

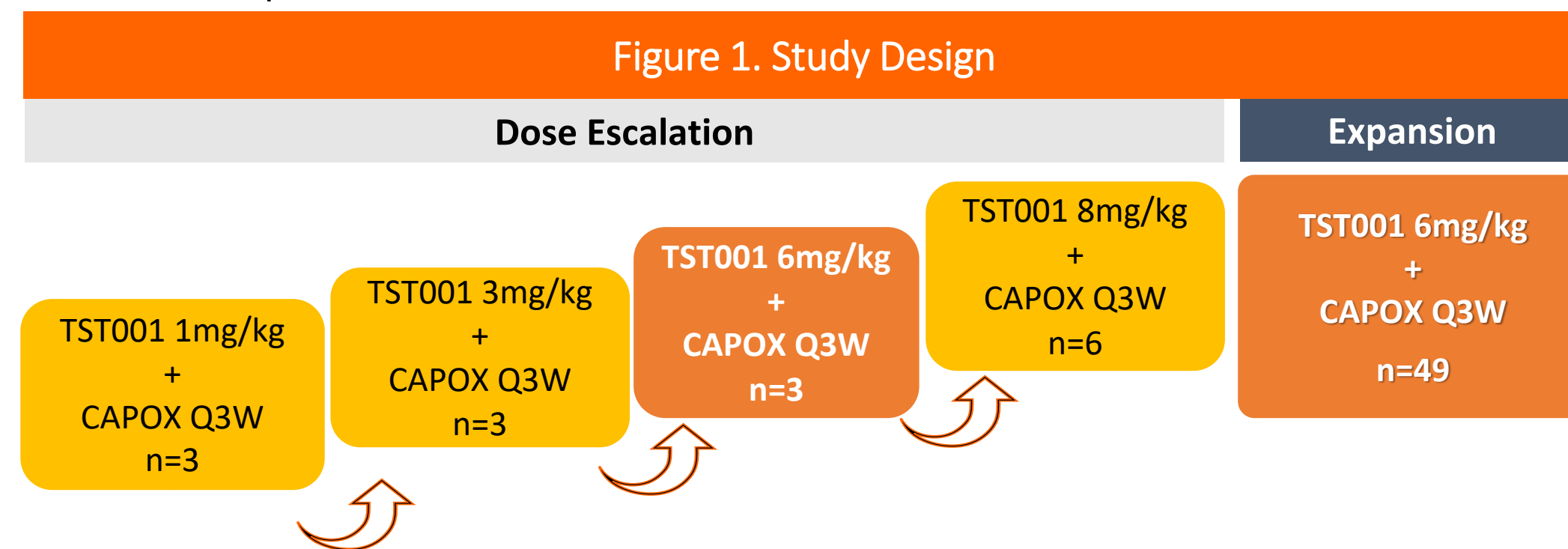
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BACKGROUND

- Phase 3 studies (SPOTLIGHT and GLOW) showed that combining anti-CLDN18.2 antibody with chemotherapy significantly improved PFS and OS as first-line treatment for G/GEJ (gastric/gastroesophageal junction) cancer with CLDN18.2 expression above 75%, 2/3+ per Astellas CDx (~38% of all G/GEJ cancer patients).
- TST001 (osemitamab) is a potential best-in-class antibody with improved CLDN18.2 affinity and enhanced ADCC effect, leading to anti-tumor activity in low to medium CLDN18.2 expression gastric cancer animal models.
- The preliminary efficacy of TST001 in combination with CAPOX in the patients with advanced G/GEJ cancer was reported previously in ASCO and ESMO-GI. Here we present the updated analysis in the patients from dose expansion phase who had received TST001 at 6mg/kg Q3W and CAPOX.

