

# Phase 3 SOPHIA study of margetuximab + chemotherapy vs trastuzumab + chemotherapy in patients with HER2+ metastatic breast cancer after prior anti-HER2 therapies: second interim overall survival analysis

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# Persistent Unmet Need in HER2+ MBC After Anti-HER2 Therapy

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- Current standard of care for HER2-positive MBC
  - First-line: trastuzumab and pertuzumab with chemotherapy<sup>1-3</sup>
  - Second-line: T-DM1<sup>4,5</sup>
- After the above therapies, there is no recognized standard of care
  - Subsequent therapies include sequential chemotherapy with trastuzumab and/or lapatinib<sup>6,7</sup>
  - Continued anti-HER2 therapy after progression is preferred, generally in combination with chemotherapy<sup>8-11</sup>

HER2=human epidermal growth factor receptor 2; MBC=metastatic breast cancer; T-DM1=ado-trastuzumab emtansine.

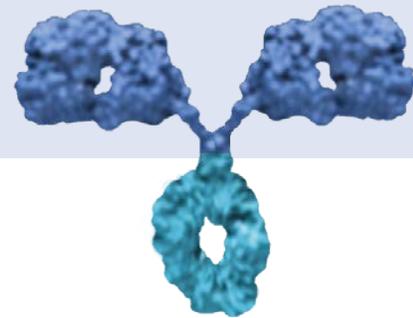
1. Baselga J, et al. *N Engl J Med.* 2012;366(2):109-119. 2. Swain SM, et al. *Lancet Oncol.* 2013;14(6):461-471. 3. Swain SM, et al. *N Engl J Med.* 2015;372(8):724-734. 4. Verma S, et al. *N Engl J Med.* 2012;367(19):1783-1791. 5. Diéras V, et al. *Lancet Oncol.* 2017;18(6):732-742. 6. Giordano SH, et al. *J Clin Oncol.* 2018;36(26):2736-2740. 7. Cardoso F, et al. *Ann Oncol.* 2018;29(8):1634-1657. 8. von Minckwitz G, et al. *J Clin Oncol.* 2009;27(12):1999-2006. 9. von Minckwitz G, et al. *Eur J Cancer.* 2011;47(15):2273-2281. 10. Geyer CE, et al. *N Engl J Med.* 2006;355(26):2733-2743. 11. Cameron D, et al. *Oncologist.* 2010;15(9):924-934.

# Margetuximab: Fc engineering Alters Fc Receptor Affinities

## Trastuzumab

### Fab:

- Binds HER2 with high specificity
- Disrupts signaling that drives cell proliferation and survival



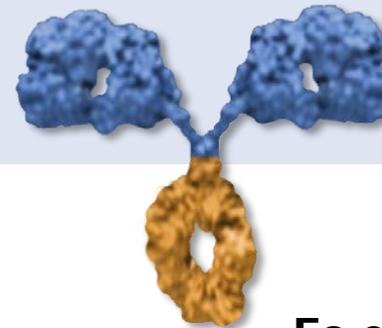
### Fc:

- Wild-type immunoglobulin G1 (IgG1) immune effector domains
- Binds and activates immune cells

## Margetuximab<sup>1,2</sup>

### Fab:

- Same specificity and affinity
- Similarly disrupts signaling



### Fc engineering:

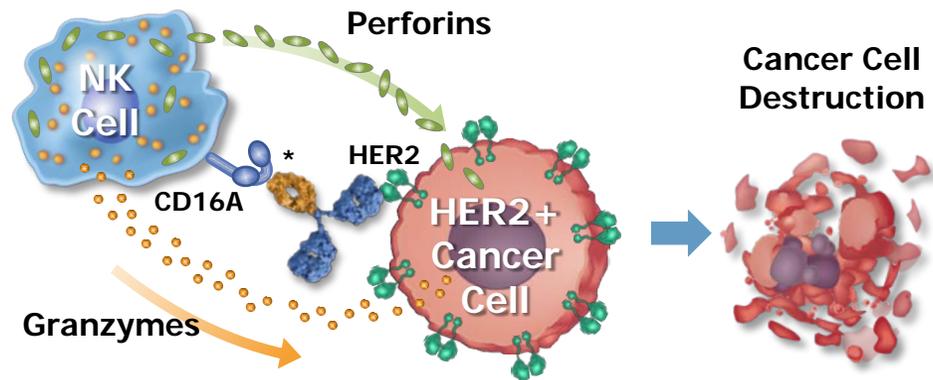
- ↑ Affinity for activating Fc $\gamma$  RIIA (CD16A)
- ↓ Affinity for inhibitory Fc $\gamma$  RIIB (CD32B)

# Margetuximab: Fc engineering Activates Immune Responses

## Trastuzumab vs Margetuximab Fc Receptor Affinities<sup>1</sup>

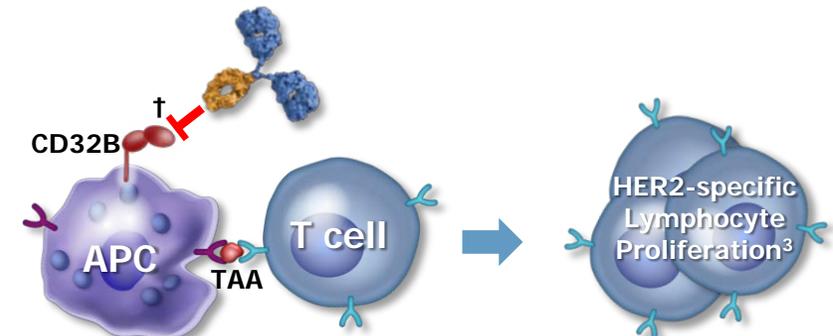
Antibody	Binding affinity ( $K_D$ , nM) (range)		
	Trastuzumab (wild type Fc)	Margetuximab (engineered Fc)	Fold difference in affinity
CD16A-158V	356 (348-364)	84 (84-84)	4.2 ↑
CD16A-158F	595 (584-605)	127 (121-133)	4.7 ↑
CD32B	59 (58-59)	405 (400-410)	6.9 ↓

