

# 2026 ESMO GASTROINTESTINAL CANCERS

Annual Congress

## STAR-221: A phase 3 study of first-line domvanalimab, zimberelimab, and chemotherapy vs nivolumab + chemotherapy in advanced *HER2*-negative gastric, gastroesophageal junction, or esophageal adenocarcinoma

Yelena Y. Janjigian<sup>1</sup>, Sun Young Rha<sup>2</sup>, Zev Wainberg<sup>3</sup>, Samuel J. Klempner<sup>4</sup>, Ru-Hua Xu<sup>5</sup>, Marcelo Garrido Salvo<sup>6</sup>, Tamar Melkadze<sup>7</sup>, Alberto Suarez Zaizar<sup>8</sup>, Michael Schenker<sup>9</sup>, Lucjan Wyrwicz<sup>10</sup>, Fernando Rivera<sup>11</sup>, Clélia Coutzac<sup>12</sup>, Lorenzo Gervaso<sup>13</sup>, Eric Van Cutsem<sup>14</sup>, Guan Xing<sup>15</sup>, Nooshin Hashemi Sadraei<sup>15</sup>, Shruti Agrawal<sup>16</sup>, Jennifer R. Scott<sup>16</sup>, Allan Sison<sup>16</sup>, Kohei Shitara<sup>17</sup>

<sup>1</sup>Memorial Sloan Kettering Cancer Center, New York, NY, USA; <sup>2</sup>Yonsei Cancer Center, Yonsei University College of Medicine, Seoul, Korea; <sup>3</sup>Ronald Reagan UCLA Medical Center, Los Angeles, CA, USA; <sup>4</sup>Massachusetts General Hospital, Boston, MA, USA; <sup>5</sup>Sun Yat-Sen Cancer Center, Guangzhou, China; <sup>6</sup>Centro de Estudios Clínicos SAGA, Santiago, Chile; <sup>7</sup>Research Institute of Clinical Medicine, Todua Clinic, Tbilisi, Georgia; <sup>8</sup>CENEIT Oncológicos, Mexico City, Mexico; <sup>9</sup>Centrul de Oncologie Sf Nectarie, Craiova, Romania; <sup>10</sup>Narodowy Instytut, Warsaw, Poland; <sup>11</sup>Hospital Universitario Marqués de Valdecilla, IDIVAL, Santander, Spain; <sup>12</sup>Centre Léon Bérard, Lyon, France; <sup>13</sup>Istituto Europeo di Oncologia, Milan, Italy; <sup>14</sup>University Hospitals Leuven and KU Leuven, Belgium; <sup>15</sup>Gilead Sciences, Inc, Foster City, CA, USA; <sup>16</sup>Arcus Biosciences, Hayward, CA, USA; <sup>17</sup>National Cancer Center Hospital East, Kashiwa, Chiba, Japan

# Declaration of Interests

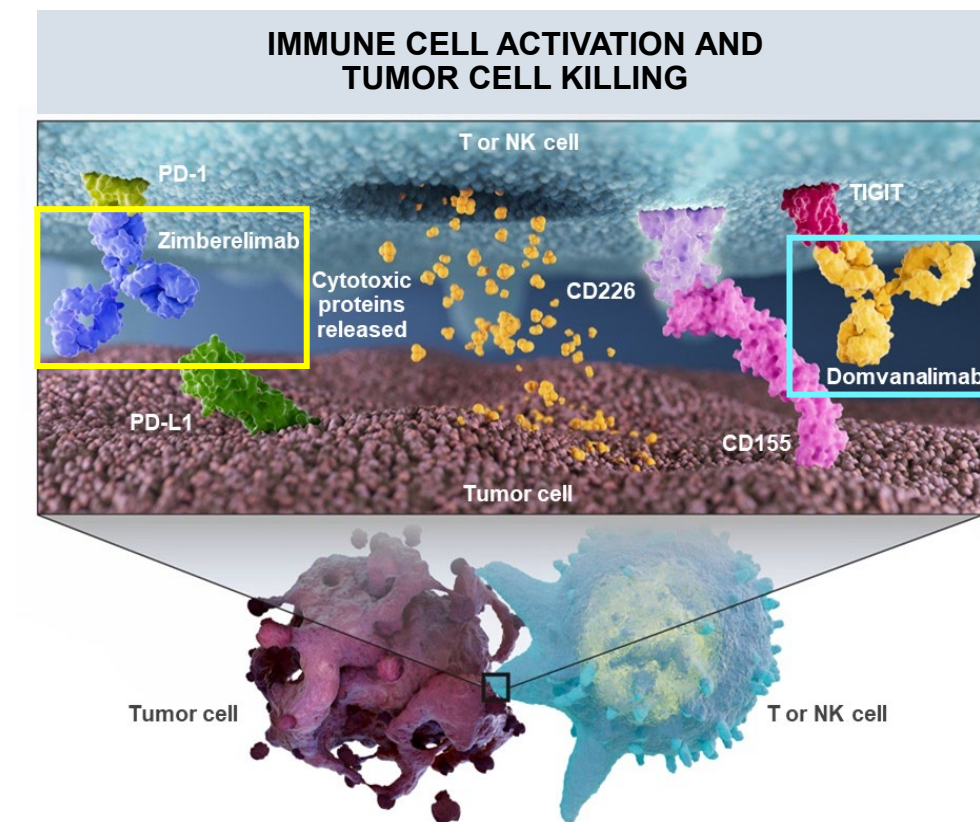
Sun Young Rha reported,

Grants or contracts for other studies from ABL Bio, Amgen, Arcus Biosciences, Astellas Pharma, AstraZeneca, BeOne, Bold Therapeutics, Celltrion, Daiichi Sankyo, DongA, Eisai, Henlius, Ipsen, Jazz, Merck KGaA, Merck Sharp and Dohme, Ono Pharmaceutical, Pfizer, and Taiho Pharmaceutical

Consulting, steering committee and advisory board for Amgen, AstraZeneca, Astellas Pharma, Arcus Biosciences, BeOne, Celltrion, Daiichi Sankyo, Gilead, Henlius, Indivumed, LG Chem, Eisai, Merck, MSD, Takeda, Toray

# Introduction

- The addition of anti-PD-1 antibodies to chemo has improved survival outcomes in advanced gastroesophageal adenocarcinoma<sup>1–3</sup>
- However, clinical outcomes remain poor, with median overall survival of 13–15 months<sup>2–4</sup>; thus, more effective first-line treatment options are needed
- TIGIT is an inhibitory immune checkpoint expressed on activated T cells and natural killer cells, and plays a critical role in limiting immunity against tumors<sup>5</sup>
- The dual blockade of TIGIT and PD-1 using domvanalimab (dom; Fc-silent, anti-TIGIT) and zimberelimab (zim; anti-PD-1) with chemo showed activity in the phase 2 EDGE-Gastric A1 trial<sup>6</sup>
- We report the results of STAR-221, a phase 3 study of first-line dom + zim + chemo in patients with advanced *HER2*-negative GC/GEJC/EAC



1. Janjigian YY, et al. *Lancet*. 2021;398:27-40. 2. Rha SY, et al. *Lancet Oncol*. 2023;24:1181-95. 3. Qiu M-Z, et al. *BMJ*. 2024;385:e078876. 4. Janjigian YY, et al. *J Clin Oncol*. 2024;42:2012-20. 5. Chauvin J-M and Zarour HM. *J Immunother Cancer*. 2020;8:e000957. 6. Janjigian YY, et al. *Nat Med*. 2025;31:4274-80.

Chemo, chemotherapy; EAC, esophageal adenocarcinoma; GC, gastric cancer; GEJC, gastroesophageal junction carcinoma; *HER2*, human epidermal growth factor receptor 2; PD-1, programmed cell death protein 1; TIGIT, T-cell immunoreceptor with immunoglobulin and ITIM (immunoreceptor tyrosine-based inhibitory motif) domains.

# Study Design

➤ Global randomized phase 3 trial of dom + zim + chemo vs nivolumab + chemotherapy as 1<sup>st</sup> line treatment in HER2 - AGC

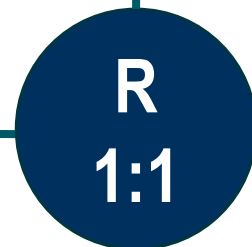
## Key eligibility criteria

- Age ≥ 18 years
- Histologically confirmed diagnosis of locally advanced unresectable or metastatic GC/GEJC/EAC
- ECOG PS 0–1
- Measurable disease per RECIST v1.1
- *HER2*-negative tumor
- No prior systemic treatment for locally advanced unresectable or metastatic GC/GEJC/EAC

## Stratification factors

- **PD-L1 expression:** TAP ≥ 5% vs TAP < 5%
- **ECOG PS:** 0 vs 1
- **Region:** Asia vs Canada/EU5/US vs rest of world

N = 1040



## Dom + Zim + chemo

Dom (1600 mg) + zim (480 mg) Q4W + FOLFOX Q2W  
or  
Dom (1200 mg) + zim (360 mg) Q3W + CAPOX Q3W

## Nivo + chemo

Nivo (240 mg) Q2W + FOLFOX Q2W  
or  
Nivo (360 mg) Q3W + CAPOX Q3W

*Until unacceptable toxicity, loss to follow-up, disease progression, study withdrawal, sponsor closure of study, or death*

