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Annual Congress

Health-related quality of life with zanidatamab + chemotherapy $\pm$ tislelizumab for first-line HER2-positive advanced/metastatic gastro-oesophageal adenocarcinoma: Results from HERIZON-GEA-01

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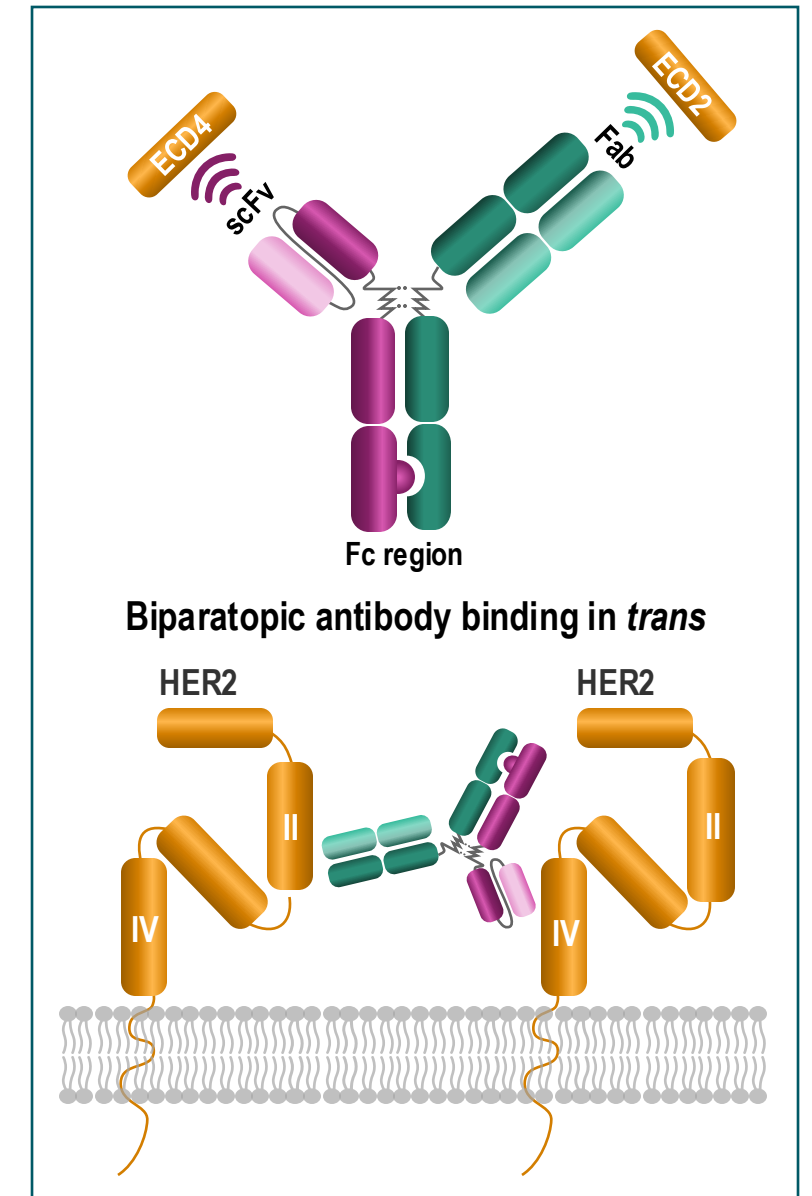
Declaration of Interests

Kohei Shitara reports consulting fees from AbbVie; ALX Oncology; Amgen; Arcus Biosciences; Astellas Pharma; AstraZeneca; Bayer; Boehringer Ingelheim; Bristol Myers Squibb; CMIC Co., Ltd.; Daiichi Sankyo; eChinaHealth, Inc.; Elevation Oncology; Gilead Sciences; GlaxoSmithKline K.K.; Guardant Health; Healios; Janssen; Leap Therapeutics; Merck Sharp & Dohme; Moderna Therapeutics; Novartis; Oncolys BioPharma; Ono Pharmaceutical; Phanes Therapeutics; Revolution Medicines, Inc.; Sanofi; Scandion Oncology; Suzhou Liangyihui Network Technology Co.; Takeda; and Zymeworks; honoraria from Astellas Pharma, AstraZeneca, Bristol Myers Squibb, Janssen, Lilly, and Ono Pharmaceutical; and research funding from Amgen, Astellas Pharma, AstraZeneca, Chugai Pharma, Daiichi Sankyo, Eisai, Medpace Japan K.K., Merck Sharp & Dohme, Ono Pharmaceutical, PPD-SNBL, PRA Health Sciences, Syneos Health, Taiho Pharmaceutical, and Toray Industries.

Background

- *In the primary analysis of PFS and the first interim analysis of OS from the phase 3 HERIZON-GEA-01 trial, **zanidatamab + chemotherapy ± tislelizumab significantly prolonged PFS, and + tislelizumab yielded a significant OS benefit vs trastuzumab + chemotherapy in 1L HER2-positive mGEA**¹*
 - *The safety profile was consistent with the known profiles of each individual treatment*
- **Zanidatamab is a HER2-directed bispecific antibody that binds to HER2 ECD 2 and 4 in a *trans* configuration, facilitating the formation of distinct HER2 clusters on the cell surface. It has several key mechanisms of action²**
 - **Increasing HER2 internalisation**
 - **Reducing phosphorylation of EGFR, HER2, and HER3 and blocking downstream signalling**
 - **Inducing immune-mediated effects (CDC, ADCC, and ADCP)**
- **Tislelizumab is a high-affinity immune checkpoint inhibitor targeting PD-1 and is specifically engineered to minimise Fcγ receptor binding on macrophages^{3,4}**

Here we report results of prespecified secondary endpoints and post hoc exploratory analyses of PROs measuring HRQoL for patients in HERIZON-GEA-01



