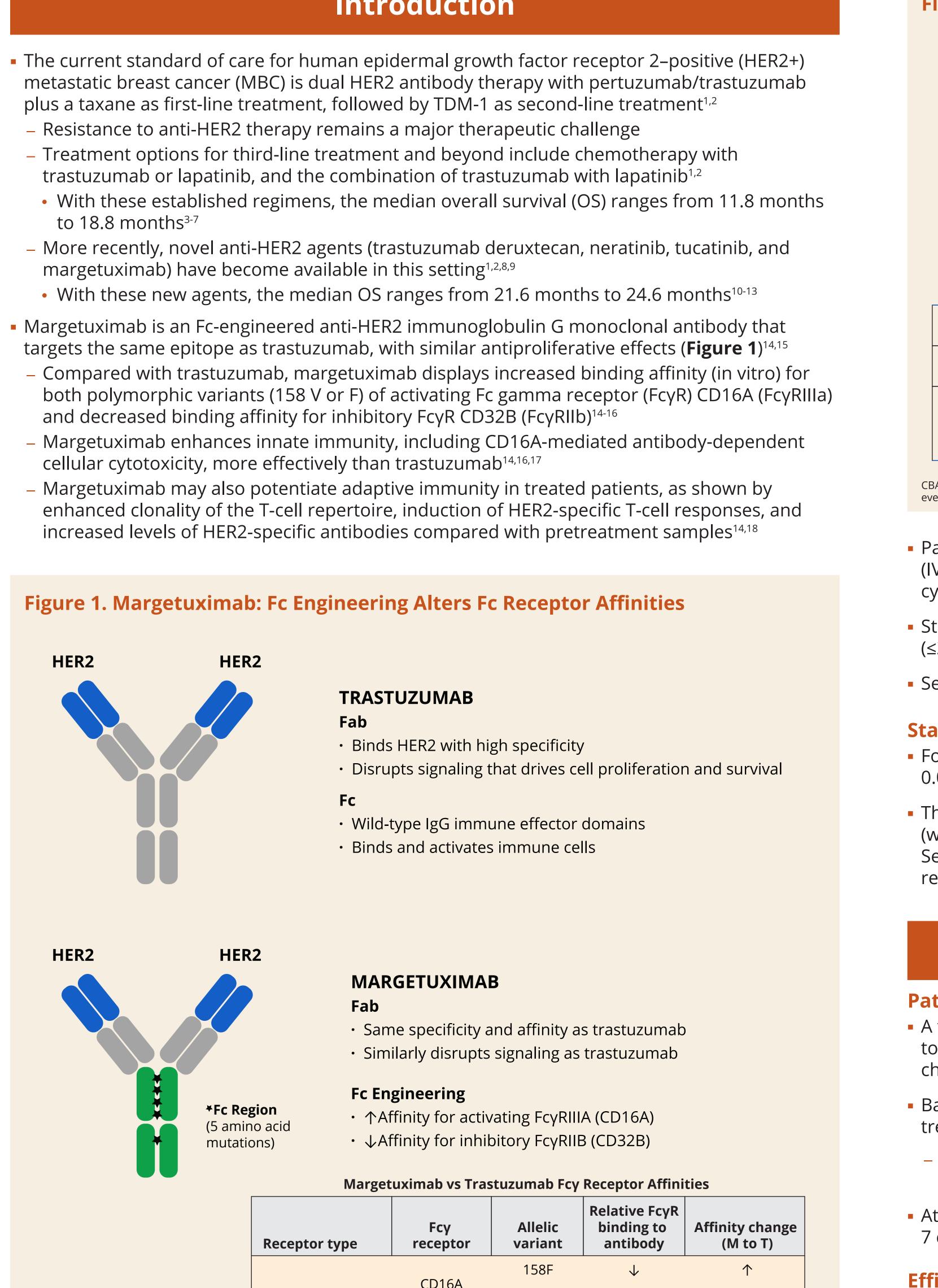
Phase 3 SOPHIA Study of Margetuximab + Chemotherapy Versus Trastuzumab + Chemotherapy in Patients With HER2+ Metastatic Breast Cancer After Prior Anti-HER2 Therapies: Final Overall Survival Analysis



