

# SOPHIA Primary PFS Analysis: A Phase 3 Study of Margetuximab + Chemotherapy vs Trastuzumab + Chemotherapy in Patients With HER2+ Metastatic Breast Cancer After Prior Anti-HER2 Therapies

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

- 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 are poorly defined, including sequential chemotherapy with trastuzumab and/or lapatinib<sup>6,7</sup>
  - Continued anti-HER2 therapy after progression is generally preferred, in combination with chemotherapy<sup>8-11</sup>

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

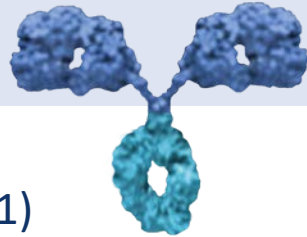
1. Baselga J, et al. *N Engl J Med*. 2012;366(2):109-119. 2. Swain SM, et al. *Lancet Oncol*. 2013;14(6):461-471. 3. Swain SM, et al. *N Engl J Med*. 2015;372(8):724-734. 4. Verma S, et al. *N Engl J Med*. 2012;367(19):1783-1791. 5. Diéras V, et al. *Lancet Oncol*. 2017;18(6):732-742. 6. Giordano SH, 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-engineered to Activate Immune Responses

## Trastuzumab

### Fab:

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



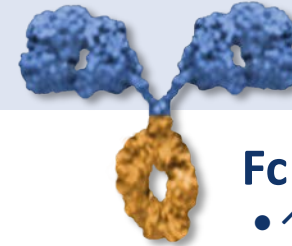
### Fc:

- 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 FcγRIIIA (CD16A)
- ↓ Affinity for inhibitory FcγRIIB (CD32B)

### Margetuximab Binding to FcγR Variants:

Receptor Type	Receptor	Allelic Variant	Relative Fc Binding	Affinity Fold-Change
Activating	CD16A	158F	Lower	6.6x ↑
		158V	Higher	4.7x ↑
	CD32A	131R	Lower	6.1x ↓
		131H	Higher	↔
Inhibitory	CD32B	232I/T	Equivalent	8.4x ↓

1. Nordstrom JL, et al. *Breast Cancer Res.* 2011;13(6):R123. 2. Stavenhagen JB, et al. *Cancer Res.* 2007;67(18):8882-8890.

# CD16A Genotype May Predict Anti-HER2 Antibody Benefit

- Two retrospective studies of HER2+ MBC<sup>1</sup> and early breast cancer<sup>2</sup> suggest patients with lower affinity CD16A-158F allele have lower PFS and ORR with trastuzumab than those homozygous for higher affinity CD16A-158VV
  - Two other retrospective studies showed no association between FcγR genotypes and outcome with adjuvant trastuzumab in early breast cancer<sup>3,4</sup>
- **Hypothesis:** Greater margetuximab benefit in lower binding CD16A-158F carriers
  - Increased affinity of margetuximab for CD16A-158F over trastuzumab (wild-type IgG1)
- **SOPHIA is first prospective\* analysis of FcγR genotype impact on anti-HER2 antibody efficacy**

\*Non-alpha allocating, exploratory analysis.

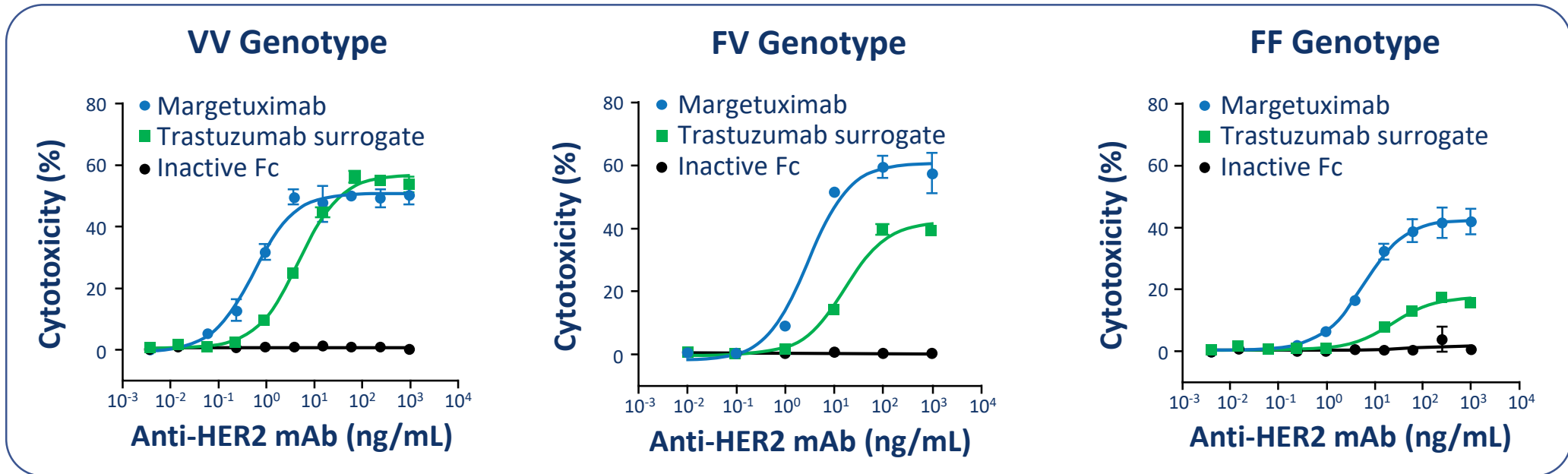
ORR=objective response rate; PFS=progression-free survival.

1. Musolino A, et al. *J Clin Oncol*. 2008;26(11):1789-1796. 2. Gavin PG, et al. *JAMA Oncol*. 2017;3(3):335-341.

3. Hurvitz SA, et al. *Clin Cancer Res*. 2012;18(12):3478-3486. 4. Norton N, et al. *Cancer Immunol Res*. 2014;2(10):962-969.

