

# Highlights of the Year 2023 : MBC

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# Disclosures

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**Advisory role: Amgen, AstraZeneca, Bayer, Daiichi, Eisai, Genomic Health, Hengrui, Innate, Ipsen, Leo Pharma, Lilly, Merck, MSD, Novartis, Pfizer, Seattle Genetics, Menarini**

**Speaker fees: Amgen, AstraZeneca, Bayer, Daiichi, Eisai, Genomic Health, Ipsen, Leo Pharma, Lilly, Merck, MSD, Novartis, Pfizer, Seattle Genetics**

**Research grants to my Institute: BMS, Roche**

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# Plan of the Talk



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- ◆ **CDK 4/6i and beyond in the management of HR+/HER2 non amplified**
- ◆ **Triple positive MBC (including HR+/HER2 low)**
- ◆ **HER2 amplified tumors**
- ◆ **Triple negative MBC**
- ◆ **Conclusions and perspectives**



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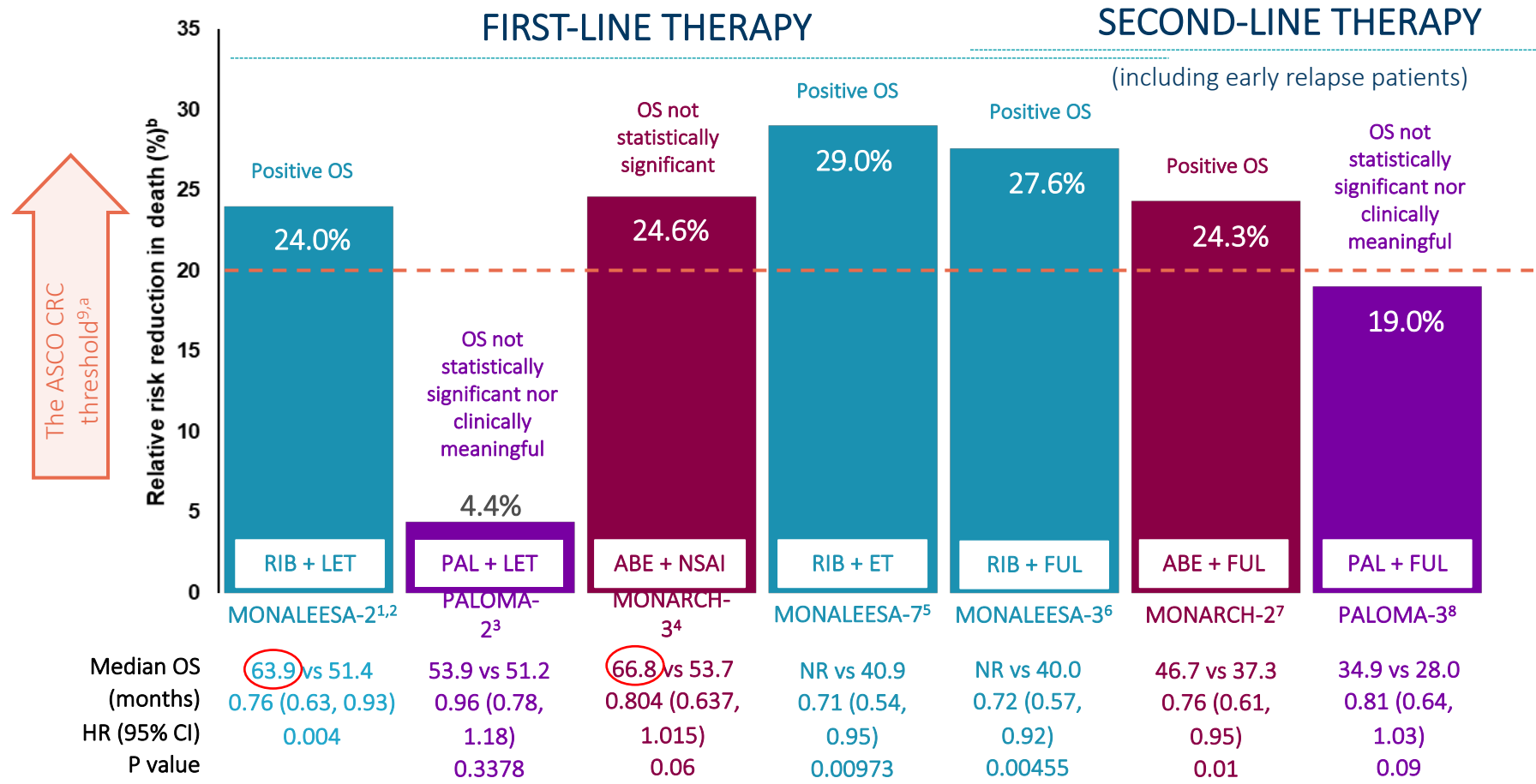


# Luminal MBC



# Ribociclib and abemaciclib but not palbociclib have demonstrated a consistent significant OS benefit across phase 3 studies (although HR for PFS was the same)

Comparisons cannot be made in the absence of well-controlled, head-to-head studies



<sup>a</sup>The ASCO Cancer Research Committee defined incremental improvements in HR of OS  $\geq 20\%$  over standard therapy as a clinically meaningful outcome; the magnitude of benefit is based on hazard ratios and refers to the proportional improvement achieved with the addition of CDK4/6 inhibitors in comparison to the respective control groups. <sup>b</sup> As measured by 1 minus HR multiplied by 100. <sup>c</sup> P value did not reach threshold for statistical significance at this interim analysis of MONARCH 3. ABE, abemaciclib; ASCO, American Society of Clinical Oncology; CI, confidence interval; CRC, colorectal cancer; ET, endocrine therapy; FUL, fulvestrant; HR, hazard ratio; LET, letrozole; NSAI, non-steroidal aromatase inhibitor; OS, overall survival; PAL, palbociclib; PFS, progression free survival; RIB, ribociclib.  
 1. Hortobagyi GN, et al. *N Engl J Med.* 2022;386:942-950; 2. Hortobagyi GN, et al. *ESMO* 2021. Oral LBA17\_PR; 3. Finn RS, et al. *ASCO* 2022. LBA1003; 4. Goetz, et al. *ESMO* 2022. LBA15; 5. Im SA, et al. *N Engl J Med.* 2019;38:307-316.; 6. Slamon DJ, et al. *N Engl J Med.* 2020;382:514-524; 7. Sledge GW, et al. *JAMA Oncol.* 2020;6:116-124; 8. Turner NC, et al. *N Engl J Med.* 2018;15:379:1926-1936; 9. Ellis LM, et al. *J Clin Oncol.* 2014;32:1277-80.



# First-line therapies for advanced luminal breast cancer: Important clinical questions and answers



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- 1. Should CDK4/6 inhibitors be used as first-line or later line therapy? → **First-line (challenged by SONIA trial)<sup>1</sup>**
- 2. Which ET should be prescribed in first-line in combination with a CDK4/6i? (PARSIFAL: AI = fulvestrant ± palbociclib) → **AI whenever possible**
- 3. In the presence of non-life-threatening visceral disease (lung + liver) which treatment strategy should be used? (ET + CDK4/6i or chemotherapy) → **ET + CDK4/6i**
- 4. In the presence of aggressive/life-threatening visceral disease which treatment strategy should be used? (ET + ribociclib or combination chemotherapy) → **ET + ribociclib with a close follow-up (RIGHT Choice trial)<sup>2</sup>**
- 5. Efficacy of CDK4/6i in gBRACA-mutated tumors ? → **Less efficacy**

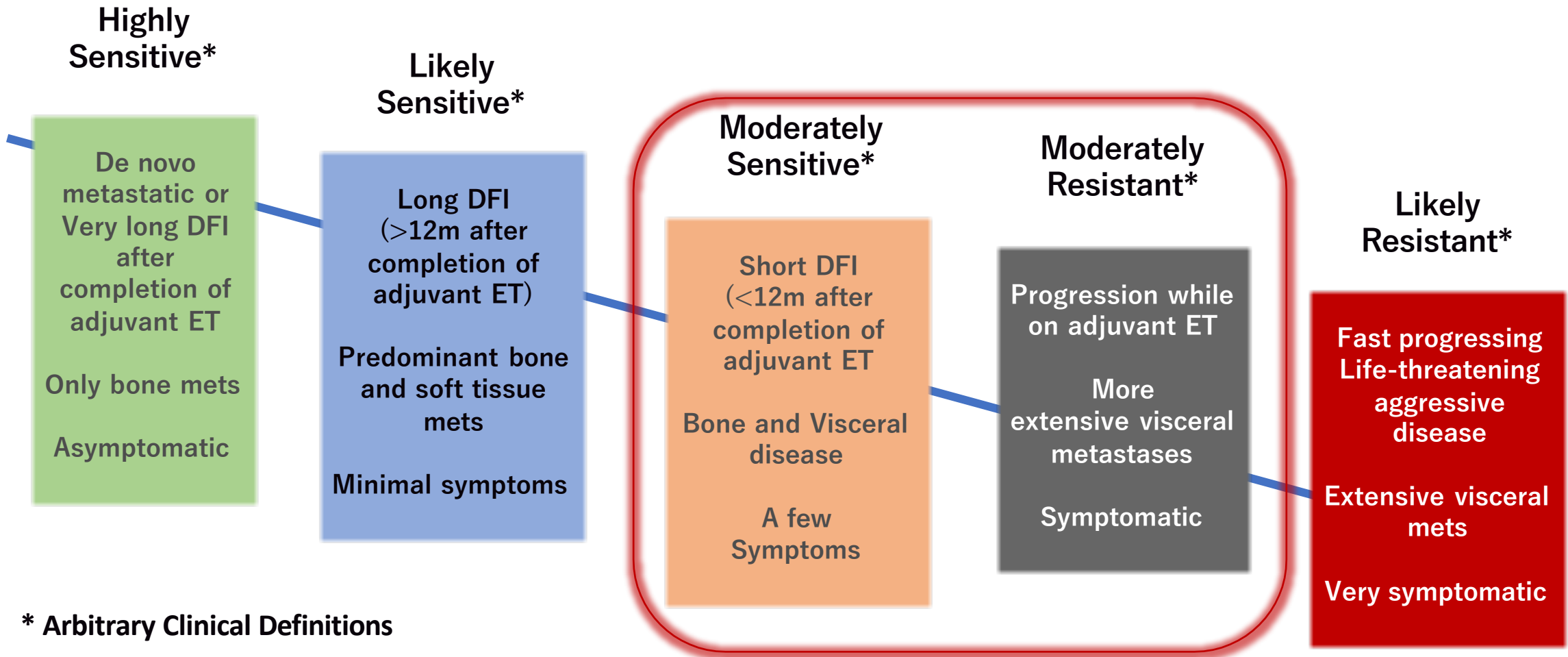
AI, aromatase inhibitor; CDK4/6, cyclin-dependent kinase 4/6; ET, endocrine therapy.

1. Sonke GS, et al. *J Clin Oncol* 2023;41:LBA1000; 2. El Saghir NS, et al. *J Clin Oncol* 2023;41:1063.



# Clinical Spectrum of HR+ Disease

*(considering endocrine sensitivity)*





# INAVO120 study design



## Key eligibility criteria

### Enrichment of patients with poor prognosis:

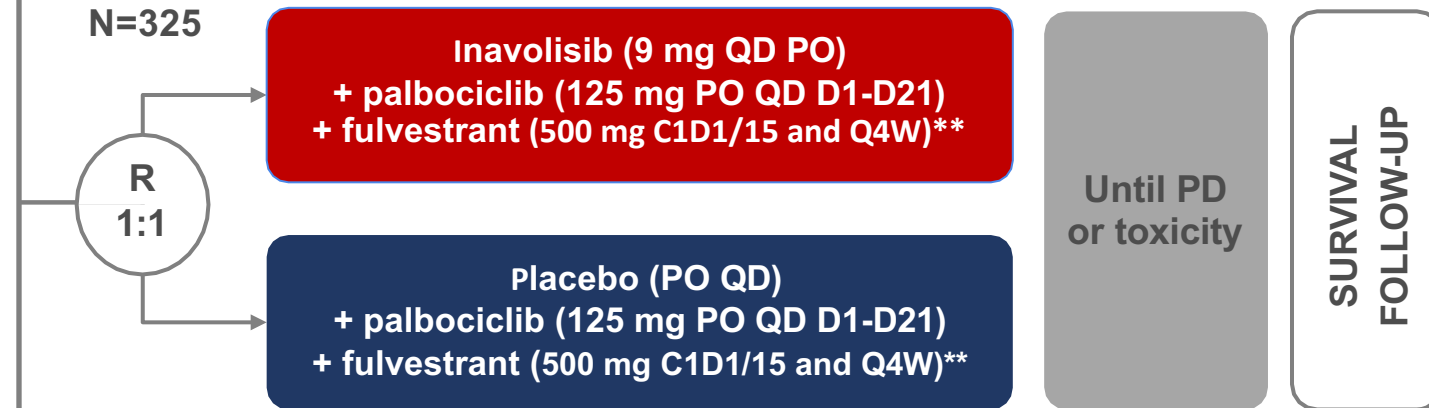
- **PIK3CA**-mutated, HR+, HER2- ABC by central ctDNA\* or local tissue/ctDNA test
- Measurable disease
- Progression during/within 12 months of adjuvant ET completion
- No prior therapy for ABC
- Fasting glucose <126 mg/dL and HbA<sub>1c</sub> <6.0%

### Stratification factors:

- Visceral Disease (Yes vs. No)
- Endocrine Resistance (Primary vs. Secondary)<sup>†</sup>
- Region (North America/Western Europe; Asia; Other)

\* Central testing for *PIK3CA* mutations was done on ctDNA using FoundationOne®Liquid (Foundation Medicine). In China, the central ctDNA test was the PredicineCARE NGS assay (Huidu). <sup>†</sup> Defined per 4th European School of Oncology (ESO)–European Society for Medical Oncology (ESMO) International Consensus Guidelines for Advanced Breast Cancer. <sup>1</sup> Primary: relapse while on the first 2 years of adjuvant ET; Secondary: relapse while on adjuvant ET after at least 2 years or relapse within 12 months of completing adjuvant ET. <sup>‡</sup> OS testing only if PFS is positive; interim OS analysis at primary PFS analysis; \*\*Pre-menopausal women received ovarian suppression. ctDNA, circulating tumor DNA; R, randomized. 1. Cardoso F, et al. *Ann Oncol* 2018;**29**:1634–1657.