## Endpoints

### Primary:

- OS

### Key secondary:

- PFS
- TTD by FACT-Ga

### Other secondary:

- ORR
- DOR
- Safety

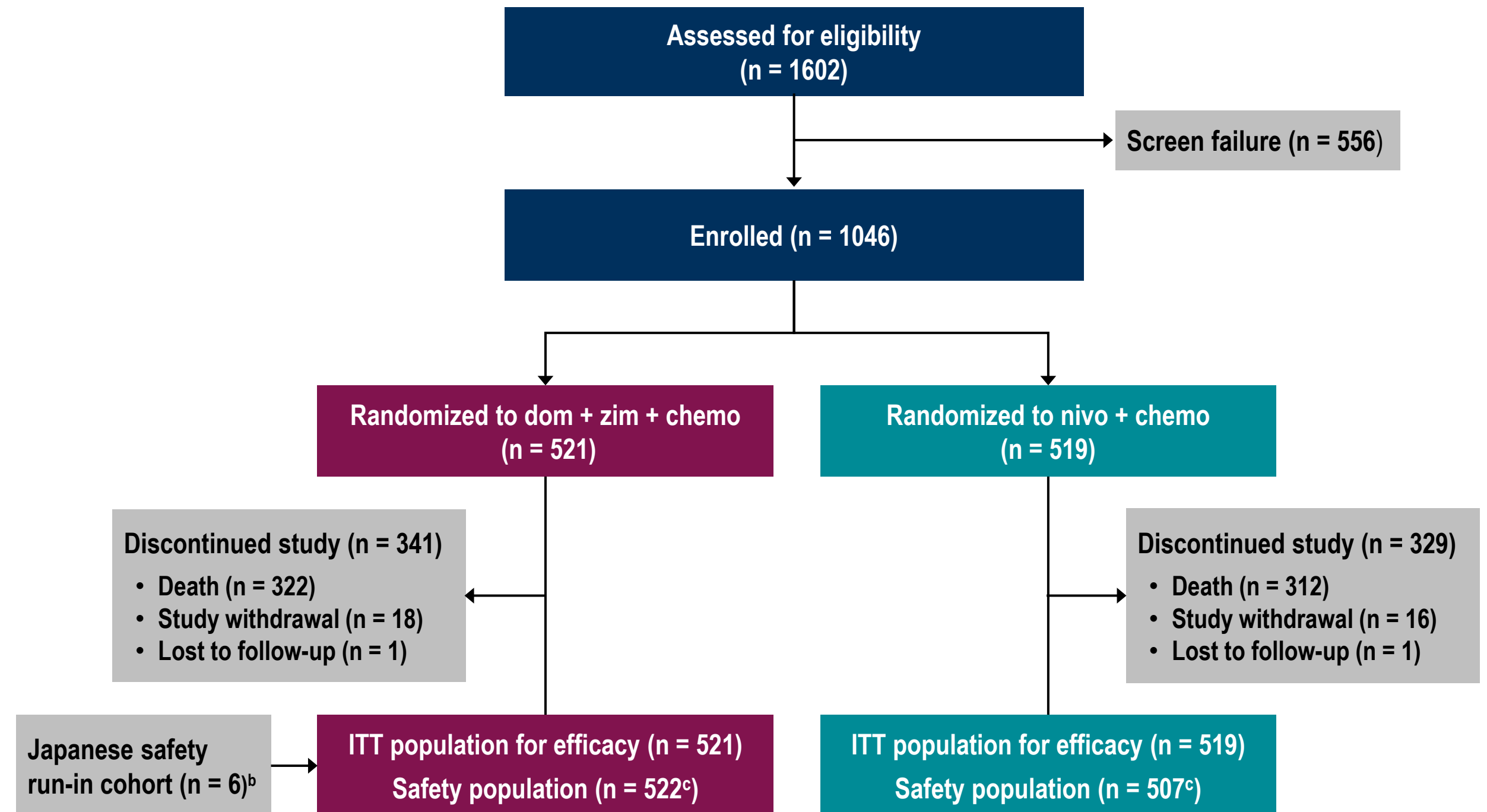
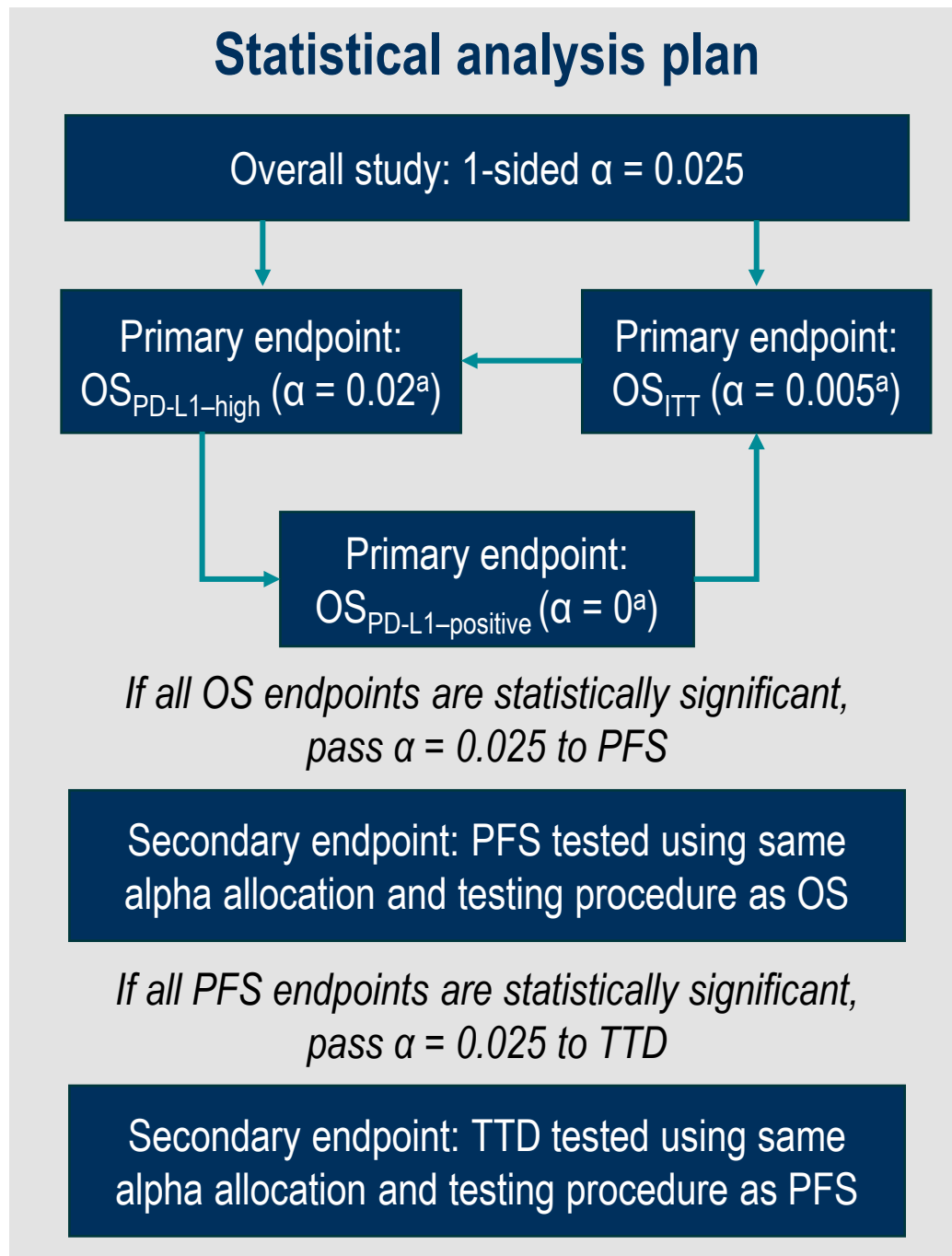
*Primary and key secondary endpoints assessed in the following analysis populations:*

- ITT
- PD-L1-high (TAP ≥ 5%)
- PD-L1-positive (TAP ≥ 1%)

**STAR-221 aimed to evaluate the efficacy and safety of dom + zim + chemo as first-line treatment in patients with *HER2*-negative advanced gastroesophageal adenocarcinoma**

CAPOX, capecitabine and oxaliplatin; chemo, chemotherapy; dom, domvanalimab; DOR, duration of response; EAC, esophageal adenocarcinoma; ECOG PS, Eastern Cooperative Oncology Group performance status; EU5, European Union 5; FACT-Ga, Functional Assessment of Cancer Therapy – Gastric; FOLFOX, oxaliplatin, leucovorin, fluorouracil; GC, gastric cancer; GEJC, gastroesophageal junction carcinoma; *HER2*, human epidermal growth factor receptor 2; ITT, intent-to-treat; nivo, nivolumab; OS, overall survival; ORR, objective response rate; PD-L1, programmed death ligand 1; PFS, progression-free survival; Q2/3/4W, every 2/3/4 weeks; R, randomized; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1; TAP, tumor area positivity; TTD, time to first deterioration; US, United States; zim, zimberelimab.

# Statistical Analysis Plan and Patient Disposition



<sup>a</sup>Alphas were pre-allocated and passed among the endpoints depending on the testing results. <sup>b</sup>Included in the safety population for the dom + zim + chemo arm. <sup>c</sup>Patients randomized and never dosed (n = 5, dom + zim + chemo; n = 12, nivo + chemo). Chemo, chemotherapy; dom, domvanalimab; ITT, intent-to-treat; nivo, nivolumab; OS, overall survival;  $OS_{ITT}$ , OS in the ITT population;  $OS_{PD-L1-high}$ , OS in the PD-L1-high (TAP  $\geq 5\%$ ) population;  $OS_{PD-L1-positive}$ , OS in the PD-L1-positive (TAP  $\geq 1\%$ ) population; PD-L1, programmed death ligand 1; PFS, progression-free survival; TAP, tumor area positivity; TTD, time to first deterioration; zim, zimberelimab.

# Demographics and Baseline Characteristics

Characteristics	ITT		PD-L1–high (TAP ≥ 5%)		PD-L1–positive (TAP ≥ 1%)	
	Dom + zim + chemo (n = 521)	Nivo + chemo (n = 519)	Dom + zim + chemo (n = 250)	Nivo + chemo (n = 251)	Dom + zim + chemo (n = 413)	Nivo + chemo (n = 419)
Median age (range), years	62 (24–89)	63 (23–86)	63 (28–87)	63 (23–82)	62 (24–87)	63 (23–86)
Sex, male	356 (68)	357 (69)	171 (68)	184 (73)	280 (68)	294 (70)
Race						
Asian	133 (26)	132 (25)	59 (24)	61 (24)	104 (25)	103 (25)
Black or African American	14 (3)	6 (1)	8 (3)	5 (2)	13 (3)	6 (1)
White	287 (55)	297 (57)	127 (51)	141 (56)	219 (53)	236 (56)
Other/not specified <sup>a</sup>	87 (17)	84 (16)	56 (22)	44 (18)	77 (19)	74 (18)
Region						
Asia	129 (25)	129 (25)	58 (23)	59 (24)	102 (25)	100 (24)
Canada/EU5/US	125 (24)	122 (24)	58 (23)	57 (23)	100 (24)	100 (24)
Rest of world	267 (51)	268 (52)	134 (54)	135 (54)	211 (51)	219 (52)
ECOG PS 0 or 1	520 (> 99)	518 (> 99)	250 (100)	250 (> 99)	413 (100)	418 (> 99)
PD-L1 status <sup>b</sup>						
PD-L1–negative (TAP < 1%)	105 (20)	99 (19)	–	–	–	–
PD-L1–positive (TAP ≥ 1%)	413 (79)	419 (81)	–	–	–	–
PD-L1–high (TAP ≥ 5%)	250 (48)	251 (48)	–	–	–	–
Histologically confirmed diagnosis						
GC	386 (74)	375 (72)	186 (74)	178 (71)	294 (71)	297 (71)
GEJC	90 (17)	91 (18)	43 (17)	50 (20)	80 (19)	80 (19)
EAC	45 (9)	53 (10)	21 (8)	23 (9)	39 (9)	42 (10)
Disease stage – metastatic	498 (96)	498 (96)	236 (94)	245 (98)	395 (96)	406 (97)
Prior surgery received – yes	91 (17)	87 (17)	39 (16)	36 (14)	60 (15)	59 (14)
Chemotherapy regimen received						
FOLFOX	354 (68)	350 (67)	179 (72)	170 (68)	282 (68)	284 (68)
CAPOX	162 (31)	157 (30)	71 (28)	75 (30)	128 (31)	124 (30)