# Margetuximab Enhances Innate Immunity *In Vitro*

Greater relative cytotoxicity of margetuximab with NK cells from CD16A-158F allele carriers



## Preclinical Assay of Antibody-Dependent Cellular Cytotoxicity (ADCC)<sup>1</sup>

**Effector Cells:** Human NK cells from donors with CD16A genotypes 158VV, 158FV, and 158FF

**Target Cells:** JIMT-1 HER2+ breast cancer cell line resistant to trastuzumab antiproliferative activity

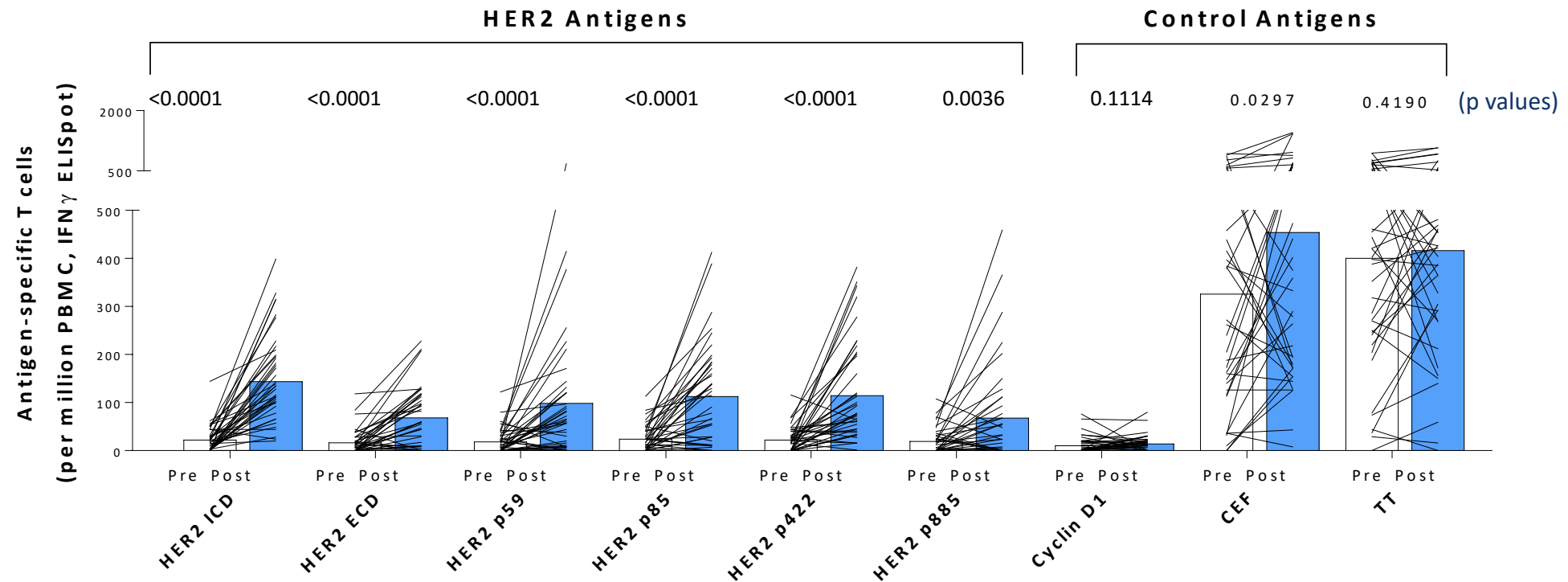
**Cellular Assay:** 3:1 Effector:Target ratio; 24-hour incubation time; endpoint: % lactate dehydrogenase release

mAb=monoclonal antibody; NK=natural killer.

Nordstrom JL, et al. *Breast Cancer Res.* 2011;13(6):R123.

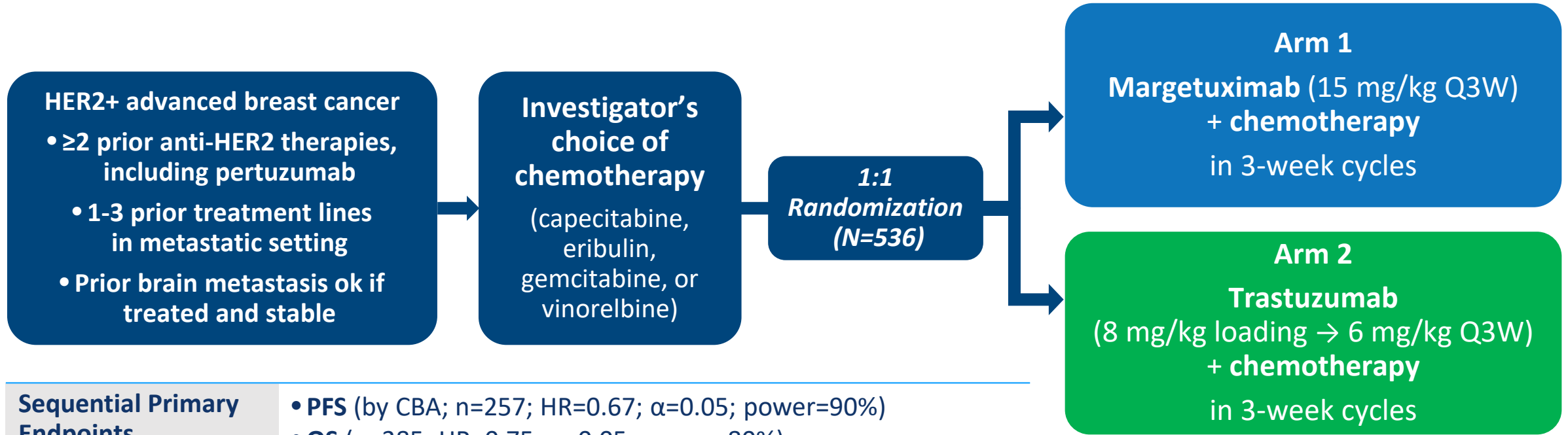
# Margetuximab Enhances HER2-specific Adaptive Immunity<sup>1,2</sup>

- Phase 1 margetuximab monotherapy study in 66 pretreated patients with HER2+ carcinomas<sup>3,4</sup>:
  - Four (17%) confirmed responses in 24 evaluable patients with HER2+ MBC<sup>3</sup>
  - Three patients continue on margetuximab at least 4 to 6 years, as of 15-May-2019<sup>4</sup>
- Enhanced HER2-specific T- and B-cell responses after margetuximab monotherapy<sup>5</sup>



1. Nordstrom JL, et al. *Breast Cancer Res.* 2011;13(6):R123. 2. Stavenhagen JB, et al. *Cancer Res.* 2007;67(18):8882-8890. 3. Bang YJ, et al. *Ann Oncol.* 2017;28(4):855-861. 4. Im SA, et al. *Cancer Res.* 2019;79(suppl 4): Abstract P6-18-11. 5. Nordstrom JL, et al. ASCO 2019 Poster (Abstr. #1030).