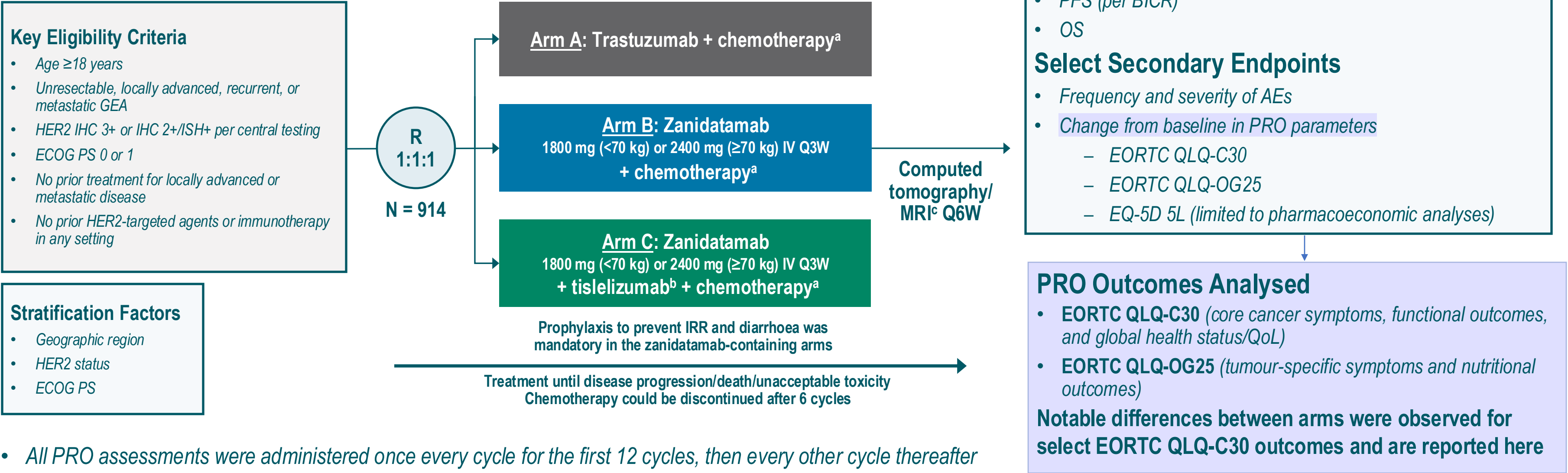
1L, first-line; ADCC, antibody-dependent cellular cytotoxicity; ADCP, antibody-dependent cellular phagocytosis; CDC, complement-dependent cytotoxicity; ECD, extracellular domain; EGFR, epidermal growth factor receptor; Fab, fragment antigen binding; Fc, fragment crystallisable; HER2, human epidermal growth factor receptor 2; HER3, human epidermal growth factor receptor 3; HRQoL, health-related quality of life; mGEA, advanced or metastatic gastro-oesophageal adenocarcinoma; OS, overall survival; PD-1, programmed cell death protein 1; PFS, progression-free survival; PRO, patient-reported outcome; scFv, single-chain variable fragment.

1. Shitara K, et al. *N Engl J Med*. 2026;394:2022-14. 2. Weisser NE, et al. *Nat Commun*. 2023;14(1):1394. 3. Hong Y, et al. *FEBS Open Bio*. 2021;11(3):782-92. 4. Zhang T, et al. *Cancer Immunol Immunother*. 2018;67(7):1079-90.

HERIZON-GEA-01 Study Design

Global phase 3 trial of zanidatamab + chemotherapy ± tislelizumab vs trastuzumab + chemotherapy in previously untreated patients with HER2+ mGEA

ClinicalTrials.gov: NCT05152147



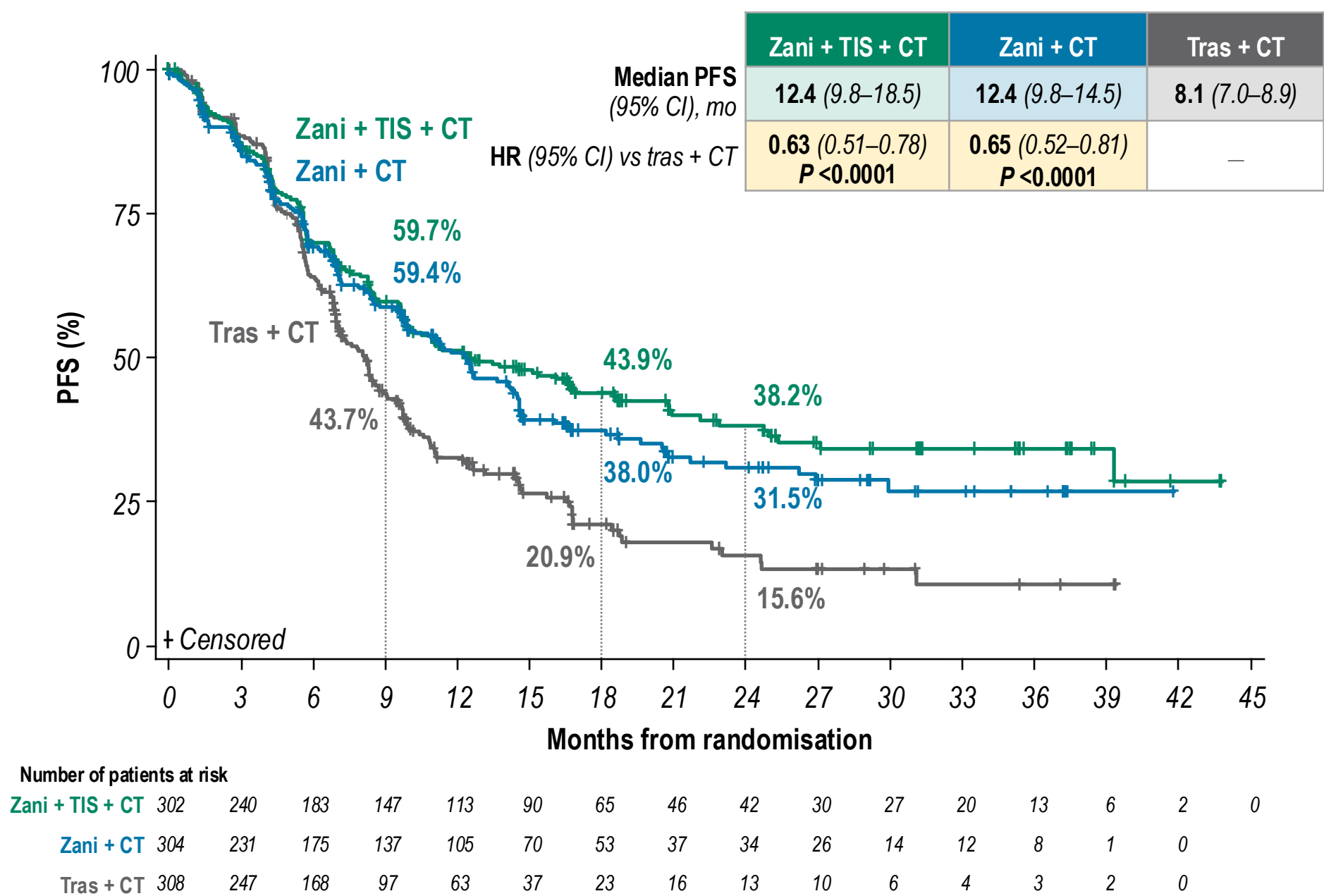
^aPhysician's choice of capecitabine plus oxaliplatin or 5-fluorouracil plus cisplatin. Chemotherapy was administered for at least 6 cycles or until disease progression, unacceptable toxicity, or another criterion for treatment discontinuation was met.