Enrolment period: December 2019-September 2023



## Endpoints

- **Primary: PFS by Investigator**
- **Secondary: OS<sup>‡</sup>, ORR, BOR, CBR, DOR, PROs**

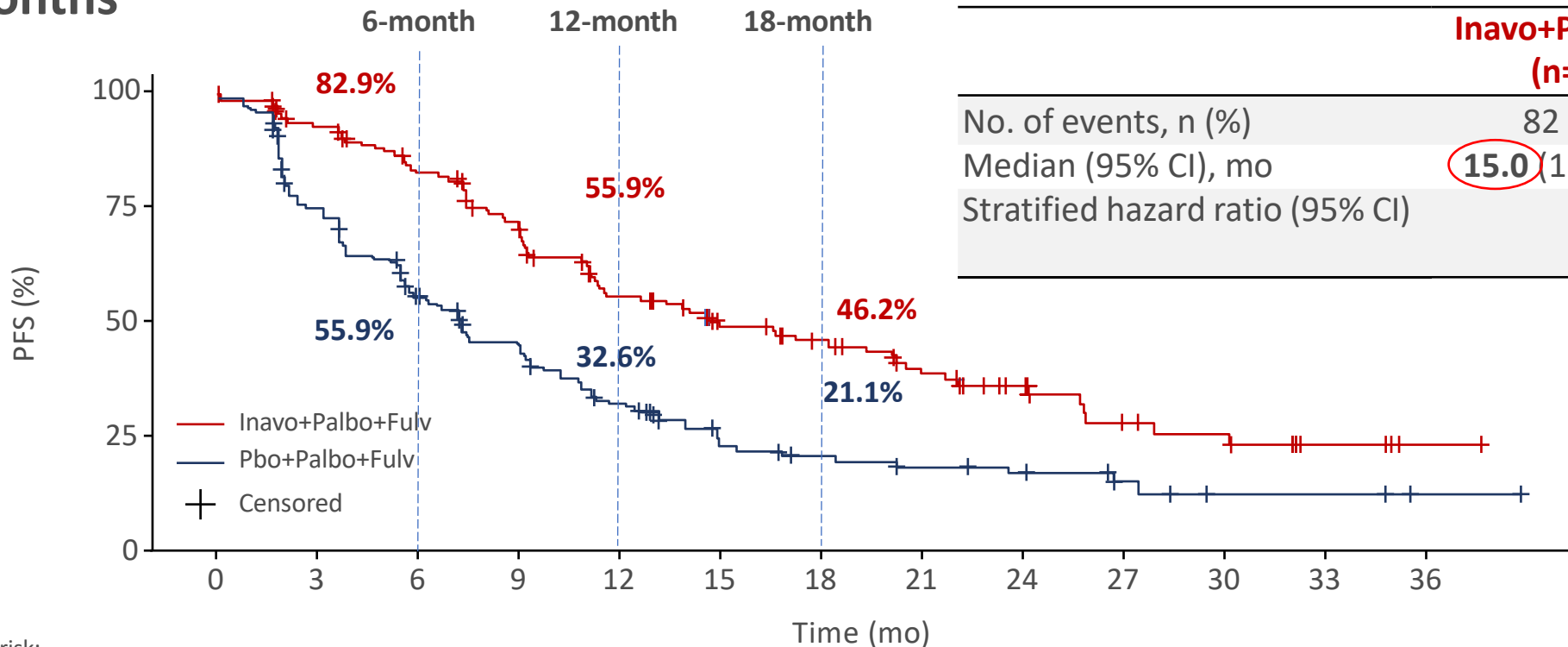




# Primary endpoint: PFS (investigator assessed)



Median follow-up: **21.3 months**



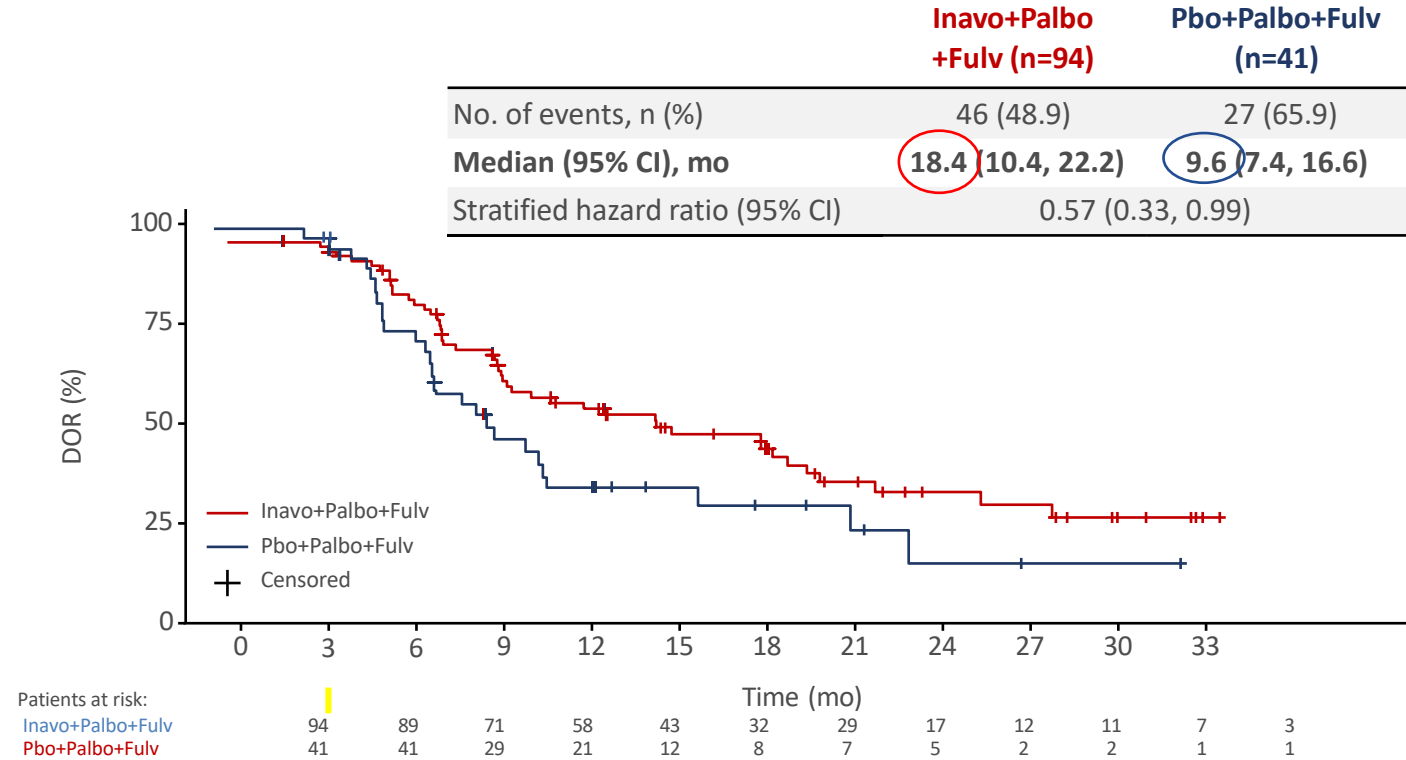
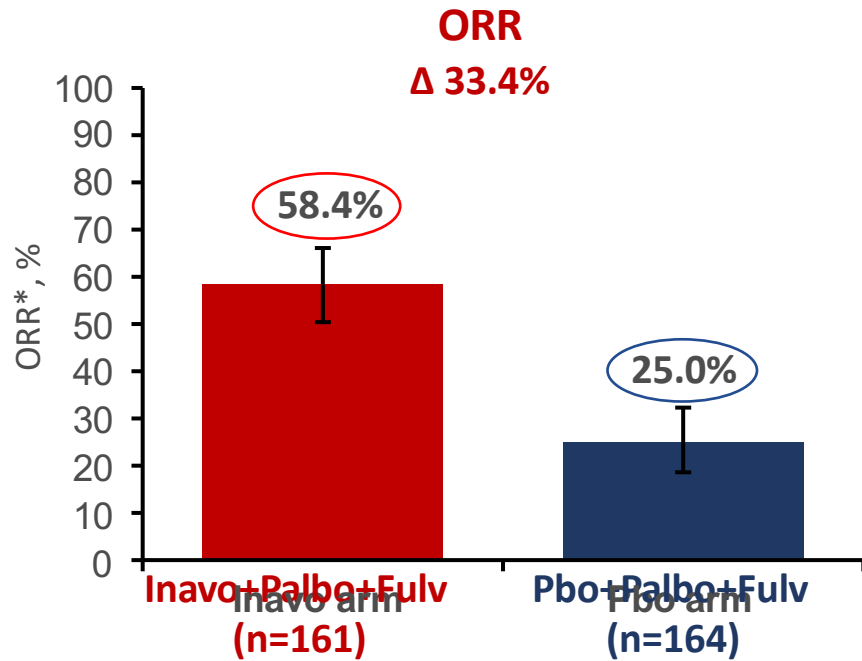
	<b>Inavo+Palbo+Fulv (n=161)</b>	<b>Pbo+Palbo+Fulv (n=164)</b>
No. of events, n (%)	82 (50.9)	113 (68.9)
Median (95% CI), mo	<b>15.0</b> (11.3, 20.5)	<b>7.3</b> (5.6, 9.3)
Stratified hazard ratio (95% CI)	<b>0.43 (0.32, 0.59)</b>	
	<b>p&lt;0.0001</b>	

Patients at risk:	0	3	6	9	12	15	18	21	24	27	30	33	36
<b>Inavo+Palbo+Fulv</b>	161	134	111	92	66	48	41	31	22	13	11	5	1
<b>Pbo+Palbo+Fulv</b>	164	113	77	59	40	23	19	16	12	6	3	3	1

CCOD: 29th September 2023

CI, confidence interval; Fulv, fulvestrant; Inavo, inavolisib; mo, months; Palbo, palbociclib; Pbo, placebo; PFS, progression-free survival.

# ORR and DOR





# Adverse events with any grade AEs $\geq 20\%$ incidence in either treatment group

Adverse Events	Inavo+Palbo+Fulv (N=162)		Pbo+Palbo+Fulv (N=162)	
	All Grades	Grade 3-4	All Grades	Grade 3-4
<b>Neutropenia</b>	<b>144 (88.9%)</b>	<b>130 (80.2%)</b>	<b>147 (90.7%)</b>	<b>127 (78.4%)</b>
Thrombocytopenia	78 (48.1%)	23 (14.2%)	73 (45.1%)	7 (4.3%)
Stomatitis/Mucosal inflammation	83 (51.2%)	9 (5.6%)	43 (26.5%)	0
Anemia	60 (37.0%)	10 (6.2%)	59 (36.4%)	3 (1.9%)
<b>Hyperglycemia</b>	<b>95 (58.6%)</b>	<b>9 (5.6%)</b>	<b>14 (8.6%)</b>	<b>0</b>
<b>Diarrhea</b>	<b>78 (48.1%)</b>	<b>6 (3.7%)</b>	<b>26 (16.0%)</b>	<b>0</b>
Nausea	45 (27.8%)	1 (0.6%)	27 (16.7%)	0
<b>Rash</b>	<b>41 (25.3%)</b>	<b>0</b>	<b>28 (17.3%)</b>	<b>0</b>
Decreased Appetite	38 (23.5%)	<2%	14 (8.6%)	<2%
Fatigue	38 (23.5%)	<2%	21 (13.0%)	<2%
COVID-19	37 (22.8%)	<2%	17 (10.5%)	<2%
Headache	34 (21.0%)	<2%	22 (13.6%)	<2%
Leukopenia	28 (17.3%)	11 (6.8%)	40 (24.7%)	17 (10.5%)
<b>Ocular Toxicities</b>	<b>36 (22.2%)</b>	<b>0</b>	<b>21 (13.0%)</b>	<b>0</b>

Key AEs are shown in **bold**. AEs were assessed per CTCAE V5. Neutropenia, thrombocytopenia, stomatitis/mucosal inflammation, anemia, hyperglycemia, diarrhea, nausea and rash were assessed as medical concepts using grouped terms

AE, adverse event; ALT, alanine aminotransferase; AST, aspartate aminotransferase; Fulv, fulvestrant; Inavo, inavolisib; Palbo, palbociclib; Pbo, placebo.

Jhaveri K, et al. SABCS 2023



# Advanced luminal breast cancer beyond PD on ET + CDK4/6 inhibitor: Important clinical questions and answers

- **1. What is the role of tissue or liquid biopsy and NGS and when to test for predictive biomarkers (*PIK3CA*, *ESR1* and *BRCA* mutations and *AKT* alterations)** → After 1<sup>st</sup> line and after exposure to AI<sup>1</sup> (ESMO): Challenged by INAVO120 trial
- **2. Should CDK4/6i rechallenge be offered in patients pretreated with a CDK4/6i?** → Early data available (MAINTAIN, PACE and PALMIRA trials)<sup>2-4</sup>
- **3. What is the role of SERDs (e.g., elacestrant,...) in such patients?** → Emerald trial
- **4. What is the setting for exemestane + everolimus therapy?** → Later line endocrine therapy<sup>5</sup> (Retrospective trials)
- **5. What is the efficacy of a *PIK3CA* inhibitor in patients with *PIK3CA*-mut, pretreated with CDK4/6i?** → Phase 3 Study ongoing
- **6. What is the role of ADCs and PARPi (*BRCA*-mut tumors)?**

ADC, antibody-drug conjugate; AI, aromatase inhibitor; CDK4/6, cyclin-dependent kinase 4/6; NGS, next generation sequencing; SERD, selective estrogen receptor degrader.

1. Pascual J et al. *Ann Oncol* 2022;33:750–768; 2. Kalinsky K et al. *J Clin Oncol* 2023;41:4004–4013; 3. Mayer EL et al. SABCs 2022. Oral GS3-06; 4. Llombart-Cussac A et al. *J Clin Oncol* 2023;41:S1001–S1001; 5. Rozenblit M et al. *Breast Cancer Res* 2021;23:14.



# Post CDK4/6 inhibitors: Proposed Therapeutic Algorithm

**Key considerations**

- Prior ET
- Type and response to prior CDK4/6i
- Prior ChT
- Germline or somatic mutations
- CTC/tumor load

**Monarch E/NATALEE**

AI + CDK4/6i (adjuvant/  
recurrence on or within 6  
months/1 year of stopping  
CDK4/6i)

- 1. Mild PD tumor response to palbociclib → FUL + RIBO (or Abema) – select patients (Maintain)
- 2. *ESR1* mutation (12 months prior CDK4/6i) → ELA (Emerald)(FUL + CDK4/6i if no PD on AI +CDK4/6i(PADA))
- 3. *PIK3CA* mutation → FUL + alpelisib (Bylieve)
- 4. *AKT* mutation → FUL + capivasertib (CAPitello)
- 5. *gBRCA* mutation → PARPi (OlympiAD; EMBARCA)
- 6. No mutations, response to prior ET → Everolimus + exemestane (Retrospective data)
- 7. Imminent organ failure → Chemotherapy (including ADCs)
- 8. *HER2* low, ET failure → T-Dxd (DESTINY-B04)
- 9. *HER2* 0, ET failure → Sacituzumab govitecan (Tropics02)  
→ Datopotomab-deruxtecan (Tropion B01)

AI, aromatase inhibitor; ADC, antibody-drug conjugate; CDK4/6i, cyclin-dependent kinase 4/6 inhibitor; ChT, chemotherapy; CTC, circulating tumor cells; ELA, elacestrant; ET, endocrine therapy; FUL, fulvestrant; *HER2*, human epidermal growth factor receptor 2; PARPi, poly ADP ribose polymerase inhibitor; PD, progressive disease; RIBO, ribociclib; T-Dxd; trastuzumab deruxtecan.  
PADA trial – find reference



# Role of ADCs in HR+ Advanced Breast Cancer



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	Destiny B04	Tropion B01	Tropics 02
<b>ADC</b>	Trastuzumab deruxtecan	Datopotomab deruxtecan	Sacituzumab Govitecan
<b>Payload</b>	Topoisomerase I	Topoisomerase I	Topoisomerase I
<b>Target</b>	HER-2	TROP-2	TROP-2
<b>Drug to Antibody Ratio (DAR)</b>	≈8:1	≈ 4:1	≈7:1
<b>HER2 status</b>	+1, +2	0, +1, +2	0, +1, +2
<b>Prior lines CT</b>	1-2	1-2	2-4
<b>PFS vs. CT (months)</b>	10.1 vs. 5.4 HR 0.51	6.9 vs. 4.9 HR 0.63	5.5 vs. 4.0 HR 0.66
<b>ORR vs. CT (%)</b>	53 vs. 16	36 vs. 23	21 vs. 14
<b>OS vs. CT (months)</b>	23.9 vs. 17.6 HR 0.69	NR (immature)	14.4 vs. 11.2 HR 0.79