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



<b>Sequential Primary Endpoints</b>	<ul style="list-style-type: none"> <li>• PFS (by CBA; n=257; HR=0.67; <math>\alpha=0.05</math>; power=90%)</li> <li>• OS (n=385; HR=0.75; <math>\alpha=0.05</math>; power=80%)</li> </ul>
<b>Secondary Endpoints</b>	<ul style="list-style-type: none"> <li>• PFS (Investigator assessed)</li> <li>• Objective response rate (by CBA)</li> </ul>
<b>Tertiary/Exploratory Endpoints</b>	<ul style="list-style-type: none"> <li>• Clinical benefit rate (CBR), duration of response (DoR)</li> <li>• Safety profile, antidrug antibody</li> <li>• Effect of CD16A, CD32A, and CD32B on margetuximab efficacy</li> </ul>

### Stratification:

- Chemotherapy choice
- Prior therapies ( $\leq 2$  vs  $> 2$ )
- Metastatic sites ( $\leq 2$  vs  $> 2$ )

HR=hazard ratio; CBA=central blinded analysis.

1. Rugo HS, et al. *J Clin Oncol*. 2016;34(suppl 15):TPS630. 2. Clinicaltrials.gov. NCT02492711. www.clinicaltrials.gov/ct2/show/NCT02492711. Accessed April 8, 2019.

# ITT Population: Baseline Characteristics

	Margetuximab + Chemotherapy (n=266)	Trastuzumab + Chemotherapy (n=270)
	55	56
<b>Demographics</b>		
Median age	55	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%)
Hormone receptor positive	164 (62%)	170 (63%)
Hormone receptor negative	102 (38%)	98 (36%)
<b>Backbone chemotherapy</b>		
Capecitabine	71 (27%)	72 (27%)
Eribulin	66 (25%)	70 (26%)
Gemcitabine	33 (12%)	33 (12%)
Vinorelbine	96 (36%)	95 (35%)

***Treatment arms overall balanced***

ITT population (all randomized patients): N=536.

ECOG=Eastern Cooperative Oncology Group; hormone receptor positive=ER+ and/or PgR+; hormone receptor negative=ER- and PgR-; ITT=intention to treat; PS=performance status.



# ITT Population: Prior Cancer Therapy

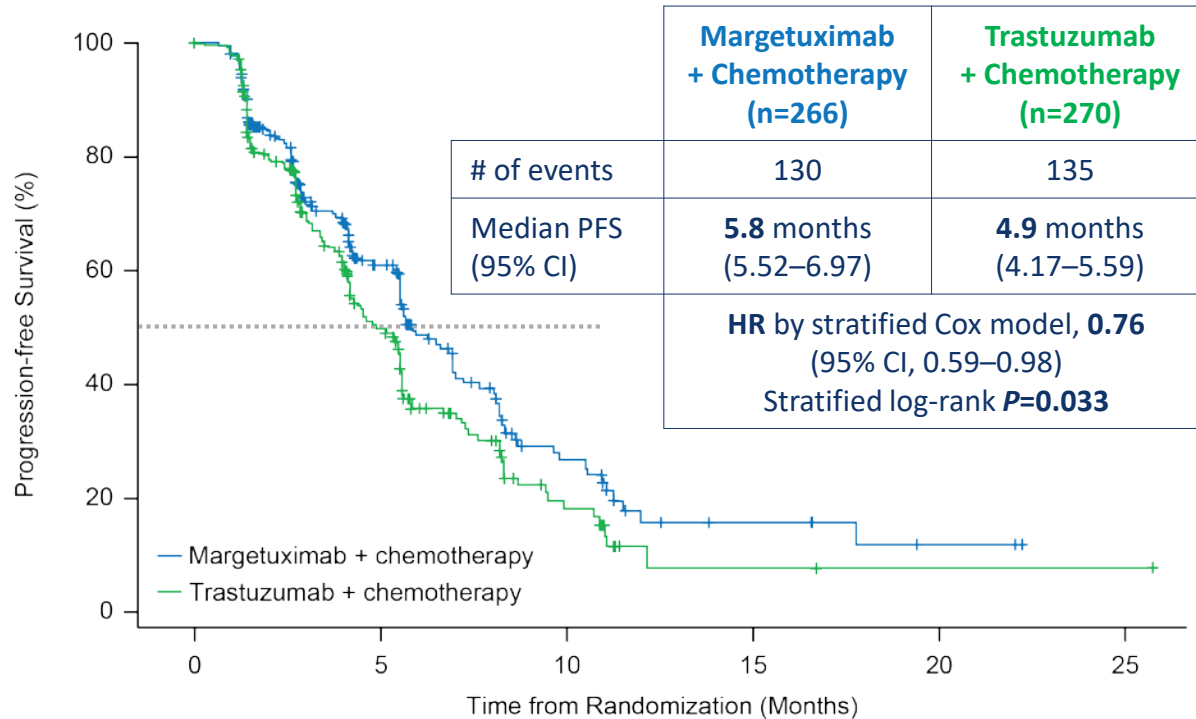
	Margetuximab + Chemotherapy (n=266)	Trastuzumab + Chemotherapy (n=270)
<b>Settings of prior therapy</b>		
Adjuvant and/or neoadjuvant	158 (59%)	145 (54%)
Metastatic only	108 (41%)	125 (46%)
<b>Prior metastatic lines of therapy</b>		
≤2	175 (66%)	180 (67%)
>2	91 (34%)	90 (33%)
<b>Prior anti-HER2 therapy</b>		
Trastuzumab	266 (100%)	270 (100%)
Pertuzumab	266 (100%)	269 (100%)
T-DM1	242 (91%)	247 (92%)
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%)