^bTislelizumab 200 mg was administered IV Q3W. ^cComputed tomography/MRI scans were performed every 6 weeks for the first 54 weeks, then every 9 weeks.

AE, adverse event; BICR, blinded independent central review; ECOG PS, Eastern Cooperative Oncology Group performance status; EORTC QLQ-C30, European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire–Core 30; EORTC QLQ-OG25, European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire–Oesophago-Gastric Cancer Module (25 Items); EQ-5D 5L, EuroQoL 5-Dimensions 5-Levels questionnaire; GEA, gastro-oesophageal adenocarcinoma; HER2, human epidermal growth factor receptor 2; IHC, immunohistochemistry; IRR, infusion-related reaction; ISH, in situ hybridisation; IV, intravenously; mGEA, advanced or metastatic GEA; MRI, magnetic resonance imaging; OS, overall survival; PFS, progression-free survival; PRO, patient-reported outcome; Q3W, every 3 weeks; Q6W, every 6 weeks; QoL, quality of life; R, randomisation.

Primary Endpoints: PFS per BICR and OS

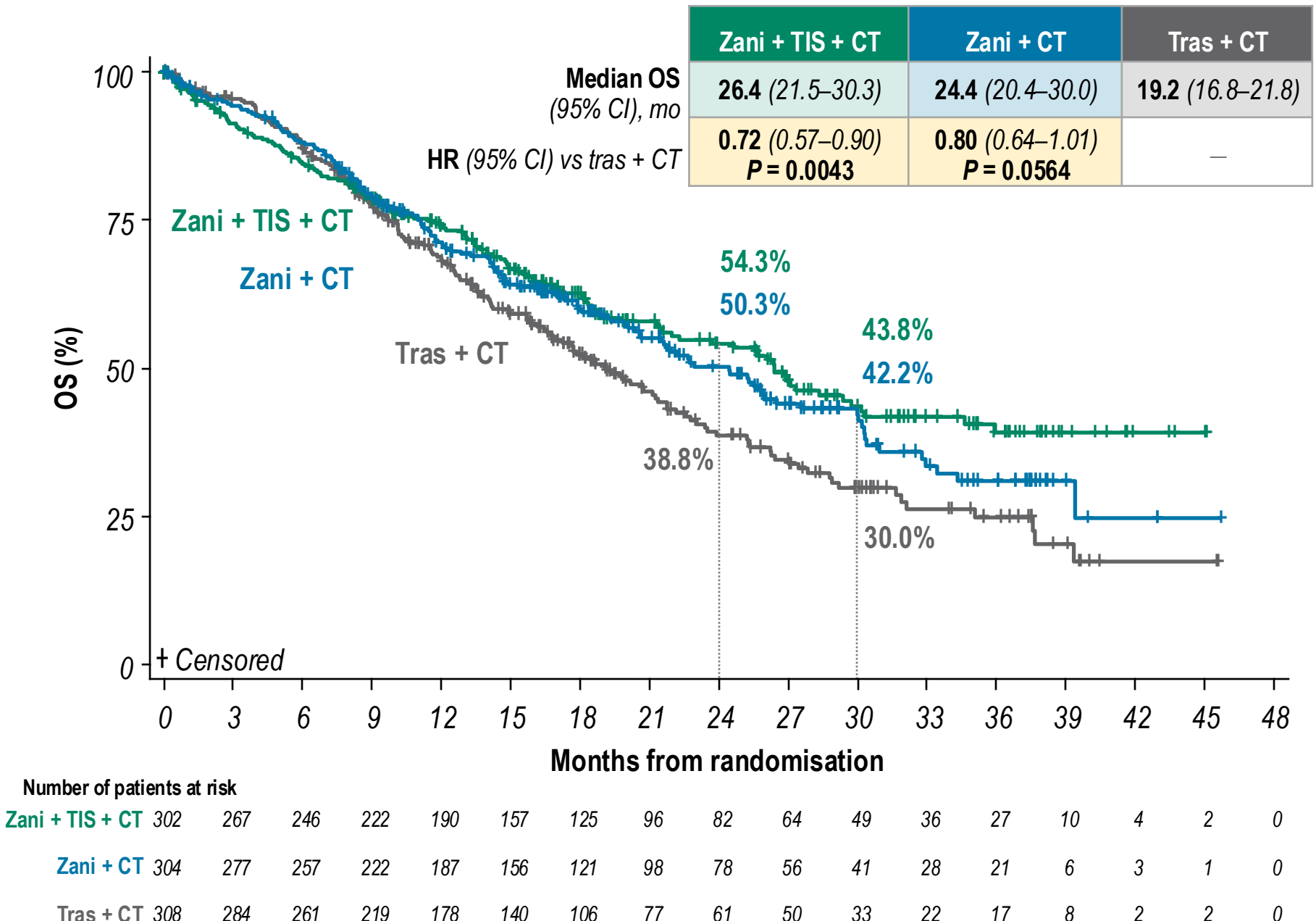
Significant and clinically meaningful improvement for PFS occurred in both zanidatamab-containing arms and for OS in the zanidatamab + tislelizumab + chemotherapy arm vs trastuzumab + chemotherapy^{1,2}



Data cutoff: October 1, 2025.
BICR, blinded independent central review; CT, chemotherapy; HR, hazard ratio; OS, overall survival; PFS, progression-free survival; TIS, tislelizumab; tras, trastuzumab; zani, zanidatamab.
1. Elimova E, et al. J Clin Oncol. 2026;44:LBA285. 2. Shitara K, et al. N Engl J Med. 2026;394:2022-14.