# Retrospective studies evaluating ADC sequencing

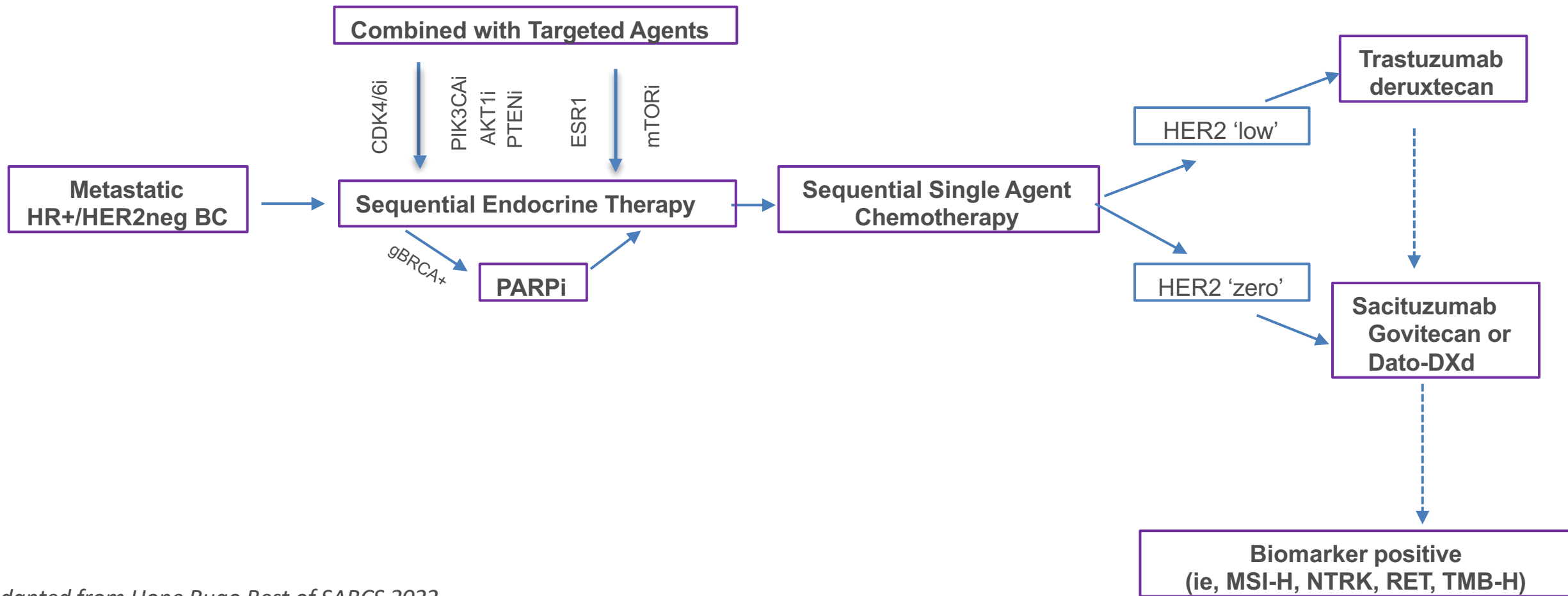


## #SABCS2023

	Population 	ADC 1 	ADC 2 	
Abelman	n=68 HR+: 44%, TNBC: 56% Prior lines of treatment: 3-7	mTTP: 5.4mo	mTTP: 2.5mo	Trop1 variant may drive resistance
Raghavendra	n=33 Subtype data not available	PFS: SG: 4.6 mo. PFS: TDXd: 7.6 mo	PFS SG □ TDXd: 5.5mo PFS TDXd □ SG: 2.4 mo	Suggest superiority of T-DXd but unknown HR status
Huppert	n=84 HR+/HER2-low: 67% HR-/HER2-low: 33% Prior lines of treatment: 2-4.5	TTNT SG □ TDXd: HR+ 8 mo HR- 7.8 mo TTNT TDXd □ SG: HR+ 5.5 mo HR- undetermined	TTNT SG □ TDXd: HR+ 3.7 mo HR- 2.8 mo TTNT TDXd □ SG: HR+ 2.7mo HR- undetermined	All HER2-low expressing Longer PFS with ADC1 than ADC2
Poumeaud	n= 179 HR+/HER2-low: 69% HR-/HER2-low: 31% Prior lines of treatment: 3-5 Prior ADC use: 64% received SG as ADC1	mPFS: 4.5 mo. mPFS HR+/HE2-low: 2.7 mo. (T-DXd) mPFS HR-/HE2-low: 4.9 mo. (SG)	SG-T-DXd- PFS2: 3.1mo. T-DXd-GG: 2.2 mo.	In MV analysis <b>SG --&gt;T-DXd was associated with improved outcomes</b> 50% primary resistance to ADC2



# Treatment Sequencing in HR+/HER2- MBC



Adapted from Hope Rugo Best of SABCS 2022





# Triple Positive MBC (Including HR+/HER2 low)

- ◆ **ASPIRE trial (Frontline setting)**
- ◆ **DESTINY-Breast08 (HER2 low; HR+; no prior CT)**
- ◆ **Zanidatamab-based trial (Prior T, P, T-DM1)**



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# A Multicenter, Phase I/II Trial of Anastrozole, Palbociclib, Trastuzumab, and Pertuzumab in Hormone Receptor (HR)- Positive, HER2-Positive Metastatic Breast Cancer (ASPIRE)

Rima Patel<sup>1</sup>, MD; Krystal Cascetta<sup>1</sup>, MD; Paula Klein<sup>1</sup>, MD; Erin Moshier<sup>1</sup>, BS;  
Maryann Kwa<sup>2</sup>, MD; Julie Fasano<sup>1</sup>, MD; Anupama Goel<sup>1</sup>, MD; Melissa Accordino<sup>3</sup>, MD;  
Charles Shapiro<sup>1</sup>, MD; Rita Vaccaro<sup>1</sup>, RN; Laura Fiedler<sup>1</sup>, MPH; Karen Meyer<sup>1</sup>, PhD;  
Joseph A. Sparano<sup>1</sup>, MD; Amy Tiersten<sup>1</sup>, MD

<sup>1</sup>Icahn School of Medicine at Mount Sinai, New York, NY; <sup>2</sup>New York University Langone Medical Center, New York, NY; <sup>3</sup>Columbia University Medical Center, New York, NY



# Trial Design

**Key Eligibility Criteria**

- Metastatic breast cancer with ER or PR positivity in  $\geq$  1% cells and HER2 positivity
- **No prior systemic therapy for MBC**
- Measurable or evaluable disease including bone metastasis only

## PHASE I N=3-12

**Palbociclib:** PO at increasing doses (100mg, 125mg) on Days 1-21, followed by 7 days off using a 3+3 design

**Anastrozole:** 1mg PO once daily

**Trastuzumab:** 8mg/kg loading dose, followed by 6mg/kg q21 days

**Pertuzumab:** 840mg/kg loading dose, followed by 420mg/kg q21 days

**Primary Endpoint**  
Maximum Tolerated Dose (MTD)

## PHASE II N=30-43

**Palbociclib:** PO at MTD (125mg) on Days 1-21, followed by 7 days off

**Anastrozole:** 1mg PO once daily

**Trastuzumab:** 8mg/kg loading dose, followed by 6mg/kg q21 days

**Pertuzumab:** 840mg/kg loading dose, followed by 420mg/kg q21 days

**Primary Endpoint**

- Clinical benefit rate (CBR): sum of complete response, partial response, and stable disease for  $\geq$  6 months

**Secondary Endpoints**

- Progression free survival (PFS)
- Objective response rate (ORR)
- Safety



# Clinical Response in IIT Cohort

Outcome	Patient Population (N=30)
Clinical benefit rate, % [95% CI]	<b>97%</b> [83, 100], p<0.0001
Objective response rate, % [95% CI]	<b>73%</b> [54, 88]
Complete Response	13% (4)
Partial Response	60% (18)
Stable Disease	23% (7)
Progressive Disease	0% (0)
Unevaluable	3% (1)
Median time to overall response, months [95% CI]	2.8 [2.7, 5.2]
Median duration of response, months [95% CI]	37.8 [14.0, Not Estimable]
Median follow up, months [95% CI]	30.3 [21.86, 52.70]

Phase II portion was powered with 30 patients to show efficacy of combination if CBR exceeded 58%.



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**Trastuzumab deruxtecan (T-DXd) in combination with  
anastrozole or fulvestrant in patients with HER2-low HR+  
advanced/metastatic breast cancer: a Phase 1b, open-label,  
multicenter, dose-expansion study (DESTINY-Breast08)  
#RF02-03**

**Komal Jhaveri,<sup>1</sup>** Fabrice André, Erika Hamilton, Peter Schmid, Carey K Anders,  
Laura Testa, Inna Ganshina, Yen-Shen Lu, Seock-Ah Im, Robyn R Young,  
Magdalena Wrona, Caron Lloyd, Yiwen Zhang, Sherene Loi

**On behalf of the DESTINY-Breast08 investigators**

<sup>1</sup>Memorial Sloan Kettering Cancer Center, New York, NY, US



# Baseline characteristics and patients disposition



	T-DXd + ANA (N=21)	T-DXd + FUL (N=20)
<b>Median age, years (range)</b>	55.0 (29.0–75.0)	65.5 (31.0–73.0)
<b>Female, n (%)</b>	21 (100.0)	20 (100.0)
<b>Race, n (%)</b>		
Asian	11 (52.4)	12 (60.0)
White	10 (47.6)	7 (35.0)
Black or African	0	1 (5.0)
<b>HER2 status, n (%)</b>		
IHC 1+	16 (76.2)	13 (65.0)
IHC 2+/ISH–	5 (23.8)	7 (35.0)
<b>HR status, n (%)</b>		
ER+ and PR+	14 (66.7)	10 (50.0)
ER+ and PR–	7 (33.3)	9 (45.0)
ER+ and PR missing	0	1 (5.0)
<b>ECOG PS, n (%)</b>		
0	12 (57.1)	17 (85.0)
1	8 (38.1)	3 (15.0)
2	1 (4.8)	0
<b>Received no prior line of treatment for mBC, n (%)</b>	7 (33.3)*	6 (30.0)†
<b>Received a prior line as first line for mBC, n (%)</b>	14 (66.7)‡	14 (70.0)§

n (%)	T-DXd + ANA (N=21)	T-DXd + FUL (N=20)
<b>Median duration of follow up, months (range)</b>	20.2 (4.9–24.8)	15.2 (2.2–22.6)
<b>Treatment ongoing</b>	6 (28.6)	7 (35.0)
<b>Patients who discontinued both IPs</b>	15 (71.4)	13 (65.0)
<b>Patients who discontinued T-DXd</b>	15 (71.4)	16 (80.0)
AE	4 (19.0)	6 (30.0)
Subject decision	0 (0)	4 (20.0)
Objective disease progression	8 (38.1)	5 (25.0)
Subjective disease progression	3 (14.3)	2 (10.0)
<b>Patients who discontinued ET</b>	15 (71.4)	13 (65.0)

All patients received study drug

As of August 16, 2023, **6 patients (28.6%) in the T-DXd + ANA arm and 7 patients (35.0%) in the T-DXd + FUL arm were ongoing study treatment**

**Disease progression was the leading reason for treatment discontinuation in both arms**

\*7 patients had de-novo mBC, †3 patients had de-novo mBC, ‡All patients received hormonal therapy with a targeted therapy, §11 patients received hormonal therapy with a targeted therapy and three received hormonal therapy alone  
ER, estrogen receptor, IP, investigational product, PR, progesterone receptor

and three had de-novo mBC. †All patients received hormonal therapy with a targeted therapy. ‡11 patients received hormonal therapy with a targeted therapy and three received hormonal therapy alone. §11 patients received hormonal therapy with a targeted therapy and three received hormonal therapy alone.

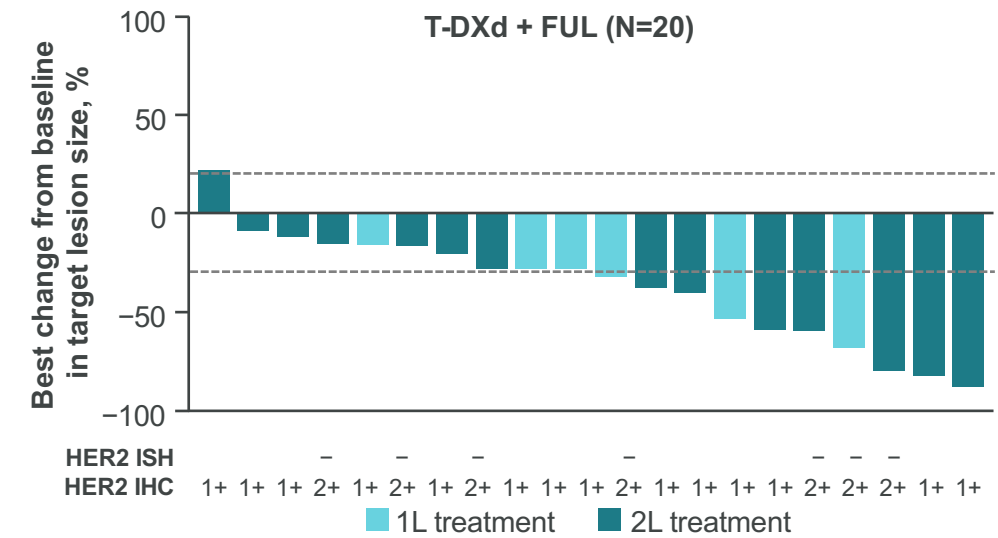
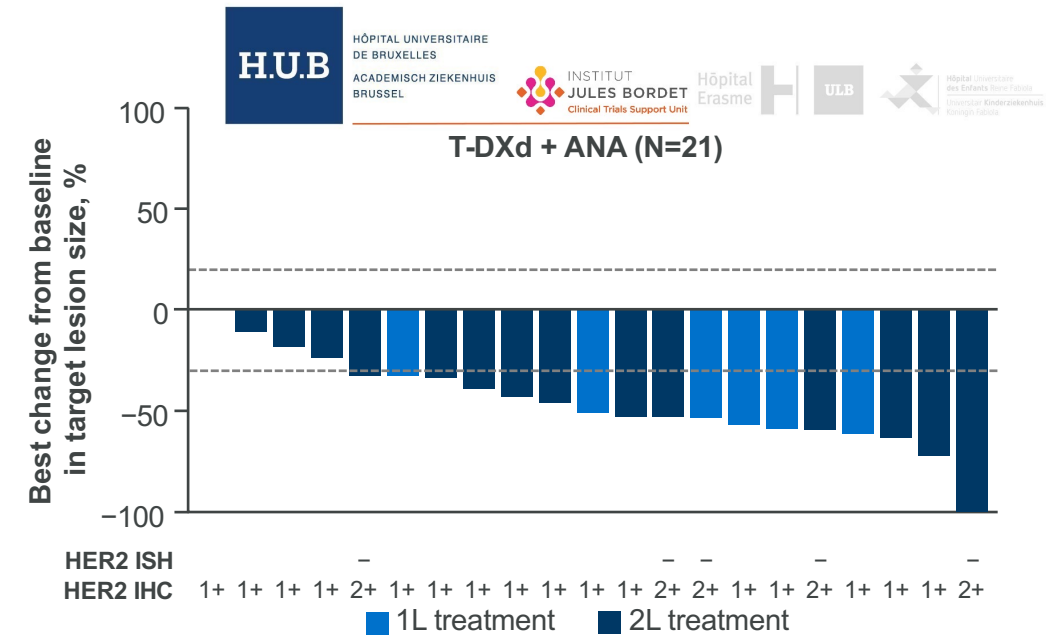