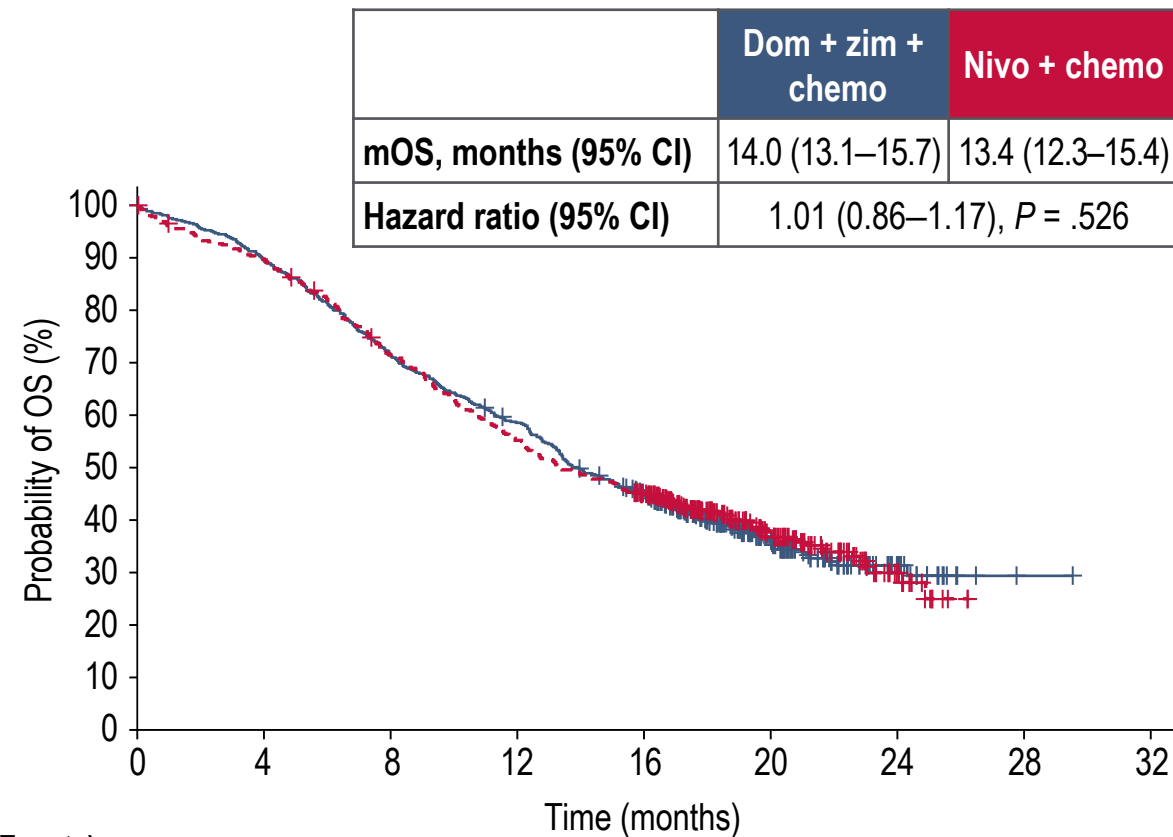
All values are n (%) unless otherwise indicated. <sup>a</sup>Includes American Indian or Alaska Native, Native Hawaiian or other Pacific Islander, multiracial, not reported, and unknown. <sup>b</sup>PD-L1 was assessed using the VENTANA PD-L1 (SP263) Companion Diagnostic assay. Samples were scored using TAP, defined as the total percentage of the tumor area covered by tumor cells with PD-L1 membrane staining at any intensity and tumor-associated immune cells with PD-L1 staining at any intensity.<sup>1</sup>

1. Liu C, et al. *Diagn Pathol.* 2023;18:48.

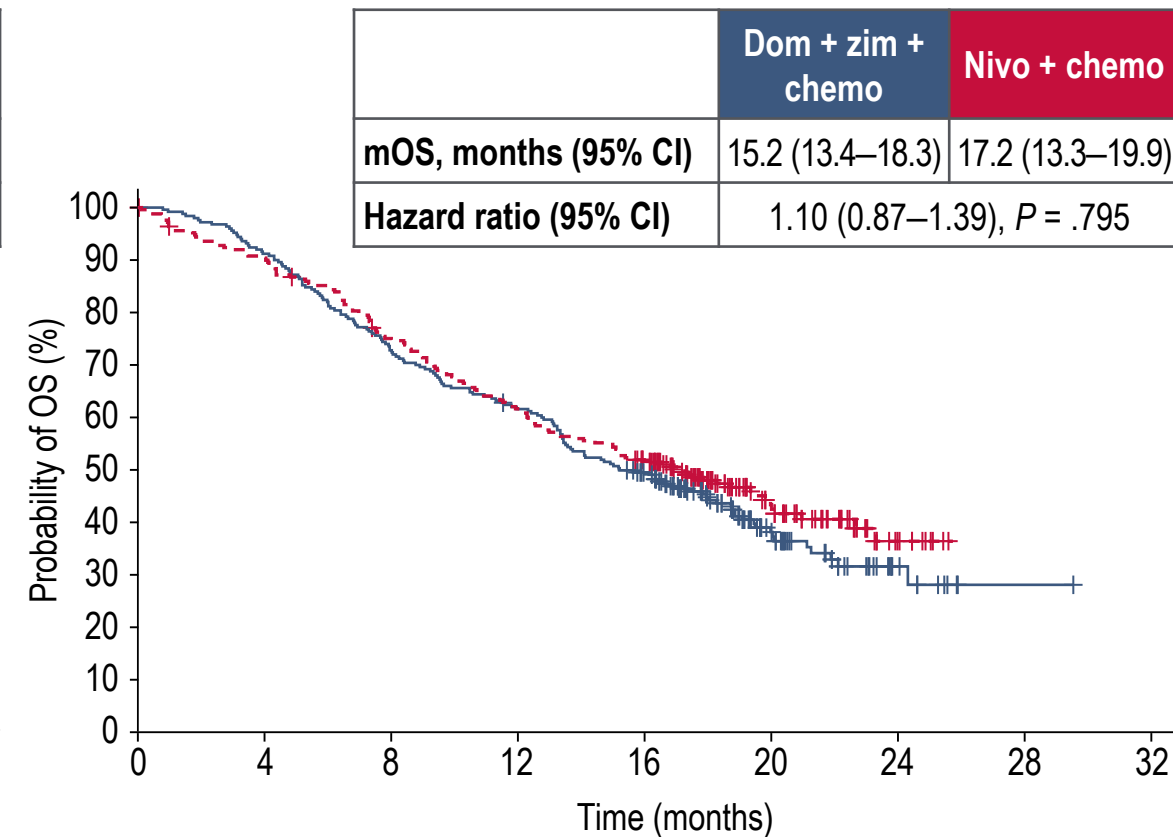
CAPOX, capecitabine and oxaliplatin; chemo, chemotherapy; dom, domvanalimab; EAC, esophageal adenocarcinoma; ECOG PS, Eastern Cooperative Oncology Group performance status; EU5, European Union 5; FOLFOX, oxaliplatin, leucovorin, fluorouracil; GC, gastric cancer; GEJC, gastroesophageal junction carcinoma; ITT, intent-to-treat; nivo, nivolumab; PD-L1, programmed death ligand 1; TAP, tumor area positivity; US, United States; zim, zimberelimab.

# Overall Survival

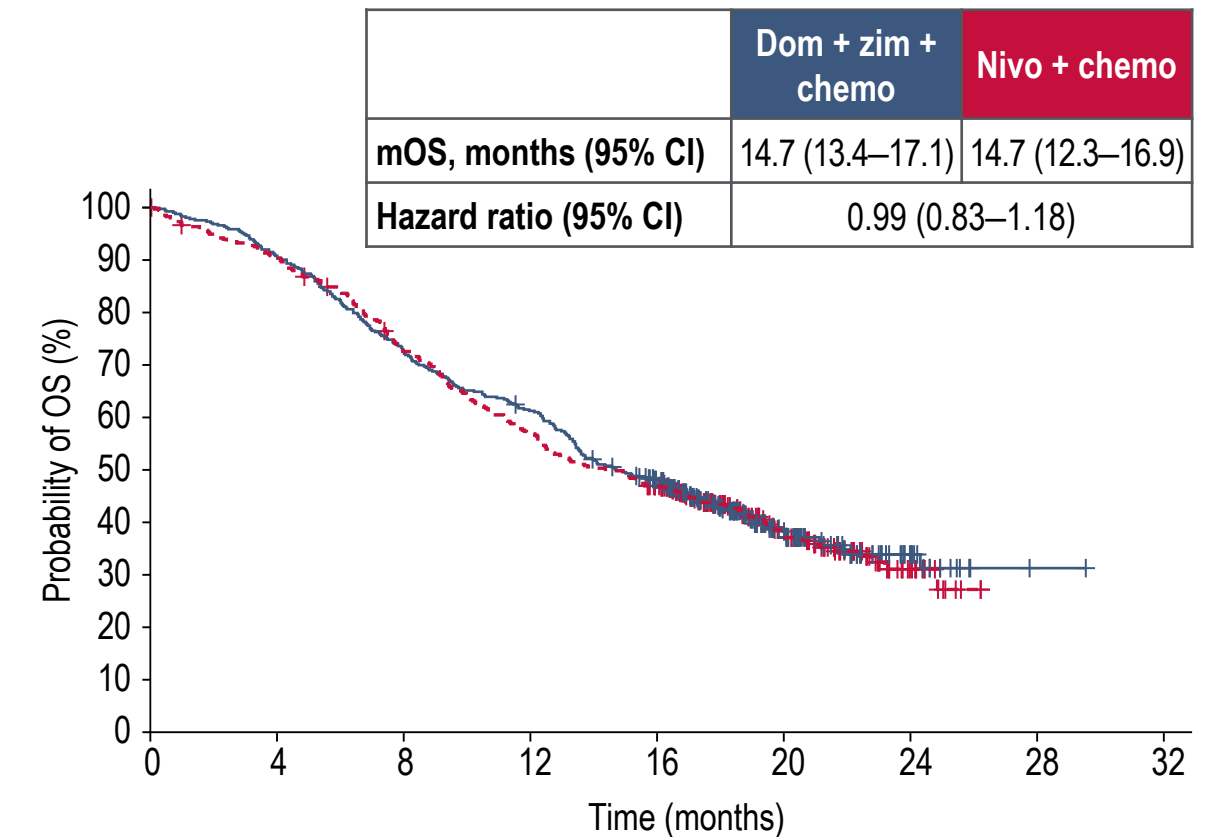
## ITT Population



## PD-L1–high (TAP ≥ 5%)



## PD-L1–positive (TAP ≥ 1%)



N at Risk (Events)		Time (months)																											
		0	4	8	12	16	20	24	28	32		0	4	8	12	16	20	24	28	32									
Dom + zim + chemo	521 (0)	469 (52)	374 (147)	304 (215)	221 (286)	91 (320)	21 (329)	1 (330)	0 (330)		250 (0)	228 (22)	182 (68)	153 (96)	117 (126)	45 (146)	10 (152)	1 (153)	0 (153)		413 (0)	375 (38)	300 (113)	252 (160)	186 (214)	70 (243)	17 (249)	1 (250)	0 (250)
Nivo + chemo	519 (0)	466 (51)	368 (146)	284 (230)	222 (283)	90 (310)	17 (320)	0 (322)			251 (0)	225 (24)	184 (63)	151 (96)	123 (119)	49 (134)	9 (138)	0 (138)			419 (0)	378 (39)	300 (114)	235 (179)	186 (220)	73 (245)	15 (253)	0 (254)	