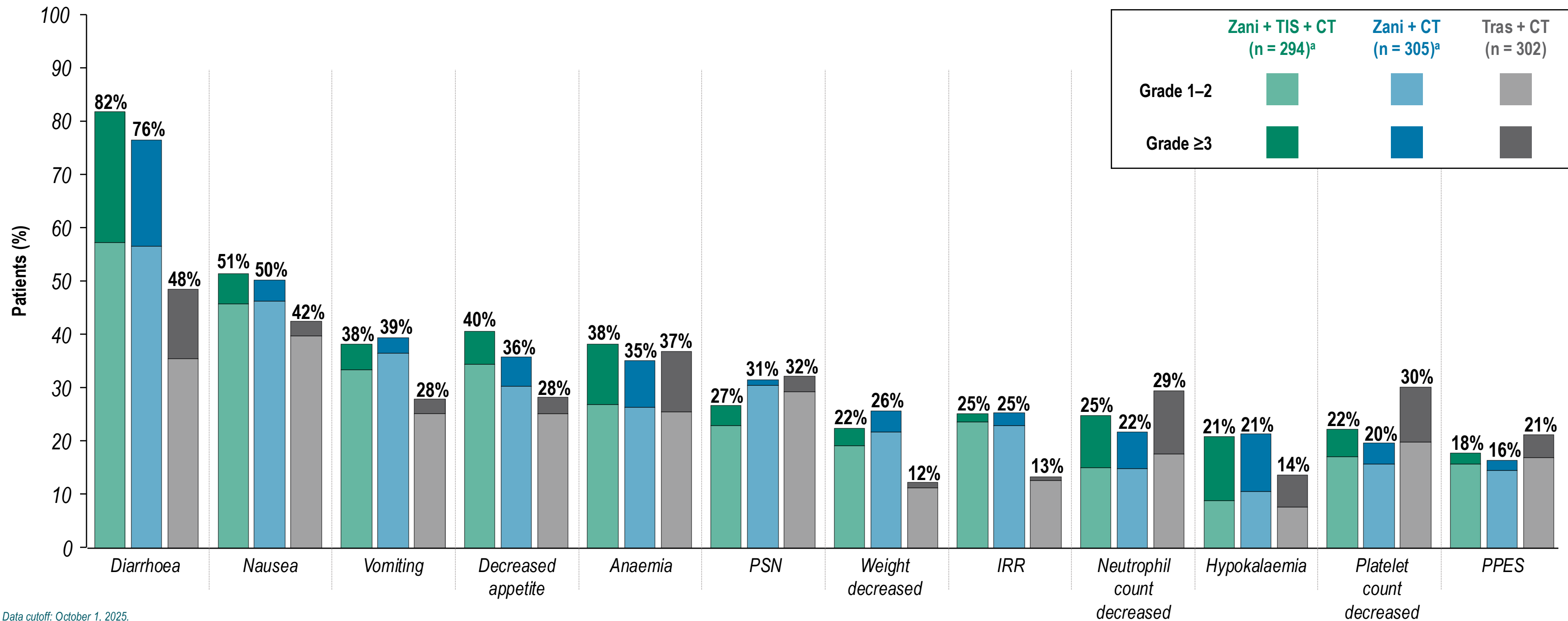
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Common TRAEs ($\geq 20\%$ of Patients in Any Arm)

Diarrhoea was the most common TRAE in all treatment arms^{1,2}



Data cutoff: October 1, 2025.

^aFive patients who were assigned to the zanidatamab-tislelizumab-chemotherapy arm did not receive tislelizumab. Data from these patients are summarised in the zanidatamab-chemotherapy arm.

CT, chemotherapy; IRR, infusion-related reaction; PPES, palmar-plantar erythrodysesthesia syndrome; PSN, peripheral sensory neuropathy; TIS, tislelizumab; TRAE, treatment-related adverse event; tras, trastuzumab; zani, zanidatamab.

1. Elimova E, et al. J Clin Oncol. 2026;44:LBA285. 2. Shitara K, et al. N Engl J Med. 2026;394:2022-14.

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EORTC QLQ-C30 Completion Rates

Completion rates for EORTC QLQ-C30 during the on-treatment period remained high throughout the study

Completion rate, ^a % (n/N)	Zanidatamab + tislelizumab + CT	Zanidatamab + CT	Trastuzumab + CT
Start-of-treatment visit	96.7 (292/302)	97.4 (296/304)	95.8 (295/308)
While on treatment, min–max ^b	97.0–100.0	97.0–100.0	98.3–100.0
End-of-treatment visit ^c	60.7 (128/211)	65.4 (151/231)	70.2 (186/265)

Data cutoff: October 1, 2025.

^aCompletion is defined as completing ≥1 scale within the questionnaire based on the EORTC scoring derivation.

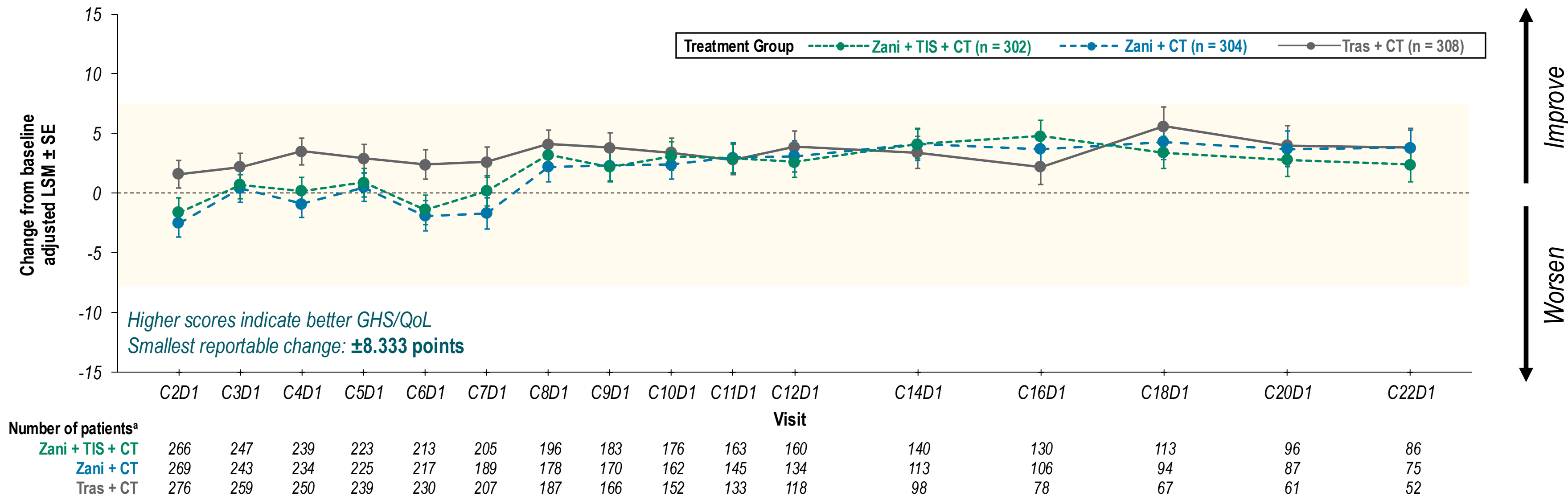
^bOn-treatment range is from C2D1 to C24D1.