METHODS

- Cohort C from Transtar102 study (NCT04495296) was designed to explore the safety and efficacy of TST001 plus CAPOX as first-line treatment in advanced G/GEJ cancer (Figure 1). Positive CLDN18.2 expression (defined as membranous staining intensity $\geq 1+$ in $\geq 10\%$ of tumor cells) was required in the expansion phase and performed retrospectively in dose escalation and safety run-in phase using the IHC 14G11 LDT assay in a central laboratory. Patients with CLDN18.2 expression $\geq 10\% \geq 1+$ represent approximately 55% of all the G/GEJ cancer patients.



RESULTS

- As of Sep 7, 2023, a total of 64 patients had been dosed with TST001 plus CAPOX: 15 patients were dosed with TST001 at 1 to 8 mg/kg Q3W in the dose escalation and 49 patients at 6 mg/kg in the dose expansion. The median follow-up for the 49 patients was 11.3 months with the longest treatment duration over 1.5 years. The study is still ongoing.
- 41 out of these 49 patients in dose expansion phase had CLDN18.2 positive tumor (High: n=9, Medium: n=13, Low: n=19, per CLDN18.2 expression levels *), and the other 8 patients didn't have the biomarker tested (unknown CLDN18.2 expression).
- The baseline demographics of these 49 patients are similar to the overall population of the 64 patients in this cohort, which was presented previously (*J Clin Oncol* 41, 2023, suppl 16; abstr 4046).

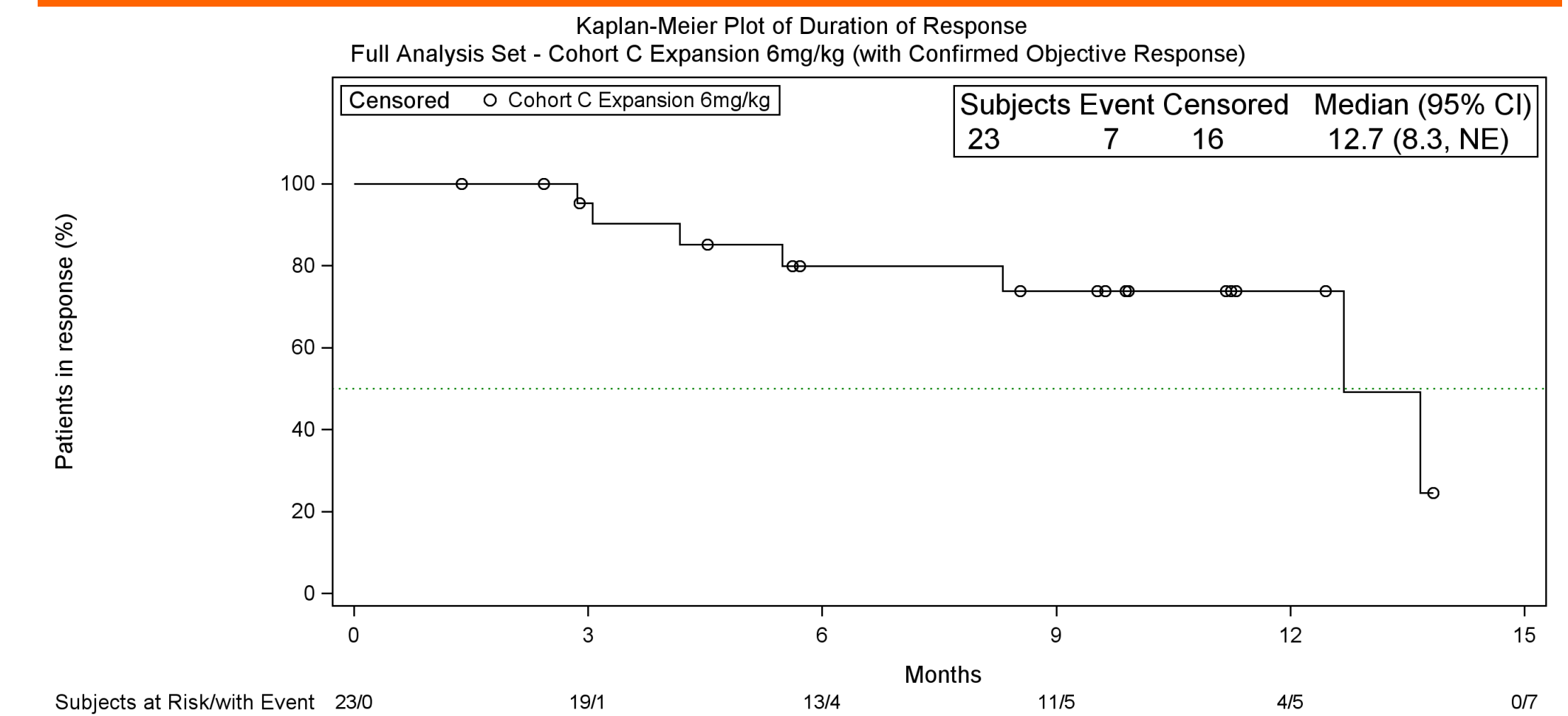
- 81.6% patients had ECOG performance status of 1 and 34.7% patients had 3 or more metastatic lesions. More than half of patients had peritoneum metastasis, which is one of clinical factors predicting poor prognosis (Table 1).