# Efficacy overview

	T-DXd + ANA (N=21)	T-DXd + FUL (N=20)
Confirmed ORR, % (95% CI)	71.4 (47.8, 88.7)	40.0 (19.1, 64.0)
Unconfirmed ORR, % (95% CI)	76.2 (52.8, 91.8)	50.0 (27.2, 72.8)
Median DOR, months (95% CI)*	9.8 (6.7, NE)	NE (4.1, NE)
Total PFS events, n (%)	14 (66.7)	7 (35.0)
Median PFS, months (95% CI)*	13.4 (8.5, 19.4)	NE (5.6, NE)
PFS rate at 6 months, % (95% CI)	80.7 (56.3, 92.3)	75.3 (46.4, 90.0)
PFS rate at 12 months, % (95% CI)	50.4 (27.5, 69.5)	52.7 (25.0, 74.4)

- Efficacy results need to be interpreted with caution owing to the small datasets
  - Of note, 15% of patients in the T-DXd + FUL arm withdrew consent and discontinued study treatment before disease progression

\*NE signifies that median DOR/PFS was not reached for these patients at the time of DCO  
 Median DOR calculated using Kaplan-Meier technique. Target lesion size is the sum of diameters of target lesions, assessed by investigator per RECIST 1.1.  
 Best change in target lesion is the maximum reduction from baseline or the minimum increase from baseline in the absence of a reduction.  
 Dotted reference lines at -30% and 20% indicate thresholds for partial response and progressive disease, respectively. PFS was assessed by investigator per RECIST 1.1  
 1L, first line; 2L, second line; CI, confidence interval





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# Primary Results From a Phase 2a Study of Zanidatamab in Combination With Palbociclib Plus Fulvestrant in HER2+ HR+ Metastatic Breast Cancer

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\*Primary/Presenting Author

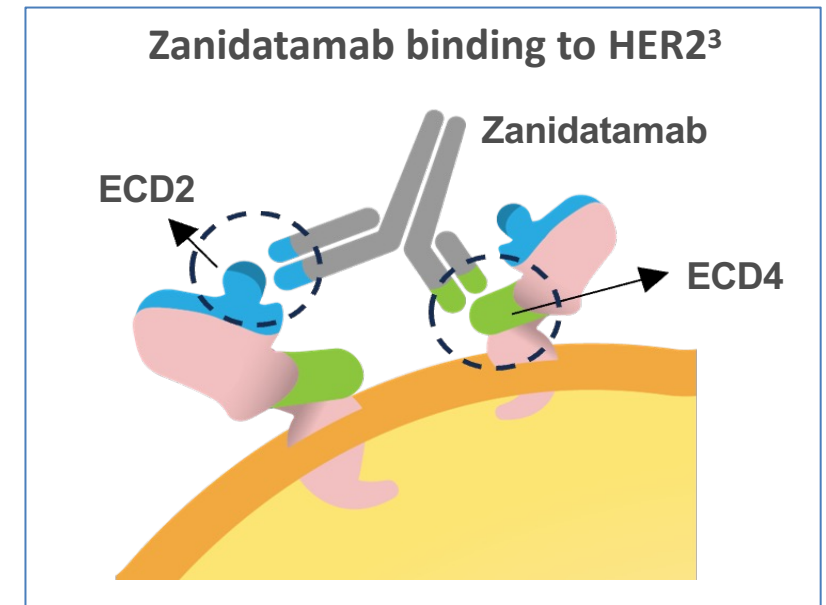
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# Background and Objective

- Prior studies with a HER2-targeting agent combined with an ER antagonist with or without a CDK 4/6 inhibitor have shown clinical benefit in patients with HER2+ HR+ mBC<sup>1,2</sup>
- **Zanidatamab is a bispecific antibody that simultaneously binds two non-overlapping extracellular domains of HER2** (biparatopic binding) leading to<sup>3</sup>:
  - Receptor crosslinking, clustering, internalization, and downregulation
  - Inhibition of tumor cell signaling and proliferation by preventing HER2 dimerization
  - Immune-mediated antitumor effects including antibody-dependent cellular cytotoxicity and phagocytosis, and complement-dependent cytotoxicity



**Objective:** To evaluate the safety and efficacy of zanidatamab in combination with palbociclib (CDK4/6 inhibitor) plus fulvestrant (ER antagonist) in HER2+ HR+ mBC

1. Tolaney SM, et al. *Lancet Oncol.* 2020;21(6):763-775. 2. Ciruelos E, et al. *Clin Cancer Res.* 2020;26(22):5820-5829. 3. Weisser NE, et al. *Nat Commun.* 2023;14(1):1394.

# Efficacy and Duration of Treatment

- Median (range) follow-up time: 16 (2-32) months
- Median (range) duration of zanidatamab treatment: 8 (1-30) months

	All Patients (N=51)	ccHER2+ Subset (n=32)	non-ccHER2+ Subset (n=19)
<b>PFS6, n (%) [95% CI]</b>	34 ( <b>67</b> ) [52, 79]	22 ( <b>69</b> ) [50, 84]	12 ( <b>63</b> ) [38, 84]
Median PFS, months (95% CI)	12 (8, 15)	15 (9, 17)	8 (4, 9)
cORR, n (%) [95% CI] <sup>a</sup>	16 (35) [21, 50]	14 (48) [29, 68]	2 (10) [1, 33]
cBOR, n (%) <sup>a</sup>			
CR	3 (6)	3 (10)	0 (0)
PR	13 (28)	11 (38)	2 (12)
SD	26 (56)	13 (45)	13 (76)
PD	4 (9)	2 (7)	2 (12)
DCR, n (%) [95% CI]	42 ( <b>91</b> ) [79, 98]	27 (93) [77, 99]	15 (88) [64, 98]
Median DOR, months (95% CI) <sup>b</sup>	15 (12, 25)	14 (11, 25)	NE (7, NE) <sup>c</sup>

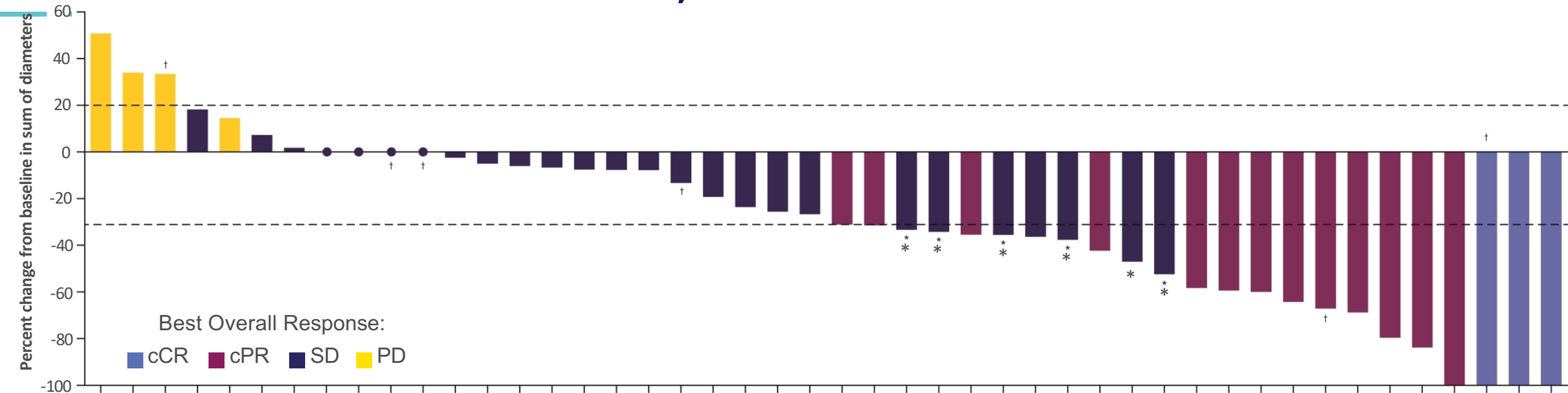
<sup>a</sup>Evaluated in patients with measurable disease (n=46 all patients; n=29 ccHER2+ subset; n=17 non-ccHER2+ subset). <sup>b</sup>Evaluated in patients with a CR or PR (n=16 all patients; n=14 ccHER2+ subset; n=2 non-ccHER2+ subset). <sup>c</sup>Median DOR was 7.1 and 24.1 months for the 2 patients with a response in the non-ccHER2+ subset.



# Efficacy of Treatment by Best Overall Response (All Patients With Measurable Disease)



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Central IHC	1+	3+	1+	2+	2+	2+	1+	2+	2+	2+	1+	2+	2+	3+	0	1+	2+	2+	3+	1+	1+	2+	2+	3+	0	3+	3+	2+	2+	3+	3+	2+	2+	3+	3+	2+	2+	2+	3+	3+	3+	3	2						
Central FISH	-	+	-	+	+	+	+	+	-	-	+	+	+	-	+	+	+	+	+	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
PAM50	LB	HE	HE	HE	HE	LB	LB	HE	HE	LB	LB	HE	HE	HE	HE	LB	LB	HE	HE	HE	HE	LB	LB	HE	HE	HE	LB	LB	HE	HE	LB	LB	HE	LB	HE	LB	HE	HE	HE	HE	HE	HE	HE						
Prior fulv		Y		Y			Y	Y			Y	Y			Y																																		
Prior HER2 Trt <sup>a</sup>	DPX	DP	DP	DPC	DP	DPC	DPL	PC	DP	DP	DLX	DP	DPC	DL	DPL	DP	DPC	DL	DP	DPC	DP	DP	DP	DP	DP	DPL	DPX	DPC	DP	DPX	DL	DP	DP	DP	DPL	DLX	D	DP	DPX	DP	DP	DP	DP	DP	DX	D	D	DP	DP

Prior HER2 trt<sup>a</sup>: C, tucatinib; D, T-DM1; L, lapatinib; M, margetuximab; N, neratinib; P, pertuzumab; X, T-DXd.  
 PAM50 subtype: HE, HER2-enriched; LB, luminal B.

\*Indicates patients with unconfirmed partial responses. Dotted lines indicate -30% and +20% change in tumor size.  
<sup>a</sup>All patients received prior trastuzumab and taxane.



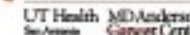
# HER2 Amplified tumors

- ◆ HERB TEA study (older patients)
- ◆ HER2-Climb 02 study



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## A phase III study comparing trastuzumab emtansine with trastuzumab, pertuzumab, and docetaxel in older patients with advanced-stage HER2- positive breast cancer. (JCOG1607 HERB TEA study)

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# Study Design

### Primary endpoint:

Overall survival (OS)

### Secondary endpoints:

Progression-free survival, Cumulative breast cancer specific survival, Response rate, Adverse events, Serious adverse events, Proportion of non-deteriorating of instrumental activities of daily living

- Older patients with advanced HER2-positive breast cancer
- No prior chemotherapy for MBC
- Over 65 years and old
- PS 0 to 2 (0 to 1 for over 75 y.o.)

R  
N=148

## Arm A: HPD arm (N=75)

**Trastuzumab (6 mg/kg, loading dose 8 mg/kg)  
+ Pertuzumab (420 mg, loading dose 840 mg)  
+ Docetaxel (60 mg/m<sup>2</sup>) q3w  
until PD**

The dose up of Docetaxel (75 mg/m<sup>2</sup>) from the second cycle was allowed based on the data regarding safety during the first cycle.

## Arm B: T-DM1 arm (N=73)

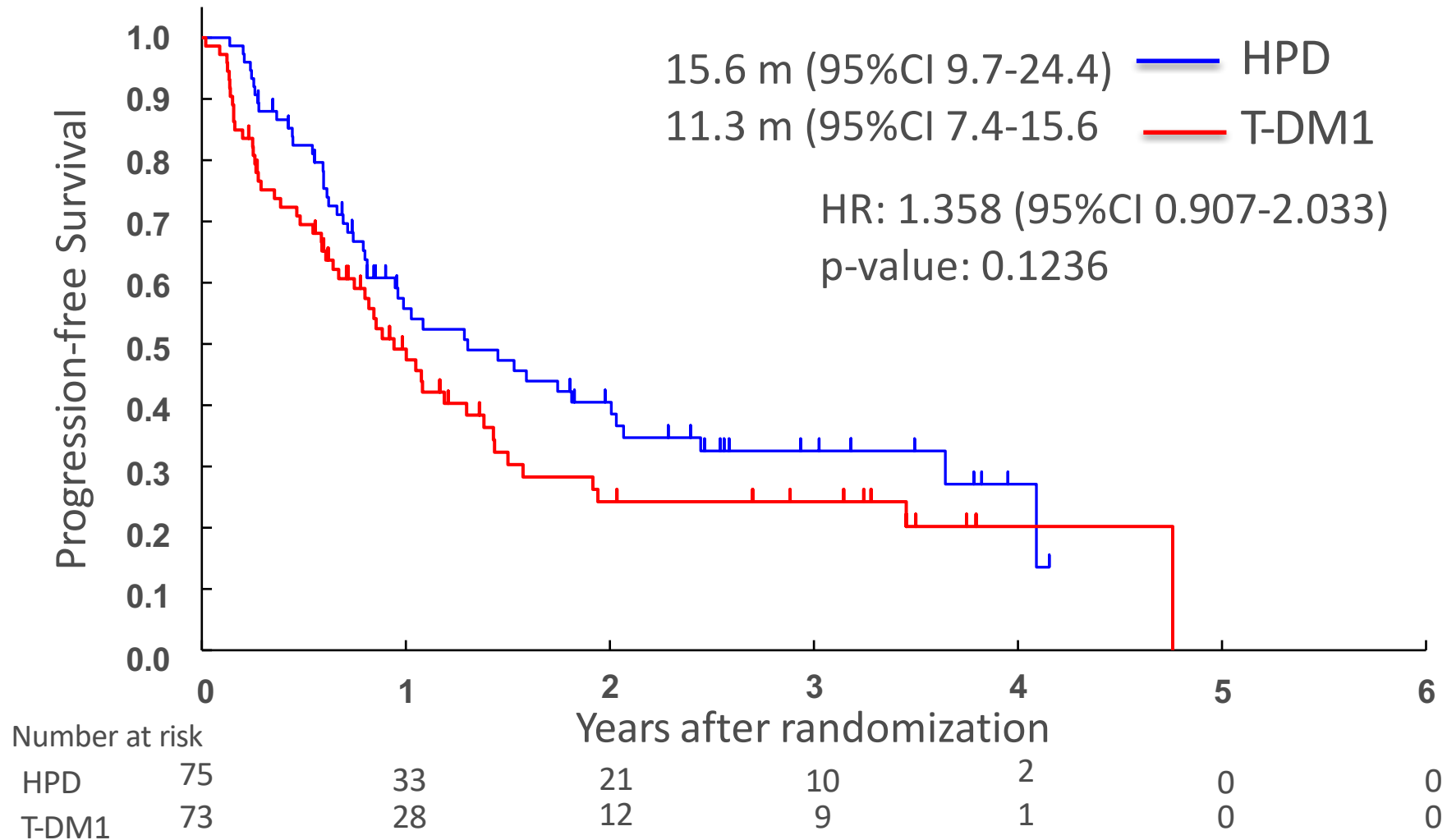
**T-DM1 (3.6 mg/kg) q3w  
until PD**

\*Planned sample size: 250 Pts. Terminated early at 148 Pts by interim analysis because the OS hazard ratio estimate exceeded the non-inferiority margin (data cutoff 12/22/2022). The data cutoff for this presentation is 6/15/2023.