^cCompletion rate at the end-of-treatment visit is defined as the percentage of patients who completed a PRO assessment at the end-of-treatment visit out of the patients who discontinued study treatment.

C, cycle; CT, chemotherapy; D, day; EORTC QLQ-C30, European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire–Core 30; max, maximum; min, minimum; PRO, patient-reported outcome.

EORTC QLQ-C30 Global Health Status/Quality of Life

There were no substantive changes in GHS/QoL from baseline across treatment arms over time



- Baseline mean scores were balanced across arms: 63.6 (tras + CT), 65.2 (zani + CT), and 65.1 (zani + TIS + CT)
- Changes in the treatment arms were not substantive, as they were less than the smallest reportable change of ± 8.333 points
- After C8D1, among patients who remained on treatment, mean LSM were slightly above baseline for the remaining treatment duration

Data cutoff: October 1, 2025. Shaded area represents smallest reportable change of ± 8.333 points. Patients could discontinue CT at the discretion of the treating physician (after completion of C6).

^aReflects the number of patients included in the analysis at each time point.

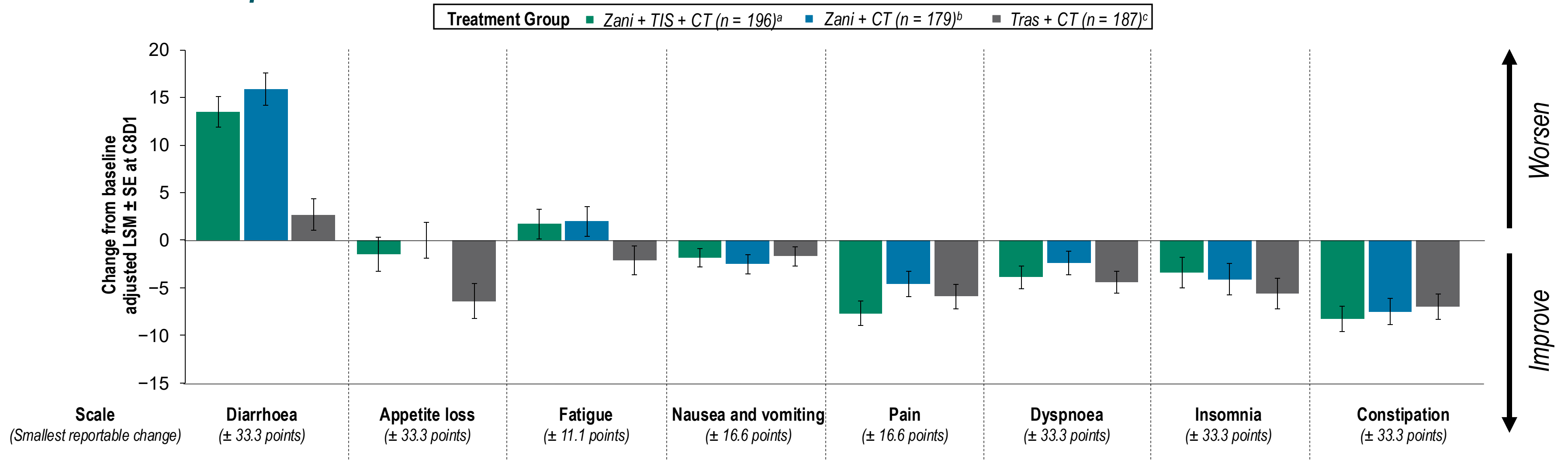
C, cycle; CT, chemotherapy; D, day; EORTC QLQ-C30, European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire–Core 30; GHS/QoL, global health status/quality of life; LSM, least-squares mean; SE, standard error; TIS, tislelizumab; tras, trastuzumab; zani, zanidatamab.

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EORTC QLQ-C30 Symptom Scales at C8D1

Across symptom scales at C8D1, few notable differences in change from baseline were observed between the control arm and experimental arms



- At C8D1, change from baseline in diarrhoea scores showed the greatest decline of all symptoms and the greatest difference between zani-containing arms and the control arm; across all treatment arms, patients reported improvement in nausea and vomiting, pain, dyspnoea, insomnia, and constipation
- Disease-specific symptoms per EORTC QLQ-OG25 were similar across arms throughout the study (data not shown)

Data cutoff: October 1, 2025. Patients could discontinue CT at the discretion of the treating physician (after completion of cycle 6).

^aFor appetite loss, n = 195; for pain, n = 197. ^bFor appetite loss and insomnia, n = 178. ^cFor insomnia, n = 186.