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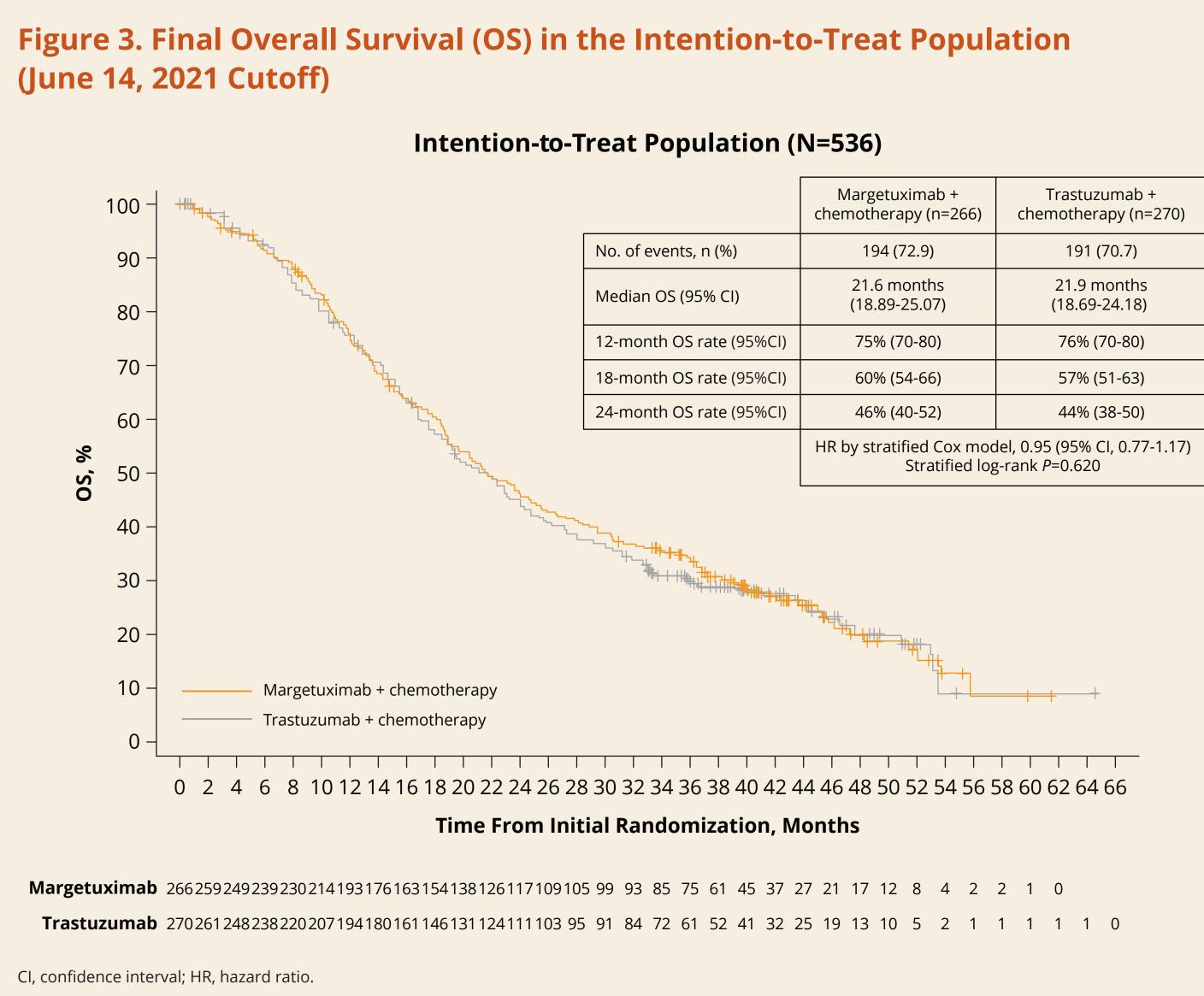
SOPHIA (NCT02492711)

Introduction



Efficacy

- The data cutoff was June 14, 2021, when the 385th death had occurred (194 [73%] in the margetuximab group vs 191 [71%] in the trastuzumab group)
- The median OS in the ITT population was not statistically different between the 2 treatment groups: 21.6 months with margetuximab versus 21.9 months with trastuzumab (HR, 0.95 [95% Cl, 0.77-1.17]; *P*=0.620; **Figure 3**)



Objective

• The primary objective is to report the final OS analysis after 385 deaths, as well as updated safety

CD32A

CD32B

• The phase 3 SOPHIA study (NCT02492711) demonstrated the clinical benefit of margetuximab

plus chemotherapy, with a 24% relative risk reduction (hazard ratio [HR], 0.76 [95% CI,