### Intent: Enhance Innate Immunity (ADCC)



\* Increased CD16A Engagement → more potent ADCC stimulation<sup>2</sup>

### Intent: Enhance Adaptive Immunity (HER2-specific T-cell reactivity and antibodies)



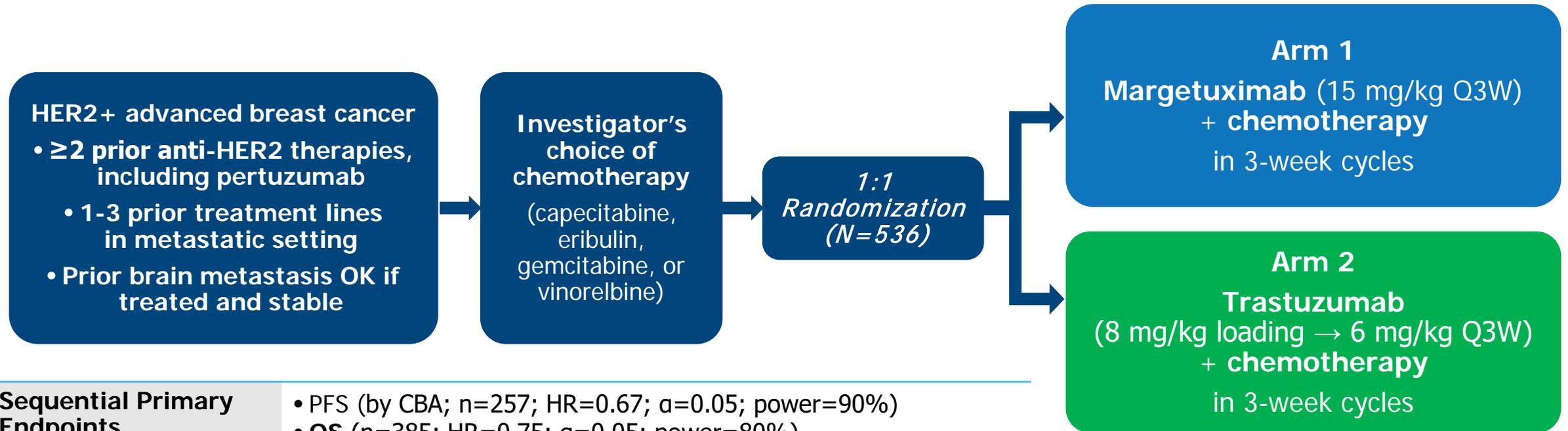
† Reduced CD32B binding → increased immune activation<sup>4</sup>

ADCC=antibody-dependent cellular cytotoxicity; APC=antigen-presenting cell; CD=cluster of differentiation; NK=natural killer; TAA=tumor-associated antigen.

1. MacroGenics; internal data. 2. Nordstrom JL, et al. *Breast Cancer Res.* 2011;13(6):R123. 3. Nordstrom JL, et al. *J Clin Oncol.* 2019;37(suppl 15):Abstr. 1030. 4. Clynes RA, et al. *Nat Med.* 2000;6:443-446.

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# Study CP-MGAH22-04 (SOPHIA) Design<sup>1,2</sup>



## Sequential Primary Endpoints

- PFS (by CBA; n=257; HR=0.67; α=0.05; power=90%)
- OS (n=385; HR=0.75; α=0.05; power=80%)

## Secondary Endpoints

- PFS (Investigator assessed)
- Objective response rate (ORR) by CBA

## Tertiary/Exploratory Endpoints

- ORR (Investigator assessed)
- **Clinical benefit rate (CBR), duration of response (DoR)**
- **Safety** profile, antidrug antibody
- **Effect of CD16A, CD32A, and CD32B** on margetuximab efficacy

**Stratification:**

- Chemotherapy choice
- Prior therapies (≤2 vs >2)
- Metastatic sites (≤2 vs >2)

CBA=central blinded analysis; HR=hazard ratio; OS=overall survival; PFS=progression-free survival; Q3W=every 3 weeks.

1. Rugo HS, et al. *J Clin Oncol*. 2016;34(suppl 15):TPS630. 2. Clinicaltrials.gov. NCT02492711. <https://clinicaltrials.gov/ct2/show/NCT02492711>. Accessed September 30, 2019.

# ITT Population (n=536): Baseline Characteristics

*Treatment arms balanced overall*

	Margetuximab + Chemotherapy (n=266)	Trastuzumab + Chemotherapy (n=270)	
	55	56	
<b>Demographics</b>	Median age	56	
	Female sex	266 (100%)	267 (98.9%)
	Europe	152 (57%)	138 (51%)
	North America	85 (32%)	102 (38%)
	Other region	29 (11%)	30 (11%)
<b>Disease Characteristics</b>	ECOG PS 0	149 (56%)	161 (60%)
	ECOG PS 1	117 (44%)	109 (40%)
	Metastatic	260 (98%)	264 (98%)
	Locally advanced, unresectable	6 (2%)	6 (2%)
	Measurable disease by CBA	262 (99%)	262 (97%)
	≤2 metastatic sites	138 (52%)	144 (53%)
	>2 metastatic sites	128 (48%)	126 (47%)
<b>Backbone chemotherapy</b>	Hormone receptor positive	164 (62%)	170 (63%)
	Hormone receptor negative	102 (38%)	98 (36%)
	Capecitabine	71 (27%)	72 (27%)
	Eribulin	66 (25%)	70 (26%)
	Gemcitabine	33 (12%)	33 (12%)
	Vinorelbine	96 (36%)	95 (35%)

ECOG=Eastern Cooperative Oncology Group; hormone receptor positive=ER (estrogen receptor)+ and/or PgR (progesterone receptor)+; hormone receptor negative=ER- and PgR-; PS=performance status.

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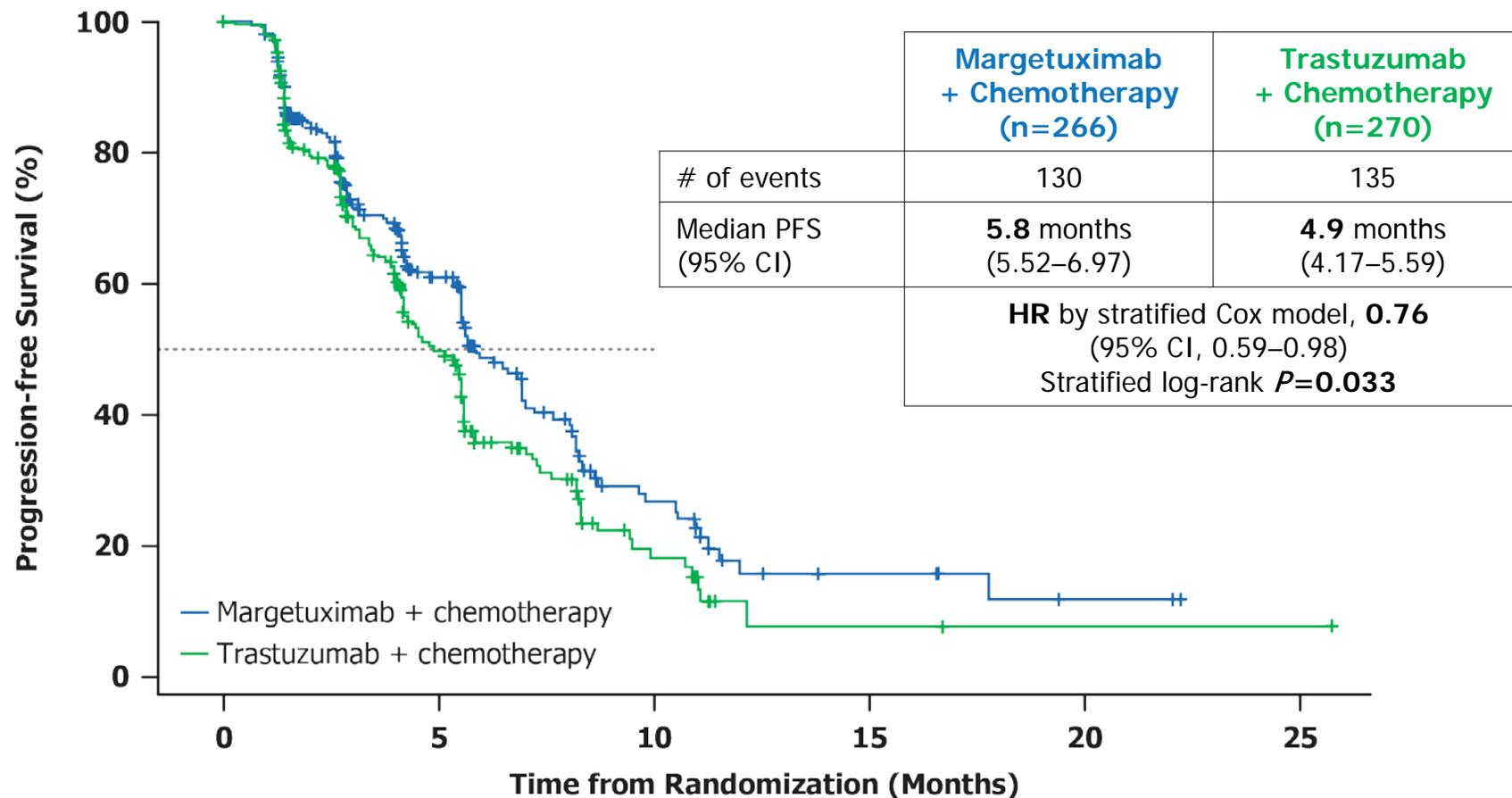
# ITT Population (n=536): Prior Cancer Therapy