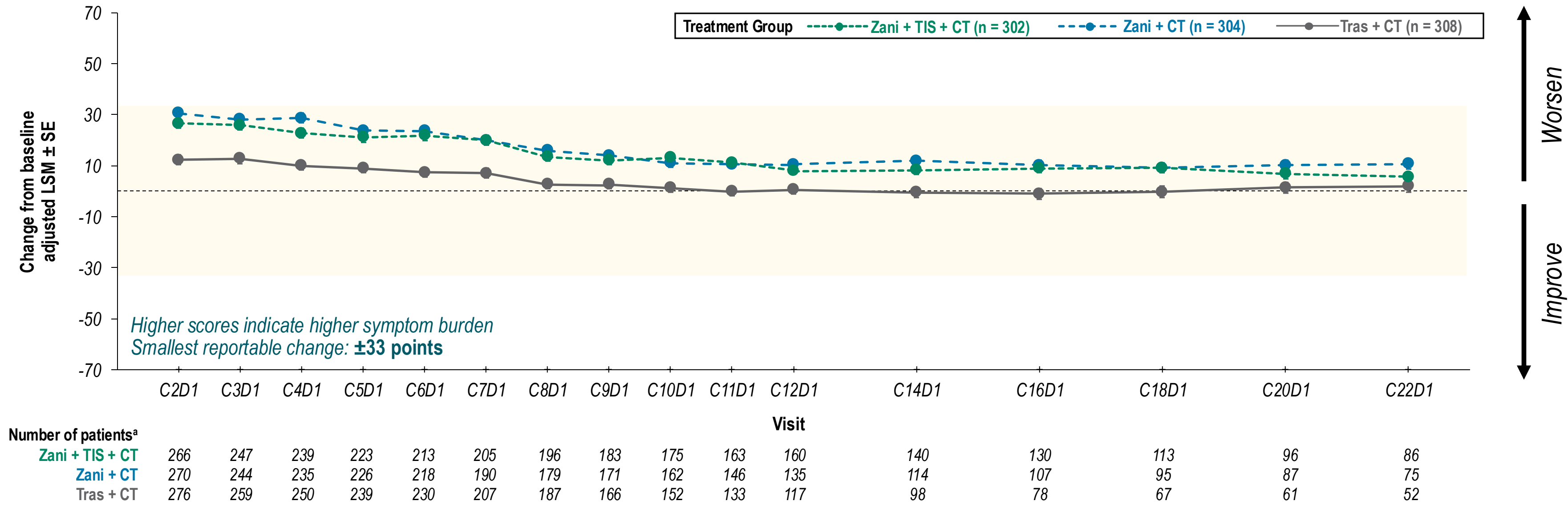
C, cycle; CT, chemotherapy; D, day; EORTC QLQ-C30, European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire C30; EORTC QLQ-OG25, European Organisation for Research and Treatment of Cancer Oesophago-Gastric Cancer questionnaire; LSM, least-squares mean; SE, standard error; TIS, tislelizumab; tras, trastuzumab; zani, zanidatamab.

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EORTC QLQ-C30 Symptom: Diarrhoea

Patient-reported diarrhoea was consistent with the safety profile; the severity of diarrhoea improved across all arms at C8D1 and remained stable through subsequent time points

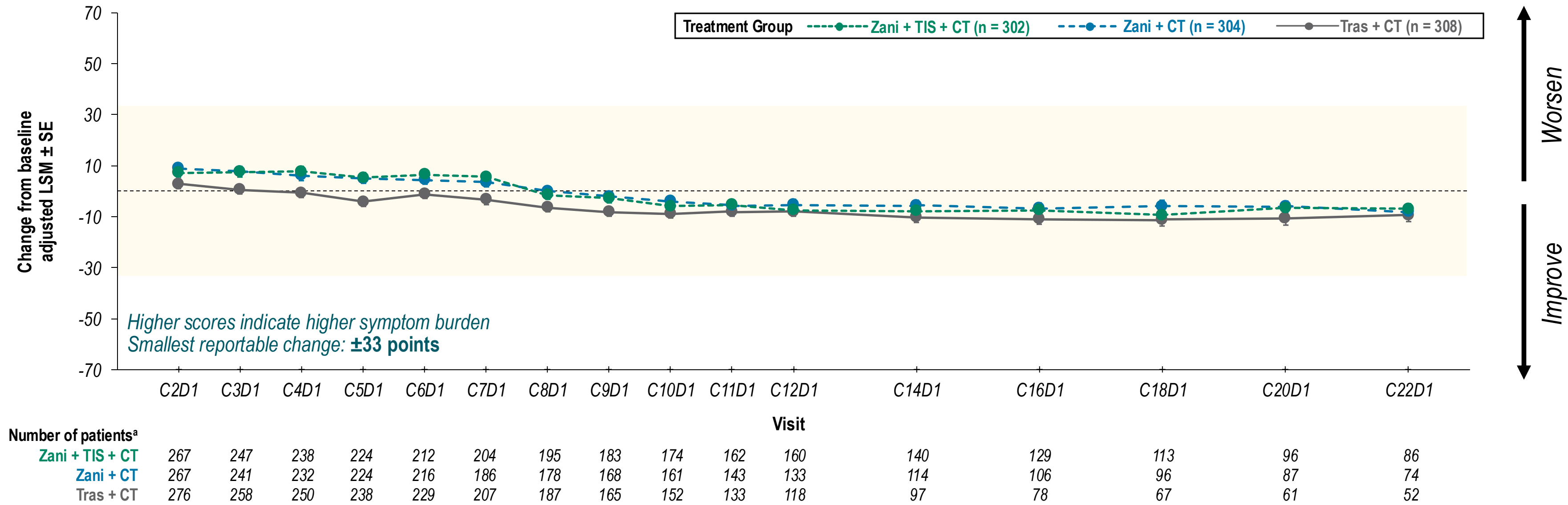


- Baseline diarrhoea scores were low across all arms; patients in all 3 treatment arms reported an increase in the severity of diarrhoea following the initiation of study treatment, but to a greater degree in the zani + TIS + CT and zani + CT arms than in the control arm; however, this improved after C8D1

Data cutoff: October 1, 2025. Shaded area represents smallest reportable change of ± 33 points. Patients could discontinue CT at the discretion of the treating physician (after completion of C6).
^aReflects the number of patients included in the analysis at each time point.
C, cycle; CT, chemotherapy; D, day; EORTC QLQ-C30, European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire–Core 30; LSM, least-squares mean; SE, standard error; TIS, tislelizumab; tras, trastuzumab; zani, zanidatamab.

EORTC QLQ-C30 Symptom: Appetite Loss

Patients in all 3 treatment arms reported an improvement at C8D1, which remained stable throughout the remaining treatment duration

