### The Implications of Recent Datasets for the Current and Future Management of Breast Cancer — An ASCO 2025 Review

A CME/MOC-Accredited Live Webinar

Wednesday, August 13, 2025 5:00 PM - 6:00 PM ET

**Faculty** 

Sara A Hurvitz, MD, FACP Sara M Tolaney, MD, MPH

**Moderator Neil Love, MD** 



### **Faculty**



Sara A Hurvitz, MD, FACP
Professor of Medicine
Smith Family Endowed Chair in Women's Health
Senior Vice President, Clinical Research Division
Fred Hutchinson Cancer Center
Head, Division of Hematology/Oncology
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MODERATOR
Neil Love, MD
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Sara M Tolaney, MD, MPH
Chief, Division of Breast Oncology
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Associate Professor of Medicine
Harvard Medical School
Boston, Massachusetts



### **Commercial Support**

This activity is supported by educational grants from AstraZeneca Pharmaceuticals LP, Gilead Sciences Inc, Lilly, and Novartis.



#### Dr Love — Disclosures

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### **Dr Tolaney** — **Disclosures**

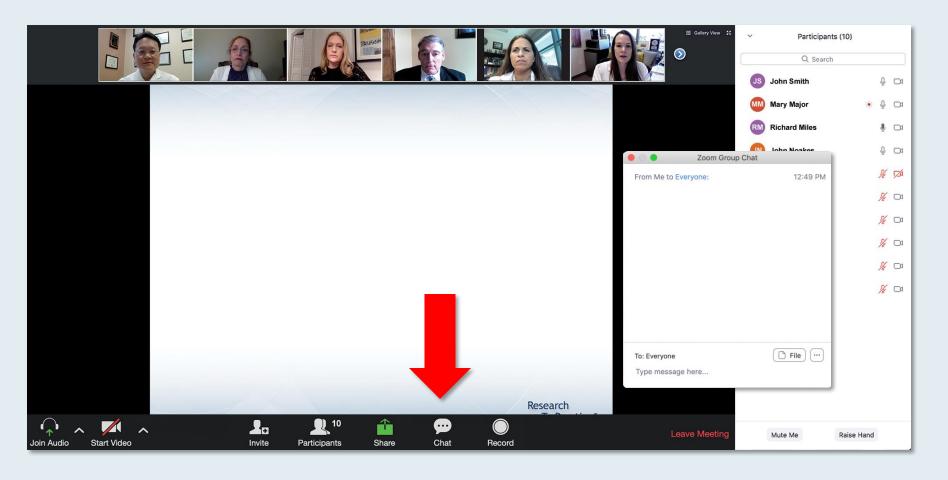
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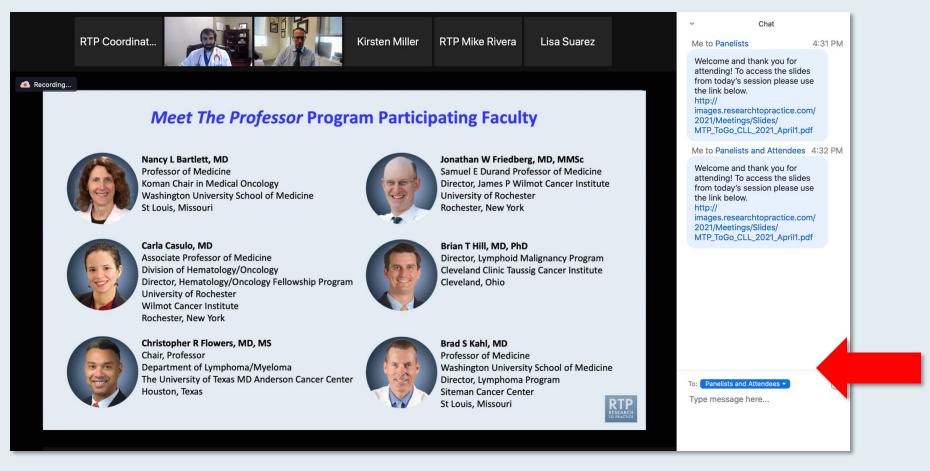