*Treatment arms overall balanced*

	Margetuximab + Chemotherapy (n=266)	Trastuzumab + Chemotherapy (n=270)
<b>Settings of prior therapy</b>		
Adjuvant and/or neoadjuvant	<b>158 (59%)</b>	<b>145 (54%)</b>
Metastatic only	108 (41%)	125 (46%)
<b>Prior metastatic lines of therapy</b>		
≤2	175 (66%)	180 (67%)
>2	91 (34%)	90 (33%)
<b>Prior anti-HER2 therapy</b>		
<b>Trastuzumab</b>	<b>266 (100%)</b>	<b>270 (100%)</b>
<b>Pertuzumab</b>	<b>266 (100%)</b>	<b>269 (100%)</b>
<b>T-DM1</b>	<b>242 (91%)</b>	<b>247 (92%)</b>
Lapatinib	41 (15%)	39 (14%)
Other HER2	6 (2%)	6 (2%)
<b>Prior chemotherapy</b>		
Taxane	252 (95%)	249 (92%)
Anthracycline	118 (44%)	110 (41%)
Platinum	34 (13%)	40 (15%)
<b>Prior endocrine therapy</b>	126 (47%)	133 (49%)

# Primary PFS by Central Blinded Analysis, Oct-2018 Cutoff

24% Risk Reduction of Disease Progression<sup>a</sup>



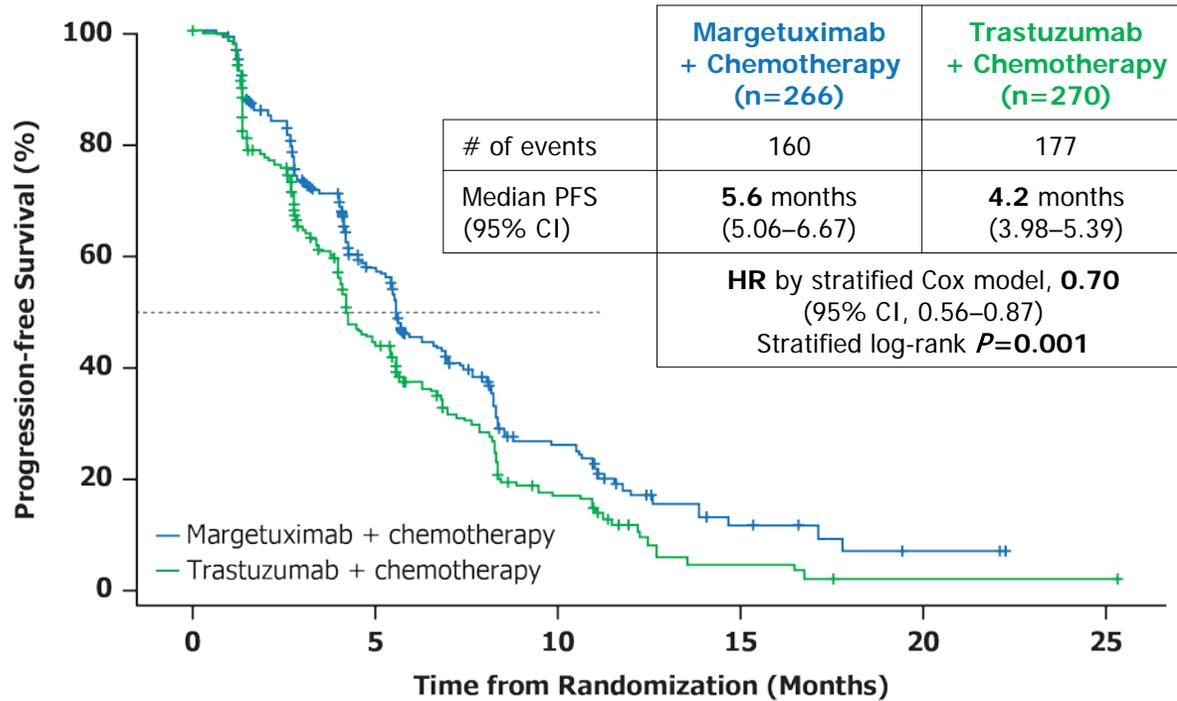
Margetuximab	266	174	94	45	21	8	6	4	2	0
Trastuzumab	270	158	74	33	13	2	2	1	1	1

ITT population: N=536. <sup>a</sup>PFS analysis was triggered by last randomization on October 10, 2018, after 265 PFS events occurred. CI=confidence interval.

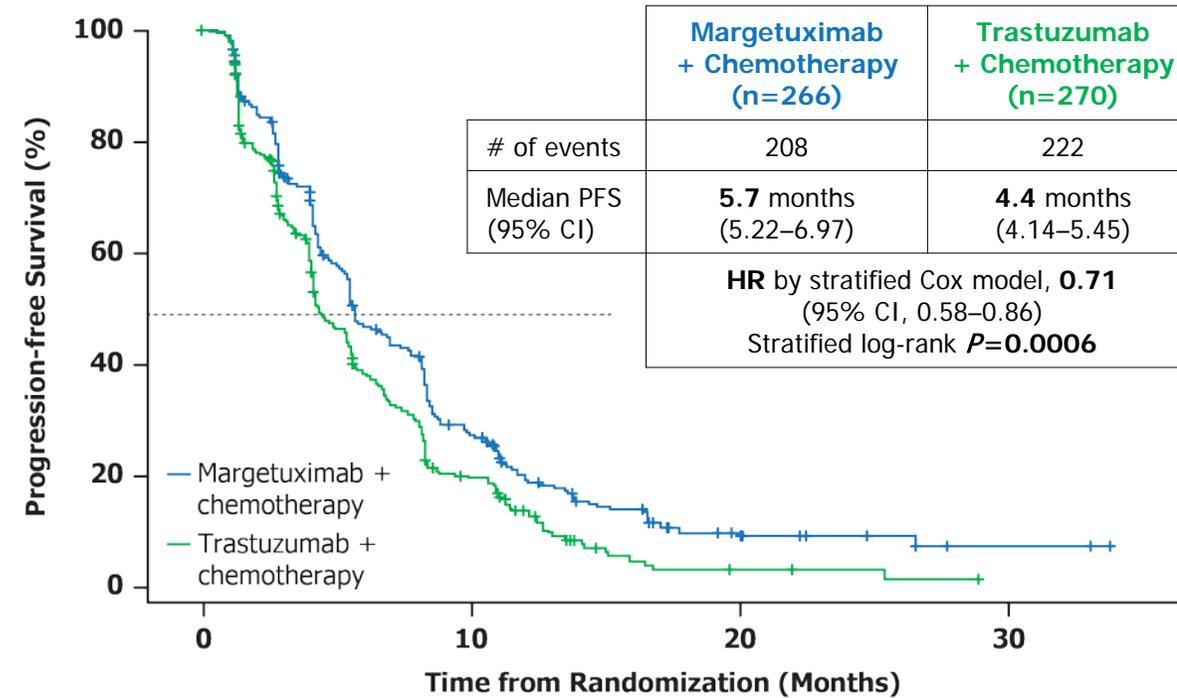
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# Investigator-Assessed PFS