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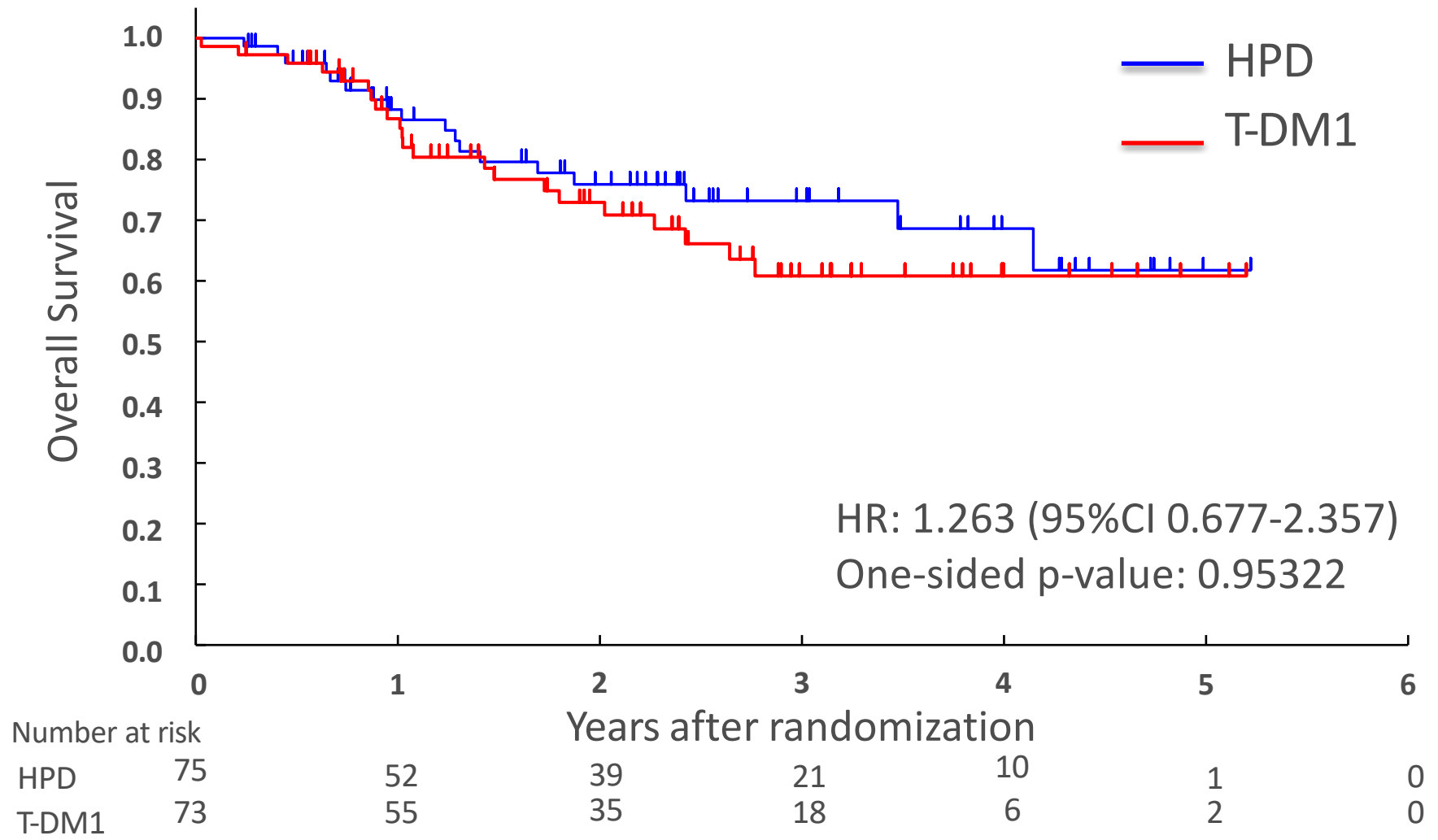


# Progression-free Survival





# Overall Survival







# Conclusions



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- ◆ **T-DM1 failed to show non-inferiority to HPD in OS and PFS.**
- ◆ **Adverse events grade 3 and more are more frequent in the HPD arm, especially leukopenia, neutropenia, diarrhea, fatigue and appetite loss were common.**
- ◆ **HPD therapy is the standard of care as 1<sup>st</sup> line treatment for HER2-positive advanced breast cancer regardless of age.**
- ◆ **Detailed analysis, including geriatric assessment, is needed to identify the patient population for whom T-DM1 may be used as 1<sup>st</sup> line treatment.**



# HER2CLIMB: Randomized Phase 2 Trial of Tucatinib<sup>1</sup>

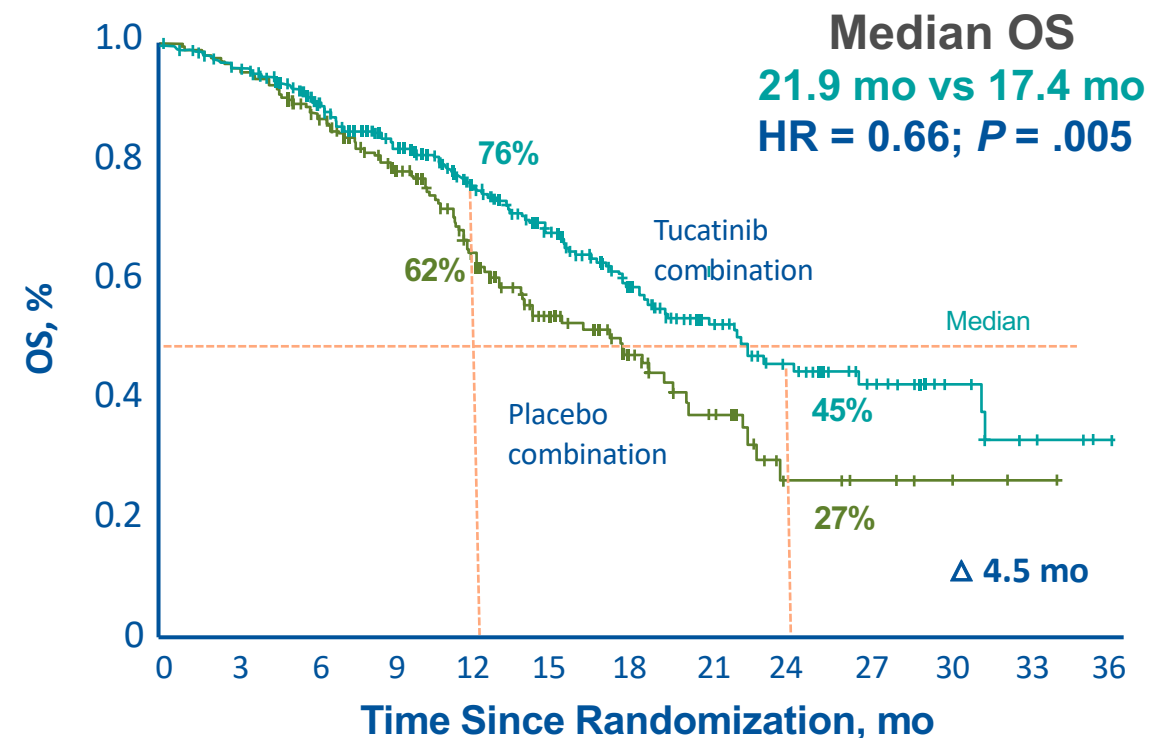
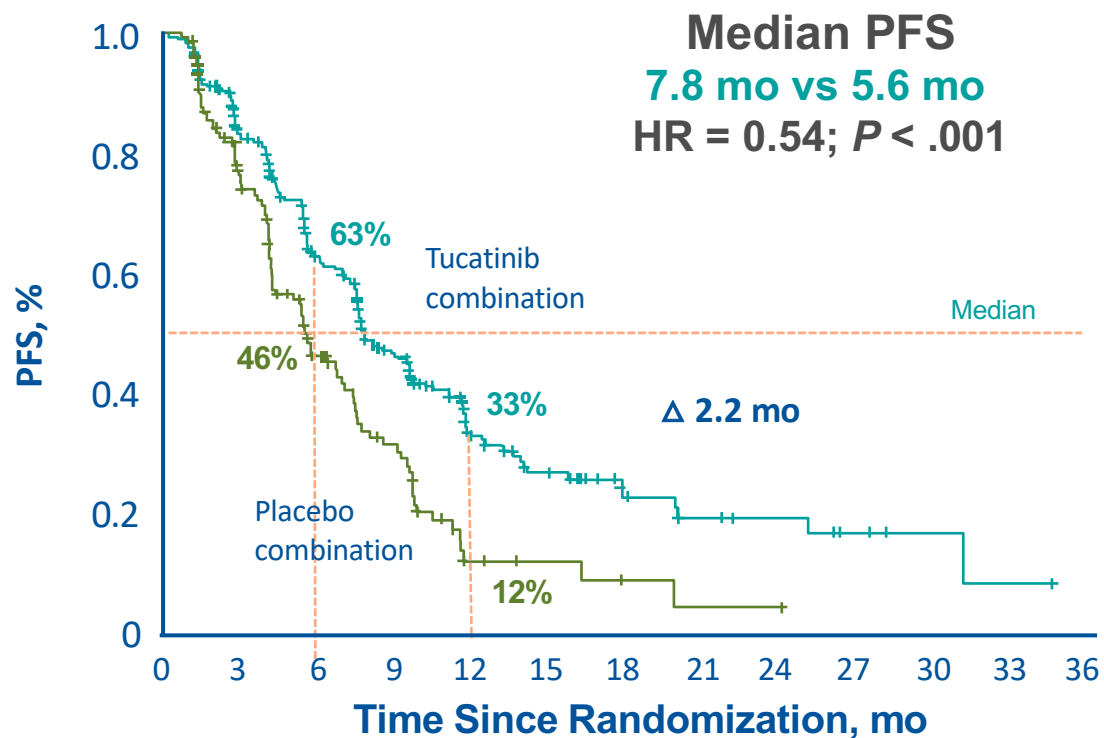


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## Tucatinib + Capecitabine + Trastuzumab vs Capecitabine + Trastuzumab

**Tucatinib Improves PFS and OS**



No. at Risk	0	3	6	9	12	15	18	21	24	27	30	33	36
Tuc + tras + cape	320	235	152	96	40	29	15	10	8	4	2	1	0
Pbo + tras + cape	160	94	45	27	6	4	2	1	1	0	0	0	0

No. at Risk	0	3	6	9	12	15	18	21	24	27	30	33	36
Tuc + tras + cape	410	388	322	245	178	123	80	51	34	20	10	4	0
Pbo + tras + cape	202	191	160	119	77	48	32	19	7	5	2	1	0

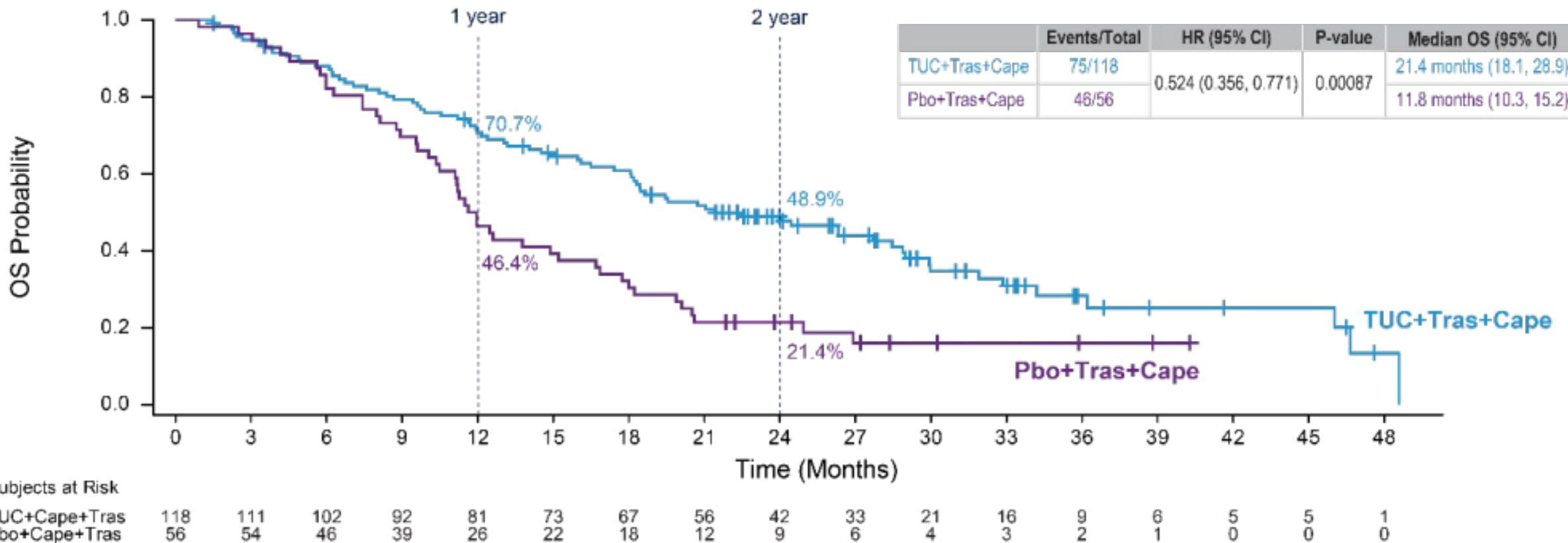
Murthy R, et al. *N Engl J Med.* 2020;382:597-609.



# HER2CLIMB: OS for Patients With Active Brain Metastases



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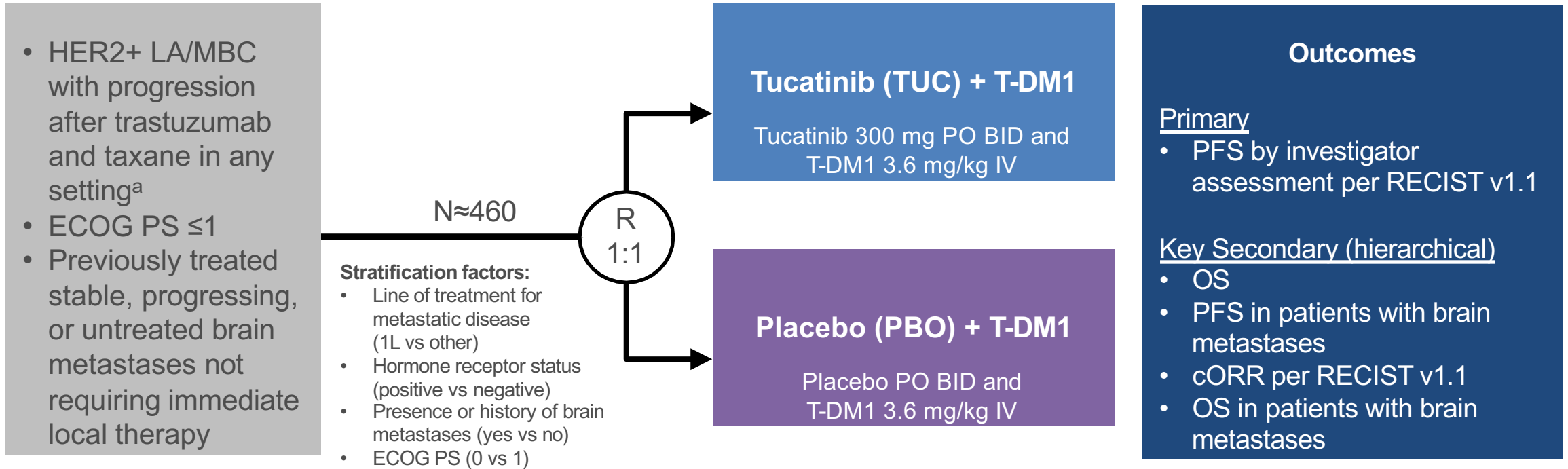


Median OS was 9.6 months longer in the tucatinib arm compared with the control arm in patients with active brain metastases.

