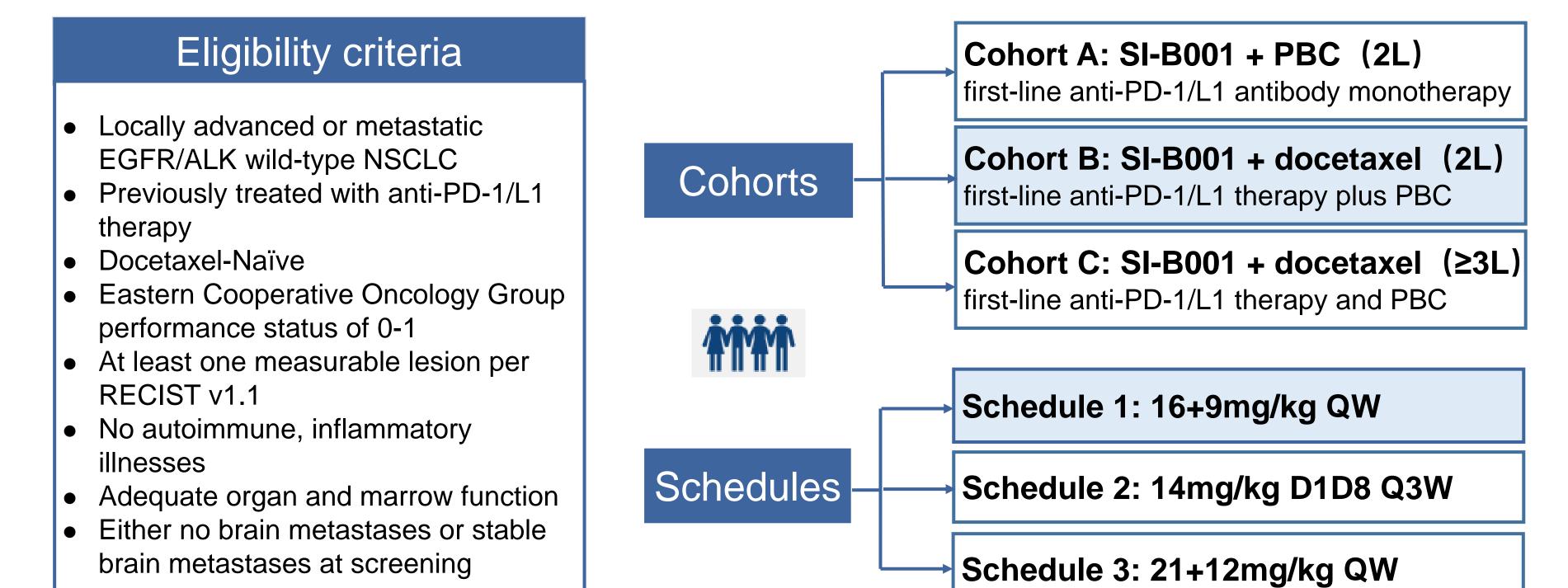
References

## Acknowledgments

We thank all the patients and their families for their participation. We nurses, and other study staffs for

Blair Renshaw, Jahan Salar Khalili, Sa Xiao, Yi Zhu. Anti-tumor efficacy of SI-B001, a novel EGFR × HER3 bispecific antibody, against EGFR-driven epithelial tumors alone or in combination also thank all the investigators, study with paclitaxel and carboplatin. Cancer Res (2023) 83 their contributions. (7\_Supplement): 6309.

### Study Design



Primary endpoints: ORR, optimal dose for combination Secondary endpoints: PFS, DCR, DOR, safety

#### **Patients**

 As of the first data cutoff (Nov 11, 2022), 55 patients were enrolled, including 1 pt in Cohort A, 45 pts in Cohort B, 8 pts in Cohort C, and 1 pt based on the investigator's discretion. The data and analysis presented in this poster are based on the updated follow-up data as of April 17, 2023.