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# Breast Cancer — 5-Minute Journal Club Issue 1 with Dr Erika Hamilton: Defining the Role of TROP2-Directed Antibody-Drug Conjugates











### Selection and Sequencing of Therapy for Metastatic Triple-Negative Breast Cancer

A CME/MOC-Accredited Live Webinar

Thursday, August 28, 2025 5:00 PM - 6:00 PM ET

**Faculty** 

Ana C Garrido-Castro, MD Professor Peter Schmid, FRCP, MD, PhD

**Moderator Neil Love, MD** 



# Consensus or Controversy? Clinical Investigators Provide Perspectives on the Current and Future Care of Patients with Relapsed/Refractory Multiple Myeloma

Part 1 of a 2-Part CME/MOC-, NCPD- and ACPE-Accredited Satellite Symposium Series During the Society of Hematologic Oncology 2025 Annual Meeting

Thursday, September 4, 2025 6:42 PM – 7:42 PM CT

**Faculty** 

Meletios-Athanasios (Thanos) C Dimopoulos, MD
Hans Lee, MD
Noopur Raje, MD

Moderator Joseph Mikhael, MD, MEd



# Consensus or Controversy? Clinical Investigators Provide Perspectives on the Current and Future Care of Patients with Follicular Lymphoma

Part 2 of a 2-Part CME/MOC-, NCPD- and ACPE-Accredited Satellite Symposium Series During the Society of Hematologic Oncology 2025 Annual Meeting

Friday, September 5, 2025

11:47 AM - 12:47 PM CT

**Faculty** 

Jennifer Crombie, MD Laurie H Sehn, MD, MPH

Moderator
Jeremy S Abramson, MD, MMSc



## Addressing Current Knowledge and Practice Gaps in the Community — Optimizing the Use of Oral Selective Estrogen Receptor Degraders for Metastatic Breast Cancer, Part 2

A CME/MOC-Accredited Live Webinar

Wednesday, October 29, 2025 5:00 PM - 6:00 PM ET

**Faculty** 

Rinath M Jeselsohn, MD Joyce O'Shaughnessy, MD

**Moderator Neil Love, MD** 



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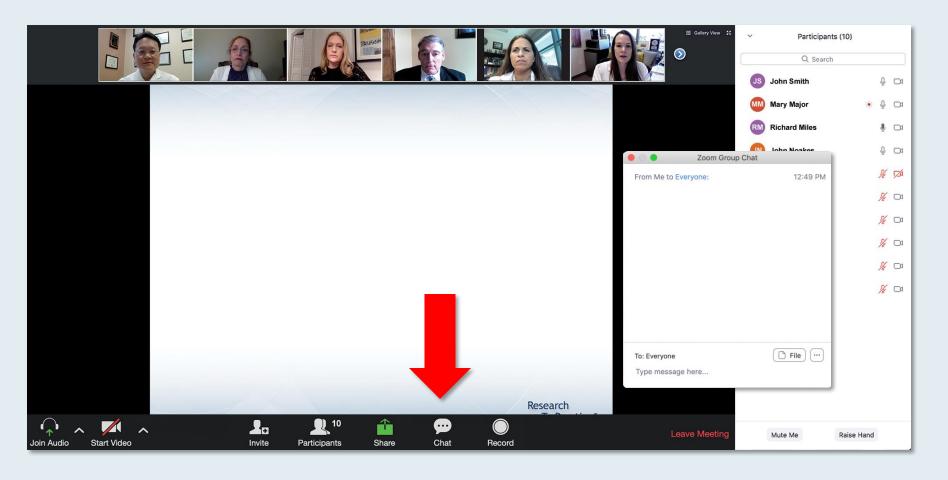
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#### **Key Datasets**