0.59-0.98]; *P*=0.033; median, 5.8 [95% Cl, 5.5-7.0] months vs 4.9 [95% Cl, 4.2-5.6] months;

– Median OS after 270 deaths (interim analysis) was 21.6 months with margetuximab versus

19.8 months with trastuzumab (HR, 0.89; 95% CI, 0.69-1.13; *P*=0.33; September 10, 2019)¹²

• These results led to the US Food and Drug Administration (FDA) approval of margetuximab-cmkb

with chemotherapy in patients with HER2+ MBC who have received ≥ 2 prior anti-HER2 regimens,

- Margetuximab plus chemotherapy improved progression-free survival (PFS) over trastuzumab

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Materials and Methods

Study Design and Participants

at least one of which was for metastatic disease⁸

October 10, 2018)¹²

SOPHIA was an international, randomized, open-label, phase 3 study (Figure 2)

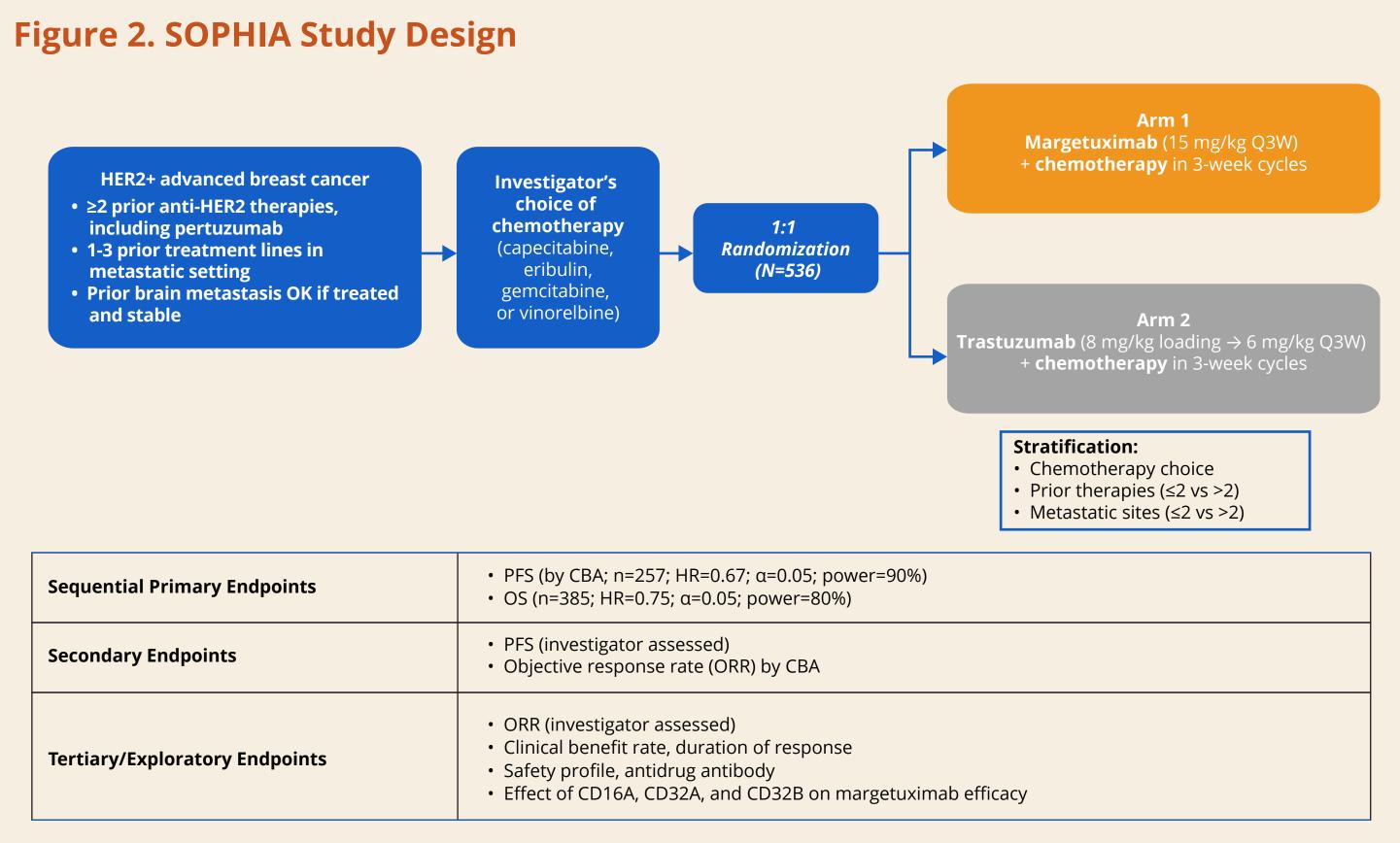
Eligible patients were adults with confirmed HER2+ advanced breast cancer