***Treatment arms overall balanced***

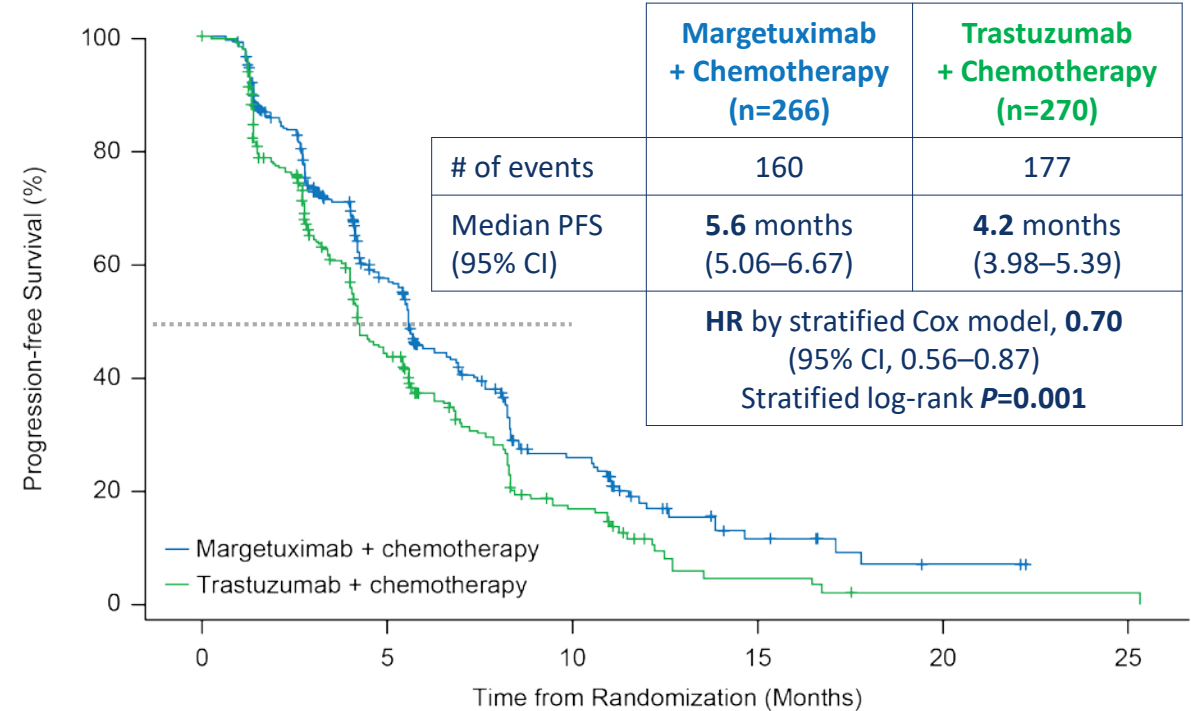
ITT population: N=536.

# PFS Analysis in ITT Population

**24% Risk Reduction of Disease Progression**  
**Central Blinded Analysis (Primary Endpoint)**



**30% Risk Reduction of Disease Progression**  
**Investigator Assessed (Secondary Endpoint)**



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

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	0

- PFS analysis was triggered by last randomization on October 10, 2018, after 265 PFS events occurred

ITT population: N=536. CI=confidence interval.

# PFS Subgroup Analyses

Median PFS (95% CI), Months

Margetuximab +  
Chemotherapy

Trastuzumab +  
Chemotherapy

HR by  
Unstratified  
Cox Model

95% CI

Unstratified  
Log-Rank  
P Value

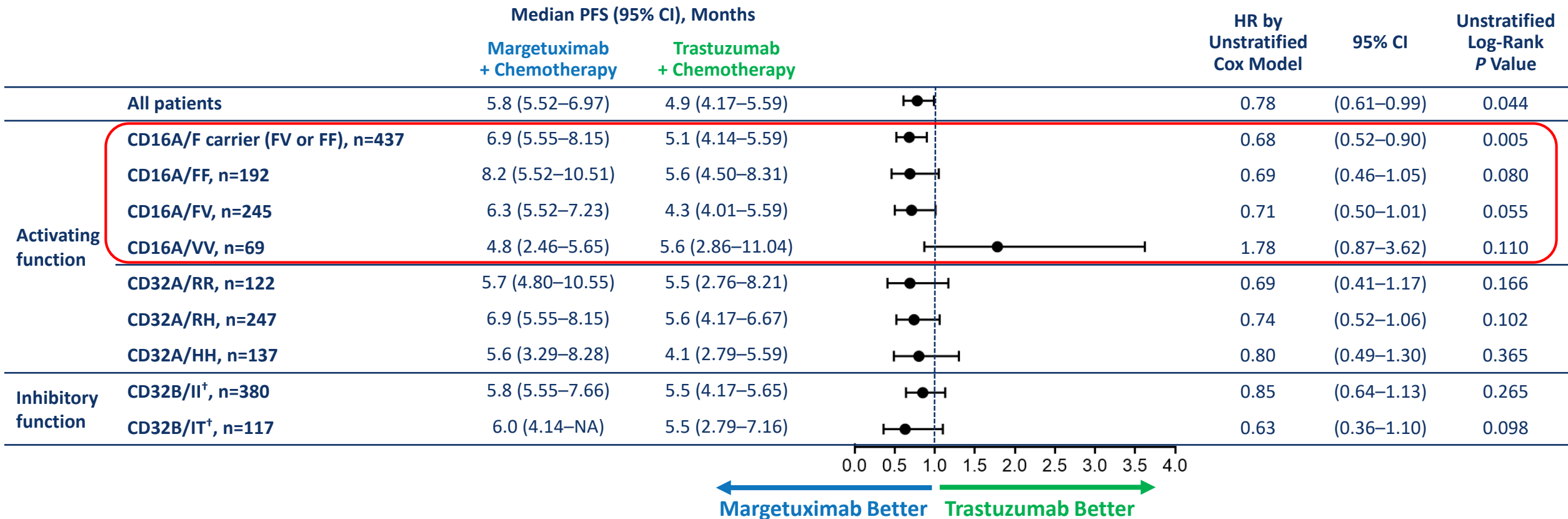
	Margetuximab + Chemotherapy	Trastuzumab + Chemotherapy		HR by Unstratified Cox Model	95% CI	Unstratified Log-Rank P Value
All patients, n=536	5.8 (5.52–6.97)	4.9 (4.17–5.59)		0.78	(0.61–0.99)	0.044
Capecitabine, n=143	8.3 (5.55–11.50)	5.5 (4.17–8.28)		0.77	(0.47–1.26)	0.302
Eribulin, n=136	6.0 (3.81–8.05)	4.2 (3.38–5.55)		0.66	(0.42–1.05)	0.080
Gemcitabine, n=66	5.4 (4.07–11.01)	3.5 (1.45–7.16)		0.58	(0.29–1.18)	0.128
Vinorelbine, n=191	5.6 (4.24–6.97)	5.1 (3.42–6.67)		0.90	(0.60–1.35)	0.606
>2 metastatic sites, n=254	6.3 (5.42, 8.08)	4.2 (3.38, 5.55)		0.63	(0.44–0.89)	0.009
≤2 metastatic sites, n=282	5.7 (4.47, 6.97)	5.5 (4.24, 5.85)		0.94	(0.67–1.31)	0.702
Hormone Receptor-, n=200	5.8 (4.80, 7.23)	4.2 (2.83, 5.55)		0.58	(0.39–0.86)	0.007
Hormone Receptor+, n=334	5.7 (5.52, 8.18)	5.5 (4.24, 7.03)		0.88	(0.64–1.19)	0.393
HER2 IHC 3+, n=291	6.9 (5.55, 8.31)	5.6 (3.98, 5.85)		0.64	(0.46–0.90)	0.011
HER2 ISH amplified, n=245	5.5 (4.01, 6.60)	4.6 (4.07, 5.55)		1.01	(0.71–1.42)	0.972
Age >60 years, n=170	6.9 (5.52, 10.51)	5.6 (4.14, 5.85)		0.58	(0.36–0.92)	0.020
Age ≤60 years, n=366	5.6 (4.24, 6.97)	4.6 (4.01, 5.59)		0.87	(0.66–1.16)	0.337
Prior (neo)adjuvant Tx: yes, n=303	6.3 (5.55–8.05)	5.4 (4.01–5.59)		0.67	(0.48–0.93)	0.014
Prior (neo)adjuvant Tx: no, n=233	5.6 (3.71–6.97)	4.9 (4.07–7.16)		0.99	(0.68–1.42)	0.935