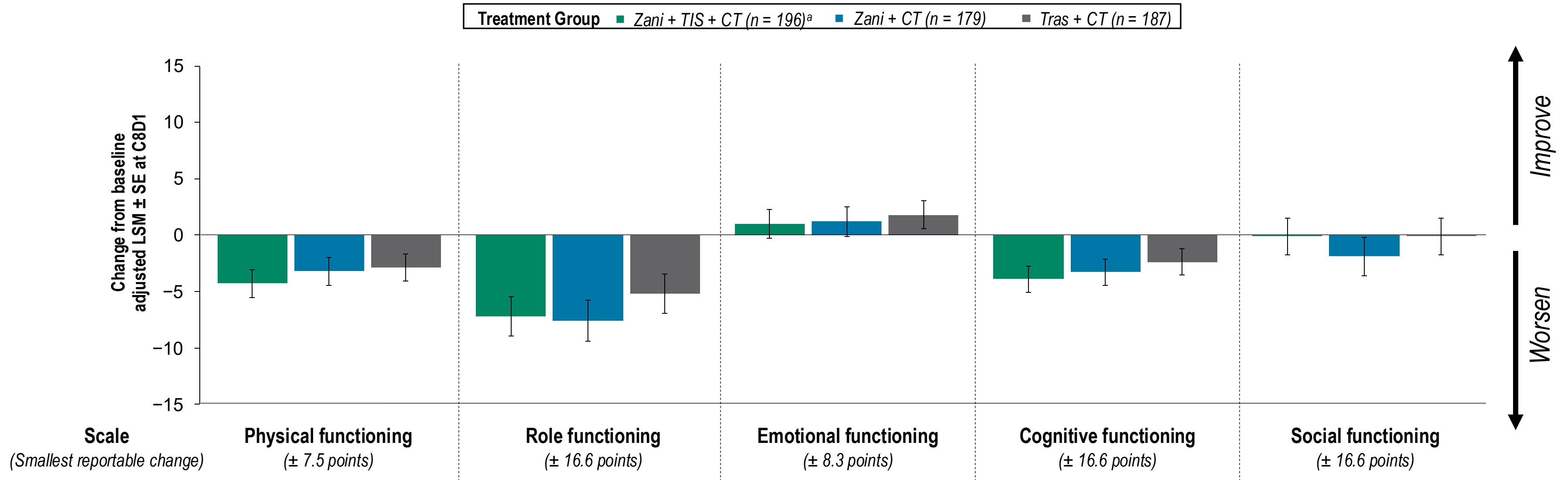


- Across treatment arms, patient-reported appetite loss scores were low at baseline, improved at C8D1, and were comparable at subsequent time points

Data cutoff: October 1, 2025. Shaded area represents smallest reportable change of ± 33 points. Patients could discontinue CT at the discretion of the treating physician (after completion of C6).
^aReflects the number of patients included in the analysis at each time point.
C, cycle; CT, chemotherapy; D, day; EORTC QLQ-C30, European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire–Core 30; LSM, least-squares mean; SE, standard error; TIS, tislelizumab; tras, trastuzumab; zani, zanidatamab.

EORTC QLQ-C30 Functional Scales at C8D1

Across functional scales at C8D1, changes from baseline were generally similar across groups, indicating minimal impact on patient functioning



Data cutoff: October 1, 2025. Patients could discontinue CT at the discretion of the treating physician (after completion of C6).

^aFor role functioning, n = 197.

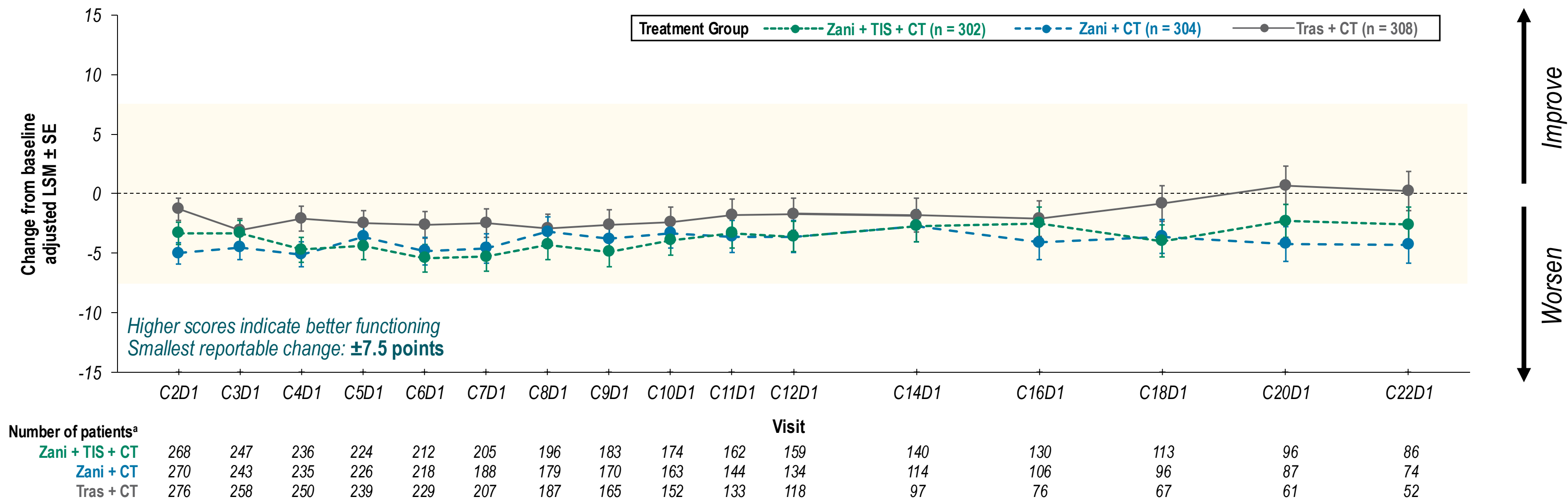
C, cycle; CT, chemotherapy; D, day; EORTC QLQ-C30, European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire C30; GHS, global health status; LSM, least-squares mean; QoL, quality of life; SE, standard error; TIS, tislelizumab; tras, trastuzumab; zani, zanidatamab.

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EORTC QLQ-C30 Physical Functioning

Physical functioning scores declined slightly after treatment initiation, but improved over time