- There was no OS benefit with dom + zim + chemo versus nivo + chemo in any of the 3 analysis populations
- Per testing procedure, statistical significance for OS was not assessed in the PD-L1–positive population

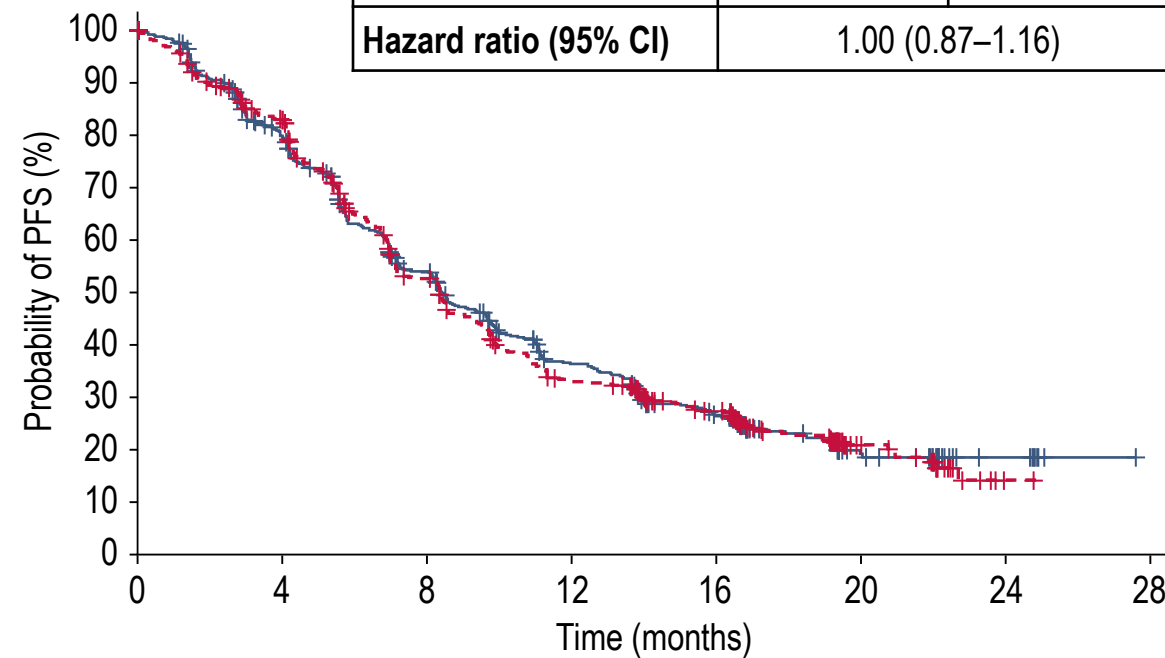
**Median OS follow-up (ITT population): dom + zim + chemo, 13.7 months; nivo + chemo, 13.2 months**

Chemo, chemotherapy; CI, confidence interval; dom, domvanilimab; ITT, intent-to-treat; mOS, median overall survival; nivo, nivolumab; OS, overall survival; PD-L1, programmed death ligand 1; TAP, tumor area positivity; zim, zimberelimab.

# Progression-Free Survival

## ITT Population

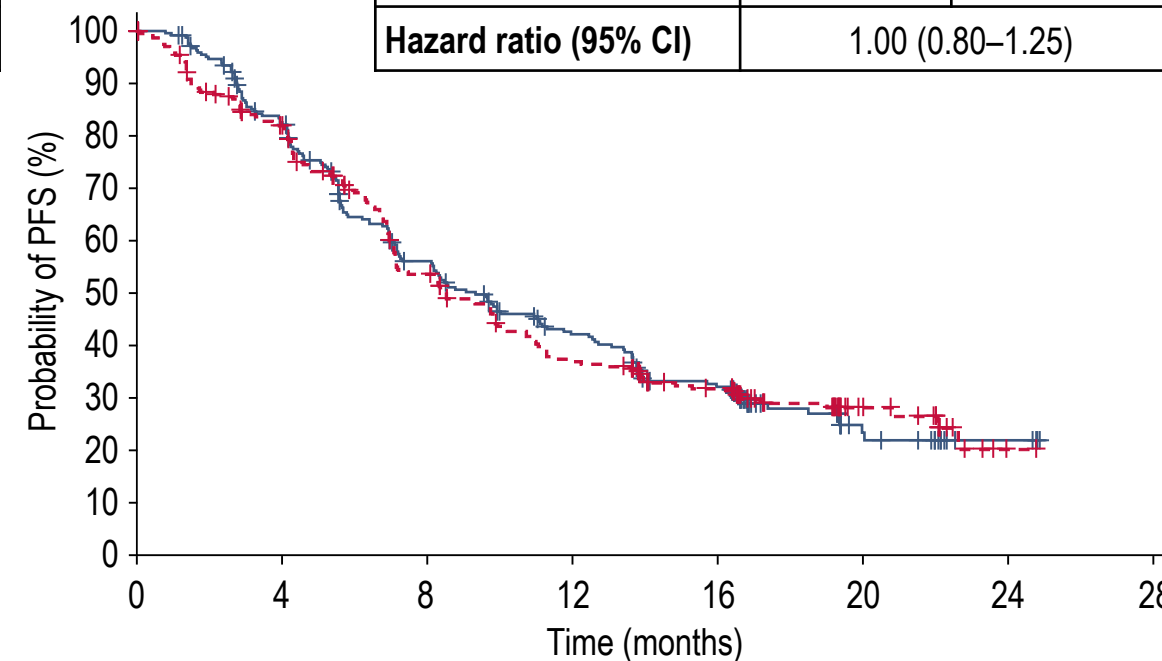
	Dom + zim + chemo	Nivo + chemo
mPFS, months (95% CI)	8.4 (7.3–9.6)	8.3 (7.2–9.0)
Hazard ratio (95% CI)	1.00 (0.87–1.16)	



N at Risk (Events)		0	4	8	12	16	20	24	28
Dom + zim + chemo	521 (0)	392 (101)	250 (225)	156 (304)	100 (345)	28 (363)	8 (364)	0 (364)	
Nivo + chemo	519 (0)	403 (85)	240 (227)	143 (315)	99 (337)	28 (355)	1 (361)	0 (361)	

## PD-L1-high (TAP ≥ 5%)

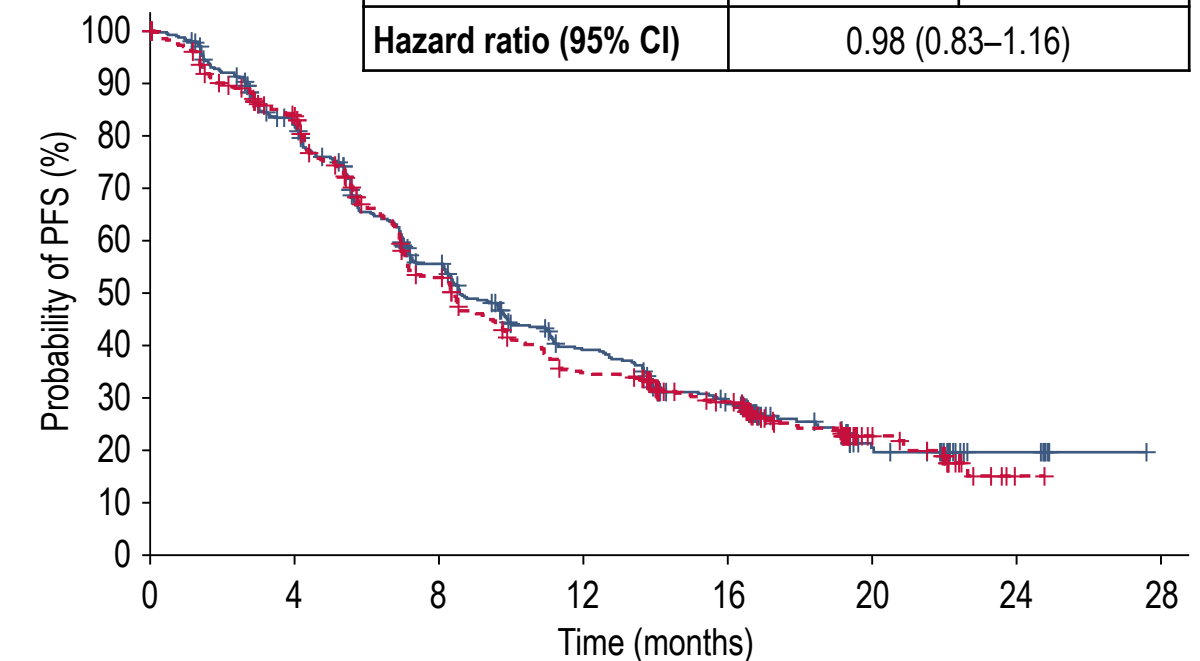
	Dom + zim + chemo	Nivo + chemo
mPFS, months (95% CI)	9.3 (7.3–11.2)	8.5 (7.1–10.2)
Hazard ratio (95% CI)	1.00 (0.80–1.25)	



N at Risk (Events)		0	4	8	12	16	20	24	28
Dom + zim + chemo	250 (0)	196 (42)	124 (103)	86 (133)	59 (153)	16 (163)	4 (164)	0 (164)	
Nivo + chemo	251 (0)	190 (43)	117 (106)	77 (141)	56 (151)	19 (156)	1 (159)	0 (159)	

## PD-L1-positive (TAP ≥ 1%)

	Dom + zim + chemo	Nivo + chemo
mPFS, months (95% CI)	8.6 (8.1–9.9)	8.4 (7.1–9.4)
Hazard ratio (95% CI)	0.98 (0.83–1.16)	