Hormone receptor positive=ER+ and/or PgR+; hormone receptor negative=ER- and PgR-; IHC=immunohistochemistry; ISH=in situ hybridization; Tx=treatment.

# Planned\* Exploratory PFS Analyses by FcγR Genotypes (CBA)

*Margetuximab benefit appears to be increased in low-affinity CD16A-158F allele carriers*



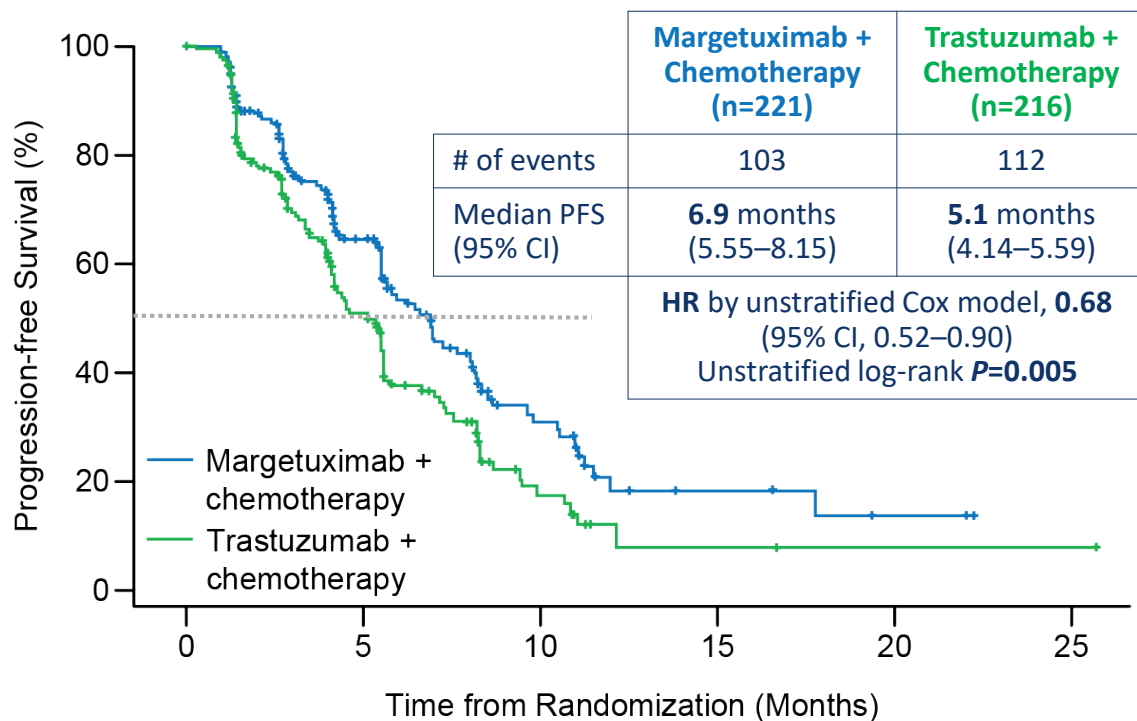
\*Non-alpha allocating, exploratory analysis.

†CD32B/TT not included on forest plot because n=9 is too small (5 on margetuximab, 4 on trastuzumab) to make analysis meaningful.

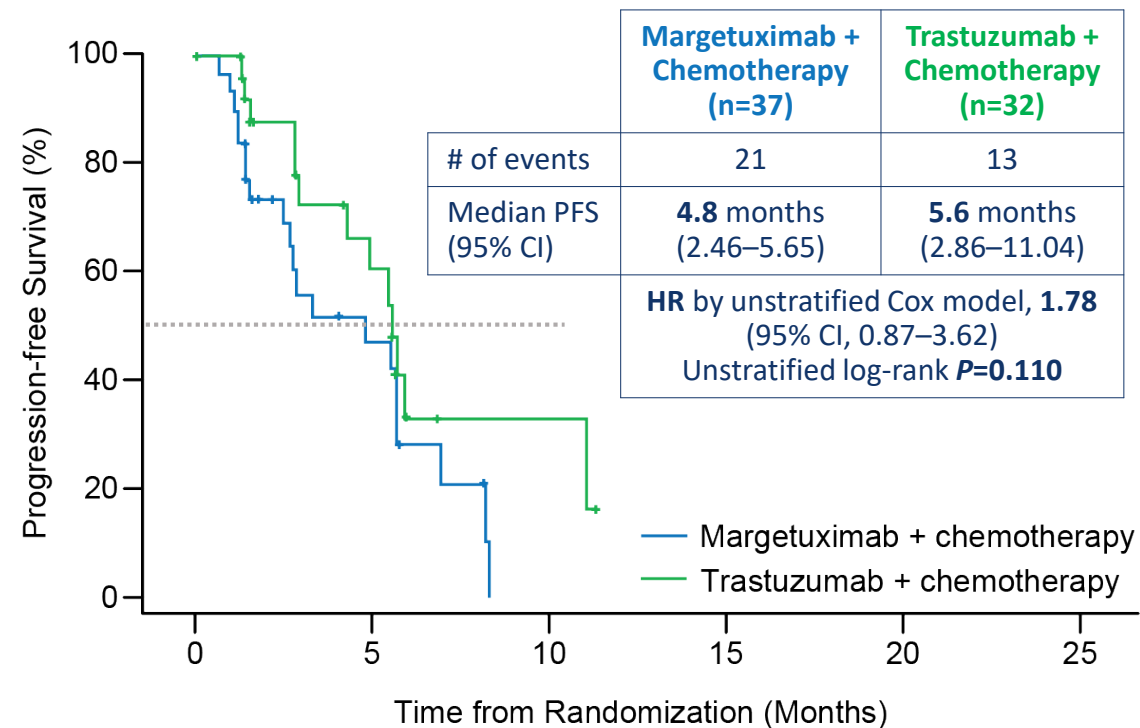
# Planned Exploratory PFS Analysis by CD16A Genotype, by CBA