Lin NU, et al. SABCS 2021. Abstract PD4-04.



# HER2CLIMB-02 Study Design



The primary analysis for PFS was planned after ≈331 PFS events to provide 90% power for hazard ratio of 0.7. The first of two interim analysis for OS was planned at the time of the primary PFS analysis, if the PFS result was significantly positive<sup>b</sup>.

# HER2CLIMB-02: Demographics and Baseline Characteristics

	TUC + T-DM1 (N=228)	PBO + T-DM1 (N=235)
<b>Median age, years (range)</b>	55.0 (26-83)	53.0 (27-82)
<b>Female sex, n (%)</b>	226 (99.1)	235 (100)
<b>Geographic region, n (%)</b>		
North America	105 (46.1)	93 (39.6)
Europe/Israel	53 (23.2)	77 (32.8)
Asia-Pacific	70 (30.7)	65 (27.7)
<b>Hormone-receptor status, n (%)</b>		
Positive	137 (60.1)	140 (59.6)
Negative	91 (39.9)	95 (40.4)
<b>ECOG performance status score, n (%)</b>		
0	137 (60.1)	141 (60.0)
1	91 (39.9)	94 (40.0)

	TUC + T-DM1 (N=228)	PBO + T-DM1 (N=235)
<b>Presence or history of brain metastases, n (%)</b>		
Yes	99 (43.4)	105 (44.7)
Active	50 (21.9)	57 (24.3)
Treated stable	49 (21.5)	48 (20.4)
No <sup>a</sup>	129 (56.6)	130 (55.3)
<b>Stage at initial diagnosis, n (%)<sup>b</sup></b>		
0-III	120 (52.6)	130 (55.3)
IV	103 (45.2)	98 (41.7)



# HER2CLIMB-02: Prior Systemic Therapies



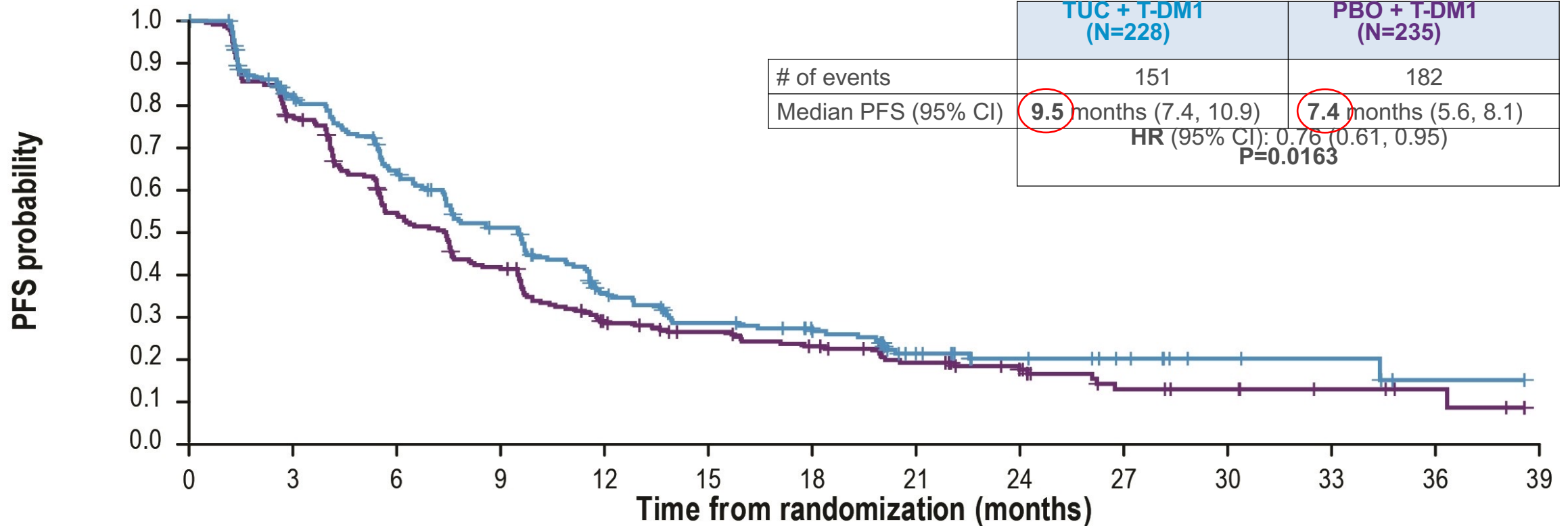
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	TUC + T-DM1 (N=228)	PBO + T-DM1 (N=235)
Median prior lines of systemic therapy in metastatic setting (range)	1 (0-8)	1 (0-6)
Prior lines of systemic therapy in metastatic setting, n (%)		
0	29 (12.7)	33 (14.0)
1	146 (64.0)	150 (63.8)
2	36 (15.8)	31 (13.2)
≥3	17 (7.5)	21 (8.9)
Received prior pertuzumab treatment, n (%)	202 (88.6)	214 (91.1)
Received prior anti-HER2 TKIs, n (%)	3 (1.3)	5 (2.1)



# HER2CLIMB-02: Progression-Free Survival



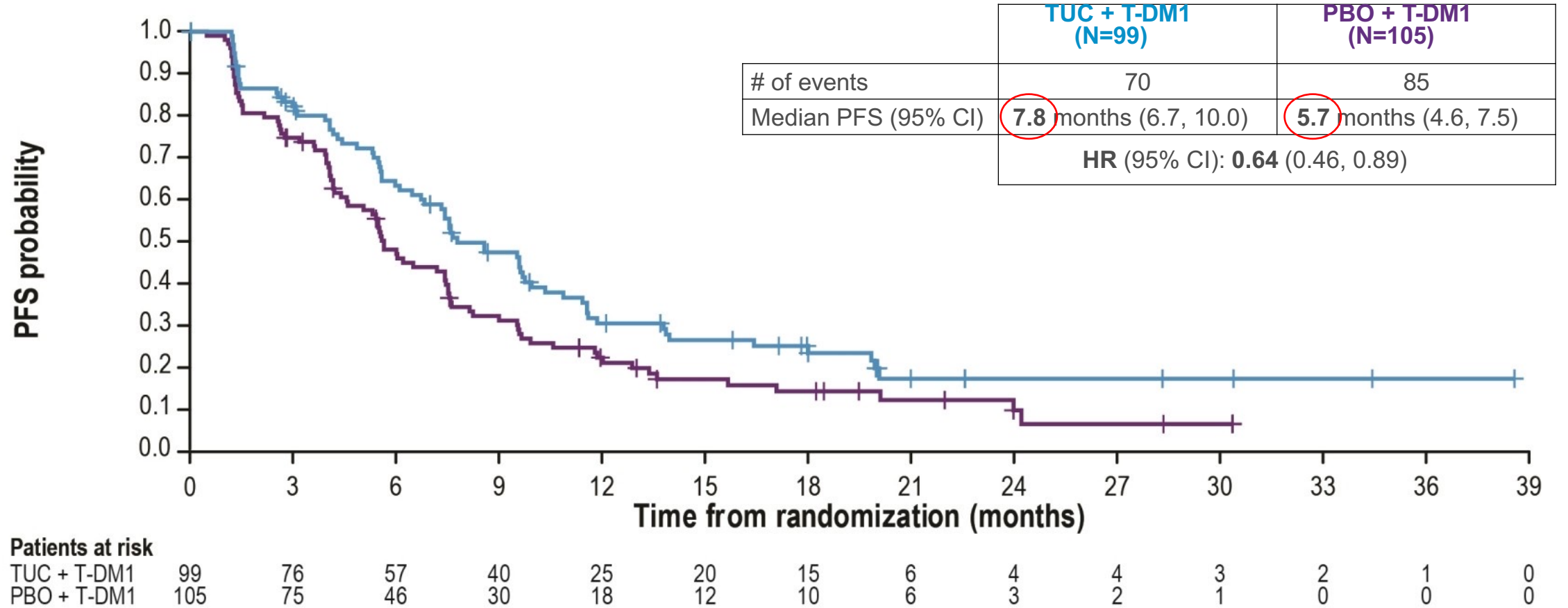
**Patients at risk**

	0	3	6	9	12	15	18	21	24	27	30	33	36	39
TUC + T-DM1	228	165	126	96	62	47	40	22	14	10	5	4	1	0
PBO + T-DM1	235	177	120	91	58	48	40	29	19	10	8	5	3	0

HR, hazard ratio; PBO, placebo; PFS, progression-free survival; T-DM1, trastuzumab emtansine; TUC, tucatinib.  
Date of data cutoff: Jun 29, 2023.



# HER2CLIMB-02: PFS in Patients with Brain Metastases<sup>a</sup>

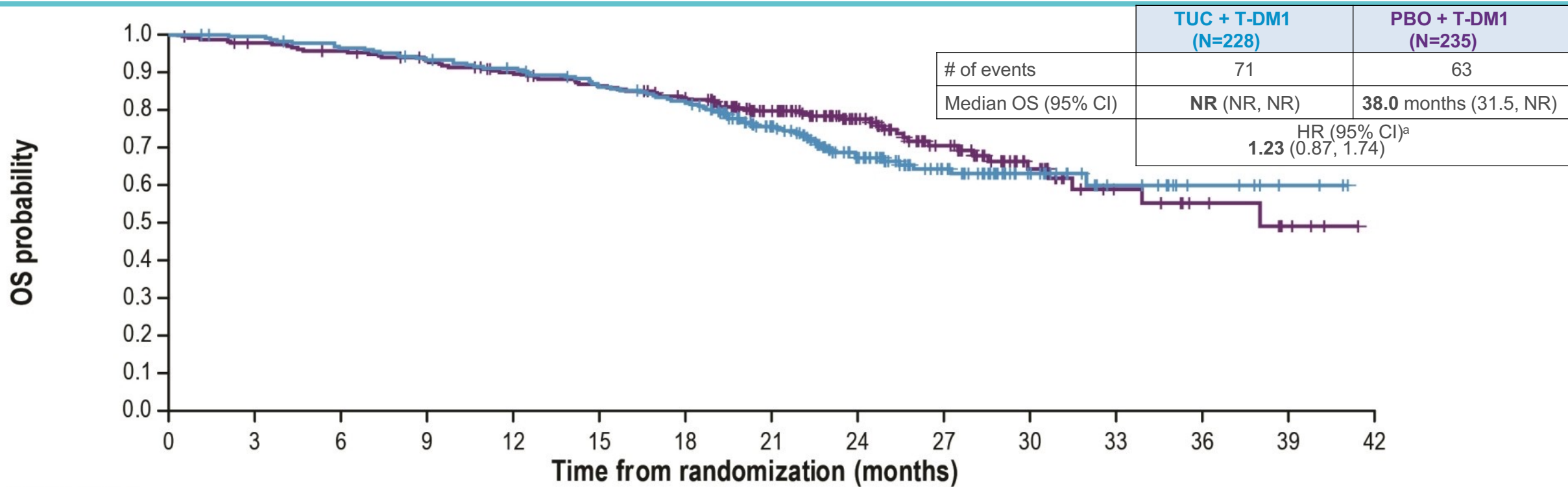


<sup>a</sup> The outcome was not formally tested.  
 HR, hazard ratio; PBO, placebo; PFS, progression-free survival; T-DM1, trastuzumab emtansine; TUC, tucatinib.  
 Date of data cutoff: Jun 29, 2023.





# HER2CLIMB-02: Overall Survival



### Patients at risk

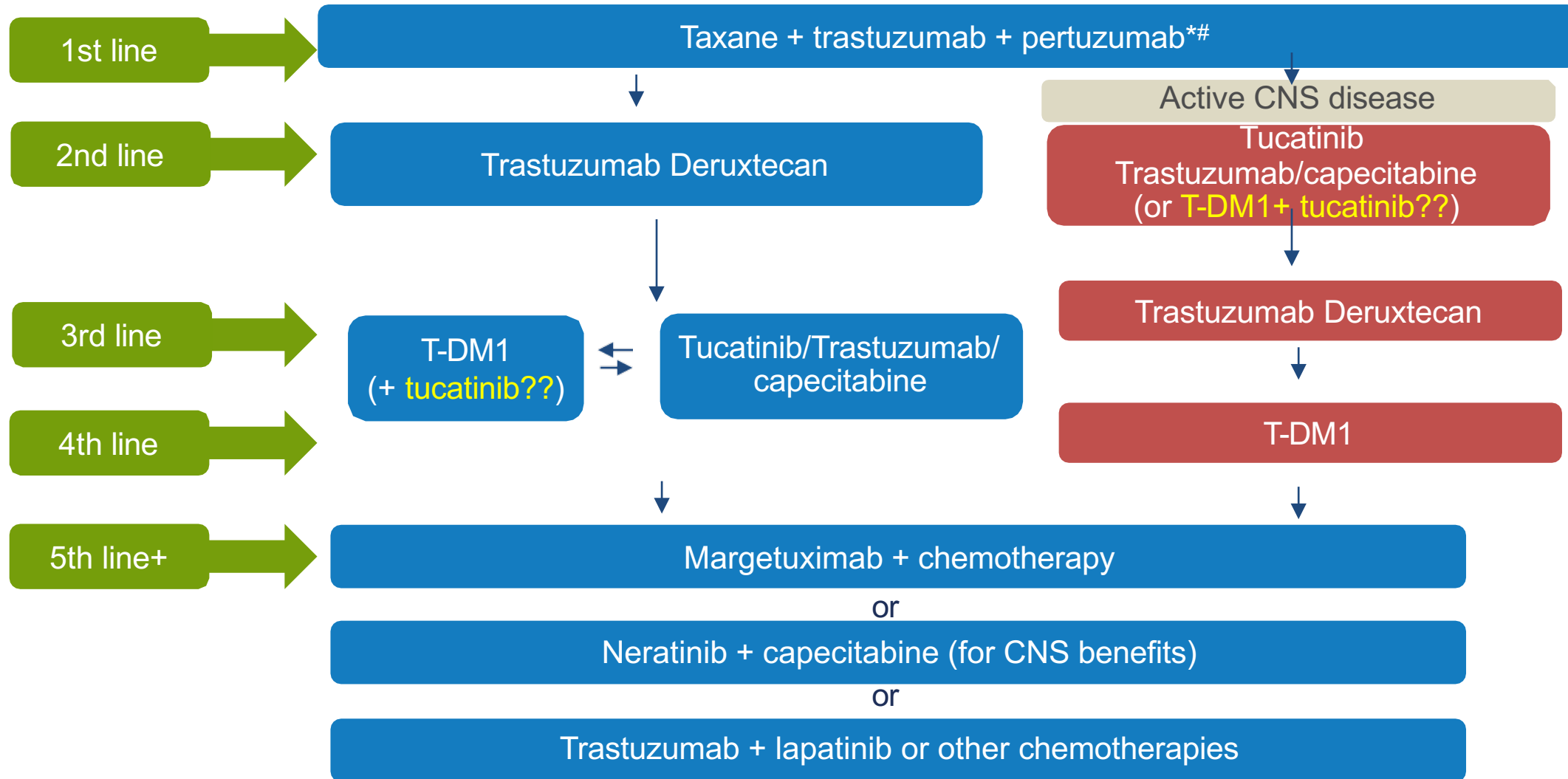
	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42
TUC + T-DM1	228	225	217	209	202	189	180	132	89	55	30	16	7	3	0
PBO + T-DM1	235	227	221	212	201	191	180	135	90	58	32	16	10	4	0

Median follow-up was 24.4 months. As of data cutoff, 134 out of 253 (53%) prespecified events for the OS final analysis were observed. Interim OS results did not meet the prespecified crossing boundary of P=0.0041.