Activating

FcyR, Fc gamma receptor; HER2, human epidermal growth factor receptor 2; lgG, immunoglobulin G; M, margetuximab; T, trastuzumab

versus trastuzumab, both with chemotherapy, in patients with HER2+ MBC¹²

- Patients must have had progressive disease after ≥ 2 lines of prior HER2-targeted therapy,
- including pertuzumab, and 1-3 lines of nonhormonal MBC therapy



cycle after a loading dose of 8 mg/kg

- Stratification factors were metastatic sites (≤2 vs >2), lines of therapy for metastatic disease (\leq 2 vs >2), and chemotherapy choice

Statistical Analysis

- For 80% power to detect a median OS improvement from 12 to 16 months (HR, 0.75) at a 2-sided 0.05 significance level, 385 OS events were needed
- The following 3 OS analyses were planned: first interim coincident with primary PFS analysis (which occurred on October 10, 2018), second interim after 270 deaths (which occurred on September 10, 2019), and final analysis after 385 events (which occurred on June 14, 2021, and is reported here)

Patients

- A total of 536 patients (intention-to-treat [ITT] population) were enrolled and randomly assigned to receive margetuximab plus chemotherapy (margetuximab group, n=266) or trastuzumab plus chemotherapy (trastuzumab group, n=270)
- treatment groups¹²
- All patients had received prior trastuzumab; all but 1 had received prior pertuzumab and 489 (91.2%) had received prior ado-trastuzumab emtansine¹²
- At the median follow-up of 20.2 months among all ITT patients, patients received a median of 7 cycles of margetuximab plus chemotherapy versus 6 cycles of trastuzumab plus chemotherapy

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CBA, central blinded analysis; HER2, human epidermal growth factor receptor 2; HR, hazard ratio; OS, overall survival; PFS, progression-free survival; Q3W, once

- Patients randomly assigned received either margetuximab at a dose of 15 mg/kg intravenously (IV) on day 1 of each 21-day cycle or trastuzumab at a dose of 6 mg/kg IV on day 1 of each 21-day
- Sequential primary endpoints were PFS by central blinded analysis and OS

Results

Baseline characteristics have been previously published and were balanced between

- Genotyping was available for 506 patients (94%)
- Among 437 patients (86%) who carried the CD16A-158F low-affinity allele (F carriers), margetuximab prolonged OS by 2.5 months compared with trastuzumab (**Figure 4A**)
- The median OS was 23.3 months with margetuximab versus 20.8 months with trastuzumab (HR, 0.86 [95% CI, 0.69-1.08]; nominal *P*=0.19; **Figure 4A**)
- 4.4 months compared with trastuzumab
- (HR, 0.72 [95% CI, 0.52-1.00]; nominal *P*=0.05; **Figure 4B**)
- The treatment by CD16A interaction test for OS (F carrier vs VV) was nominally significant (P=0.0293)