**Investigator-Assessed PFS (Oct-2018 Cutoff)<sup>a</sup>**  
**30% Risk Reduction of Disease Progression**



**Investigator-Assessed PFS (Sep-2019 Cutoff)<sup>b</sup>**  
**29% Risk Reduction of Disease Progression**



Margetuximab	266	206	155	112	72	61	33	32	16	13	8	7	3	2	2	0	
Trastuzumab	270	184	130	87	59	45	25	21	10	5	4	3	1	1	1	1	0

Margetuximab	266	210	137	100	62	36	25	14	11	6	5	3	2	2	0
Trastuzumab	270	192	108	72	42	20	8	4	3	2	2	1	0		

ITT population: N=536. <sup>a</sup>PFS analysis triggered by last randomization on October 10, 2018, after 265 PFS events. <sup>b</sup>PFS analysis performed as of September 10, 2019, after 430 PFS events occurred.

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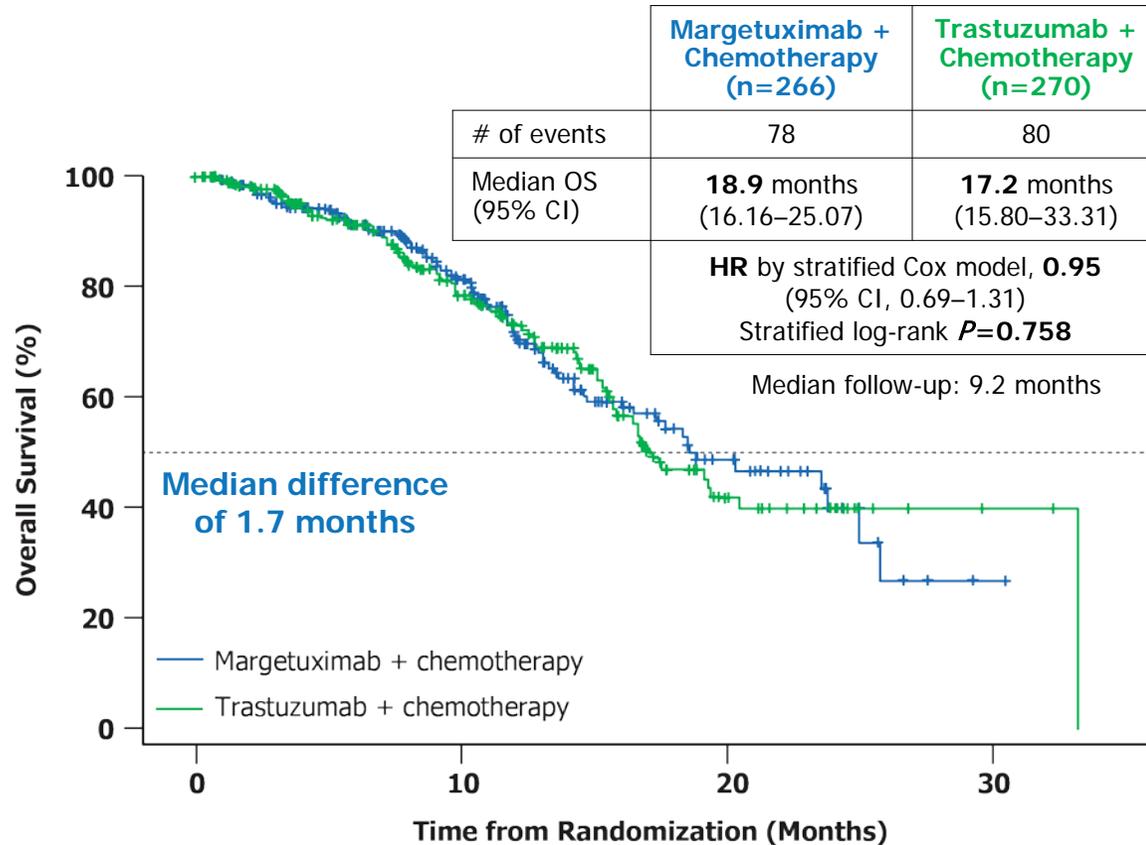
## Investigator-Assessed Response, Clinical Benefit Rates, Sep-2019 Cutoff

	ITT Population (N=536)		Nominal <i>P</i> Value
	Margetuximab + Chemotherapy (n=266)	Trastuzumab + Chemotherapy (n=270)	
<b>Objective Response Rate</b> (CR+PR), n (%) [95% CI]	67 ( <b>25.2%</b> ) [20.1–30.9]	37 ( <b>13.7%</b> ) [9.8–18.4]	0.0006 <sup>a</sup>
<b>Clinical Benefit Rate</b> (CR+PR+SD>6 months), n (%) [95% CI]	128 ( <b>48.1%</b> ) [42.0–54.3]	96 ( <b>35.6%</b> ) [29.9–41.6]	0.0025 <sup>a</sup>
<b>Best Overall Response, n (%)</b>			
Complete Response	5 (1.9%)	4 (1.5%)	
Partial Response	62 (23.3%)	33 (12.2%)	
Stable Disease	143 (53.8%)	158 (58.5%)	
Progressive Disease	40 (15.0%)	57 (21.1%)	
Not Evaluable/Not Available	16 (6.0%)	18 (6.7%)	
<b>Duration of Response</b> (CR, PR), median months (95% CI)	<b>6.9</b> (5.45–7.49)	<b>7.0</b> (5.55–8.15)	0.7400 <sup>b</sup>