Table 1. Patient demographics										
	ALL (N=55)	Cohort-A (N=1)	Cohort-B (N=45)	Cohort-C (N=8)	Other (N=1)					
Age (Median, Range)										
	61.0 (33.0 - 76.0)	57.0 (57.0 - 57.0)	61.0 (33.0 - 76.0)	63.5 (42.0 - 69.0)	64.0 (64.0 - 64.0)					
Weight (Mean, Range)										
	62.5 (44.0 - 82.0)	60.4 (60.4 - 60.4)	62.2 (44.0 - 82.0)	63.2 (52.5 - 79.0)	71.8 (71.8 - 71.8)					
BMI (Mean, Range)										
	22.9 (17.5 - 30.3)	22.7 (22.7 - 22.7)	22.6 (17.5 - 30.1)		28.4 (28.4 - 28.4)					
BSA (Mean, Range)										
	1.7 (1.4 - 2.0)	1.7 (1.7 - 1.7)	1.7 (1.4 - 2.0)	1.7 (1.5 - 2.0)	1.8 (1.8 - 1.8)					
Smoking History										
Never	11/55 (20%)	0/1 (0%)	9/45 (20%)	2/8 (25%)	0/1 (0%)					
Previous	38/55 (69%)	1/1 (100%)	32/45 (71%)	4/8 (50%)	1/1 (100%)					
Current	6/55 (11%)	0/1 (0%)	4/45 (9%)	2/8 (25%)	0/1 (0%)					
UNK	0/55 (0%)	0/1 (0%)	0/45 (0%)	0/8 (0%)	0/1 (0%)					
ECOG										
0	6/55 (11%)	0/1 (0%)	4/45 (9%)	2/8 (25%)	0/1 (0%)					
1	48/55 (87%)	1/1 (100%)	40/45 (89%)	6/8 (75%)	1/1 (100%)					
UNK	1/55 (2%)	0/1 (0%)	1/45 (2%)	0/8 (0%)	0/1 (0%)					

## Safety

- The most common Grade ≥3 treatmentrelated adverse events (TRAEs) were neutropenia (15%), myelosuppression (13%), and leukopenia (9%).
- No drug-related death was observed.

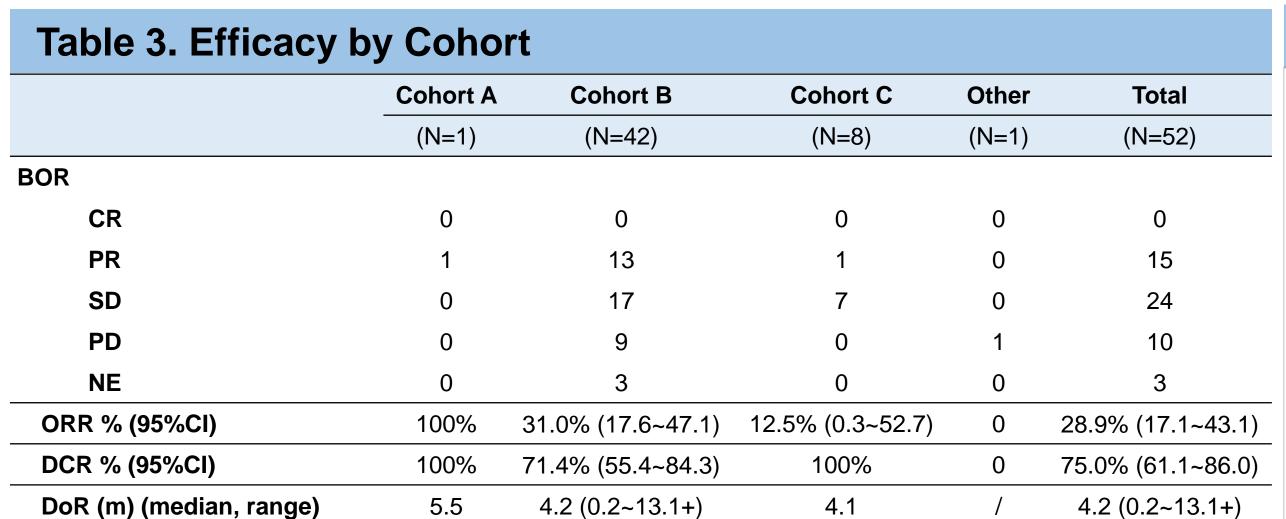
## **Table 2. TRAE Summary (≥G3 occurred)**