#### Sara A Hurvitz, MD, FACP

- Kalinsky K et al. Efficacy and safety of **ribociclib** (RIB) + **nonsteroidal aromatase inhibitor** (NSAI) in **NATALEE**: Analysis across **menopausal status and age**. ASCO 2025; Abstract 516.
- Mayer EL et al. The TRADE study: A phase 2 trial to assess the tolerability of abemaciclib dose escalation in early-stage HR+/HER2- breast cancer. ASCO 2025; Abstract 517.
- El Saghir NS et al. First-line (1L) ribociclib (RIB) + endocrine therapy (ET) vs combination chemotherapy (combo CT) in clinically aggressive hormone receptor (HR)+/HER2- advanced breast cancer (ABC): A subgroup analysis of patients (pts) with or without liver metastases (mets) from RIGHT Choice. ASCO 2025; Abstract 1069.
- Turner NC et al. INAVO120: Phase III trial final overall survival (OS) analysis of first-line inavolisib
   (INAVO)/placebo (PBO) + palbociclib (PALBO) + fulvestrant (FULV) in patients (pts) with PIK3CA-mutated,
   hormone receptor-positive (HR+), HER2-negative (HER2-), endocrine-resistant advanced breast cancer
   (aBC). ASCO 2025; Abstract 1003.
- Turner NC et al. Camizestrant + CDK4/6 inhibitor (CDK4/6i) for the treatment of emergent ESR1 mutations during first-line (1L) endocrine-based therapy (ET) and ahead of disease progression in patients (pts) with HR+/HER2— advanced breast cancer (ABC): Phase 3, double-blind ctDNA-guided SERENA-6 trial. ASCO 2025; Abstract LBA4.
- Curigliano G et al. Patient-reported outcomes (PROs) in patients with ER+, HER2- advanced breast cancer (ABC) treated with imlunestrant, investigator's choice standard endocrine therapy, or imlunestrant + abemaciclib: Results from the phase III EMBER-3 trial. ASCO 2025; Abstract 1001.



### **Key Datasets**

#### Sara A Hurvitz, MD, FACP

- O'Shaughnessy J et al. **Imlunestrant** with or without **abemaciclib** in advanced breast cancer (ABC): **Safety** analyses from the phase III **EMBER-3** trial. ASCO 2025; Abstract 1060.
- Turner NC et al. **Capivasertib** in **hormone receptor-positive** advanced breast cancer. *N Engl J Med* 2023;388(22):2058-70.
- Hamilton EP et al. Vepdegestrant, a PROTAC estrogen receptor (ER) degrader, vs fulvestrant in ERpositive/human epidermal growth factor receptor 2 (HER2)-negative advanced breast cancer: Results of the
  global, randomized, phase 3 VERITAC-2 study. ASCO 2025; Abstract LBA1000.
- Dent RA et al. Exploratory biomarker analysis of **trastuzumab deruxtecan** (T-DXd) vs physician's choice of chemotherapy (TPC) in **HER2-low/ultralow**, hormone receptor–positive **(HR+)** metastatic breast cancer (mBC) in **DESTINY-Breast06** (DB-06). ASCO 2025; Abstract 1013.
- De Brot M et al. Use of **artificial intelligence**—assistance software for **HER2-low** and **HER2-ultralow IHC** interpretation training to improve diagnostic accuracy of pathologists and expand patients' eligibility for HER2-targeted treatment. ASCO 2025; Abstract 1014.
- Bardia A et al. **Datopotamab deruxtecan** versus chemotherapy in **previously treated** inoperable/metastatic hormone receptor-positive **human epidermal growth factor receptor 2-negative** breast cancer: Primary results **from TROPION-Breast01**. *J Clin Oncol* 2025;43(3):285-96.