506 patients genotyped (94%)

## FF or FV, n=437 of 506 (86%)



## VV, n=69 of 506 (14%)



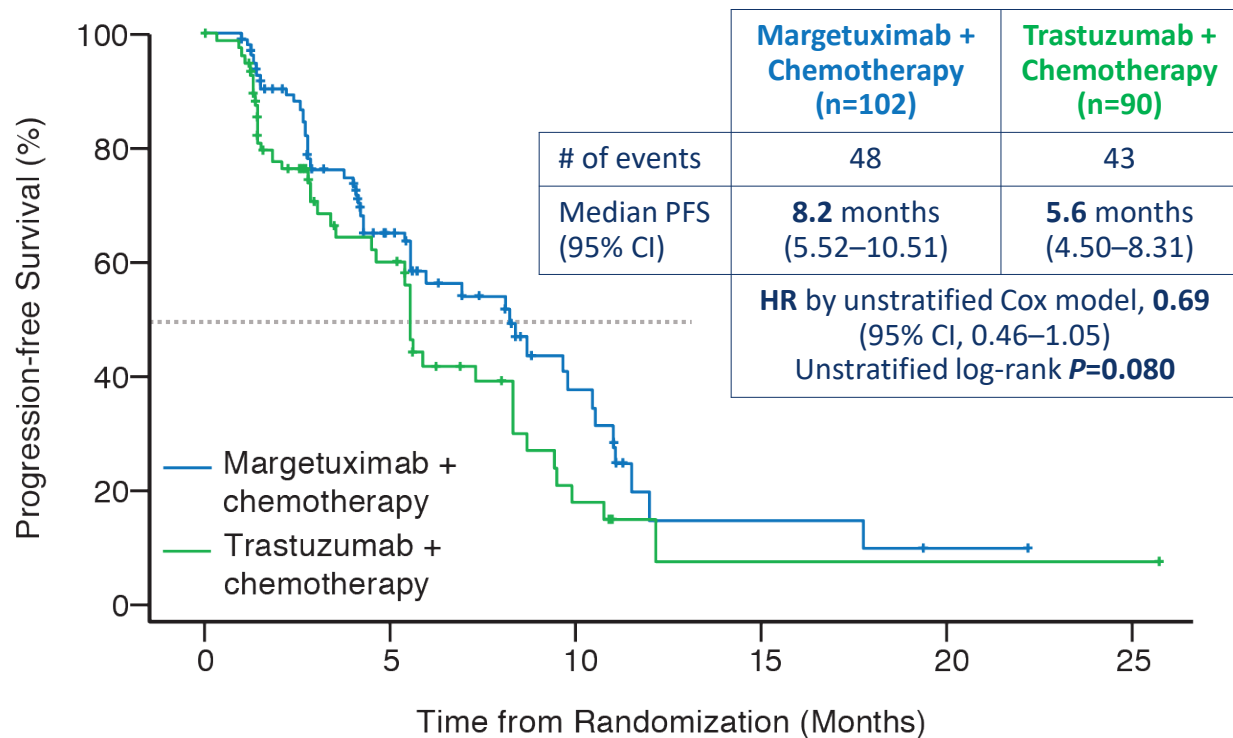
Margetuximab	221	157	84	42	21	8	6	4	2	0
Trastuzumab	216	129	62	30	11	2	2	1	1	1

Margetuximab	37	16	10	3	0	
Trastuzumab	32	18	10	2	2	0

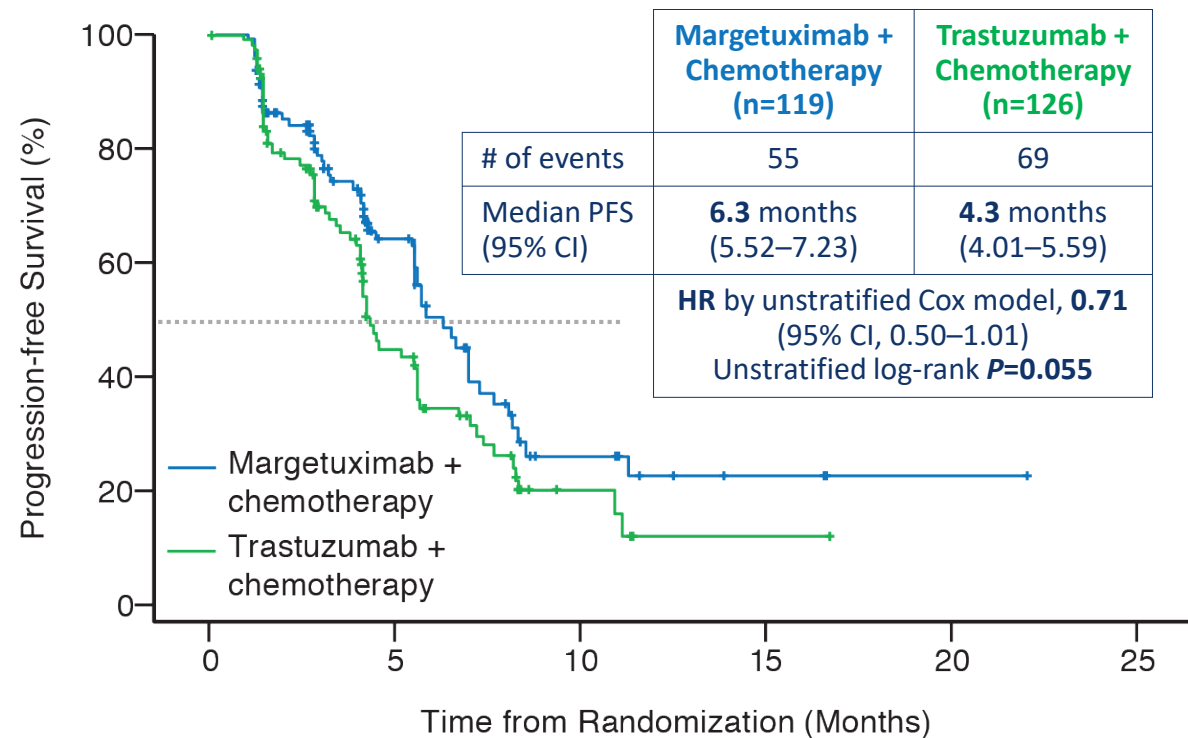
# Planned Exploratory PFS Analysis by CD16A Genotype, by CBA