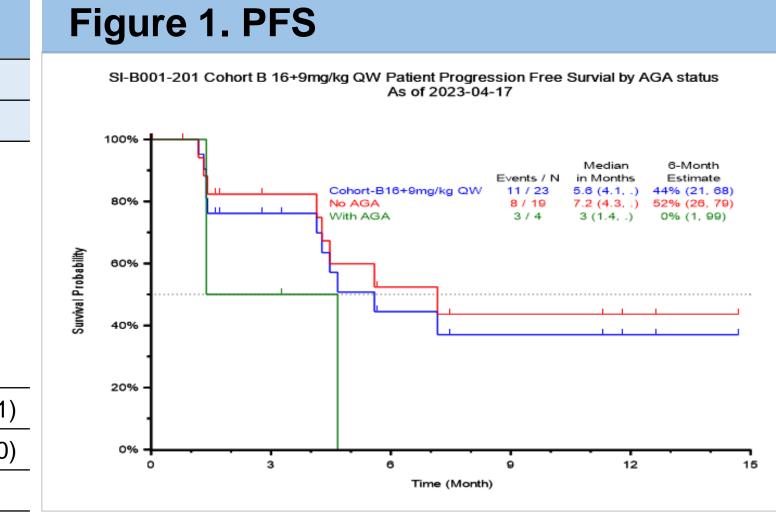
SI-B001 plus chemotherapy (N=55)

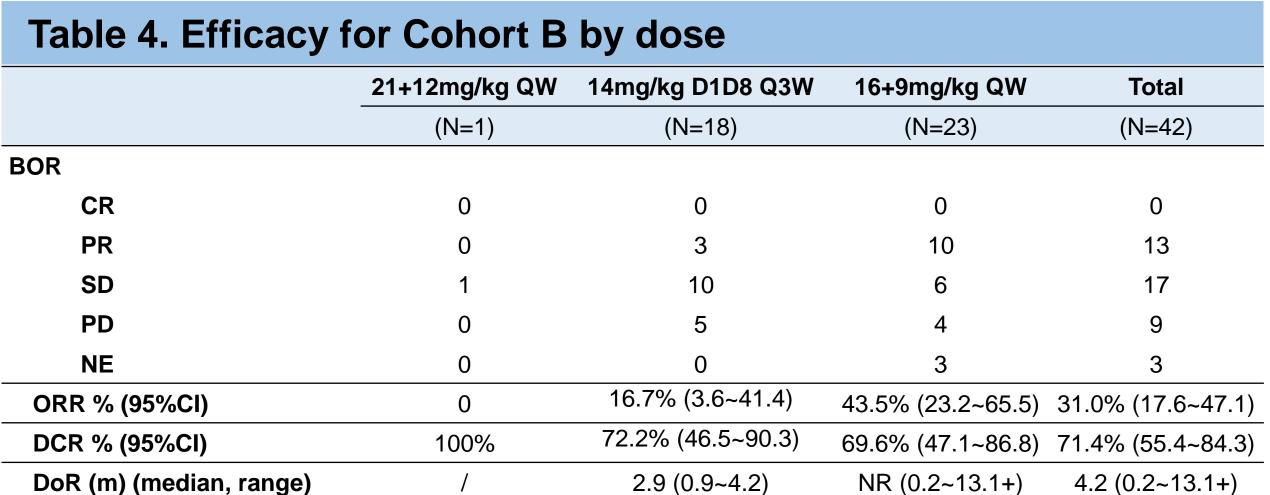
PT Term	G1	G2	G3	G4	All Grade
Rash	20 (36%)	10 (18%)	3 (5%)		33 (60%)
Mouth ulceration	6 (11%)	7 (13%)	1 (2%)		14 (25%)
Leukopenia	6 (11%)	2 (4%)	5 (9%)		13 (24%)
Anemia	6 (11%)	5 (9%)	2 (4%)		13 (24%)
Pyrexia	9 (16%)	3 (5%)	1 (2%)		13 (24%)
Neutropenia	4 (7%)		7 (13%)	1 (2%)	12 (22%)
Diarrhea	8 (15%)	3 (5%)	1 (2%)		12 (22%)
Myelosuppression	1 (2%)	2 (4%)	2 (4%)	5 (9%)	10 (18%)
Paronychia	5 (9%)	2 (4%)	1 (2%)		8 (15%)
Hypokalemia	3 (5%)	2 (4%)	2 (4%)		7 (13%)
Dermatitis acneiform	6 (11%)		1 (2%)		7 (13%)
Pneumonia		2 (4%)	4 (7%)		6 (11%)
Asthenia	3 (5%)	2 (4%)	1 (2%)		6 (11%)
Lymphopenia	3 (5%)		2 (4%)		5 (9%)
Chest discomfort	2 (4%)	2 (4%)	1 (2%)		5 (9%)
Hypersensitivity			4 (7%)		4 (7%)
Hypoaesthesia	1 (2%)		1 (2%)		2 (4%)
Respiratory failure	1 (2%)		1 (2%)		2 (4%)
Cardiomyopathy			1 (2%)		1 (2%)
Gastritis			1 (2%)		1 (2%)
Soft tissue infection			1 (2%)		1 (2%)
Heart rate increased			1 (2%)		1 (2%)
Interstitial lung disease			1 (2%)		1 (2%)
Tachypnoea			1 (2%)		1 (2%)
Cardiac failure				1 (2%)	1 (2%)
Septic shock				1 (2%)	1 (2%)