### **Key Datasets**

#### Sara M Tolaney, MD, MPH

- Tolaney SM et al. Trastuzumab deruxtecan (T-DXd) + pertuzumab (P) vs taxane + trastuzumab + pertuzumab (THP) for first-line (1L) treatment of patients (pts) with human epidermal growth factor receptor 2-positive (HER2+) advanced/metastatic breast cancer (a/mBC): Interim results from DESTINY-Breast09. ASCO 2025; Abstract LBA1008.
- Rugo HS et al. Treatment rechallenge after trastuzumab-deruxtecan—related interstitial lung disease: A
  multi-institution cohort study. ASCO 2025; Abstract 1015.
- Sammons SL et al. **Brain metastases** in metastatic breast cancer: **Prevalence per line of treatment** and cumulative incidence in a cohort of 18075 real-world patients. SABCS 2023; Abstract PS11-01.
- Lin NU et al. **Tucatinib** versus placebo added to **trastuzumab and capecitabine** for patients with **previously treated HER2+** metastatic breast cancer **with brain metastases (HER2CLIMB)**. ASCO 2020; Abstract 1005.
- Lin NU et al. **Trastuzumab deruxtecan** (T-DXd) in patients (pts) with **HER2+** advanced/metastatic breast cancer (mBC) with or without brain metastases (BM): **DESTINYBreast-12** primary results. ESMO 2024; Abstract LBA18.
- Gao H-F et al. De-escalated neoadjuvant taxane plus trastuzumab and pertuzumab with or without carboplatin in HER2-positive early breast cancer (neoCARHP): A multicentre, open-label, randomised, phase 3 trial. ASCO 2025; Abstract LBA500.
- Garber J et al. OlympiA: A phase 3, multicenter, randomized, placebo-controlled trial of adjuvant olaparib
  after (neo)adjuvant chemotherapy in patients with germline BRCA1 and/or BRCA2 pathogenic variants and
  high risk HER2-negative primary breast cancer: Longer term follow-up. SABCS 2024; Abstract GS1-09.



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### Sara M Tolaney, MD, MPH

- Singer CF et al. Prospective randomized phase II trial to assess the efficacy and safety of neo-adjuvant olaparib/carboplatin (OC) in comparison to docetaxel/epirubicin/cyclophosphamide (TAC) in patients with early triple-negative breast cancer (TNBC) with homologous recombination deficiency (HRD): Primary results from the ABCSG 45 trial. ASCO 2025; Abstract 510.
- Tolaney SM et al. Sacituzumab govitecan (SG) + pembrolizumab (pembro) vs chemotherapy (chemo) + pembro in previously untreated PD-L1—positive advanced triple-negative breast cancer (TNBC): Primary results from the randomized phase 3 ASCENT-04/KEYNOTE-D19 study. ASCO 2025; Abstract LBA109.
- Yin Y et al. **Sacituzumab tirumotecan** (sac-TMT) as **first-line** treatment for unresectable locally advanced/metastatic **triple-negative** breast cancer (a/mTNBC): Initial results from the phase II **OptiTROP-Breast05 study**. ASCO 2025; Abstract 1019.
- O'Shaughnessy J et al. HERTHENA-Breast03: A phase 2, randomized, open-label study evaluating
   neoadjuvant patritumab deruxtecan + pembrolizumab before or after pembrolizumab + chemotherapy for
   early-stage TNBC or HR-low+/HER2- breast cancer. ASCO 2025; Abstract 629.



## **Agenda**

**Introduction:** View from Outer Space

**Module 1:** Hormone Receptor (HR)-Positive Breast Cancer

**Module 2: HER2-Positive Breast Cancer** 

**Module 3: Triple-Negative Breast Cancer** 



## **Agenda**

### **Introduction: View from Outer Space**

**Module 1: HR-Positive Breast Cancer** 

**Module 2: HER2-Positive Breast Cancer** 

**Module 3: Triple-Negative Breast Cancer** 



## **Agenda**

**Introduction:** View from Outer Space

**Module 1: HR-Positive Breast Cancer** 

**Module 2: HER2-Positive Breast Cancer** 

**Module 3: Triple-Negative Breast Cancer** 



### **Post-ASCO** Review

### Sara A. Hurvitz, MD, FACP

Professor of Medicine
Head, Division of Hematology/Oncology,
University of Washington School of Medicine
Senior Vice President, Clinical Research Division,
Fred Hutchinson Cancer Center





# NATALEE Outcome by Menopausal Status/Age

- Adult pts with HR+/HER2- EBC
- Prior ET allowed ≤12 mo prior to randomization
- Anatomical stage IIA<sup>a</sup>
  - N0 with:
    - · Grade 2 and evidence of high risk:
    - Ki-67 ≥20%
    - Oncotype DX Breast Recurrence Score
       ≥26 or
    - High risk via genomic risk profiling
    - Grade 3
  - N1
- Anatomical stage IIB<sup>a</sup>
  - N0 or N1
- Anatomical stage III
  - N0, N1, N2, or N3