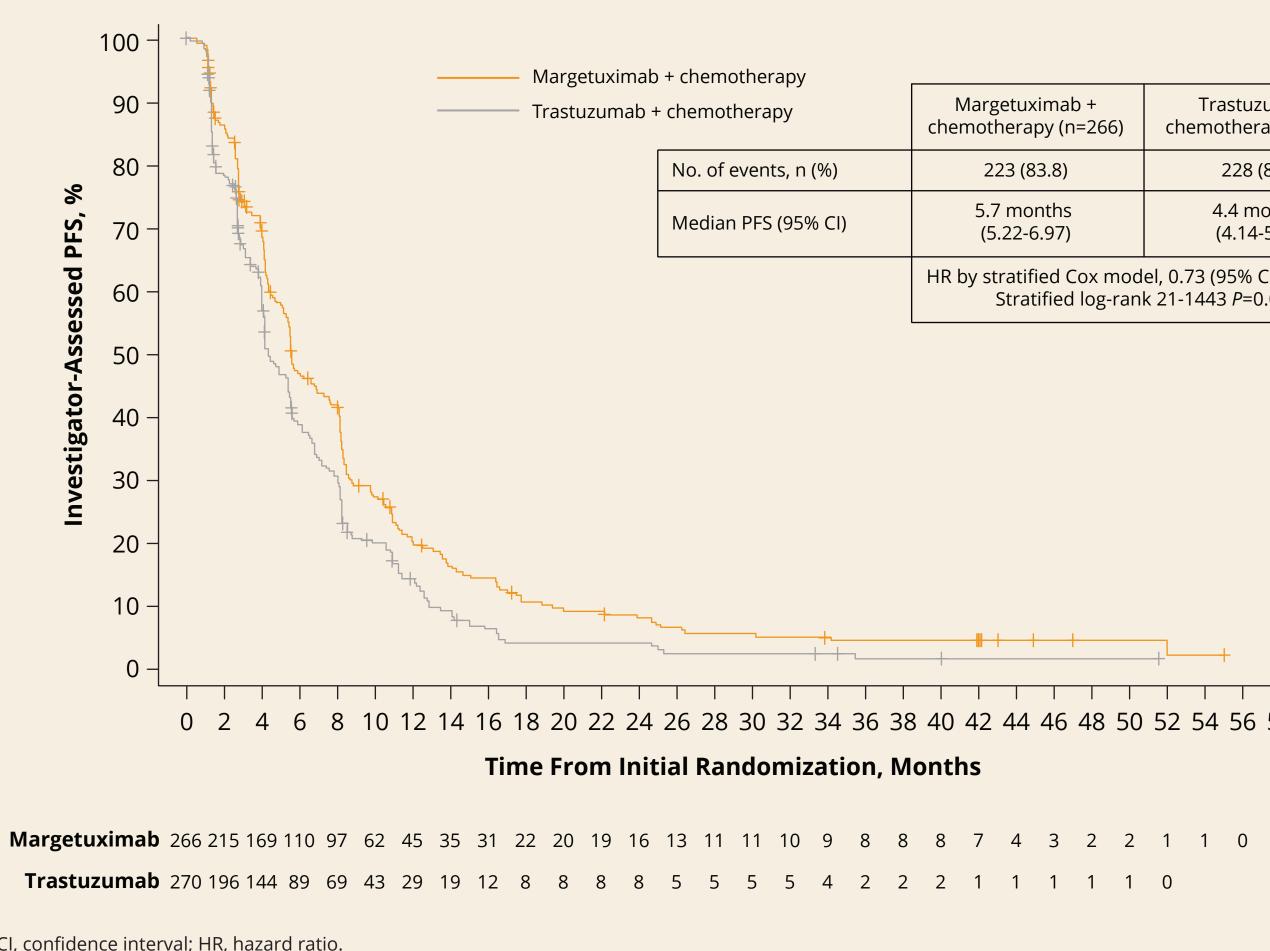
Figure 4. Prespecified Exploratory OS Analysis, per CD16A Genotype by Treatment Group (June 14, 2021 Cutoff)^a



The median PFS assessed by the investigator in the ITT population was nominally statistically different between the 2 treatment groups: 5.7 months with margetuximab versus 4.4 months with trastuzumab (HR, 0.73 [95% Cl, 0.60-0.88]; *P*=0.001; **Figure 5**)

Figure 5. Progression-Free Survival (PFS) Assessed by the Investigator in the Intention-to-Treat Population (June 14, 2021 Cutoff)





Prespecified non–α-allocated subgroup analyses of OS by CD16A genotype are shown in Figure 4

Among 192 patients (38%) homozygous for the F allele, margetuximab prolonged OS by

• The median OS was 23.6 months with margetuximab versus 19.2 months with trastuzumab

By contrast, in the 69 (14%) VV homozygotes, median OS was 22.0 months with margetuximab versus 31.1 months with trastuzumab (HR, 1.77 [95% CI, 1.01-3.12]; nominal P=0.04; Figure 4D)

Intention-to-Treat Population (N=536)

emotherapy motherapy	Margetuximab + chemotherapy (n=266)	Trastuzumab + chemotherapy (n=270)	
. of events, n (%)	223 (83.8)	228 (84.4)	
dian PFS (95% Cl)	5.7 months (5.22-6.97)	4.4 months (4.14-5.49)	
	HR by stratified Cox model, 0.73 (95% Cl, 0.60-0.88) Stratified log-rank 21-1443 <i>P</i> =0.001		

