# Zanidatamab (ZW25), a HER2-Targeted Bispecific Antibody, in Combination With Chemotherapy and Tislelizumab in Patients With Advanced HER2-Positive Gastric/Gastroesophageal Junction Adenocarcinoma: Updated Results From a Phase 1b/2 Study

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Zanidatamab, in combination with tislelizumab and capecitabine-oxaliplatin (CAPOX), showed promising antitumor activity as a first-line therapy for patients with gastric and gastroesophageal junction cancer (GC/GEJC).

# Background

Gastric cancers are among the most common cancers globally, with over one million new cases estimated to have been diagnosed in 2020.<sup>2</sup> Targeted therapy is an option in patients with human epidermal growth factor receptor 2 (HER2) overexpression, which occurs in 12-25% of GC/GEJC and up to 30% of GEJC.<sup>3,4</sup>

Zanidatamab (ZW25) is a humanized, bispecific, monoclonal antibody in development for the treatment of HER2-expressing cancers, including HER2-positive GC/GEJC.<sup>1</sup> Zanidatamab has been shown to be well tolerated and have durable antitumor activity in combination with chemotherapy as first-line therapy for GC/GEJC.<sup>5</sup>



## References

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# This combination therapy regimen had a tolerable safety profile with durable responses. The phase 3 HERIZON-GEA-01 trial (NCT05152147) evaluating the regimen of zanidatamab and CAPOX, with or without tislelizumab, is ongoing.<sup>1</sup>

Here we present updated data from the phase 1b/2 study on the safety and antitumor Tislelizumab is a humanized immunoglobulin G4 monoclonal antibody with high affinity activity of zanidatamab in combination with tislelizumab and CAPOX for untreated, and binding specificity for programmed cell death protein 1 (PD-1).<sup>6</sup> Preliminary results unresectable, locally advanced/metastatic HER2-positive GC/GEJC, following from a phase 1b/2 study demonstrated promising efficacy outcomes and a tolerable safety profile in patients with HER2-positive GC/GEJC receiving zanidatamab in enrollment completion. combination with tislelizumab and standard first-line chemotherapy (NCT04276493).<sup>7</sup>

Demographics and Baseline Characteristics					
	Cohort A (n=19)	Cohort B (n=14)	Total (N=33)		
	66.0 (29-80)	61.5 (42-72)	64.0 (29-80)		
	4 (21.1)/ 15 (78.9)	4 (28.6)/ 10 (71.4)	8 (24.2)/ 25 (75.8)		
	17 (89.5)	12 (85.7)	29 (87.9)		
	5 (26.3)/ 14 (73.7)	6 (42.9)/ 8 (57.1)	11 (33.3)/ 22 (66.7)		
	16 (84.2)	9 (64.3)	25 (75.8)		
	3 (15.8)	5 (35.7)	8 (24.2)		
h	4 (21.1)/ 15 (78.9)	1 (7.1)/ 13 (92.9)	5 (15.2)/ 28 (84.8)		
v,ª n (%)	17 (89.5)	12 (85.7)	29 (87.9)		
	11 (57.9)/	7 (50.0)/	18 (54.5)/		
	4 (21.1)	4 (28.6)	8 (24.2)		
	12 (63.2)/	6 (42.9)/	18 (54.5)/		
	7 (36.8)	7 (50.0)	14 (42.4)		
ents in Cohort A and six in Cohort B, and included pleural and peritoneal involvement and other visceral					

metastases to the adrenal gland, spleen, etc; bPD-L1 positivity was assessed using the tumor area positivity score, which is defined as the total percentage of tumor area covered with tumor cells with PD-L1 membrane staining, and tumor-associated immune cells with PD-L1 staining, at any intensity, as visually estimated using VENTANA PD-L1 (SP263) assay. PD-L1 score was not available for one patient in Cohort B. Abbreviations: ECOG PS, Eastern Cooperative Oncology Group performance status; (F)ISH, (fluorescence) in situ hybridization; HER2, human epidermal growth factor receptor 2;

Total (N=33)	
)	
11 (33.3)	
2 (6.1)	
2 (6.1)	
Grade 3	
9 (27.3)	
1 (3.0)	
2 (6.1)	
0 (0)	
0 (0)	
0 (0)	
1 (3.0)	

Data are n (%). Adverse events were recorded using the Medical Dictionary for Regulatory Activities version 25.0, with severity graded by the investigator using National Cancer Institute Common Terminology Criteria for Adverse Events version 5.0. aTreatment-related is defined as related to any component of study treatment; <sup>b</sup>Treatment discontinuation is defined as discontinuation of all components of study treatment; <sup>c</sup>Any-grade TRAEs in ≥30% of patients of any grade in the total safety analysis set. Abbreviations: PPED, palmar-plantar erythrodysesthesia; TRAE, treatment-related adverse event.

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### Efficacy

- Confirmed objective response rate by investigator (INV) was 75.8% (**Table 3**). Median duration of response was 22.8 months (95% confidence interval [CI]: 7.4, not estimable) (**Figure 2**)
- Median progression-free survival was 16.7 months (95% CI: 8.2, not estimable) (Figure 3)
- Treatment duration with overall response by INV is shown in **Figure 4**

Table 3. Disease Response <sup>a</sup>					
	Cohort A (n=19)	Cohort B (n=14)	Total (N=33)		
Confirmed BOR, <sup>b</sup> n (%)					
Complete response	1 (5.3)	0 (0)	1 (3.0)		
Partial response	14 (73.7)	10 (71.4)	24 (72.7)		
Stable disease	4 (21.1)	4 (28.6)	8 (24.2)		
Progressive disease	0 (0)	0 (0)	0 (0)		
Confirmed ORR, <sup>b</sup> % (95% CI)	78.9 (54.4, 93.9)	71.4 (41.9, 91.6)	75.8 (57.7, 88.9)		
Confirmed DCR, <sup>b</sup> % (95% CI)	100.0 (82.4, 100.0)	100.0 (76.8, 100.0)	100.0 (89.4, 100.0)		
Median DoR, <sup>b</sup> months (95% CI)	15.4 (4.9, NE)	NE (7.4, NE)	22.8 (7.4, NE)		
In the efficacy-evaluable analysis set, which was defined as patients	who received at least one do	ose of any study drug, had me	easurable disease at baseline		

according to RECIST version 1.1, and one or more postbaseline tumor assessment; PPer RECIST version 1.1 by investig Abbreviations: BOR, best overall response; CI, confidence interval; DCR, disease control rate; DoR, duration of response; NE, not estimable; ORR, objective response rate; RECIST, Response Evaluation Criteria in Solid Tumours.





## Disclosures

Keun-Wook Lee: ABLBIO, ALX Oncology, Amgen, Astellas, AstraZeneca, BeiGene, Bolt Therapeutics, Boryung, Daiichi Sankyo, Elevar Therapeutics, Exelixis, Genome & Company, Green Cross Corp, Idience, InventisBio, Leap Therapeutics, Macrogenics, MedPacto, Merck KGaA, Merck Sharp & Dohme, Metafines, Oncologie, Ono Pharmaceutical, Pfizer, Pharmacyclics, Roche, Sanofi-Aventis, Seagen, Taiho Pharmaceutical, Trishula Therapeutics, Y-BIOLOGICS, Zymeworks.

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