506 patients genotyped (94%)

FF, n=192 of 506 (38%)



FV, n=245 of 506 (48%)

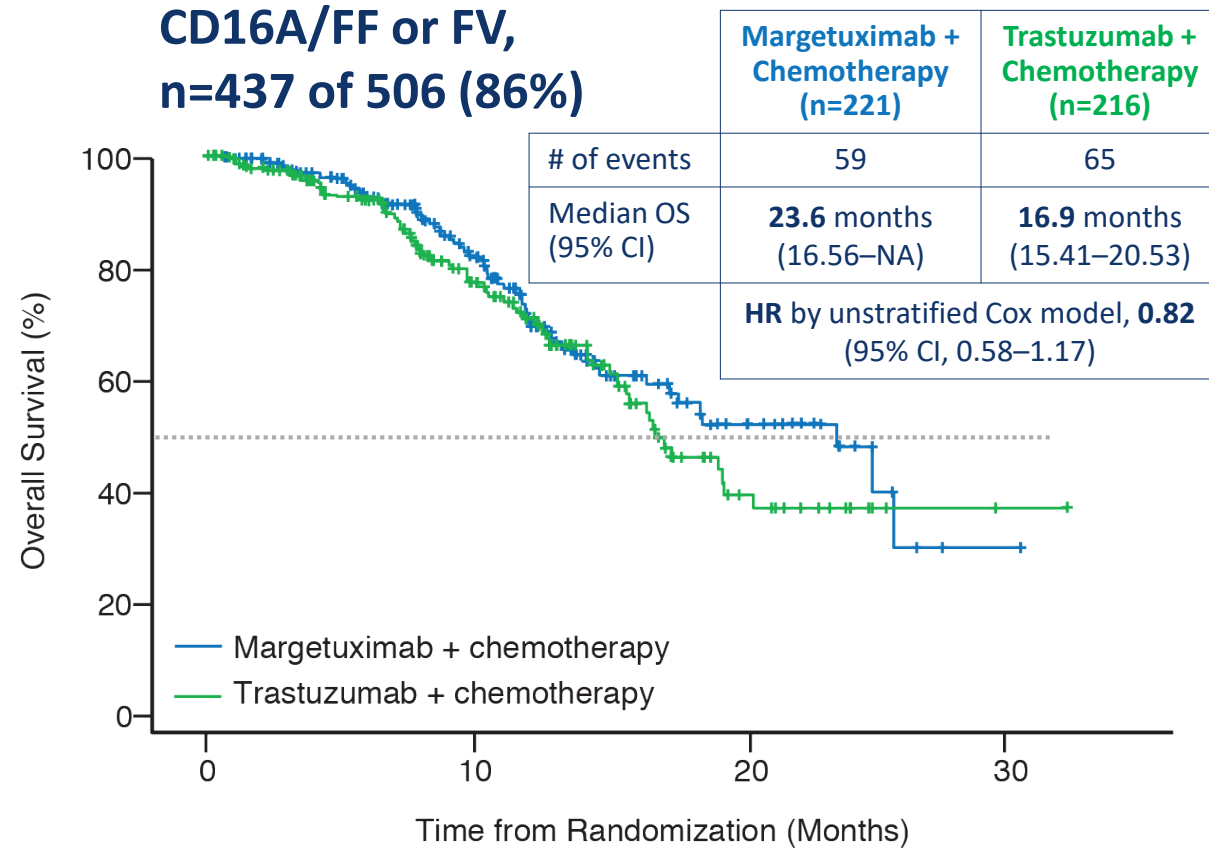
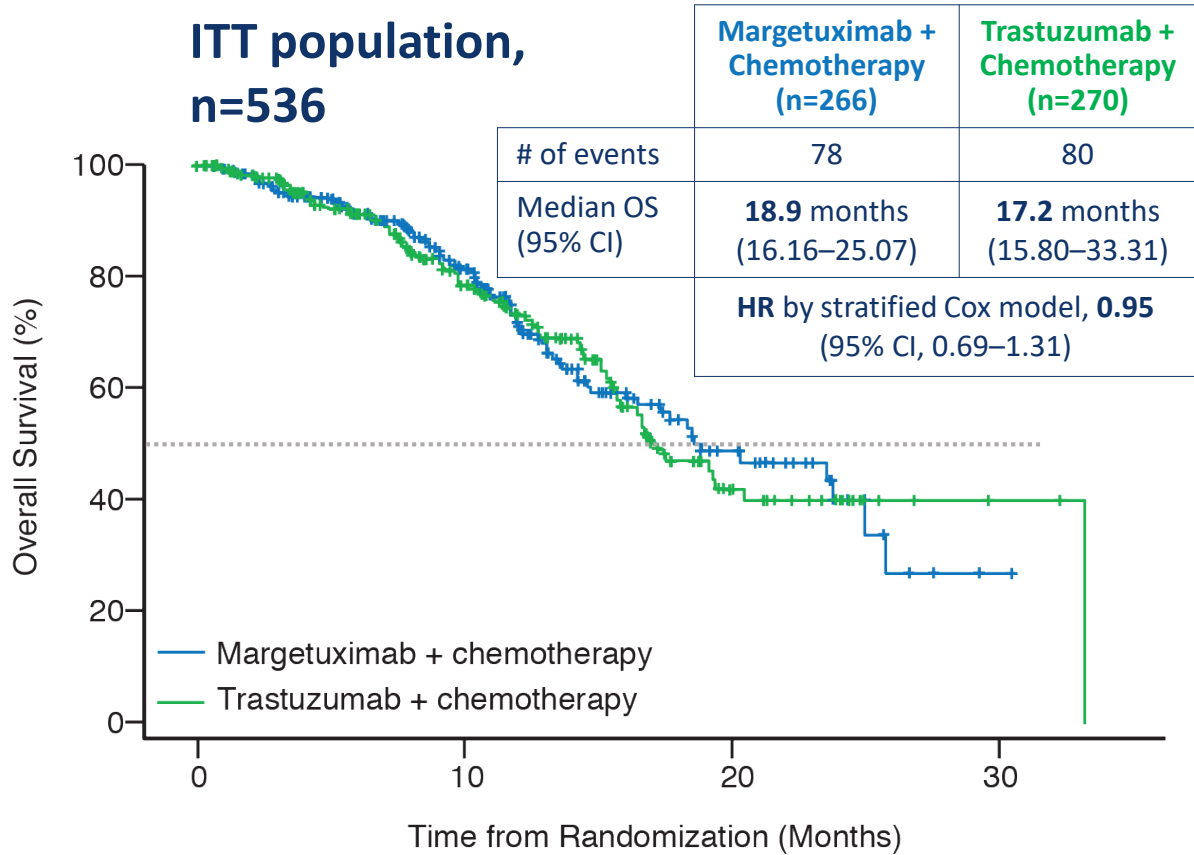