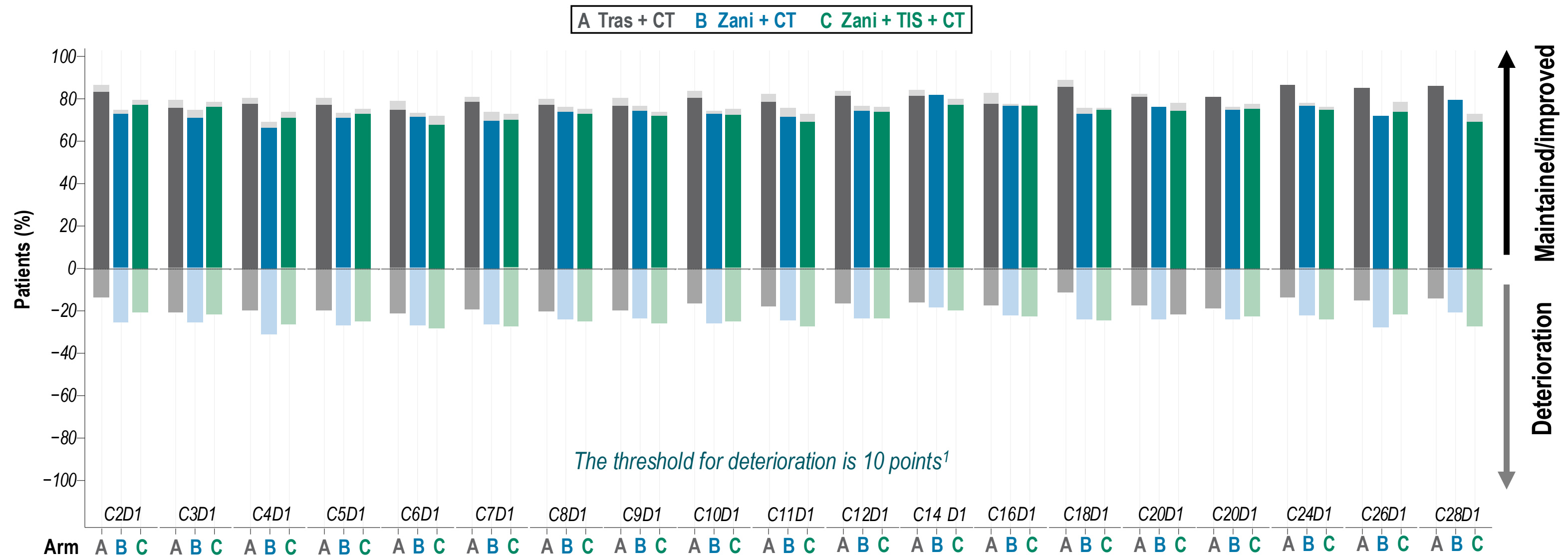


- Mean physical function scores at baseline were similar across treatment arms
- Differences in adjusted mean scores between the treatment arms were not substantive, as they were less than the smallest change of ± 7.5 points

Data cutoff: October 1, 2025. Shaded area represents smallest reportable change of ± 7.5 points. Patients could discontinue CT at the discretion of the treating physician (after completion of C6).
^aReflects the number of patients included in the analysis at each time point.
 C, cycle; CT, chemotherapy; D, day; EORTC QLQ-C30, European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire–Core 30; LSM, least-squares mean; SE, standard error; TIS, tislelizumab; tras, trastuzumab; zani, zanidatamab.

EORTC QLQ-C30 Maintenance of Physical Function

In a post hoc analysis, most patients across all arms maintained their physical function relative to baseline



- Between C2D1 and C8D1, the percentage of patients that maintained or had improved physical function relative to baseline was high in all 3 treatment arms (range: zani + TIS + CT, 67.4%–76.7%; zani + CT, 66.1%–73.8%; tras + CT, 74.5%–83.2%)

Data cutoff: October 1, 2025. Patients could discontinue CT at the discretion of the treating physician (after completion of C6).

C, cycle; CT, chemotherapy; D, day; EORTC QLQ-C30, European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire–Core 30; TIS, tislelizumab; tras, trastuzumab; zani, zanidatamab.

1. Osoba D, et al. J Clin Oncol. 1998;16:139-44.

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Discussion

- *In HERIZON-GEA-01, clinically meaningful and statistically significant improvements were observed for PFS in both zanidatamab-containing arms and for OS in the zanidatamab + tislelizumab + chemotherapy arm vs trastuzumab + chemotherapy*
- *Zanidatamab-containing regimens improved survival outcomes relative to trastuzumab + chemotherapy with minimal detriment to HRQoL*
- *Overall, there were no substantive changes in GHS/QoL, functional outcomes, or symptom scores in any of the treatment arms*
 - *Patient-reported diarrhoea was consistent with the known safety profiles of the agents administered*



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These data support the use of zanidatamab + chemotherapy with and without tislelizumab as a new standard of care in the 1L treatment of patients with HER2-positive mGEA

Acknowledgements

The authors thank all the patients and their families as well as all the investigators, clinical trial researchers, personnel, and staff who contributed to or participated in the trial

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- *Under the direction of the authors, Samantha Tener, PhD, and Charlotte Pettigrew, PhD, CMPP, of Red Nucleus, Yardley, PA, USA, provided medical writing support, which was funded by Jazz Pharmaceuticals in accordance with Good Publication Practice (GPP 2022) guidelines (<https://www.ismpp.org/gpp-2022>)*

Lay Summary

Why did we perform this research?

- *Current treatments for people with locally advanced or metastatic gastro-oesophageal adenocarcinoma (or mGEA) only provide modest benefit*
- *Some of these tumours have too much of a protein called human epidermal growth factor receptor 2 (or HER2) on the cell surface (also known as HER2-positive)*
- *In the HERIZON-GEA-01 study, people who received zanidatamab plus chemotherapy with and without tislelizumab survived longer without their cancer getting worse compared with people treated with trastuzumab plus chemotherapy*
 - *There were no new concerning side effects with either zanidatamab or tislelizumab*
- *It is important to measure the quality of life reported by patients taking certain medicines to understand the overall risks vs benefits of that medication*

How did we perform this research?

- *The HERIZON-GEA-01 study looked at whether a medicine called zanidatamab, which targets HER2, could help people with previously untreated HER2-positive mGEA*
- *People in this study could receive one of three possible treatments:*
 - 1) *Zanidatamab combined with a medicine called tislelizumab, which targets a protein called PD-1, plus standard chemotherapy*
 - 2) *Zanidatamab plus standard chemotherapy*
 - 3) *Trastuzumab, which is the current standard medicine for targeting HER2 in mGEA, plus standard chemotherapy*
- *Patients filled out questionnaires throughout treatment to indicate their level of well-being for various symptoms and types of functioning (physical, emotional, social, etc)*

What were the results of this research?

- *People who received zanidatamab plus chemotherapy with and without tislelizumab did not experience any concerning impacts on their quality of life during treatment*
 - *Patients reported slightly worsened physical functioning, health-related quality of life, and symptoms of diarrhoea and appetite loss at the beginning of the trial*
 - *Diarrhoea and appetite loss are known side effects of zanidatamab and tislelizumab with chemotherapy*
 - *These symptoms, along with physical functioning and quality of life, improved over the course of the trial, specifically from the time that patients could discontinue chemotherapy*

HER2, human epidermal growth factor receptor 2; mGEA, advanced or metastatic gastro-oesophageal adenocarcinoma; PD-1, programmed cell death protein 1.

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