Parameter	Overall (N=49)
Age	Median 56.0 Min, Max 21, 76
Sex, n(%)	Male 30(61.2) Female 19(38.8)
ECOG PS, n(%)	0 9(18.4) 1 40(81.6)
Cancer Type, n(%)	GC 47(95.9) GEJ 2(4.1)
Gastrectomy, n(%)	None 28(57.1) Partial 10(20.4) Total 11(22.4)
Metastasis, n(%)	M0 2(4.1) M1 47(95.9)
No. of Metastasis sites, n(%)	0-2 31(63.3) ≥ 3 17(34.7) Missing 1(2.0)
Sites of Metastasis, n(%)	Peritoneum 25(51.0) Hepatic 10(20.4) Pulmonary 8(16.3)
CLDN18.2 levels*, n(%)	High 9(18.4) Medium 13(26.5) Low 19(38.8) UK 8(16.3)
Measurable disease, n(%)	Yes 45(91.8) No 4(8.2)

* **High:** $\geq 70\%$ tumor cells staining 2+ or 3+; **Medium:** $\geq 40\%$ and $< 70\%$ tumor cells staining 2+ or 3+; **Low:** $\geq 10\%$ tumor cells staining $\geq 1+$ and $< 40\%$ 2+ or 3+ ; **UK:** unknown