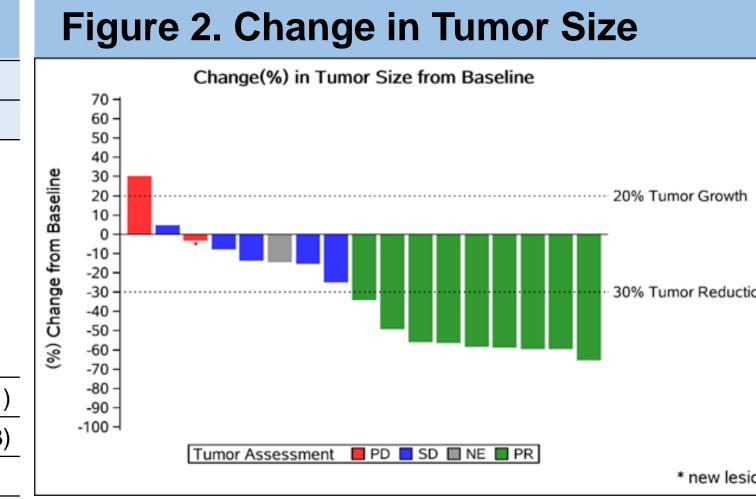
#### **Efficacy**

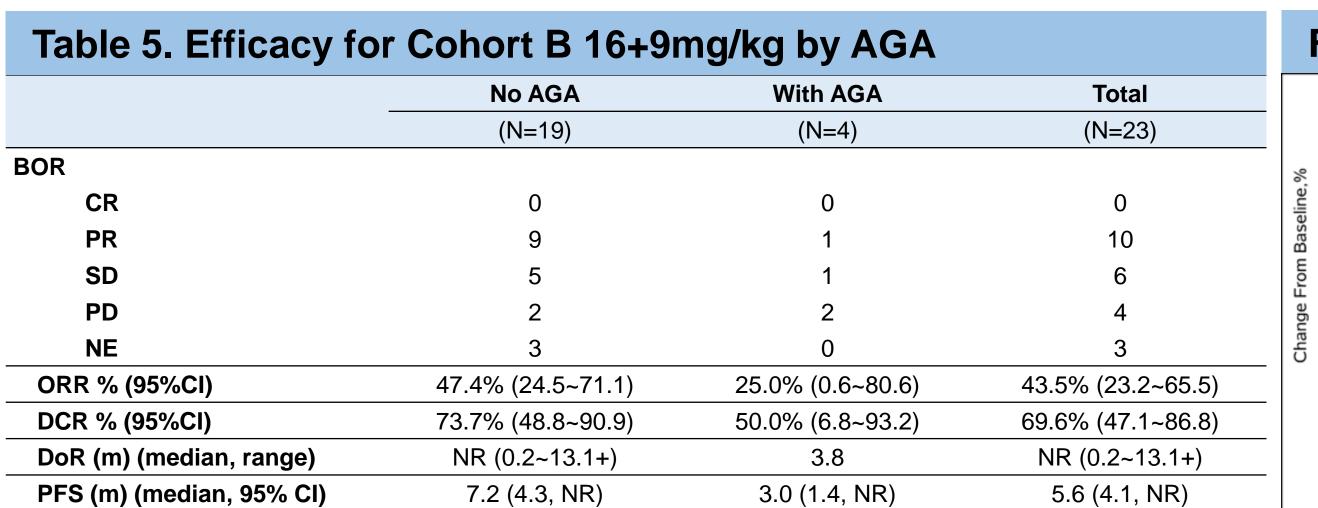
- Among the 55 enrolled pts, 52 were evaluable for efficacy; ORR (n/N, [95%CI]) was 28.9% (15/52, [17.1, 43.1]), DCR was 75.0% (39/52, [61.1, 86.0]) (Table 3).
- In Cohort B, 42 pts were evaluable for efficacy. Among them, 23 were treated on schedule 1 (16+9mg/kg, QW), the ORR was 43.5% (10/23, [23.2, 65.5]) and the DCR was 69.6% (16/23, [47.1, 86.8]) (Table 4).