N = 5101b

Randomization stratification Anatomical stage: || vs |||

Menopausal status: men and premenopausal women vs postmenopausal women

Receipt of prior (neo)adjuvant chemotherapy: yes vs no

Geographic location: North America/Western Europe/Oceania vs rest of world

### RIB

400 mg/day 3 weeks on/1 week off for 3 years

NSAI

for ≥5 years

+ goserelin in men and
premenopausal women

#### NSAI

Letrozole or anastrozoled for ≥5 years + goserelin in men and premenopausal women Primary end point

iDFS using STEEP criteria

### Secondary end points

- Recurrence-free survival
- · Distant disease-free survival
- OS
- · Safety and tolerability
- PROs
- PK

End points included in this presentation

Statistical comparisons were performed using a Cox proportional hazards model and the Kaplan-Meier method

Data cutoff: April 29, 2024

ctDNA/RNA, circulating tumor DNA/RNA; EBC, early breast cancer; ET, endocrine therapy; HER2, human epidermal growth factor receptor 2; HR, hormone receptor; iDFS, invasive disease—free survivat; NSAI, nonsteroidal aromatase inhibitor; OS, overall survivat; PK, pharmacokinetics; PRO, patient-reported outcome; pt, patient; R, randomized; RIB, ribocicib; STEEP, Standardized Definitions for Efficacy End Points in Adjuvant Breast Cancer Trials.

\* Enrollment of pts with stage II disease was capped at 40%, \* 5101 pts were randomized from January 10, 2019, to April 20, 2021, \* Open-label design, \* Per investigator choice.

Fasching PA et al. Oral presented at: ESMO 2024; Sept 13-17, 2024; Barcelona, Spain. Oral LBA13.







R 1:1°

### Consistent Efficacy Outcomes in Premenopausal Patients<sup>a</sup>

	All		<40	years	≥40 y	/ears
n = 2238	RIB + NSAI n = 1115	NSAI alone n = 1123	RIB + NSAI n = 237	NSAI alone n = 276	RIB + NSAI n = 878	NSAI alone n = 847
IDFS						
Events, n	99	136	27	37	72	99
4-y rate, %	90.6%	85.3%	88.6%	82.3%	91.2%	86.2%
4-y ΔIDFS, %	∆5.3	%	Δ6	.3%	Δ5.	0%
HR <sup>b</sup> (95% CI)	0.671 (0.51)	8-0.870)	0.690 (0.	419-1.137)	0.662 (0.4	88-0.897)
DDFS	·	,	· ·	·	,	,
Events, n	88	124	24	35	64	89
4-y rate, %	91.6%	86.6%	90.0%	83.0%	92.0%	87.6%
4-y ΔDDFS, %	∆5.0	%	Δ7	.0%	Δ4.	4%
HR <sup>b</sup> (95% CI)	0.655 (0.49	8-0.861)	0.647 (0.	383-1.091)	0.659 (0.4	78-0.908)
RFS	·	·	· ·	· ·	·	·
Events, n	85	122	25	33	60	89
4-y rate, %	92.0%	86.6%	89.5%	84.0%	92.7%	87.4%
4-y ΔRFS, %	Δ5.4	%	Δ5	.5%	Δ5.	3%
HR <sup>b</sup> (95% CI)	0.641 (0.486-0.845)		0.723 (0.429-1.220)		0.610 (0.439-0.846)	
DRFS	,	,	· ·	,	,	,
Events, n	77	113	23	33	54	80
4-y rate, %	92.7%	87.6%	90.4%	83.9%	93.3%	88.6%
4-y ΔDRFS, %	Δ5.1	%	Δ6	.5%	Δ4.	7%
HR <sup>b</sup> (95% CI)	0.627 (0.46	9-0.837)	0.659 (0.	386-1.126)	0.615 (0.4	35-0.869)

<sup>.</sup> As the trial was not powered to detect differences in these exploratory analyses, the results should be interpreted with caution

DDFs, distant disease-free survival; DRFs, distant relapse-free survival; FSH, folicie-stimulating hormone; HR, hazard ratio; IDFs, invasive disease-free survival; NSAI, nonsteroidal aromatase inhibitor; pt, patient; RFS, relapse-free survival; RIB, ribocicit.