<sup>a</sup> The proportional hazard assumption was not maintained post-18 months, with heavy censoring on both arms. HRs, hazard ratios; NR, not reached; OS, overall survival; PBO, placebo; T-DM1, trastuzumab emtansine; TUC, tucatinib. Date of data cutoff: Jun 29, 2023.



# Algorithm for Metastatic HER2+ Disease



\*AI+TP in select cases and for maintenance in ER+ disease; # endocrine Tx + HER2 therapy at clinically appropriate points for ER+ MBC



# Metastatic TNBC

- ◆ **KEYLYNK-009 Study (Olaparib-based maintenance)**
- ◆ **BEGONIA study (Dato-DXd + Durvalumab; 1st line)**

# Pembrolizumab Plus Olaparib vs Pembrolizumab Plus Chemotherapy After Induction With Pembrolizumab Plus Chemotherapy for Locally Recurrent Inoperable or Metastatic TNBC: Randomized, Open-Label, Phase 2 KEYLYNK-009 Study

Hope S. Rugo<sup>1</sup>; Mark Robson<sup>2</sup>; Seock-Ah Im<sup>3</sup>; Florence Dalenc<sup>4</sup>; Eduardo Yañez Ruiz<sup>5</sup>; Young-Hyuck Im<sup>6</sup>; Sergii Kulyk<sup>7</sup>; Oleksandr Dudnichenko<sup>8</sup>; Néstor Llinás-Quintero<sup>9</sup>; Shigehira Saji<sup>10</sup>; Yasuo Miyoshi<sup>11</sup>; Nadia Harbeck<sup>12</sup>; Li Fan<sup>13</sup>; Jaime A. Mejia<sup>13</sup>; Vassiliki Karantza<sup>13</sup>; David W. Cescon<sup>14</sup>

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# KEYLYNK-009 (NCT04191135): Study Design



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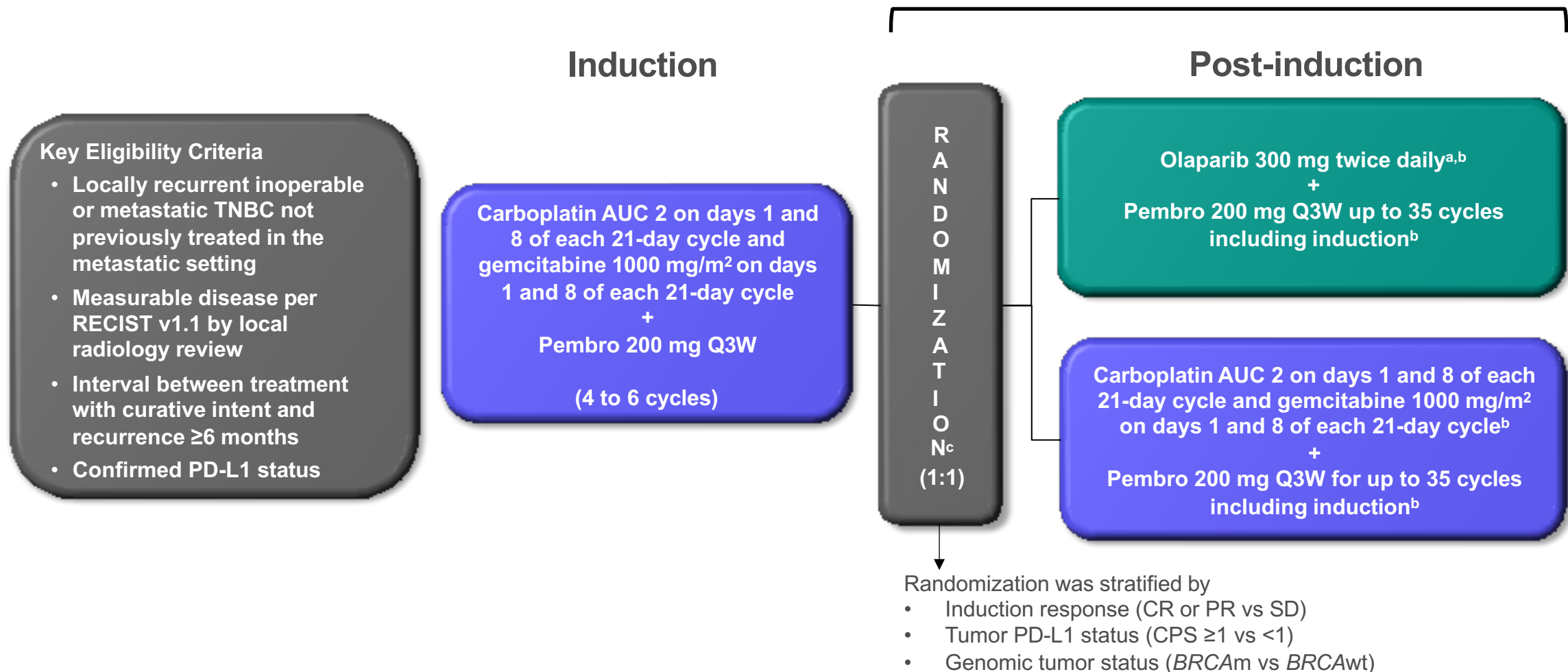
INSTITUT JULES BORDET  
Clinical Trials Support Unit

Hôpital Erasme

ULB

Hôpital Universitaire des Enfants Reine Fabiola  
Universitair Kinderziekenhuis Koninkrijk België

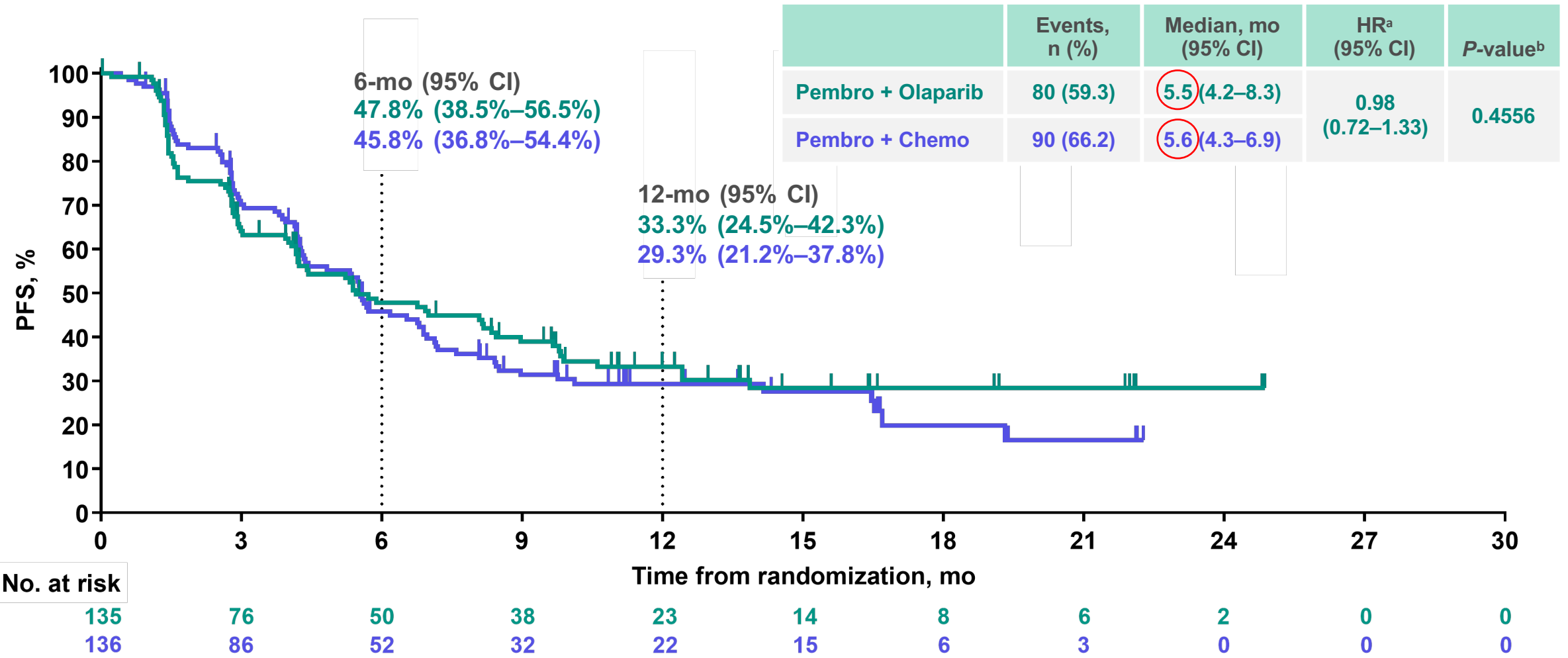
## ITT Population



<sup>a</sup>Olaparib was administered postinduction and given concurrently with pembrolizumab. <sup>b</sup>Until disease progression or unacceptable toxicity. <sup>c</sup>ITT population was determined from randomization (not from the time of enrollment).



# PFS per RECIST v1.1 by BICR: ITT Population



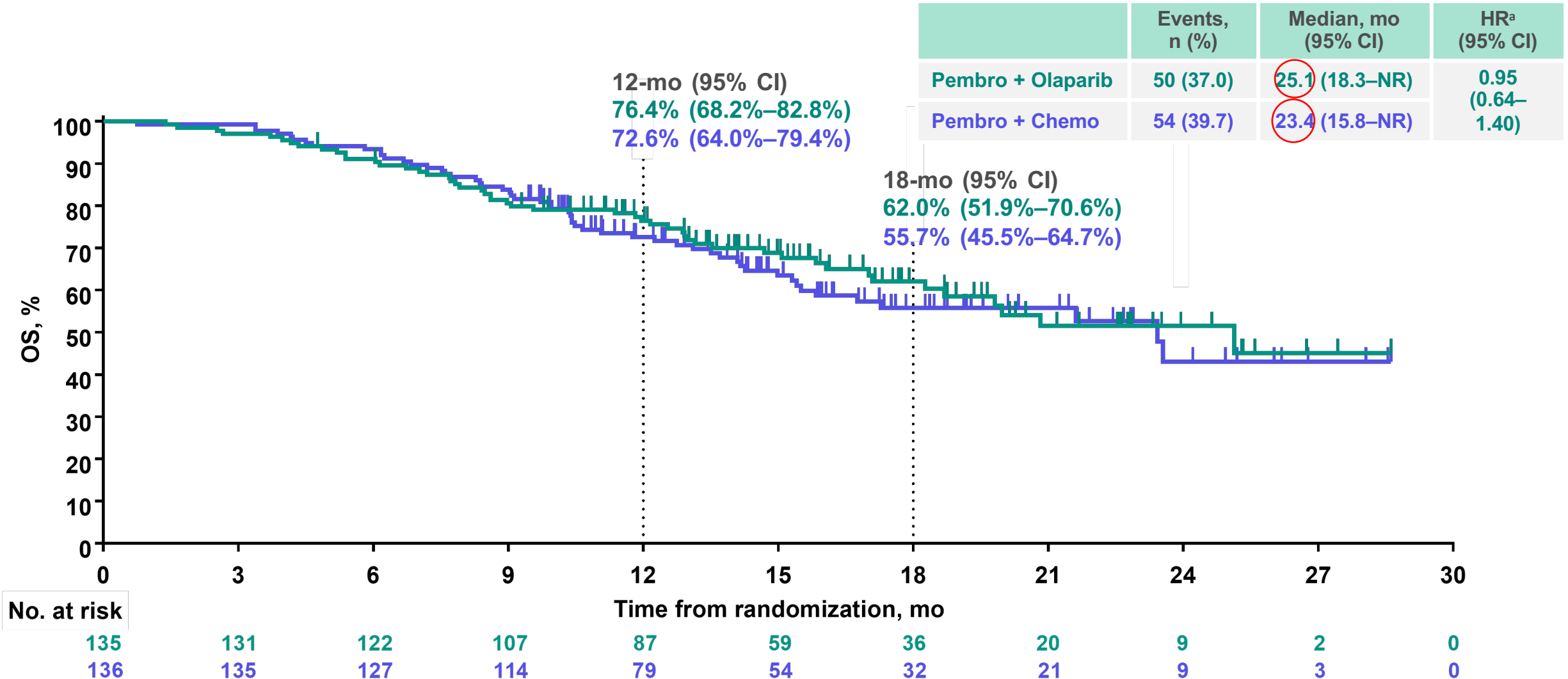
6-mo (95% CI)  
 47.8% (38.5%–56.5%)  
 45.8% (36.8%–54.4%)

12-mo (95% CI)  
 33.3% (24.5%–42.3%)  
 29.3% (21.2%–37.8%)

<sup>a</sup>HR (pembro + olaparib vs pembro + chemo) based on Cox regression model with Efron's method of tie handling with treatment as a covariate stratified by response to induction therapy, tumor PD-L1 status, and BRCA status. <sup>b</sup>One-sided and based on log-rank test stratified by response to induction therapy, tumor PD-L1 status, and BRCA status.



# Estimates of OS: ITT Population



NR, not reached. <sup>a</sup>HR (pembro + olaparib vs pembro + chemo) based on Cox regression model with Efron's method of tie handling with treatment as a covariate stratified by response to induction therapy, tumor PD-L1 status, and BRCA status.