0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 Time From Initial Randomization, Months

Safety

• As of June 14, 2021, the safety population included 264 patients in the margetuximab group and 266 patients in the trastuzumab group (**Table 1**)

	Margetuximab + chemotherapy	Trastuzumab + chemotherapy
	n=264 n (%)	n=266 n (%)
Any-grade AE	260 (98.5)	261 (98.1)
HER2-targeted treatment-related AE of any grade	163 (61.7)	133 (50.0)
Chemotherapy-related AEs of any grade	238 (90.2)	239 (89.8)
Any-grade infusion-related AEs, n (%)	36 (13.6)	9 (3.4)
Grade ≥3 infusion-related AEs, n (%)	5 (1.9)	0
Any-grade LVEF dysfunction, n (%)	8 (3.0)	8 (3.0)
Grade ≥3 LVEF dysfunction, n (%)	3 (1.1)	1 (0.4)
Grade ≥3 AE, n (%)	146 (55.3)	141 (53.0)
HER2-targeted treatment-related Grade ≥3 AE	37 (14.0)	22 (8.3)
Chemotherapy-related Grade ≥3 AE	113 (42.8)	108 (40.6)
Any SAE, n (%)	47 (17.8)	51 (19.2)
HER2-targeted treatment-related SAE	4 (1.5)	4 (1.5)
Chemotherapy-related SAE	15 (5.7)	24 (9.0)
AE leading to treatment discontinuation from combined antibody plus chemotherapy, n (%)	11 (4.2)	8 (3.0)
AE leading to chemotherapy discontinuation, n (%)	35 (13.3)	17 (6.4)
AE leading to discontinuation from the study, n (%)	10 (3.8)	10 (3.8)
Discontinuation of HER2-targeted treatment due to IRRs, n (%)	3 (1.1)	0
_VEF dysfunction leading to dose delay or discontinuation, n (%)	4 (1.5)	7 (2.6)
AE resulting in deaths, n (%)	4 (1.5)ª	2 (0.8) ^b
HER2-targeted treatment-related AE resulting in deaths, n (%)	0	0

patients had pneumonia, 1 had pneumonia aspiration, and 1 had coronavirus infection. ^bOne patient had pneumonia and the other had acute kidney injury E, adverse event; HER2, human epidermal growth factor receptor 2; IRR, infusion-related reaction; LVEF, left ventricular ejection fraction; SAE, serious adverse event.

	Margetuximab + chemotherapy (N=264)		Trastuzumab + chemotherapy (N=266)	
	All grade ^a	Grade ≥3 ^₅	All grade ^a	Grade ≥3 ^₅
onhematologic AEs, n (%)				
Fatigue	112 (42.4)	14 (5.3)	95 (35.7)	8 (3.0)
Nausea	88 (33.3)	3 (1.1)	87 (32.7)	1 (0.4)
Diarrhea	69 (26.1)	6 (2.3)	67 (25.2)	6 (2.3)
Vomiting	55 (20.8)	2 (0.8)	38 (14.3)	4 (1.5)
Pyrexia	52 (19.7)	1 (0.4)	37 (13.9)	1 (0.4)
Constipation	51 (19.3)	2 (0.8)	45 (16.9)	2 (0.8)
Headache	50 (18.9)	0	44 (16.5)	0
Asthenia	49 (18.6)	6 (2.3)	33 (12.4)	5 (1.9)
Alopecia	47 (17.8)	0	39 (14.7)	0
Cough	42 (15.9)	1 (0.4)	32 (12.0)	0
Decreased appetite	38 (14.4)	1 (0.4)	38 (14.3)	1 (0.4)
Infusion-related reaction	36 (13.6)	5 (1.9)	9 (3.4)	0
Dyspnea	34 (12.9)	3 (1.1)	30 (11.3)	6 (2.3)
PPE syndrome	33 (12.5)	1 (0.4)	43 (16.2)	8 (3.0)
Pain in extremity	32 (12.1)	3 (1.1)	24 (9.0)	0
Arthralgia	28 (10.6)	0	23 (8.6)	1 (0.4)
Stomatitis	28 (10.6)	2 (0.8)	21 (7.9)	0
Abdominal pain	26 (9.8)	4 (1.5)	37 (13.9)	3 (1.1)
Urinary tract infection	26 (9.8)	2 (0.8)	28 (10.5)	3 (1.1)
Peripheral neuropathy	26 (9.8)	1 (0.4)	28 (10.5)	3 (1.1)
Dizziness	26 (9.8)	1 (0.4)	17 (6.4)	0
Mucosal inflammation	26 (9.8)	0	8 (3.0)	1 (0.4)
Back pain	24 (9.1)	1 (0.4)	27 (10.2)	3 (1.1)
Hypokalemia	17 (6.4)	5 (1.9)	21 (7.9)	4 (1.5)
Hypertension	14 (5.3)	5 (1.9)	8 (3.0)	2 (0.8)
Pneumonia	9 (3.4)	5 (1.9)	11 (4.1)	9 (3.4)
Pleural effusion	8 (3.0)	2 (0.8)	13 (4.9)	4 (1.5)
Syncope	4 (1.5)	4 (1.5)	0	0
ematologic AEs, n (%)				
Neutropenia	76 (28.8)	54 (20.5)	55 (20.7)	33 (12.4)
Anemia	50 (18.9)	13 (4.9)	63 (23.7)	17 (6.4)
Neutrophil count decreased	33 (12.5)	23 (8.7)	39 (14.7)	28 (10.5)
ALT increased	26 (9.8)	5 (1.9)	26 (9.8)	4 (1.5)
AST increased	22 (8.3)	7 (2.7)	34 (12.8)	3 (1.1)
WBC decreased	20 (7.6)	7 (2.7)	26 (9.8)	8 (3.0)
Leukopenia	14 (5.3)	4 (1.5)	10 (3.8)	1 (0.4)
Febrile neutropenia	8 (3.0)	8 (3.0)	13 (4.9)	13 (4.9)