N at Risk (Events)		0	4	8	12	16	20	24	28
Dom + zim + chemo	413 (0)	320 (71)	203 (172)	133 (230)	87 (264)	24 (280)	7 (281)	0 (281)	
Nivo + chemo	419 (0)	326 (65)	194 (181)	122 (246)	86 (264)	26 (279)	1 (285)	0 (285)	

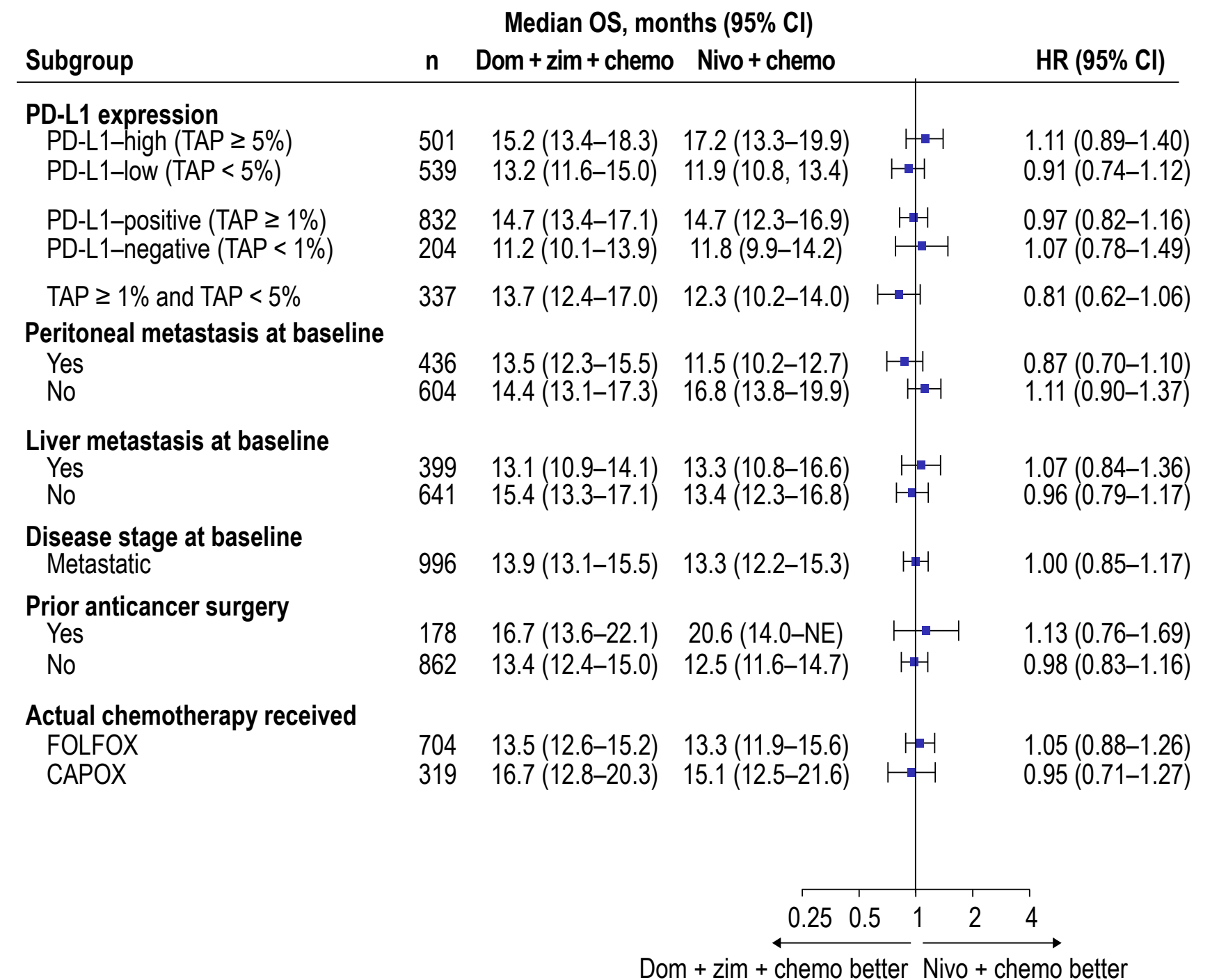
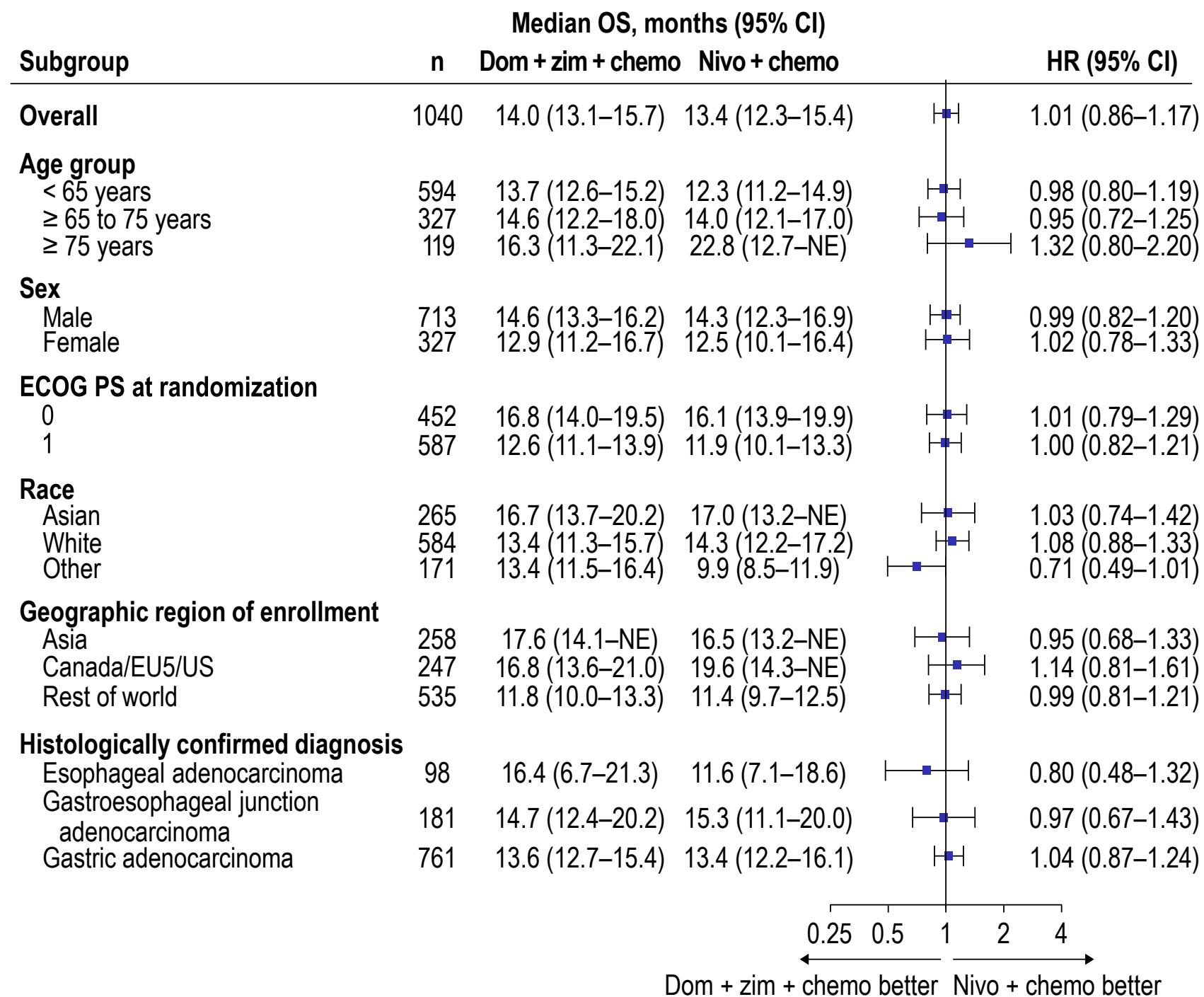
- There was no PFS benefit with dom + zim + chemo versus nivo + chemo in any of the 3 analysis populations
- Per testing procedure, statistical significance was not assessed for PFS

# Objective Response Rate and Duration of Response

	ITT		PD-L1-high (TAP ≥ 5%)		PD-L1-positive (TAP ≥ 1%)	
	Dom + zim + chemo (n = 521)	Nivo + chemo (n = 519)	Dom + zim + chemo (n = 250)	Nivo + chemo (n = 251)	Dom + zim + chemo (n = 413)	Nivo + chemo (n = 419)
<b>ORR, n (%)</b>	284 (55)	291 (56)	147 (59)	148 (59)	242 (59)	239 (57)
<b>95% CI</b>	50.1–58.8	51.7–60.4	52.4–65.0	52.6–65.1	53.7–63.4	52.1–61.8
CR, n (%) <sup>a</sup>	17 (3)	19 (4)	13 (5)	11 (4)	15 (4)	14 (3)
PR, n (%) <sup>a</sup>	267 (51)	272 (52)	134 (54)	137 (55)	227 (55)	225 (54)
SD, n (%)	180 (35)	160 (31)	87 (35)	67 (27)	132 (32)	127 (30)
PD, (%)	29 (6)	23 (4)	7 (3)	16 (6)	20 (5)	19 (5)
NE, n (%) <sup>b</sup>	28 (5)	45 (9)	9 (4)	20 (8)	19 (5)	34 (8)
<b>Median DOR (95% CI), mo</b>	10.5 (9.5–12.4)	9.5 (8.1–11.2)	12.1 (9.8–15.2)	11.1 (8.6–19.3)	11.0 (9.7–13.6)	9.6 (8.1–12.4)

<sup>a</sup>Confirmed response assessed according to RECIST v1.1. <sup>b</sup>Includes responses that are NE or NA. Chemo, chemotherapy; CI, confidence interval; CR, complete response; dom, domvanalimab; DOR, duration of response; ITT, intent-to-treat; NA, not assessed; NE, not evaluable; nivo, nivolumab; ORR, objective response rate; PD, progressive disease; PD-L1, programmed death ligand 1; PR, partial response; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1; SD, stable disease; TAP, tumor area positivity; zim, zimberelimab.

# Overall Survival – Subgroup Analysis (ITT)



CAPOX, capecitabine and oxaliplatin; chemo, chemotherapy; CI, confidence interval; dom, domvanalimab; ECOG PS, Eastern Cooperative Oncology Group performance status; EU5, European Union 5; FOLFOX, oxaliplatin, leucovorin, fluorouracil; HR, hazard ratio; ITT, intent-to-treat; NE, not estimable; nivo, nivolumab; OS, overall survival; PD-L1, programmed death ligand 1; TAP, tumor area positivity; US, United States; zim, zimberelimab.