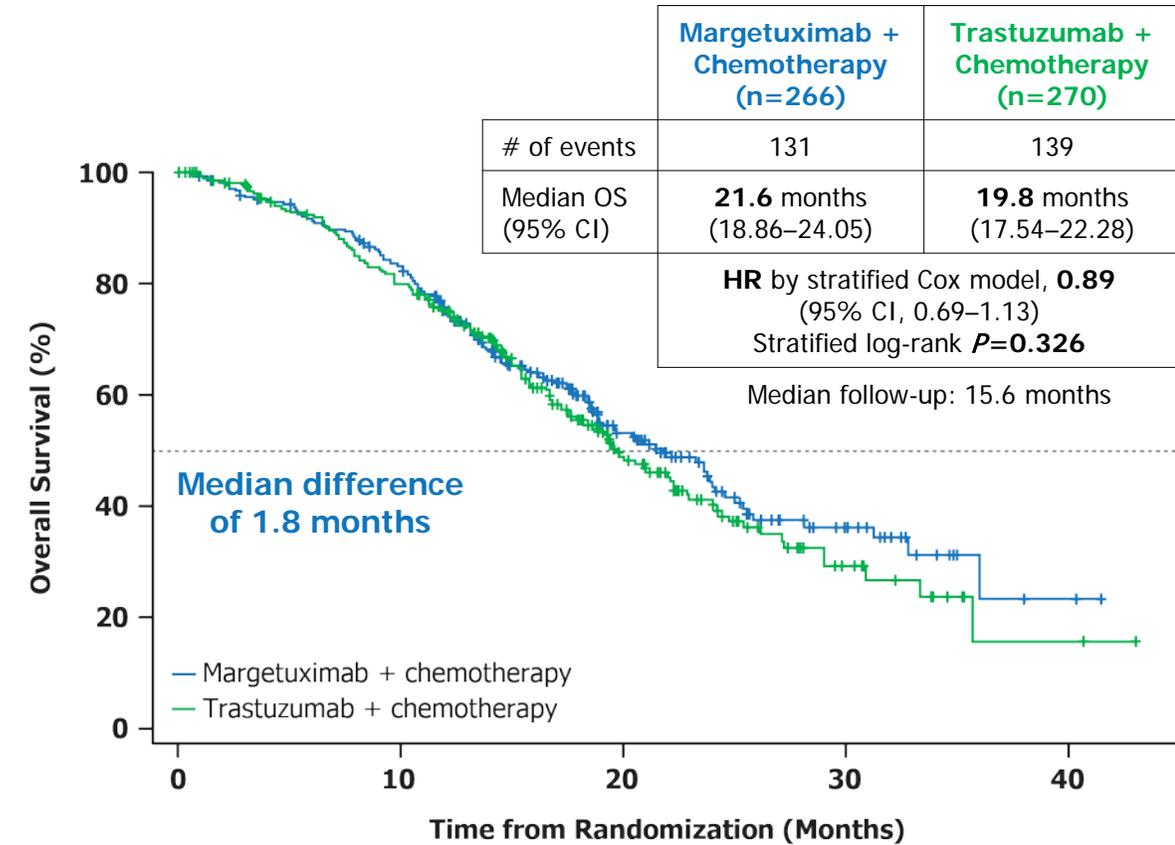
<sup>a</sup> Stratified Mantel-Haenszel test *P* value (2-sided). <sup>b</sup> Stratified log-rank *P* value (2-sided).

# ITT Population: Interim OS Analyses (n=536)

First Interim OS Analysis (Oct-2018 Cutoff)<sup>a</sup>



Second Interim OS Analysis (Sep-2019 Cutoff)<sup>b</sup>



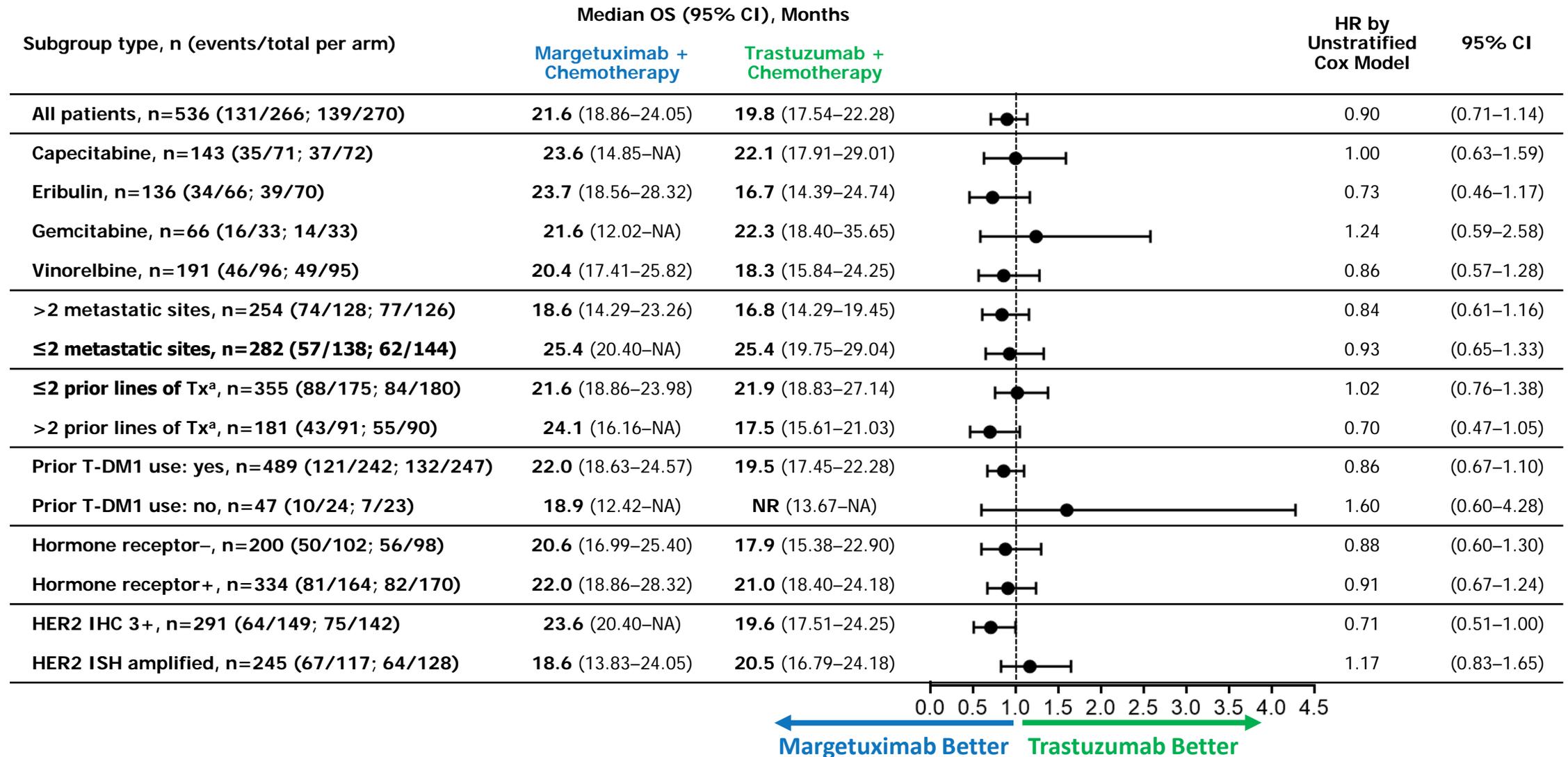
Margetuximab	266	241	209	174	125	85	57	42	29	17	8	3	1	0	
Trastuzumab	270	237	194	163	122	92	63	37	24	14	6	3	2	1	0

Margetuximab	266	259	249	239	230	214	188	159	131	107	80	64	47	35	31	22	14	9	3	2	2	0	
Trastuzumab	270	260	246	236	218	205	183	160	126	102	74	57	43	30	22	16	10	6	2	2	2	1	0

<sup>a</sup>OS analysis performed as of October 10, 2018 data cutoff, after 158 (41%) of 385 events needed for final OS analysis had occurred.

<sup>b</sup>OS analysis performed as of September 10, 2019 data cutoff, after 270 (70%) of 385 events needed for final OS analysis had occurred.