- Among the 23 evaluable pts in Cohort B treated on schedule 1 (16+9mg/kg, QW), 19 had no actionable genomic alterations (AGA), the ORR was 47.4% (9/19, [24.5, 71.1]), the DCR was 73.7% (14/19, [48.8, 90.9]), and the mPFS was 7.2m (Table 5, Figure 1-3).

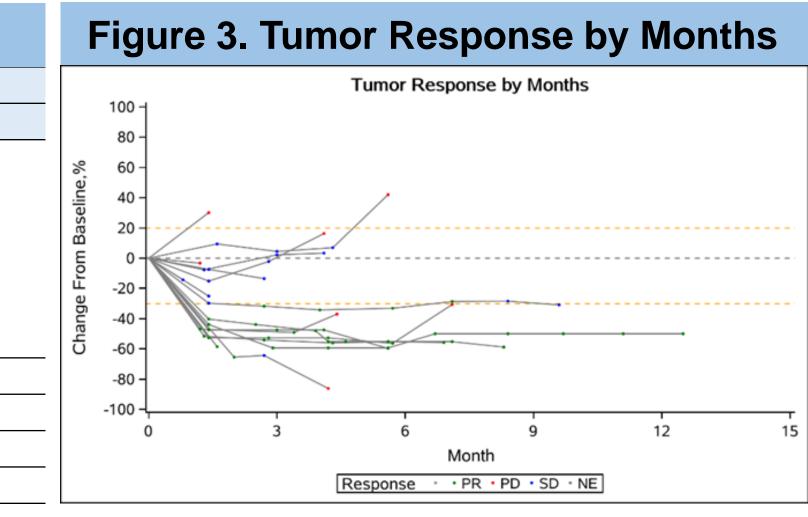












#### Conclusions

- SI-B001 (16+9 mg/kg QW) + docetaxel in NSCLC patients without AGA in 2<sup>nd</sup> line setting achieved ORR of 47.4% and mPFS of 7.2 months.
- The toxicity of SI-B001 + docetaxel was deemed to be manageable.
- A phase III study of SI-B001 + docetaxel in NSCLC patients without AGA is on-going.