\*Postmenopausal status was defined as 1 or the foliowine; pilateral expression; and FSH and glasma estradiol in the postmenopausal range per local laboratories; or, if on tamositien or foremitiene and age-60 years, FSH and plasma estradiol in the postmenopausal range. All women who do not meet the criteria for postmenopausal status are considered premenopausal. \*HRs between treatment arms (RIB + NSAI; NSAI alone), stratified by stage, prior chemotherapy, and geographic region.

Data on file. NATALEE CLEEDIO 10732010 (TRISO33). Clinical study protocol. V4.0. Novaris Pharmaceuticals Corp; August 27, 2020.





PRESENTED BY: Kevin Kalinsky, MD, MS, FASCO

• Fewer dose discontinuations due to AE in premenopausal (16% vs 23%) and younger (<40 yo, 10.5% vs ≥40 yo, 17.5%)

# NATALEE

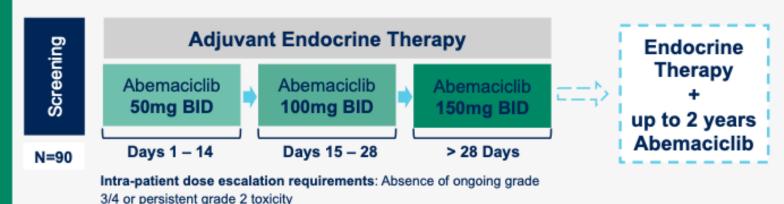
### Consistent Efficacy Outcomes in Postmenopausal Patients<sup>a</sup>

_	A	ll .	<60	years	≥60 y	ears
n = 2844	RIB + NSAI	NSAI alone	RIB + NSAI	NSAI alone	RIB + NSAI	NSAI alone
11 - 2044	n = 1424	n = 1420	n = 703	n = 735	n = 721	n = 685
IDFS						
Events, n	164	203	82	91	82	112
4-y rate, %	86.8%	82.2%	86.7%	84.0%	86.8%	80.4%
4-y ΔIDFS, %	Δ4.	6%	Δ2	2.7%	Δ6.4	1%
HRb (95% CI)	0.746 (0.6	07-0.917)	0.835 (0.	619-1.128)	0.673 (0.50	06-0.896)
DDFS	·		·		·	•
Events, n	152	186	76	83	76	103
4-y rate, %	87.7%	83.6%	87.6%	85.4%	87.8%	81.9%
4-y ΔDDFS, %	Δ4.	1%	Δ2	2.2%	Δ5.9	9%
HR <sup>b</sup> (95% CI)	0.759 (0.6	12-0.941)	0.854 (0.	625-1.168)	0.681 (0.50	06-0.916)
RFS	·					·
Events, n	139	175	72	82	67	93
4-y rate, %	88.8%	84.5%	88.3%	85.5%	89.3%	83.5%
4-y ΔRFS, %	Δ4.	3%	Δ2	2.8%	Δ5.8	3%
HRb (95% CI)	0.735 (0.5	88-0.919)	0.811 (0.	590-1.114)	0.668 (0.48	37-0.915)
DRFS					·	
Events, n	133	162	68	75	65	87
4-y rate, %	89.2%	85.6%	88.8%	86.7%	89.6%	84.6%
4-y ΔDRFS, %	Δ3.	6%	Δ	2.1%	Δ5.0	1%
HR <sup>b</sup> (95% CI)	0.763 (0.6	06-0.960)	0.842 (0.	606-1.172)	0.693 (0.50	02-0.956)

# TRADE Study: Dose escalation of abemaciclib

## **TRADE: Design**

- HR-positive, HER2negative, early breast cancer
- Adjuvant abemaciclib is indicated based on patient risk/stage



#### PRIMARY ENDPOINT:

 Composite Adverse Event Rate: Discontinuation of adjuvant abemaciclib for any reason and/or inability to reach or maintain target dose of 150 mg BID by 12 weeks of therapy