# OS Subgroup Analyses

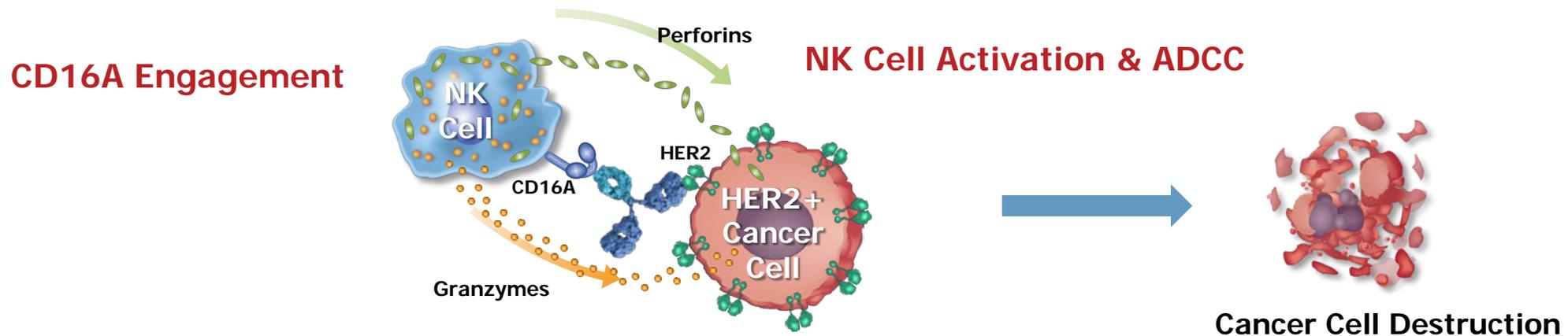


<sup>a</sup>In the metastatic setting. IHC=immunohistochemistry; ISH=in situ hybridization; NA=not available (because cannot be calculated); NR=not reached; Tx=treatment.

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# CD16A Biology Impacts Trastuzumab Outcome in NSABP-B31

CD16A-158 Genotype	Population Prevalence <sup>1,2</sup>	IgG1 binding affinity ( $K_D$ ), nM (range) <sup>3</sup>	IgG1 NK cell binding, MFI $\pm$ SD <sup>4</sup>	<i>Ex vivo</i> ADCC <sup>5-8</sup>	NSABP-B31 Disease-Free Survival, HR <sup>9</sup>
V/V	9–11%	411 (403–419)	1,814 $\pm$ 507	Greater	0.118
V/F	35–44%	—	1,257 $\pm$ 608	Intermediate	0.336
F/F	47–54%	1,066 (981–1,150)	913 $\pm$ 317	Lesser	0.713
<b>Implication</b>	Distribution globally similar	V allotype has higher affinity for IgG1 Fc	V/V NK cells bind more IgG1 than F/F NK cells	V/V effectors generally activate ADCC best	V alleles associate with benefit <sup>5,9,10</sup>



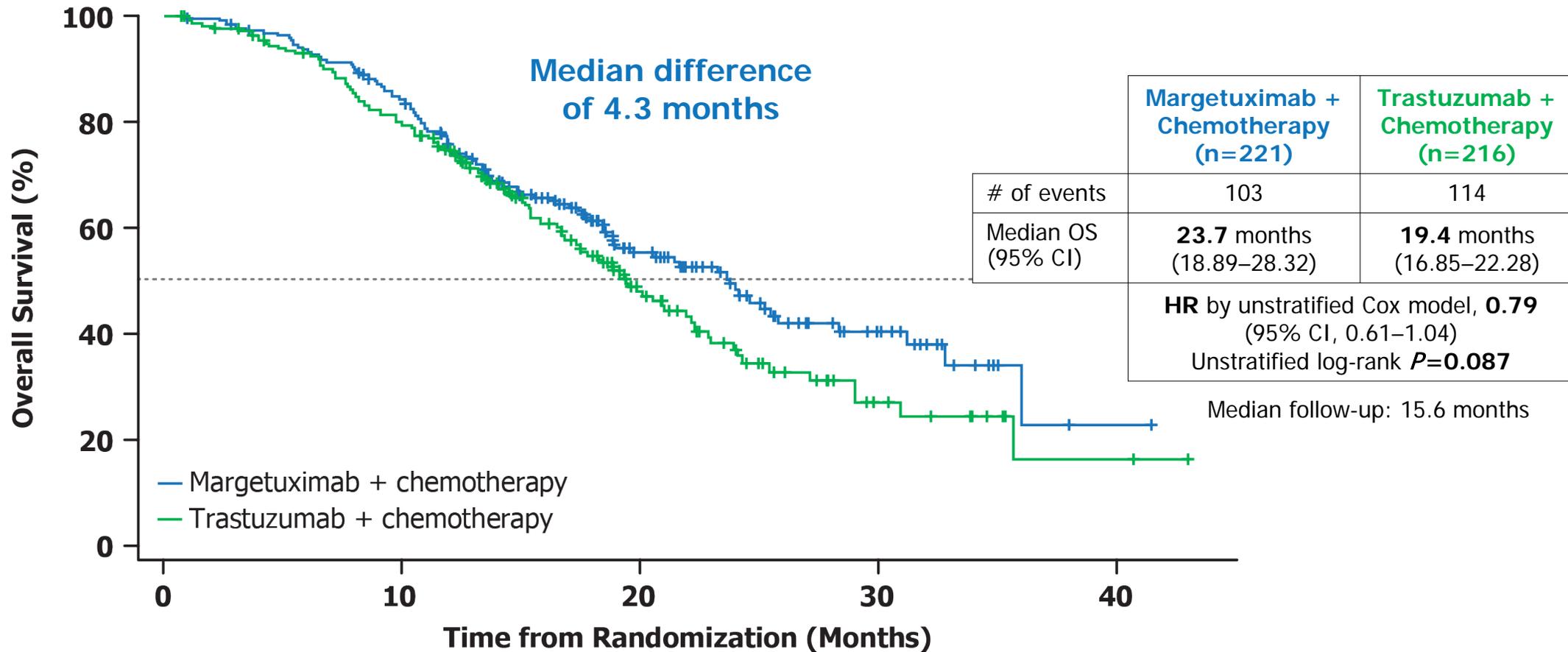
MFI=mean fluorescence intensity; NK=natural killer; SD=standard deviation. 1. Lehrnbecher T, et al. *Blood*. 1999;94:4220-4232. 2. Tanaka Y, et al. *Nephrol Dial Transplant*. 2005;20:2439-2445. 3. Stavenhagen JB et al. *Cancer Res*. 2007;67:8882-8890. 4. Koene HR, et al. *Blood*. 1997;90:1109-1114. 5. Musolino A, et al. *J Clin Oncol*. 2008;26:1789-1796. 6. Nordstrom JL, et al. *Breast Cancer Res*. 2011;13:R123. 7. Shields JM, et al. *J Biol Chem*. 2002;277:9790-9799. 8. Varchetta S, et al. *Cancer Res*. 2007;67:11991-11999. 9. Gavin PG, et al. *JAMA Oncol*. 2017;3:335-341. 10. Musolino A, et al. *Pharmacogenomics J*. 2016;16:472-477.