# Safety Summary

	Dom + zim + chemo <sup>a</sup> (n = 522)	Nivo + chemo (n = 507)
<b>Median treatment duration (range), months</b>	7.5 (0.1–25.9)	7.1 (0–25.1)
<b>All-grade AEs</b>	512 (98)	494 (97)
Grade 3–4 AEs	331 (63)	321 (63)
<b>All-grade serious AEs</b>	197 (38)	207 (41)
<b>All-grade AEs leading to death</b>	32 (6)	39 (8)
<b>All-grade AEs leading to interruption of any study drug</b>	380 (73)	392 (77)
AEs leading to interruption of dom, zim, or nivo	318 (61)	332 (65)
<b>All-grade AEs leading to discontinuation of any study drug</b>	253 (48)	236 (47)
AEs leading to discontinuation of dom, zim, or nivo	40 (8)	42 (8)
<b>All-grade infusion-related reactions</b>	80 (15)	138 (27)
<b>All-grade immune-mediated AEs</b>	116 (22)	122 (24)

All values are n (%) unless otherwise specified. <sup>a</sup>The safety analysis population included 6 patients from the Japanese safety run-in cohort. AE, adverse event; chemo, chemotherapy; dom, domvanalimab; nivo, nivolumab; zim, zimberelimab.

# Immune-Mediated Adverse Events and Infusion-Related Reactions

	Dom + zim + chemo <sup>a</sup> (n = 522)		Nivo + chemo (n = 507)	
Treatment-emergent adverse events, n (%)	Any grade	Grade 3–4	Any grade	Grade 3–4
<b>Immune-mediated adverse event<sup>b</sup></b>	116 (22)	35 (7)	122 (24)	33 (7)
<b>Most common (&gt; 5 patients in any treatment group)</b>				
Hypothyroidism	51 (10)	1 (< 1)	42 (8)	1 (< 1)
Pneumonitis	19 (4)	2 (< 1)	36 (7)	9 (2)
Hyperthyroidism	17 (3)	0	19 (4)	0 (0)
Colitis	12 (2)	5 (1)	6 (1)	3 (1)
Adrenal insufficiency	7 (1)	2 (< 1)	5 (1)	0
Immune-mediated enterocolitis	7 (1)	4 (1)	1 (< 1)	1 (< 1)
Immune-mediated hepatitis	2 (< 1)	2 (< 1)	7 (1)	6 (1)
Hepatitis	1 (< 1)	1 (< 1)	7 (1)	3 (1)
<b>Infusion-related reactions<sup>c</sup></b>	80 (15)	15 (3)	138 (27)	15 (3)
<b>Most common (&gt; 5 patients in any treatment group)</b>				
Infusion related reaction	25 (5)	4 (1)	37 (7)	0
Pyrexia	18 (3)	3 (1)	44 (9)	1 (< 1)
Abdominal pain	13 (2)	0	8 (2)	2 (< 1)
Chills	9 (2)	0	14 (3)	0
Hypersensitivity	6 (1)	2 (< 1)	11 (2)	2 (< 1)
Back pain	6 (1)	0	7 (1)	1 (< 1)
Dyspnea	6 (1)	2 (< 1)	5 (1)	0
Rash	4 (1)	0	13 (3)	1 (< 1)
Pruritus	3 (1)	0	19 (4)	0
Drug hypersensitivity	3 (1)	1 (< 1)	8 (2)	5 (1)
Hypotension	1 (< 1)	0	7 (1)	1 (< 1)

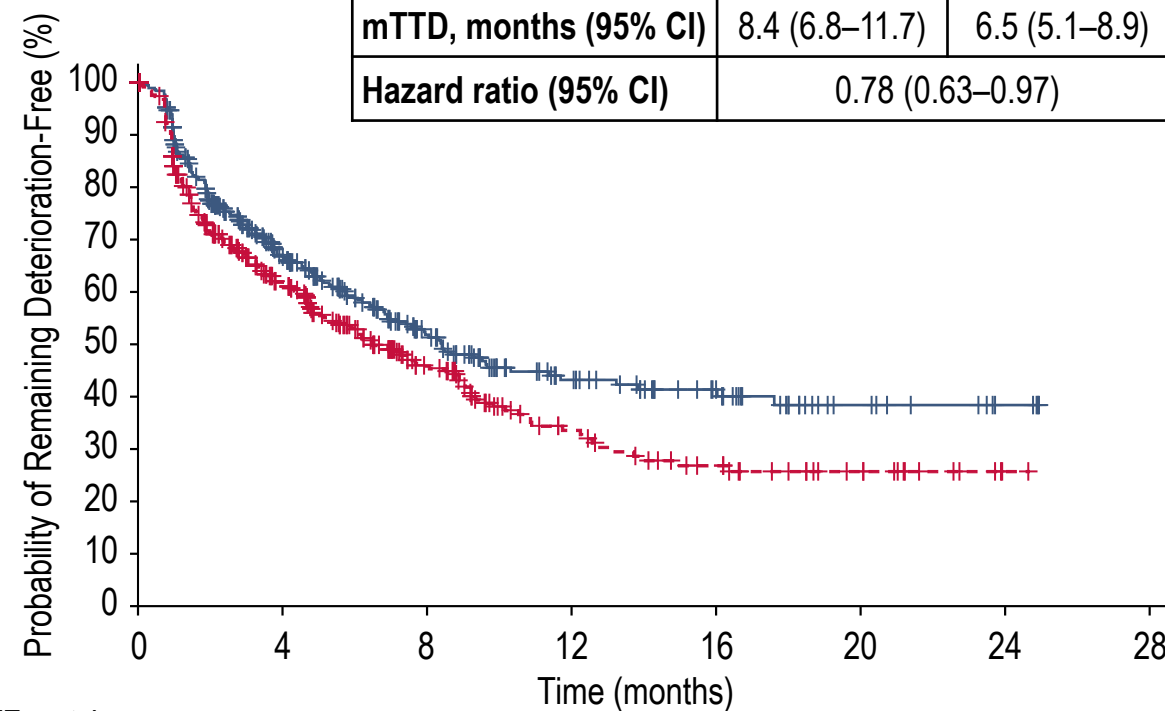
<sup>a</sup>The safety analysis population included 6 patients from the Japanese safety run-in cohort. <sup>b</sup>AEs of any grade in the custom PD-1 immune-related AE search list (search name, “PD-1 Immune-related adverse events”) except for the preferred terms contained in the search list with search name “PD-1 Skin toxicities” where only grade  $\geq 3$  AEs were included. <sup>c</sup>AEs in the custom IRR search list (search name, “PD-1 Infusion Related Reactions”) that occurred within 24 hours of the end of a study drug infusion administration and the event was 2 days or less in duration.

AE, adverse event; chemo, chemotherapy; dom, domvanalimab; IRR, infusion-related reaction; nivo, nivolumab; PD-1, programmed cell death protein 1; zim, zimberelimab.

# Time to First Deterioration in HRQoL by FACT-Ga

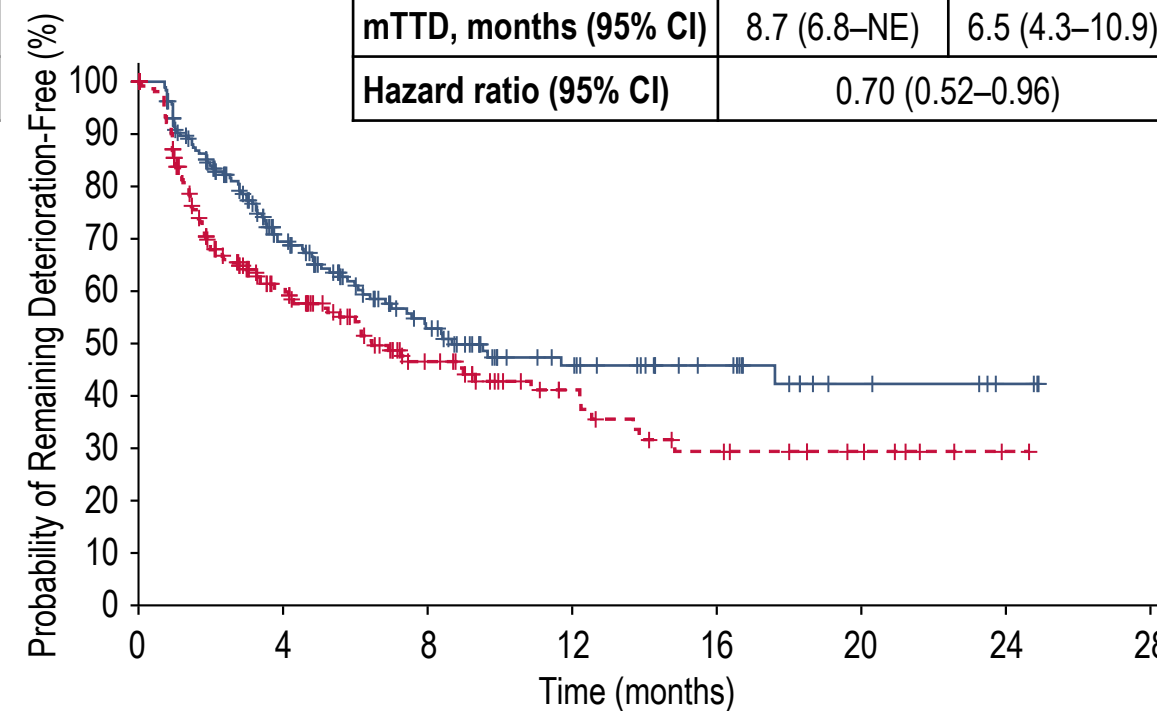
## ITT Population

	Dom + zim + chemo	Nivo + chemo
mTTD, months (95% CI)	8.4 (6.8–11.7)	6.5 (5.1–8.9)
Hazard ratio (95% CI)	0.78 (0.63–0.97)	