Margetuximab	102	75	41	23	12	3	3	3	1	0
Trastuzumab	90	49	29	14	6	1	1	1	1	1

Margetuximab	119	82	42	19	9	5	3	1	1	0
Trastuzumab	126	80	33	16	5	1	1	0		

# October 2018 Interim OS\* for ITT vs CD16A-158F Carriers

158 (41%) of 385 events needed for final OS analysis



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	221	207	179	147	104	69	46	34	24	15	7	2	1	0
Trastuzumab	216	189	153	130	95	71	48	26	17	10	4	2	1	0

\*First interim overall OS analysis at time of PFS analysis (Oct 10, 2018) was immature with 41% of 385 deaths needed for final OS analysis; stopping boundary was not crossed. Second interim OS analysis will occur after 270 deaths. Final OS analysis will occur after 385 deaths. NA=not achieved.

# Overall Response and Clinical Benefit Rates Complement PFS

	Margetuximab + Chemotherapy (n=262)	Trastuzumab + Chemotherapy (n=262)	P Value
<b>Objective Response Rate</b> (CR+PR), n (%) [95% CI]	58 ( <b>22.1%</b> ) [17.3–27.7]	42 ( <b>16.0%</b> ) [11.8–21.0]	0.060*
<b>Clinical Benefit Rate</b> (CR+PR+SD>6 months), n (%) [95% CI]	96 ( <b>36.6%</b> ) [30.8–42.8]	65 ( <b>24.8%</b> ) [19.7–30.5]	0.003*
<b>Best Overall Response, n (%)</b>			
Complete Response	7 (2.7%)	4 (1.5%)	
Partial Response	51 (19.5%)	38 (14.5%)	
Stable Disease	149 (56.9%)	147 (56.1%)	
Progressive Disease	35 (13.4%)	46 (17.6%)	
Not Evaluable/Not Available	20 (7.6%)	27 (10.3%)	
<b>Duration of Response</b> (CR, PR), median months (95% CI)	6.1 (4.11–9.13)	6.0 (4.01–6.93)	0.541 <sup>†</sup>

Response evaluable population (randomized patients with baseline measurable disease): N=524.

\*Stratified Mantel-Haenszel test P value (2-sided). <sup>†</sup>Unstratified log-rank P value (2-sided).



# Summary of Adverse Events (AEs)

*Similar overall safety profiles*

	<b>Margetuximab + Chemotherapy (n=264)</b>	<b>Trastuzumab + Chemotherapy (n=265)</b>
<b>Any grade AE, n (%)</b>	258 (97.7)	255 (96.2)
<b>Grade <math>\geq</math>3 AE, n (%)</b>	138 (52.3)	128 (48.3)
<b>SAE, n (%)</b>	39 (14.8)	46 (17.4)
<b>AE leading to treatment discontinuation, n (%)</b>	8 (3.0)	7 (2.6)
<b>AEs resulting in death,* n (%)</b>	2 (0.8) <sup>†</sup>	2 (0.8) <sup>‡</sup>

Safety Population (randomized patients who received any study treatment): N=529.

\*No AEs resulting in death were considered related to anti-HER2 study therapy.

<sup>†</sup>Pneumonia (n=1), pneumonia aspiration (n=1).

<sup>‡</sup>Pneumonia (n=1), acute kidney injury (n=1).

SAE=serious AE.

# AEs Regardless of Causality

Most common AEs, n (%)	Margetuximab + Chemotherapy (n=264)		Trastuzumab + Chemotherapy (n=265)	
	All Grade*	Grade ≥3 <sup>†</sup>	All Grade*	Grade ≥3 <sup>†</sup>
Fatigue	103 (39.0)	12 (4.5)	92 (34.7)	7 (2.6)
Nausea	81 (30.7)	3 (1.1)	84 (31.7)	1 (0.4)
Neutropenia	73 (27.7)	51 (19.3)	51 (19.2)	30 (11.3)
Diarrhea	59 (22.3)	6 (2.3)	62 (23.4)	5 (1.9)
Anemia	48 (18.2)	12 (4.5)	55 (20.8)	17 (6.4)
Neutrophil count decreased	32 (12.1)	22 (8.3)	35 (13.2)	25 (9.4)
Febrile neutropenia	8 (3.0)	8 (3.0)	12 (4.5)	12 (4.5)
<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>‡</sup>	<b>34 (12.9)</b>	<b>4 (1.5)</b>	<b>10 (3.8)</b>	<b>0</b>
Left ventricular dysfunction	6 (2.3)	3 (1.1)	7 (2.6)	1 (0.4)
<b>Discontinuation due to IRRs, n (%)</b>	<b>3 (1.1)</b>	<b>2 (0.8)</b>	<b>0</b>	<b>0</b>

Safety Population: N=529.

\*Incidence ≥20% in either treatment group.

<sup>†</sup>Incidence ≥5% in either treatment group.

<sup>‡</sup>All patients received prior trastuzumab. In pivotal trials of trastuzumab, IRRs occurred in 21% to 40% of patients (US package insert).

# Conclusions

- Margetuximab is a novel Fc-engineered HER2 targeted antibody that stimulates mechanisms of both innate and adaptive immunity
- In patients with HER2+ MBC progressing after trastuzumab, pertuzumab, chemotherapy, and T-DM1:
  - Margetuximab plus chemotherapy improved PFS (CBA: HR=0.76,  $P=0.033$ ; Inv: HR=0.70,  $P=0.001$ ), ORR, and CBR, compared with trastuzumab plus chemotherapy
- This is the first prospective analysis of CD16A genotype as predictor of efficacy from anti-HER2 therapy
  - Enhanced PFS benefit with margetuximab in exploratory subpopulation of low-affinity CD16A-158F carriers (HR=0.68,  $P=0.005$ )
- Acceptable safety, similar to trastuzumab<sup>1</sup>
  - Increased IRRs (primarily low grade) on margetuximab (13% vs 4%), managed with premedications
- Next milestone: second interim OS analysis, expected late 2019

IRR=infusion-related reaction. 1. Thompson LM, et al. *Oncologist*. 2014;19(3):228-234.

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