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# Pre-specified Exploratory OS in CD16A-185 F Carriers<sup>1</sup>

<sup>1</sup>Sep-2019 Cutoff

CD16A-158F Carriers, FF or FV, n=437 of 506 (86%) genotyped

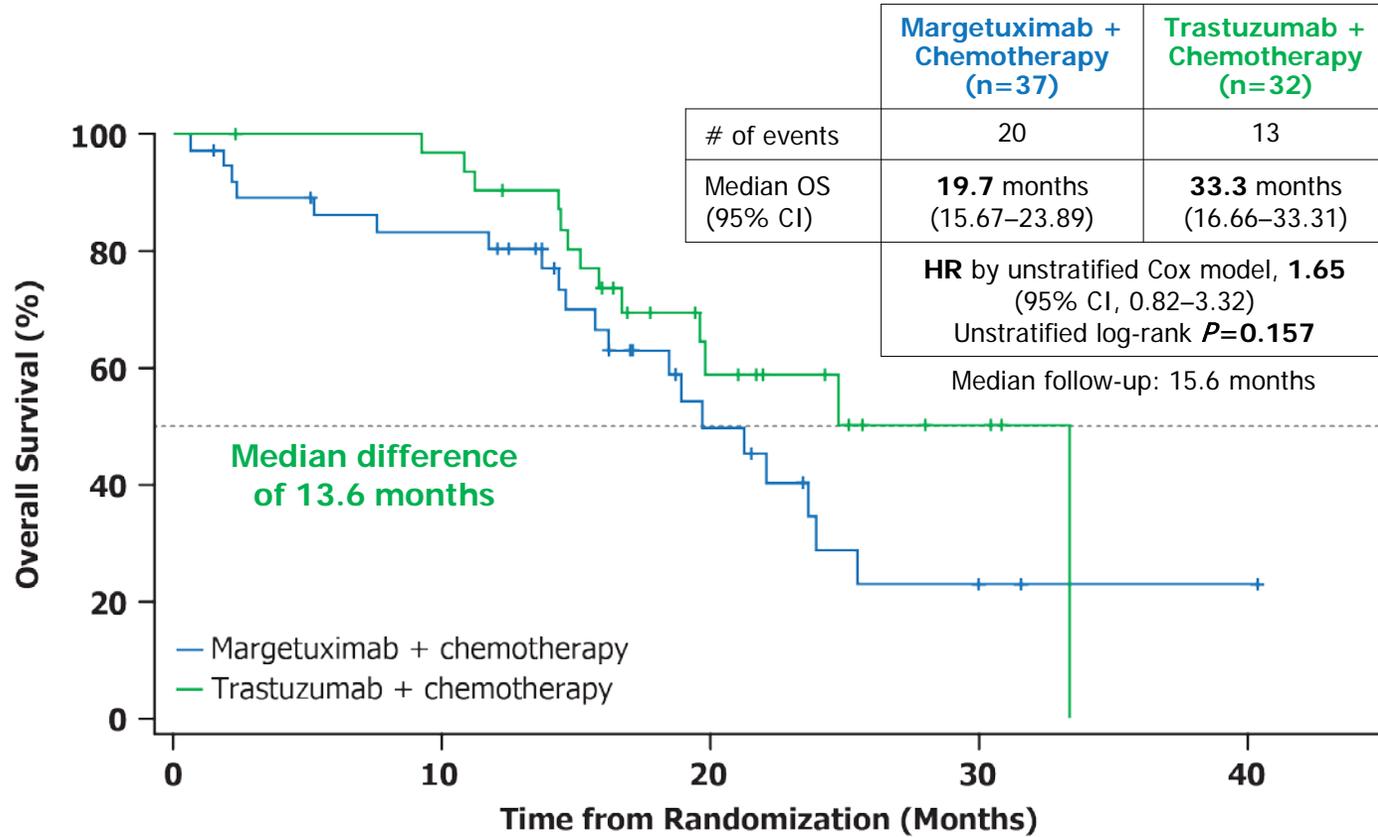


Margetuximab	221	219	212	204	196	181	157	135	111	91	68	55	42	31	27	19	13	8	2	1	1	0	
Trastuzumab	216	210	201	192	176	165	145	123	98	81	57	43	30	21	16	11	9	6	2	2	2	1	0

# Pre-specified Exploratory OS in CD16A-158 VV Homozygotes<sup>1</sup>

<sup>1</sup>Sep-2019 Cutoff

CD16A-158VV Homozygotes, n=69 of 506 (14%) genotyped



## Unbalanced patient characteristics

Baseline Characteristic	Margetuximab + Chemotherapy (n=37)	Trastuzumab + Chemotherapy (n=32)
Cancer disease history		
Brain, n (%)	8 (22%)	3 (9%)
Breast, n (%)	10 (27%)	5 (16%)
Liver, n (%)	16 (43%)	10 (31%)
Lung, n (%)	11 (30%)	13 (41%)
Lymph node, n (%)	21 (57%)	16 (50%)
HER2 IHC 3+, n (%)	19 (51%)	18 (56%)
Hormone receptor +, n (%)	23 (62%)	18 (56%)
ECOG PS 1, n (%)	14 (38%)	16 (50%)
>60 years of age, n (%)	16 (43%)	5 (16%)
>2 prior metastatic lines of therapy, n (%)	15 (41%)	9 (28%)

Less favorable

Margetuximab	37	34	32	30	29	29	27	23	19	15	11	9	5	4	4	3	1	1	1	1	1	0
Trastuzumab	32	32	31	31	31	30	28	27	20	14	11	8	8	4	3	3	1	0				

# Adverse Events (AEs), Apr-2019 Cutoff

*Similar overall safety profiles*

	Margetuximab + Chemotherapy (n=264)		Trastuzumab + Chemotherapy (n=266)	
<b>Any grade AE, n (%)</b>	260 (98.5)		261 (98.1)	
<b>Any margetuximab or trastuzumab-related AE, n (%)</b>	160 (60.6)		132 (49.6)	
<b>Grade ≥3 AE, n (%)</b>	142 (53.8)		140 (52.6)	
<b>Grade ≥3 margetuximab or trastuzumab-related AE, n (%)</b>	34 (12.9)		22 (8.3)	
<b>Any SAE, n (%)</b>	43 (16.3)		49 (18.4)	
<b>Any margetuximab or trastuzumab-related SAE, n (%)</b>	5 (1.9)		4 (1.5)	
<b>AE leading to treatment<sup>a</sup> discontinuation, n (%)</b>	8 (3.0)		7 (2.6)	
<b>AEs resulting in death,<sup>b</sup> n (%)</b>	3 (1.1) <sup>c</sup>		2 (0.8) <sup>d</sup>	
<b>AEs of special interest, n (%)</b>	<b>All Grade</b>	<b>Grade ≥3</b>	<b>All Grade</b>	<b>Grade ≥3</b>
Infusion-related reaction (IRR) <sup>e</sup>	35 (13.3)	4 (1.5)	9 (3.4)	0
Discontinuation due to IRRs, n (%)	2 (0.6)	0	0	0
LV dysfunction leading to dose delay or discontinuation, n (%)	4 (1.5)	0	6 (2.3)	0

Safety Population (randomized patients who received any study treatment): N=530.

<sup>a</sup>Including both anti-HER2 study therapy and chemotherapy. <sup>b</sup>No AEs resulting in death were considered related to anti-HER2 study therapy. <sup>c</sup>Pneumonia (n=2), pneumonia aspiration (n=1). <sup>d</sup>Pneumonia (n=1), acute kidney injury (n=1). <sup>e</sup>In pivotal trials of trastuzumab, IRRs occurred in 21% to 40% of patients (US package insert). LV=left ventricular; SAE=serious AE.

