

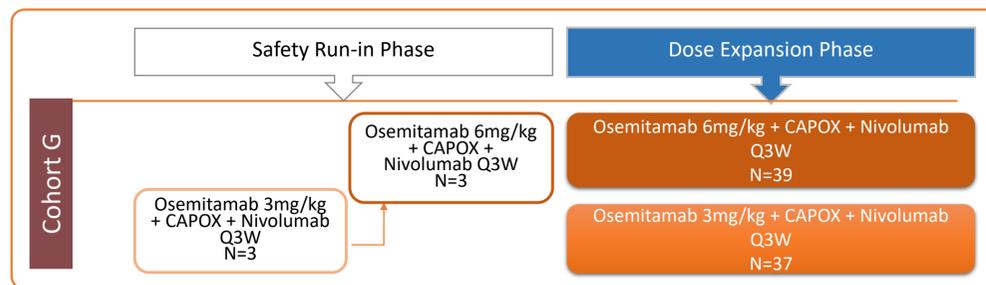
### BACKGROUND

- Osemitamab (TST001) is a potential best-in-class antibody with improved claudin 18.2 (CLDN18.2) affinity and enhanced antibody-dependent cell-mediated cytotoxicity effect, leading to anti-tumor activity in CLDN18.2 positive gastric cancer animal models, including those with low to medium levels of expression.
- Animal models have demonstrated strong synergistic anti-cancer activities among osemitamab, anti-PD-1 antibodies and chemotherapies, regardless of the PD-L1 CPS levels.
- Promising efficacy of osemitamab plus CAPOX chemotherapy as first-line treatment for G/GEJ cancer has been observed in cohort C of TranStar102, which was reported previously at ASCO and ESMO-GI.

### METHODS

- Cohort G from Transtar102 study (NCT04495296) was designed to explore the safety and efficacy of osemitamab plus CAPOX and nivolumab as first-line treatment for advanced G/GEJ cancer (Figure 1), with a safety lead-in and expansion phase. Patients were alternatively allocated to 3 or 6mg/kg at expansion phase. Eligible patients include HER2 negative or unknown, unresectable locally advanced or metastatic G/GEJ cancer, regardless of CLDN18.2 or PD-L1 expression. CLDN18.2 and PD-L1 status were analyzed retrospectively using IHC 14G11 LDT assay and PD-L1 IHC 28-8 pharmDx at a central laboratory. The CLDN18.2 expression was divided into three subgroups: H/M (high/medium), L (low) and R (rest) according to the tumor cells showing membranous CLDN18.2 staining per Claudin 18.2 IHC 14G11 LDT assay.
- Comparisons were made across the subsets by CLDN18.2 expression levels as an alternative approach to estimate the possible effect size due to lack of "real" control.

Figure 1. Study Design



### RESULTS

- As of April 18, 2024, 82 patients have been dosed with a median follow-up of 12.6 months, 40 patients at 3mg/kg, 42 patients at 6mg/kg. The study is still ongoing.
- Of the 82 patients, 32 were with CLDN18.2 H/M expression, 22 with L expression and, 28 were in the Rest subgroup with CLDN18.2 expression lower than L (n=7), negative (n=19) or unknown (n=2). 66 patients had PD-L1 test results, and 56 were CPS < 5.
- The baseline demographics of patients across CLDN18.2 expression are generally similar (Table 1).
- The safety profile of the triplet is generally consistent with the safety data of osemitamab plus CAPOX combination in first-line G/GEJ cancer patients presented previously (*J Clin Oncol* 41, 2023, suppl 16; abstr 4046), which was mainly characterized by manageable on-target-off-tumor effects, including nausea, hypoalbuminaemia, and vomiting, and most of them were of grade 1 or 2 (Table 2).