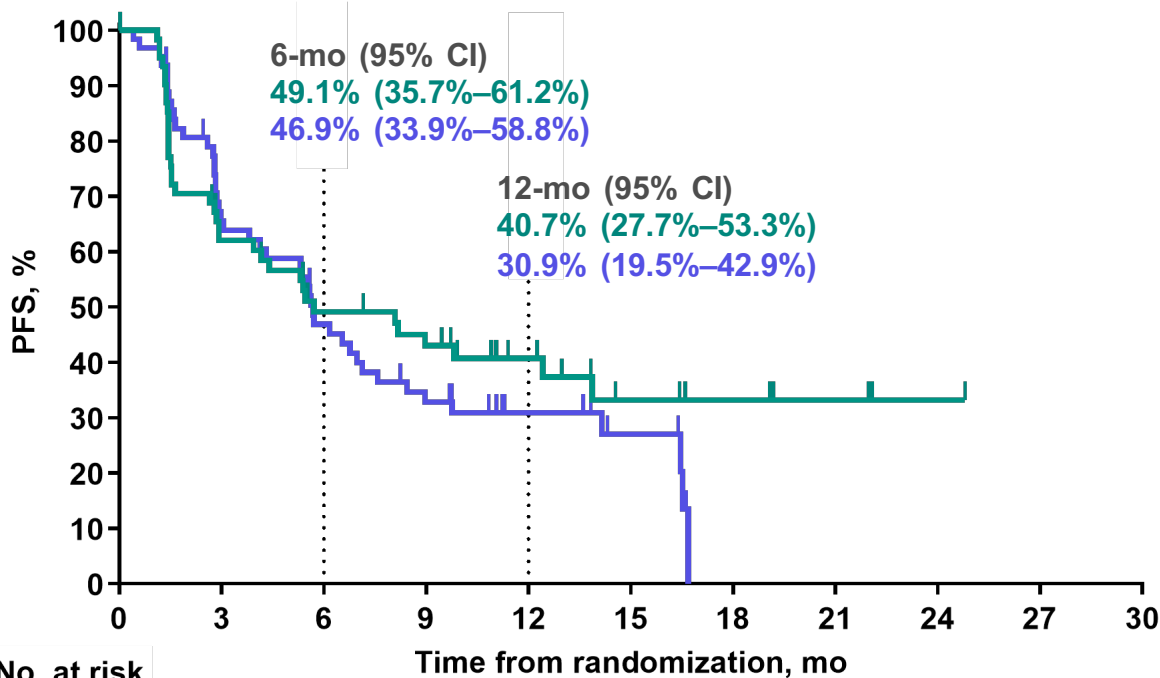


# PFS per RECIST v1.1 by BICR: PD-L1 CPS $\geq 10$ and tBRCAm



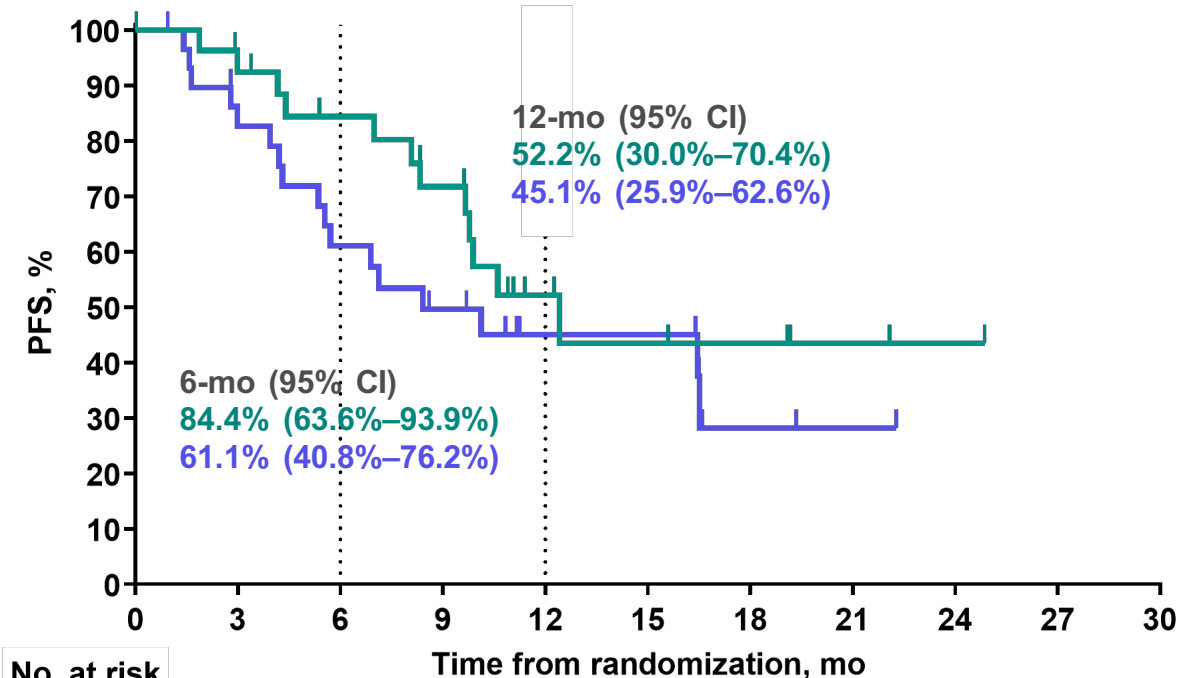
Tumor PD-L1 CPS  $\geq 10$  Population

	Events, n (%)	Median, mo (95% CI)	HR <sup>a</sup> (95% CI)
Pembro + Olaparib	36 (55.4)	5.7 (2.9–13.9)	0.92 (0.59–1.43)
Pembro + Chemo	45 (69.2)	5.7 (3.8–7.6)	



tBRCAm Population

	Events, n (%)	Median, mo (95% CI)	HR <sup>b</sup> (95% CI)
Pembro + Olaparib	12 (41.4)	12.4 (8.3–NR)	0.70 (0.33–1.48)
Pembro + Chemo	17 (56.7)	8.4 (5.4–NR)	



NR, not reached; tBRCAm, tumor *BRCA* mutation (includes germline and somatic mutations). <sup>a</sup>HR (pembro + olaparib vs pembro + chemo) based on Cox regression model with Efron's method of tie handling with treatment as a covariate stratified by response to induction therapy and *BRCA* status. <sup>b</sup>HR (pembro + olaparib vs pembro + chemo) based on Cox regression model with Efron's method of tie handling with treatment as a covariate stratified by response to induction therapy and tumor PD-L1 status.

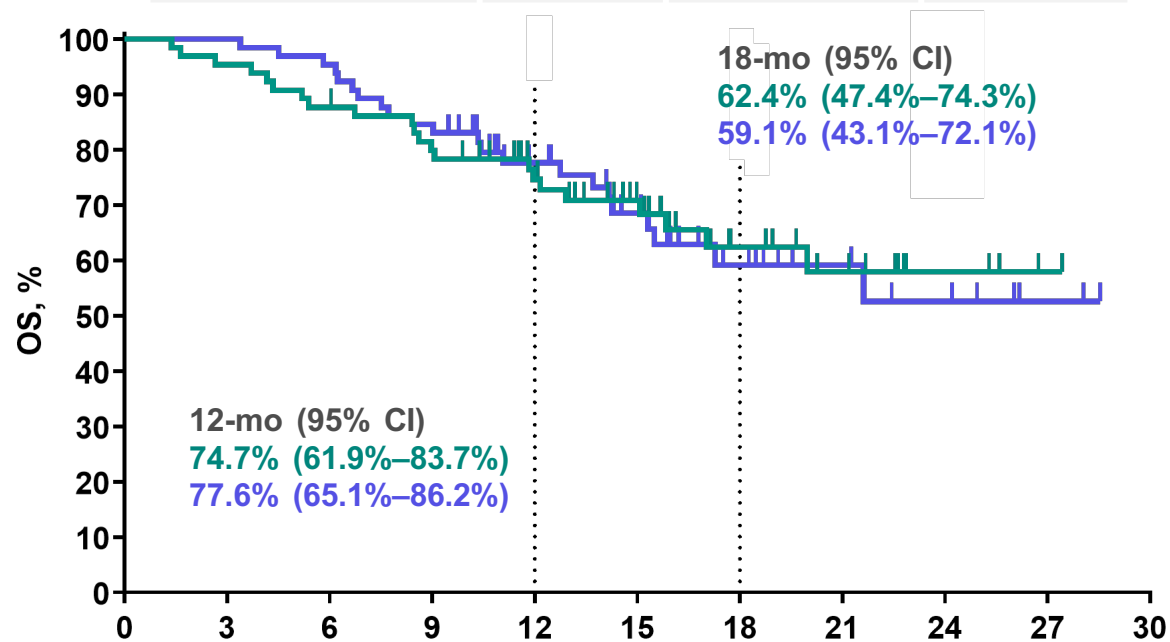


# Estimates of OS: PD-L1 CPS $\geq 10$ and tBRCAm



### Tumor PD-L1 CPS $\geq 10$ Population

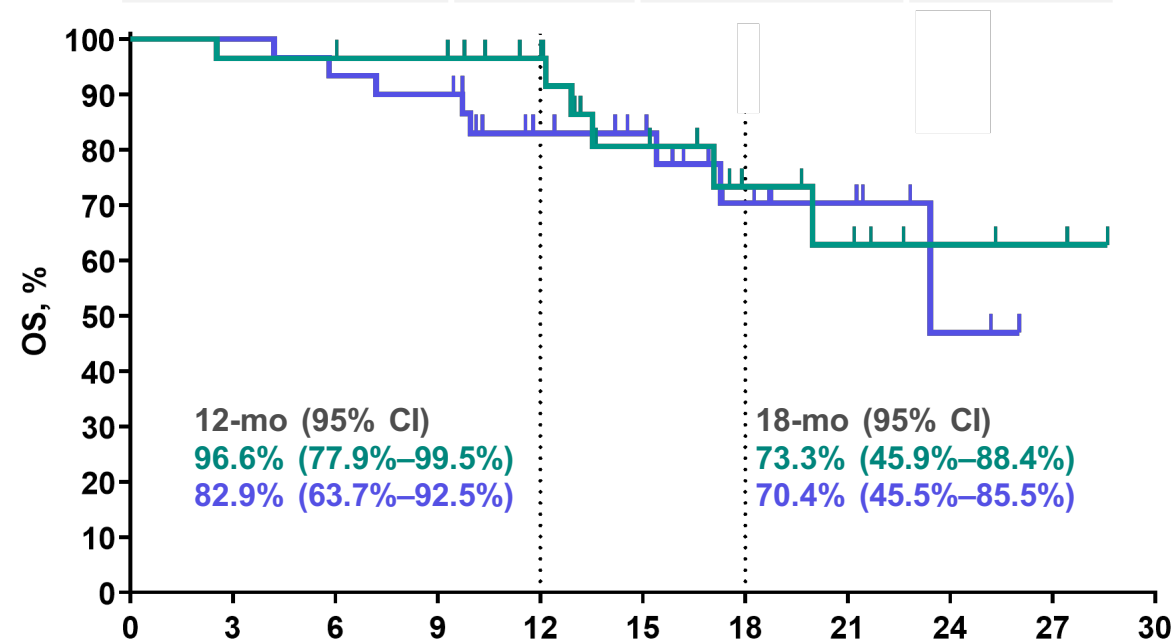
	Events, n (%)	Median, mo (95% CI)	HR <sup>a</sup> (95% CI)
Pembro + Olaparib	22 (33.8)	NR (17.0–NR)	0.97 (0.53–1.76)
Pembro + Chemo	22 (33.8)	NR (15.5–NR)	



No. at risk	Time from randomization, mo										
	0	3	6	9	12	15	18	21	24	27	30
Pembro + Olaparib	65	62	57	51	41	29	17	12	5	1	0
Pembro + Chemo	65	65	62	55	37	25	15	10	6	2	0

### tBRCAm Population

	Events, n (%)	Median, mo (95% CI)	HR <sup>b</sup> (95% CI)
Pembro + Olaparib	6 (20.7)	NR (17.1–NR)	0.81 (0.28–2.37)
Pembro + Chemo	8 (26.7)	23.4 (17.3–NR)	



No. at risk	Time from randomization, mo										
	0	3	6	9	12	15	18	21	24	27	30
Pembro + Olaparib	29	28	28	27	21	13	8	6	3	2	0
Pembro + Chemo	30	30	28	27	19	16	9	6	2	0	0

NR, not reached. <sup>a</sup>HR (pembro + olaparib vs pembro + chemo) based on Cox regression model with Efron's method of tie handling with treatment as a covariate stratified by response to induction therapy and *BRCA* status. <sup>b</sup>HR (pembro + olaparib vs pembro + chemo) based on Cox regression model with Efron's method of tie handling with treatment as a covariate stratified by response to induction therapy and tumor PD-L1 status.

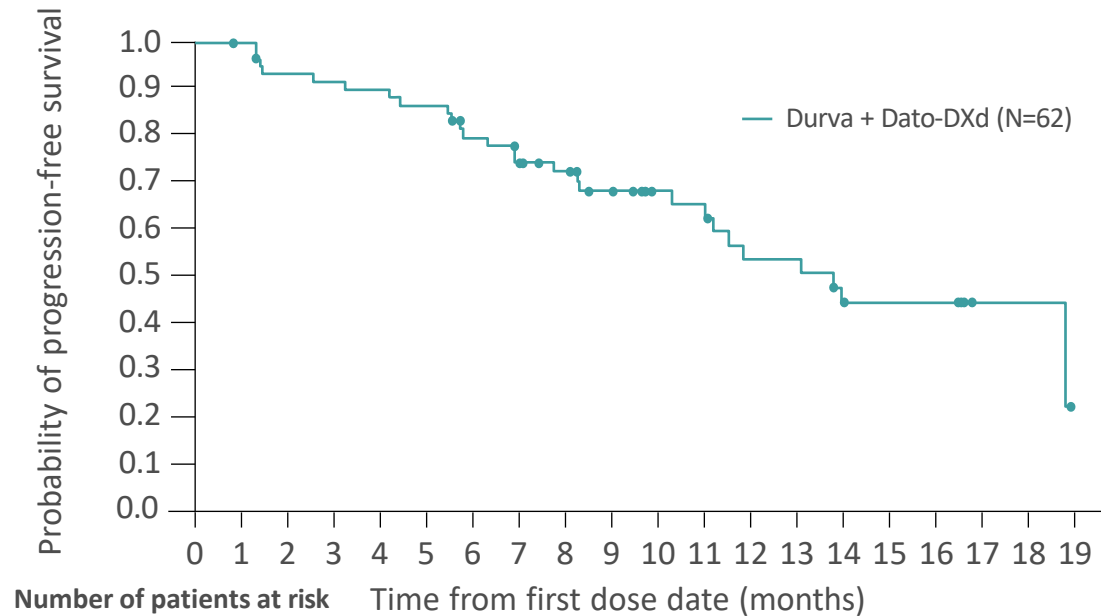
# BEGONIA Arm 7: Dato-DXd + Durvalumab



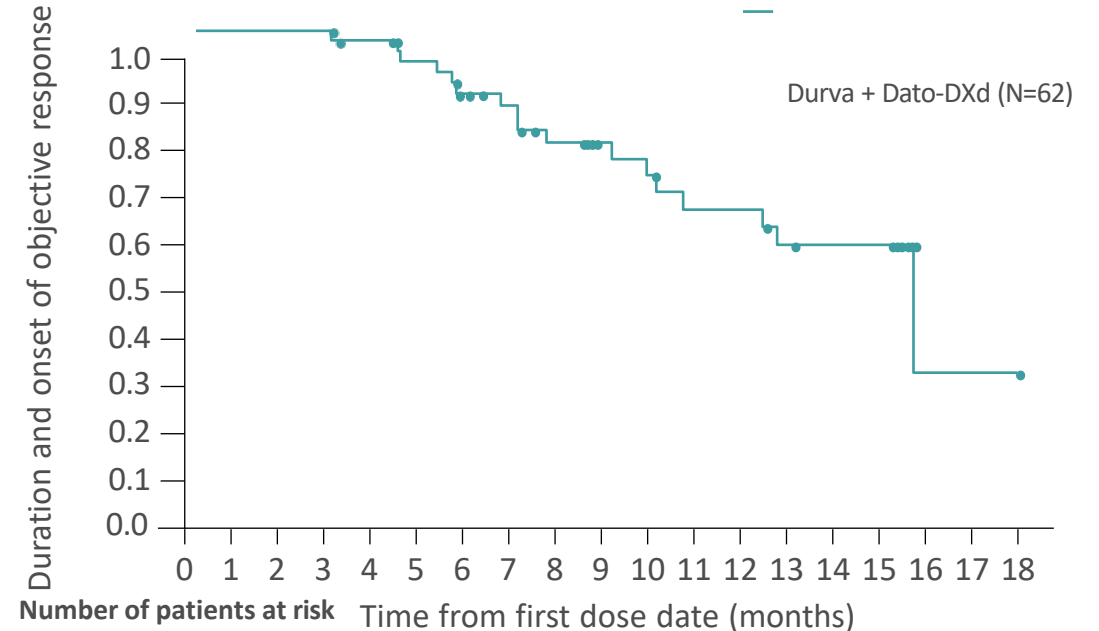
## Antitumour Responses in 1L a/mTNBC (n=62)

Confirmed ORR was **79%** (49/62; 95% CI, 66.8–88.3) with 6 CR and 43 PR Antitumor responses were observed regardless of PD-L1 expression level as assessed by 2 separate PD-L1 assays and scoring methods

### Median PFS was **13.8** months (95% CI, 11.0–NC)



### Median DoR was **15.5** months (95% CI, 9.92–NC)



Kaplan-Meier analysis was performed. Circles indicate censored observations.

CI, confidence interval; Dato-DXd, datopotamab deruxtecan; DoR, duration of response; NC, not calculable; PFS, progression-free survival.



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# Thank you