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# Conclusions from SOPHIA Trial

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- **Margetuximab – increased affinity for activating and decreased affinity for inhibitory Fcγ receptors**
  - Fc engineering intent: coordinate engagement of innate and adaptive immunity
- **First Phase 3 head to head comparison to show PFS superiority versus active control trastuzumab**
  - Primary analysis (Oct-2018 cutoff): 24% risk reduction in centrally blinded PFS (HR 0.76,  $P=0.033$ )
  - Investigator PFS (Sep-2019 cutoff): also favors margetuximab with 29% risk reduction (HR 0.71, nominal  $P=0.0006$ )
- **2<sup>nd</sup> interim OS (Sep-2019 cutoff): favors margetuximab** (mOS 21.6 vs 19.8 mos; HR=0.89,  $P=0.326$ )
- **First prospective analysis of CD16A genotype as a predictor of anti-HER2 antibody efficacy (exploratory)**
  - Primary PFS analysis (Oct-2018 cutoff), CD16A-F carrier: mPFS difference 1.8 mos (HR 0.68, nominal  $P=0.005$ )
  - 2<sup>nd</sup> interim OS (Sep-2019 cutoff), CD16A-F carriers: mOS difference 4.3 mos (HR=0.79, nominal  $P=0.087$ )
- **Acceptable safety, similar to trastuzumab<sup>1</sup>**
  - ≥ Grade 3 adverse events, SAEs, discontinuations, fatal AEs, left ventricular dysfunction all balanced
  - Higher IRRs on margetuximab (13% vs 3%), most on first infusion only, Grade 1-2
  - Infusion substudy: 30-minute infusions without effect on safety, IRR risk, or severity<sup>2</sup>
- **Next milestone: final OS analysis (after 385 events), expected late 2020**

1. Thompson LM, et al. *Oncologist*. 2014;19(3):228-234. 2. Gradishar WJ, et al., SABCS 2019, #P1-18-04, 11-Dec-2019 from 5PM to 7PM, Hall 1.

# Acknowledgments

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# SOPHIA Study Investigators (NCT02492711)

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**Belgium** – S Altintas, A Barbeaux,  
J-F Baurain, M Borms, N Claes,  
C Confente, I Deleu, L Dirix, C Fontaine,  
M-P Graas, S Henry, J Mebis, R Poncin,  
I Spoormans, P Vuylsteke

**Canada** – O Freedman, S Ghedira,  
R Ramjeeasingh

**Czech Republic** – Z Kral, B Melichar,  
K Petráková, J Prausova

**Denmark** – V Glavicic, EH Jakobsen,  
J Kenholm, S Langkjer

**Finland** – J Mattson, M Tanner

**France** – T Bachelot, E Brain,  
M Campone, B Coudert, V Dieras,  
J-M Ferrero, C Foa, R Herve, C Levy,  
M-A Mouret-Reynier, F Ricci

**Germany** – B Aktas, N Bangemann,  
M Banys-Paluchowski, W Eiermann,  
PA Fasching, G Gebauer, A Giagounidis,  
E-M Grischke, J Hackmann,  
O Hoffmann, M Joanna, M Karthaus,  
A Prechtl, A Schneeweiss, P Wimberger

**Israel** – N Efrat, D Geffen, G Hadassah,  
N Karminsky, B Kaufman, I Kuchuk,  
M Leviov, L Ryvo, B Uziely, R Yerushalmi,  
I Wolf

**Italy** – A Ardizzoia, R Berardi, A Bernardo,  
L Biganzoli, R Bordonaro, M Colleoni,  
G Curigliano, M D'Amico, B Daniele,  
M De Laurentiis, A Falcone, G Farina,  
G Francini, A Frassoldati, D Generali,  
D Grasso, N La Verde, V Lorusso, G Luppi,  
P Marchetti, F Montemurro, A Musolino,  
L Pavesi, P Pedrazolli, A Rocca,  
E Rota Caremoli, E Ruggeri, A Santoro,  
V Tinessa, G Tonini

**Korea** – S-A Im, Y-H Im, S-B Kim, JH Sohn

**The Netherlands** – M de Boer, F  
Erdkamp, D Houtsma, J Portielje, R van  
Alphen

**Poland** – I Bartosz, B Bauer-Kosinska,  
D Garncarek-Lange, B Itrych, T Jankowski,  
Z Nowecki, T Pieńkowski, T Sarosiek,  
P Wysocki

**Portugal** – M Abreu, F Cardoso, M  
Dionisio

**Puerto Rico** – M Acosta

**Spain** – J Alés Martínez,  
B Bermejo de las Heras, B Cirauqui,  
J Cortes Castan, J Dorca Ribugent,  
M Fernández Abad, L García Estévez,  
J García Sáenz, J Gavilá Gregori,  
A Gonzalez Martin, S González Santiago,  
J Illarramendi Manas, R Márquez  
Vázquez, M Melé Olivé, S Morales Murillo,  
L Palomar Abad, J Pérez García,  
J Ponce Lorenzo, M Ruiz Borrego,  
C Saura Manich, M Segui Palmer,  
S Servitja Tormo, E Sevillano Fernández

**United Kingdom** – P Bezecny, S Chan,  
A Dhadda, J Graham, C Harper-Wynne,  
M Hogg, C Intrivici, J Mansi; C Poole

**United States** – A Agrawal, E Ahn,  
S Aithal, E Andreopoulou, S Bahadur,  
S Bailey, R Batra, C Battelli, T Beeker,  
CM Brenin, U Brown-Glaberman,  
A Brufsky, D Bruetman, J Carney, H  
Chew, D Citrin, M Citron, M Cobleigh, S  
Cole, J Croley, C Croot, B Daniel, R  
Dichmann, A DiStefano, T Dobbs, R  
Droder, E Ellis, J Erban, L Fehrenbacher, T  
Feinstein, E Fleener, W Fusselman, N  
Gabrail

**United States (cont)** – C Gallagher,  
H Ghazal, WJ Gradishar, D Graham,  
M Grosse-Perdekamp, B Haley,  
K Harnden, L Hart, J Hrom, S Hurvitz,  
N Iannotti, S Kalmadi, E Kaplan,  
P Kaufman, M Kemeny, S Kendall,  
E Krill-Jackson, B Lash, A Lee, A Litvak,  
P Lowry, K Lu, C Lynch, A Maniam,  
M Martin, S McCachren, D Medgyesy,  
S Melin, R Mena, M Meshad, K Miller,  
A Montero, S Murali, M Muzaffar,  
B Nguyen, M Ninan, Y Novik, B O'Connor,  
I Oliff, R Oyola, M Pegram, A Perez,  
T Pluard, D Riseberg, A Rodriguez,  
HS Rugo, L Salazar, G Schwartz, N Shah,  
S Shrestha, B Sleckman, R Somer,  
S Sonnier, A Stroh, J Suga, E Tan-Chiu,  
S Thumma, M Tsai, L Vahdat, S Varghese,  
S Vattigunta, P Verma, J Werner,  
M Wilkenson, GS Wright, DA Yardley,  
R Young, A Zahalsky, W Zhang