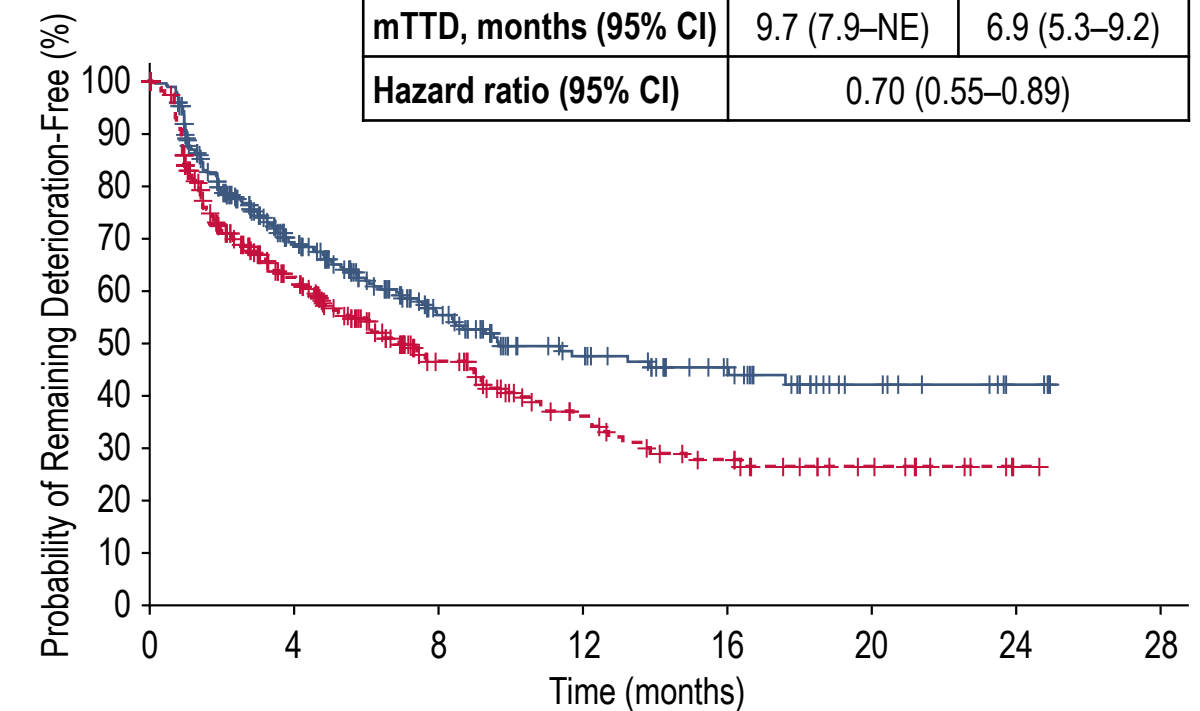
## PD-L1-high (TAP ≥ 5%)

	Dom + zim + chemo	Nivo + chemo
mTTD, months (95% CI)	8.7 (6.8–NE)	6.5 (4.3–10.9)
Hazard ratio (95% CI)	0.70 (0.52–0.96)	



## PD-L1-positive (TAP ≥ 1%)

	Dom + zim + chemo	Nivo + chemo
mTTD, months (95% CI)	9.7 (7.9–NE)	6.9 (5.3–9.2)
Hazard ratio (95% CI)	0.70 (0.55–0.89)	



N at Risk (Events)		0	4	8	12	16	20	24	28	0	4	8	12	16	20	24	28	0	4	8	12	16	20	24	28
Dom + zim + chemo	521 (0)	188 (114)	99 (150)	53 (164)	33 (166)	12 (168)	4 (168)	0 (168)	250 (0)	100 (52)	55 (72)	30 (78)	18 (78)	7 (79)	3 (79)	0 (79)	413 (0)	156 (84)	84 (110)	49 (120)	32 (122)	12 (124)	4 (124)	0 (124)	
Nivo + chemo	519 (0)	186 (137)	85 (177)	42 (196)	26 (204)	13 (205)	1 (205)	0 (205)	251 (0)	82 (68)	41 (84)	22 (88)	13 (94)	7 (94)	1 (94)	0 (94)	419 (0)	150 (110)	68 (141)	37 (154)	23 (162)	11 (163)	1 (163)	0 (163)	

Per testing procedure, statistical significance was not assessed for TTD

# Conclusions

- Dom + zim + chemo did not improve OS in comparison with nivo + chemo in any of the 3 analysis populations (ITT, PD-L1–high, or PD-L1–positive)
- The safety profile of dom + zim + chemo was consistent with the known safety profile of anti–PD-(L)1 + chemo, and the safety profile was similar in both study arms
  - No new safety concerns were identified from the dom + zim + chemo combination
  - These findings suggest that safety did not contribute to the lack of any additional clinical benefit with dom + zim + chemo compared with nivo + chemo
- TTD by FACT-Ga was numerically longer with dom + zim + chemo than with nivo + chemo across all 3 analysis populations, but statistical significance was not assessed for TTD per the testing procedure
- In this study, there was no clear analysis population with particular benefit from the dom + zim + chemo combination for patients with advanced gastroesophageal adenocarcinoma

# 2026 ESMO GASTROINTESTINAL CANCERS

Annual Congress

- The authors would like to thank the patients, their caregivers, and their families, as well as the study investigators, for their participation in and commitment to the STAR-221 trial
- This study was funded by Arcus Biosciences, Inc., and Gilead Sciences, Inc.
- All authors contributed to and approved the presentation; medical writing and editorial assistance, under the direction of the authors, were provided by Sachi Yim, PhD, Meghan Sapia, PharmD, and Celia Nelson, ELS, of Ashfield MedComms, an Inizio Company, and were funded by Gilead Sciences, Inc and Arcus Biosciences, Inc.
- Correspondence: Sun Young Rha; Email: [RHA7655@yuhs.ac](mailto:RHA7655@yuhs.ac)

## European Society for Medical Oncology (ESMO)

Via Ginevra 4, CH-6900 Lugano

T. +41 (0)91 973 19 00

[esmo@esmo.org](mailto:esmo@esmo.org)

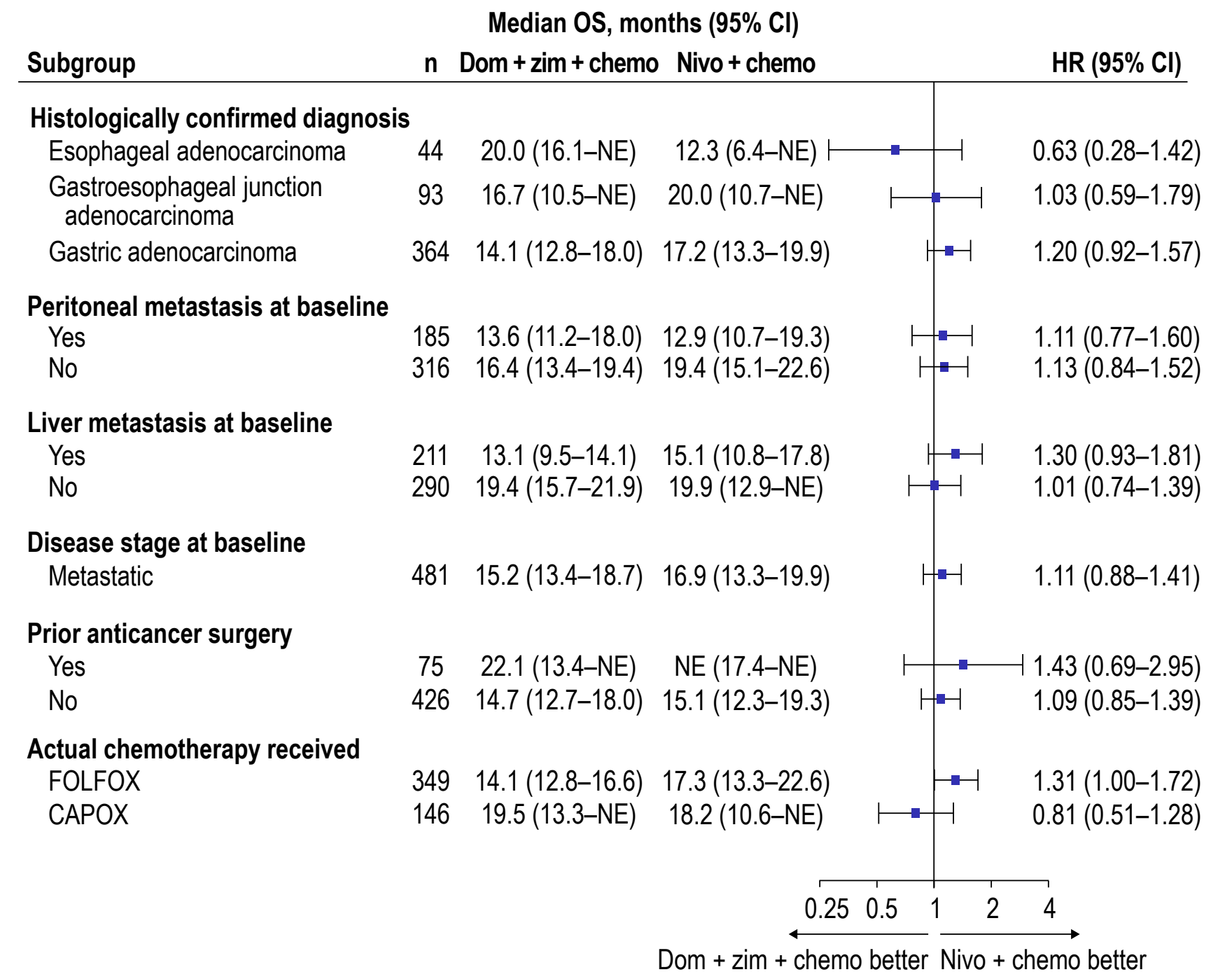
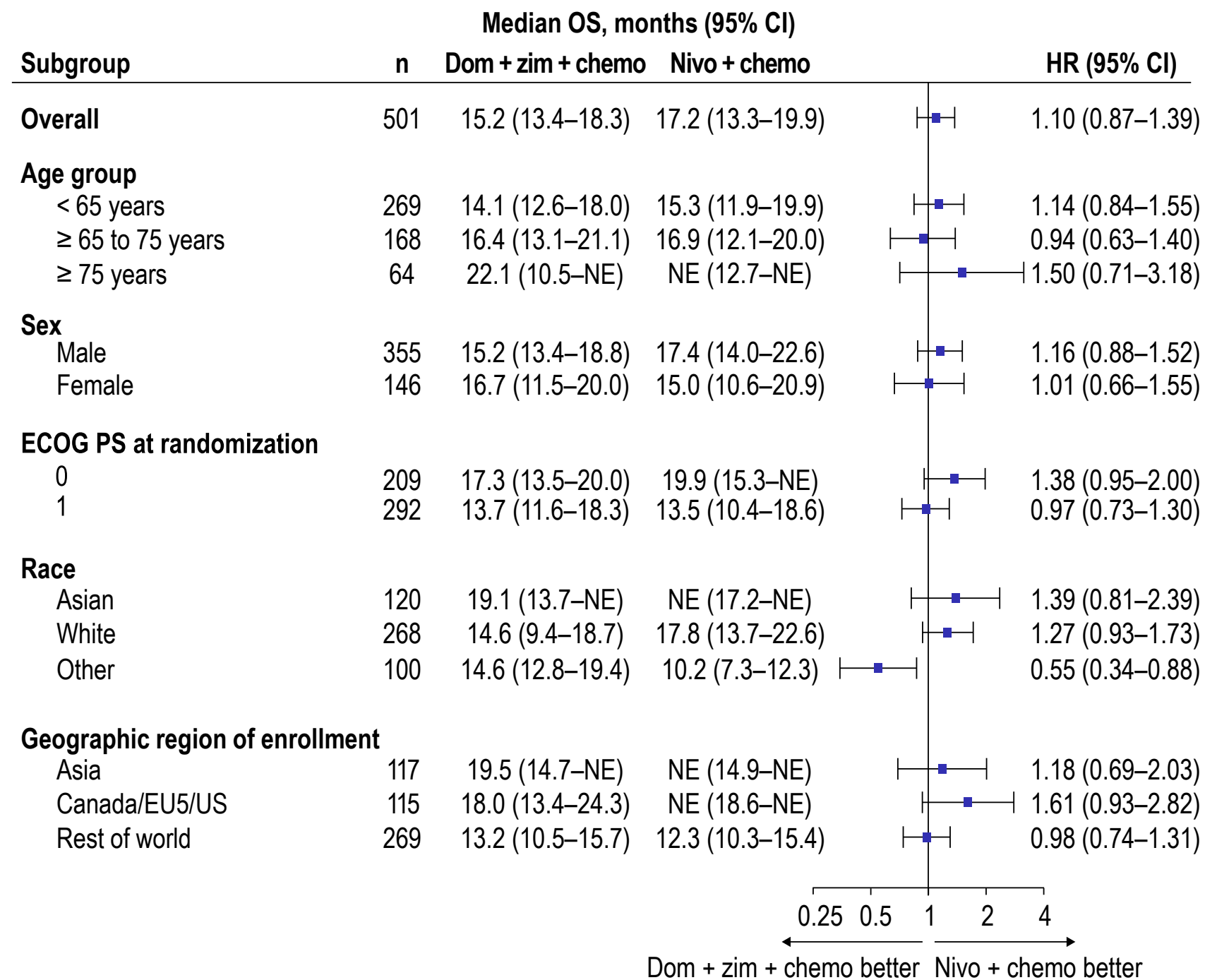
[esmo.org](http://esmo.org)