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• Common adverse events (AE) occurring in \geq 20% of patients, regardless of causality, were fatigue, nausea, diarrhea, and neutropenia in both groups, as well as vomiting and pyrexia (margetuximab group) and anemia (trastuzumab group; **Table 2**)

- Grade \geq 3 AEs in at least 5% of patients were neutropenia, neutrophil count decreased, and anemia in both groups, as well as fatigue (margetuximab group) and febrile neutropenia (trastuzumab group; **Table 2**)
- Discontinuations from the study due to AEs were similar in both treatment groups: 10 patients (4%) in the margetuximab group and 10 patients (4%) in the trastuzumab group (**Table 1**)
- There were 6 deaths due to AEs, none of which were considered treatment related: 4 patients (2%) in the margetuximab group and 2 patients (1%) in the trastuzumab group (**Table 1**)
- AEs of special interest included infusion-related reactions (IRR) and left ventricular (LV) dysfunction
- All-grade IRRs were more common with margetuximab than with trastuzumab (36 [14%] vs 9 [3%], respectively; **Table 1**). Among margetuximab recipients, grade ≥3 IRRs were reported in 5 patients (2%) and IRRs leading to margetuximab discontinuation occurred in 3 patients (1.1%). No trastuzumab recipients had grade \geq 3 IRRs, nor IRRs leading to discontinuation
- AEs of LV dysfunction occurred in 8 patients (3%) in both treatment groups (**Table 1**). Grade \geq 3 LV dysfunction AEs were observed in 3 margetuximab recipients (1%) and 1 trastuzumab recipient (0.4%). AEs of LV dysfunction requiring dose delay or discontinuation were experienced in 4 margetuximab-treated (2%) versus 7 trastuzumab-treated patients (3%)

Conclusions

- The final OS analysis for the ITT population did not demonstrate a statistically significant advantage for margetuximab plus chemotherapy compared with trastuzumab plus chemotherapy
- A prespecified non- α -allocated analysis of CD16A genotyping indicates a numerical OS advantage in favor of margetuximab in F homozygous patients, along with a numerical OS advantage in favor of trastuzumab in V homozygous patients
- Safety of margetuximab plus chemotherapy, comparable to trastuzumab plus chemotherapy, was similar to previous reports and consistent with the FDA-approved label for margetuximab
- Further studies of margetuximab in patients with HER2+ breast cancer with different CD16A allelic variants are warranted, including MARGOT (NCT04425018), the ongoing neoadjuvant investigator-initiated study examining the efficacy of margetuximab versus trastuzumab in patients carrying F-allelic variants of CD16A

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