Table 1. Demographic and Baseline Characteristics

		CLDN18.2 H/M (N=32)	CLDN18.2 L (N=22)	CLDN18.2 R (N=28)	Overall (N=82)
Age at Consent (years)	Median	56.5	62.5	60	58.5
	Min, Max	27, 72	41, 76	45, 71	27, 76
Sex, n (%)	Male	21 (65.6)	17 (77.3)	23 (82.1)	61 (74.4)
ECOG Status, n (%)	0	4 (12.5)	6 (27.3)	7 (25.0)	17 (20.7)
	1	27 (84.4)	16 (72.7)	21 (75.0)	64 (78.0)
	Missing	1 (3.1)	0	0	1 (1.2)
Cancer Type, n (%)	Gastric Cancer	31 (96.9)	18 (81.8)	24 (85.7)	73 (89.0)
	GEJ Cancer	1 (3.1)	4 (18.2)	4 (14.3)	9 (11.0)
Gastrectomy, n (%)	None	25 (78.1)	16 (72.7)	14 (50.0)	55 (67.1)
	Partial or total	5 (15.6)	6 (27.3)	13 (46.4)	24 (29.3)
	Other	2 (6.3)	0	1 (3.6)	3 (3.7)
PD-L1 CPS-Central Result, n (%)	< 5	22 (68.8)	16 (72.7)	18 (64.3)	56 (68.3)
	≥ 5	4 (12.5)	3 (13.6)	3 (10.7)	10 (12.2)
	Missing	6 (18.8)	3 (13.6)	7 (25.0)	16 (19.5)
Metastasis status at study entry, n (%)	M0	2 (6.3)	1 (4.5)	0	3 (3.7)
	M1	30 (93.8)	21 (95.5)	28 (100)	79 (96.3)
No. of Metastasis sites, n (%)	0-2	21 (65.6)	15 (68.2)	19 (67.9)	55 (67.1)
	≥ 3	9 (28.1)	6 (27.3)	9 (32.1)	24 (29.3)
	Missing	2 (6.3)	1 (4.5)	0	3 (3.7)
Sites of Metastasis, n (%)	Hepatic	10 (31.3)	9 (40.9)	18 (64.3)	37 (45.1)
	Peritoneum	10 (31.3)	3 (13.6)	3 (10.7)	16 (19.5)
	Pulmonary	2 (6.3)	5 (22.7)	7 (25.0)	14 (17.1)