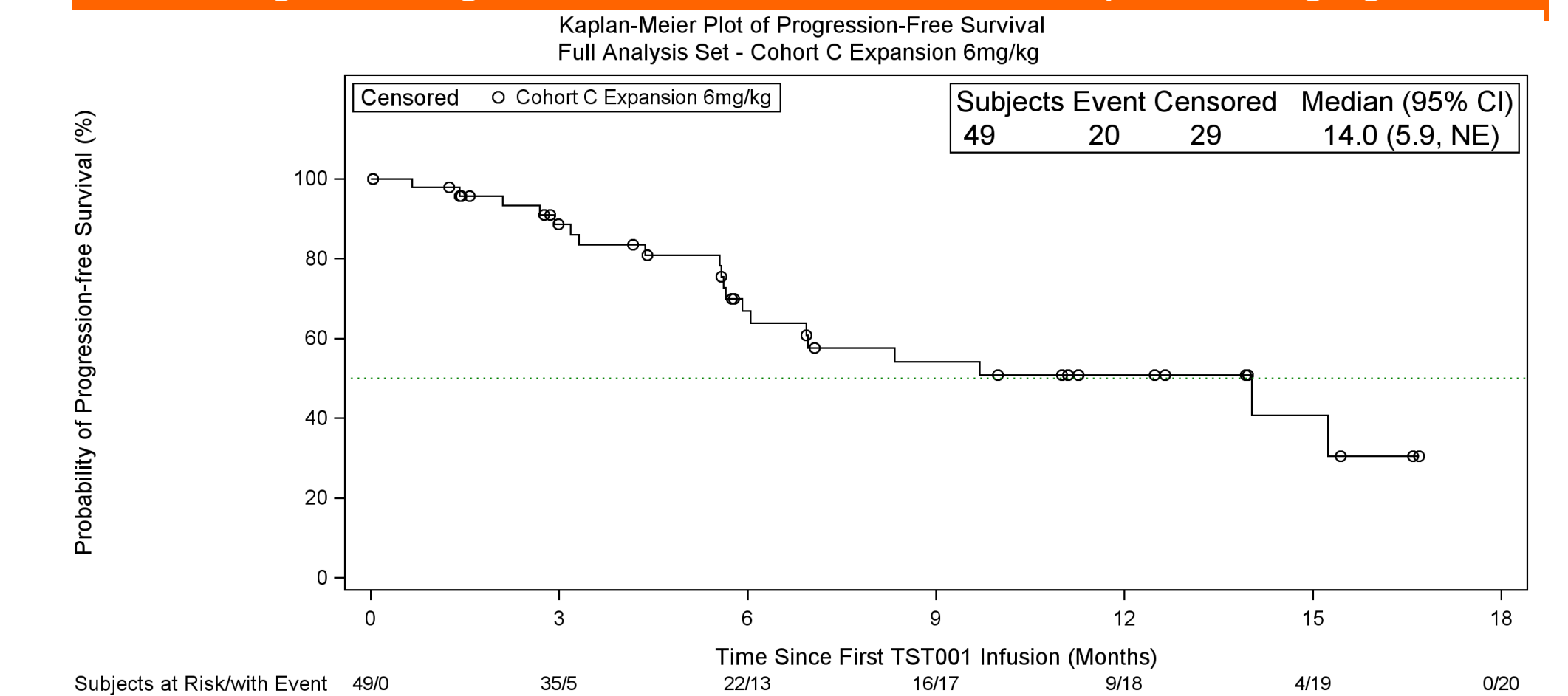
- The safety profile of these 49 patients are similar to the overall population of 64 patients in this cohort, which was presented previously (*J Clin Oncol* 41, 2023, suppl 16; abstr 4046). It was mainly characterized by manageable on-target-off-tumor effects, including nausea, hypoalbuminaemia, and vomiting, most of them were grade 1 or 2 and occurred during the first 2 cycles.
- As of the cut-off date, among the 42 patients who had measurable lesions at baseline and at least one post-baseline tumor assessment, 28 achieved partial response, of which 23 (54.8%, 23/42) had been confirmed. The median duration of response (DoR) of these 23 responders was 12.7 months (Figure 2).

Figure 2. Duration of Response of Cohort C Expansion 6mg/kg



- As of the cut-off date, among the 49 patients, 20 patients had progression of disease or death, with an estimated median progression-free survival (PFS) of 14 months (Figure 3).

Figure 3. Progression-Free Survival of Cohort C Expansion 6mg/kg



- As of the cut-off date, the median OS was not reached because of the limited number of events, the 12-month survival rate for the overall population (64 patients) in this cohort was 88.9% (95% CI: 74.2, 95.4).

CONCLUSIONS

- TST001 plus CAPOX as first-line treatment in patients with G/GEJ cancer demonstrated good safety and tolerability.
- The addition of TST001 to CAPOX as first-line treatment in patients with CLDN18.2 expressing (defined as membranous staining intensity $\geq 1+$ in $\geq 10\%$ of tumor cells using IHC 14G11 LDT) G/GEJ cancer leads to encouraging and durable anti-tumor activities with longer DoR and PFS as compared to historical controls.
- The overall survival data is immature and requires further follow-up.