Copies of this presentation obtained through QR (Quick Response) and/or text key codes are for personal use only and may not be reproduced without written permission of the authors.



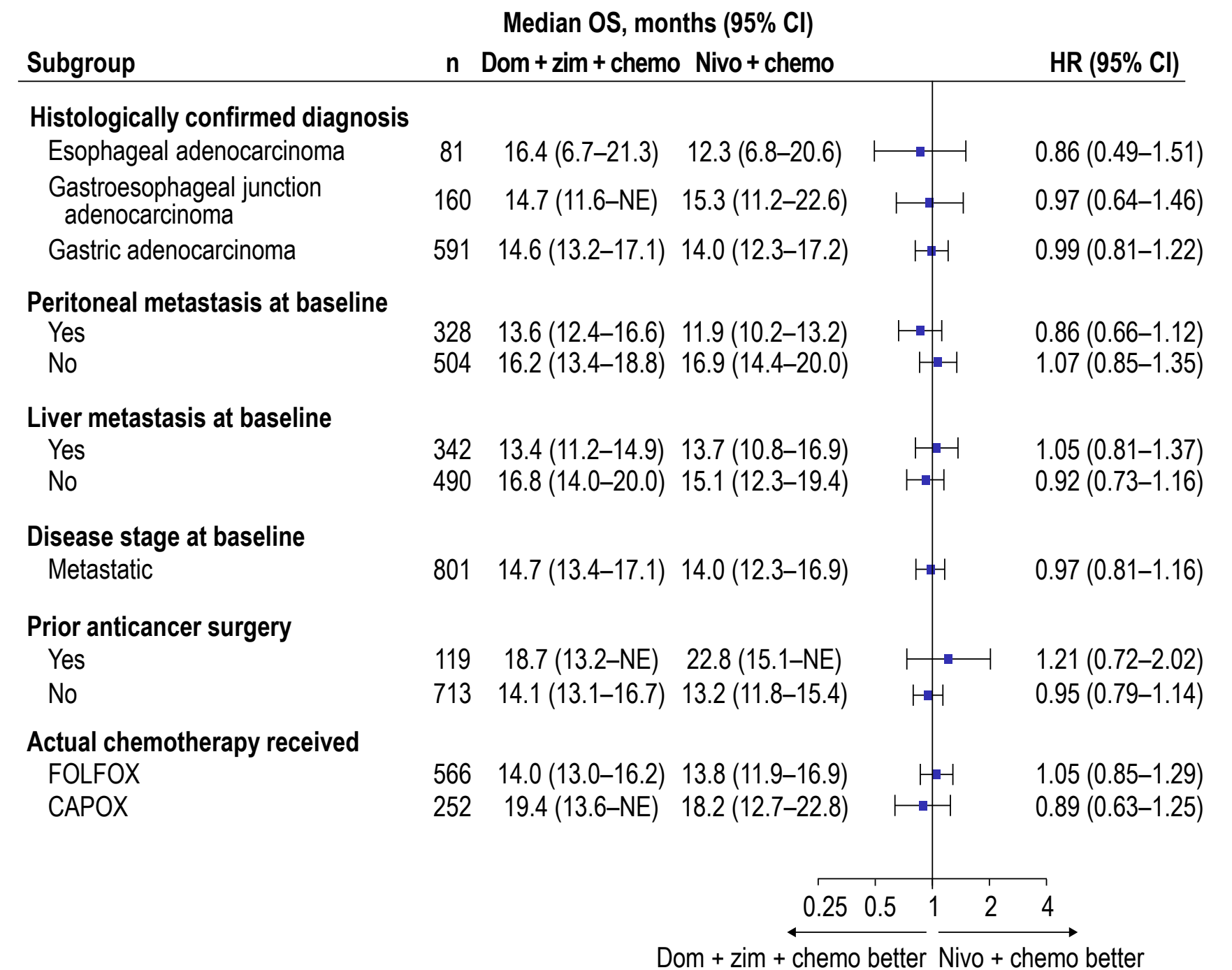
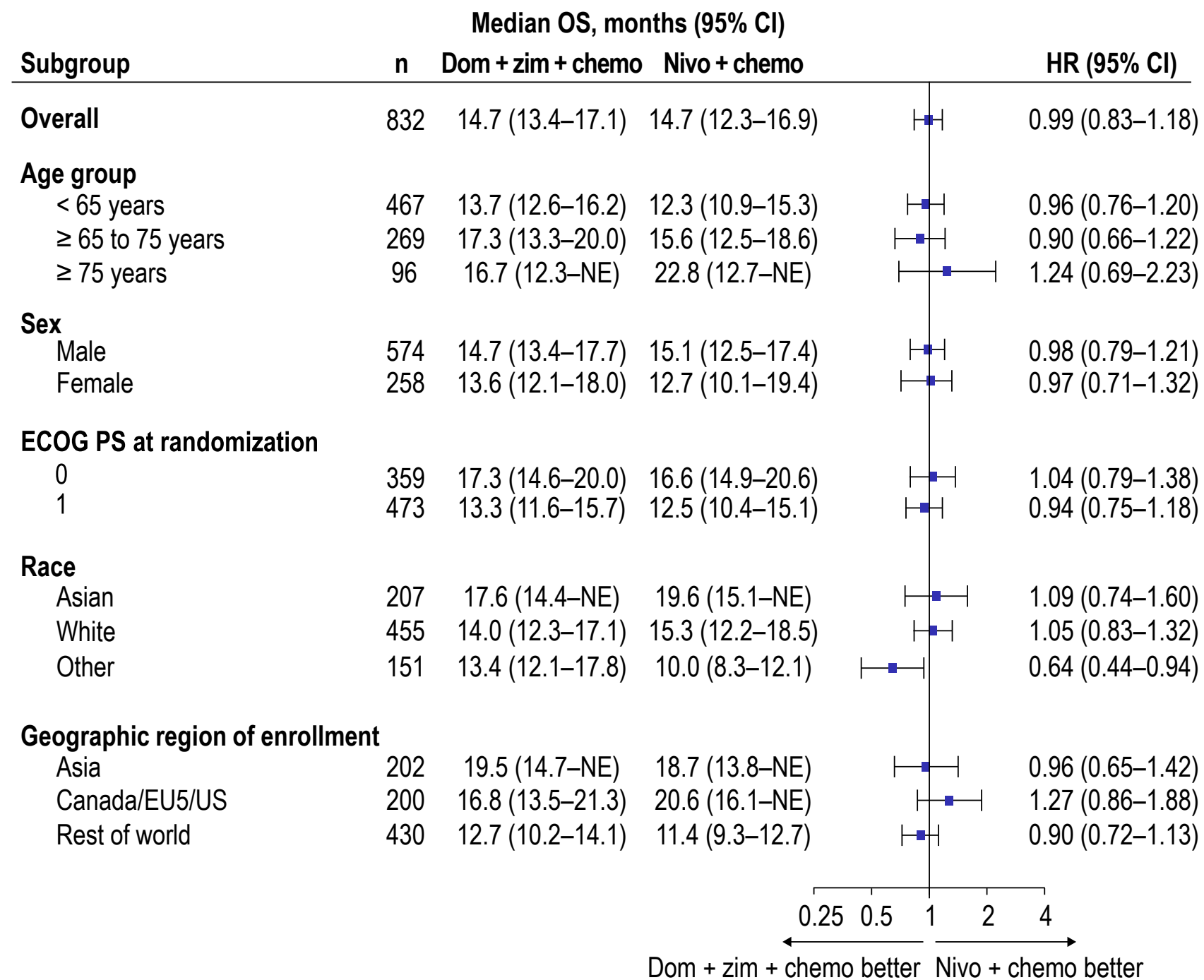
# Backup

# Overall Survival – Subgroup Analysis (PD-L1–High)



CAPOX, capecitabine and oxaliplatin; chemo, chemotherapy; CI, confidence interval; dom, domvanalimab; ECOG PS, Eastern Cooperative Oncology Group performance status; EU5, European Union 5; FOLFOX, oxaliplatin, leucovorin, fluorouracil; HR, hazard ratio; NE, not estimable; nivo, nivolumab; OS, overall survival; PD-L1, programmed death ligand 1; US, United States; zim, zimberelimab.

# Overall Survival – Subgroup Analysis (PD-L1–Positive)



CAPOX, capecitabine and oxaliplatin; chemo, chemotherapy; CI, confidence interval; dom, domvanalimab; ECOG PS, Eastern Cooperative Oncology Group performance status; EU5, European Union 5; FOLFOX, oxaliplatin, leucovorin, fluorouracil; HR, hazard ratio; NE, not estimable; nivo, nivolumab; OS, overall survival; PD-L1, programmed death ligand 1; US, United States; zim, zimberelimab.