Table 2. Adverse Events in Safety Analysis Set

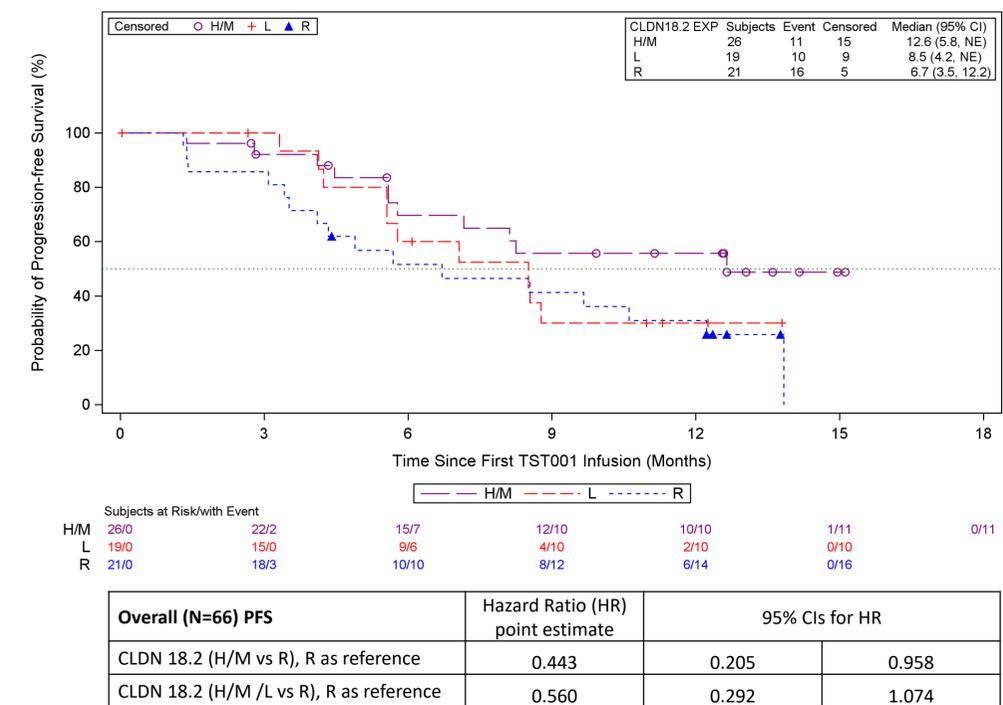
	TEAE, incidence ≥20%, regardless of grade		TRAE	
	All Grade	Grade ≥3	All Grade	Grade ≥3
By Preferred Term				
Subjects with at least one adverse event	82 (100)	56 (68.3)	82 (100)	43 (52.4)
Nausea	56 (68.3)	3 (3.7)	55 (67.1)	3 (3.7)
Vomiting	49 (59.8)	2 (2.4)	49 (59.8)	2 (2.4)
Diarrhoea	20 (24.4)	4 (4.9)	13 (15.9)	2 (2.4)
Hypoalbuminaemia/Hypoproteinaemia	64 (78.0)	0	56 (68.3)	0
Hyponatraemia	37 (45.1)	2 (2.4)	25 (30.5)	1 (1.2)
Decreased appetite	36 (43.9)	4 (4.9)	35 (42.7)	4 (4.9)
Hypokalaemia	28 (34.1)	10 (12.2)	18 (22.0)	7 (8.5)
Hypocalcaemia	18 (22.0)	1 (1.2)	9 (11.0)	0
Hyperglycaemia	17 (20.7)	0	7 (8.5)	0
Aspartate aminotransferase increased	49 (59.8)	4 (4.9)	36 (43.9)	3 (3.7)
Neutrophil count decreased	52 (63.4)	16 (19.5)	36 (43.9)	10 (12.2)
Platelet count decreased	49 (59.8)	10 (12.2)	38 (46.3)	8 (9.8)
White blood cell count decreased	39 (47.6)	3 (3.7)	26 (31.7)	1 (1.2)
Weight decreased	40 (48.8)	3 (3.7)	33 (40.2)	2 (2.4)
Alanine aminotransferase increased	31 (37.8)	3 (3.7)	19 (23.2)	3 (3.7)
Lipase increased	25 (30.5)	5 (6.1)	22 (26.8)	4 (4.9)
Lymphocyte count decreased	17 (20.7)	5 (6.1)	13 (15.9)	3 (3.7)
Amylase increased	19 (23.2)	1 (1.2)	16 (19.5)	1 (1.2)
Anaemia	57 (69.5)	8 (9.8)	36 (43.9)	4 (4.9)
Proteinuria	22 (26.8)	0	18 (22.0)	0

- Here we report the efficacy data in the 66 patients with known PD-L1 & CLDN18.2 expression status. As of the cut-off date, 37 patients had progression disease or death. There was a clear trend between anti-tumor efficacy and CLDN18.2 expression, with a median progression-free survival of 12.6 months for the patients with H/M expression. The mPFS was 12.6 months in the patients with H/M CLDN18.2 and PD-L1 CPS < 5 (n=22).

Table 3. Tumor Response and Durable Anti-tumor Effect

PD-L1 CPS & CLDN18.2 Status Known N=66	H/M N=26	L N=19	R N=21
ORR (confirmed)	68.0%	61.1%	50.0%
mPFS	12.6m (95% CI: 5.8, NE)	8.5m (95% CI: 4.2, NE)	6.7m (95% CI: 3.5, 12.2)

Figure 2. Progression-Free Survival of Cohort G by CLDN18.2 level



### CONCLUSION

- The combination of osemitamab plus CAPOX and nivolumab as first-line treatment for patients with G/GEJ cancer is safe and well tolerated. The triple combination didn't increase the safety risk compared with osemitamab combination with CAPOX.
- Preliminary efficacy data indicate that the combination of osemitamab plus CAPOX and nivolumab as first-line treatment for patients with G/GEJ cancer had very encouraging anti-tumor activities regardless of PD-L1 expression, especially for the patients with H/M CLDN18.2 expression compared with the historical data of existing or emerging therapies.