#### SECONDARY ENDPOINTS:

 Treatment-emergent adverse effects, discontinuation / hold rates, incidence of grade ≥2 diarrhea, quality of life, adherence, dose intensity, correlative science

#### STATISTICAL DESIGN:

Supportive care, including anti-diarrhea medication, provided as needed

- Experimental hypothesis: a dose-escalation schedule will significantly reduce the composite adverse event rate at 12 weeks from a baseline of 40%, based on monarchE
- Sample size: 90 patients provides 92% power, against an alternative of 25%, with a 1-sided test at a significance level of 0.07, assuming drop-out rate of 10%





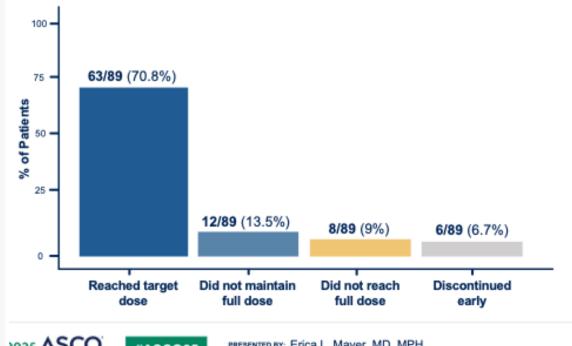


### TRADE Results

Clinically Relevant TEAE	≥ Grade 2 N (%)	Grade 2 N (%)	Grade 3 N (%)	Grade 4 N (%)
Any event	67 (74.4)	49 (54.4)	17 (18.9)	1 (1.1)
Diarrhea	24 (26.7)	21 (23.3)	3 (3.3)	-
Neutropenia	22 (24.4)	19 (21.1)	2 (2.2)	1 (1.1)
Fatigue	19 (21.1)	19 (21.1)	=	-
WBC decreased	13 (14.4)	12 (13.3)	1 (1.1)	-
Pneumonitis	3 (3.3)	3 (3.3)	-	-
ALT elevation	3 (3.3)	1 (1.1)	2 (2.2)	-
AST elevation	2 (2.2)	2 2.2)	=:	_
Thromboembolic event	1 (1.1)	-	1 (1.1)	-

Of 89 evaluable patients, 26 (29.2%; 90% CI [21.3-38.2]; p=0.046) met the primary endpoint at 12 weeks:

- 12 (13.5%) for inability to maintain target dose of 150 mg BID
- 8 (9.0%) for inability to reach 150 mg BID
- 6 (6.7%) for early discontinuation (3 [3.4%] for toxicity)





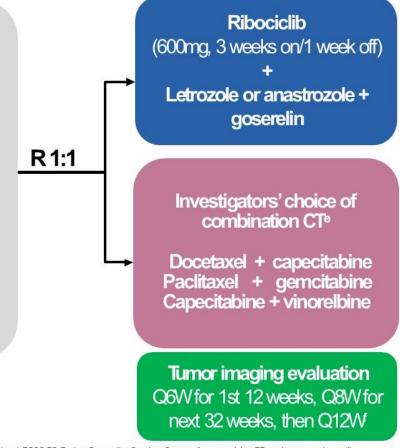
#ASCO25

PRESENTED BY: Erica L. Mayer, MD, MPH

# RIGHT Choice: Outcome based on Presence of Liver Metastases

- Pre-/perimenopausal women
- HR+/HER2-ABC (>10% ER+)
- No prior systemic therapy for ABC
- Measurable disease per RECIST 1.1
- Aggressive disease<sup>a</sup>
  - Symptomatic visceral metastases
  - Rapid disease progression or impending visceral compromise
  - Markedly symptomatic nonvisceral disease
- ECOG PS ≤ 2<sup>b</sup>
- Total bilirubin ≤ 1.5 ULN
- N = 222°

Stratified by (1) the presence or absence of liver metastases and by (2) DFId< or ≥2 years



### Primary endpoint

 PFS (locally assessed per RECIST 1.1)

### Secondary endpoints

- TTF
- 3-month TFR
- ORR
- CBR
- TTR
- OS
- Safety
- QOL

### **Exploratory endpoints**

- Biomarker analyses
- Healthcare resource utilization

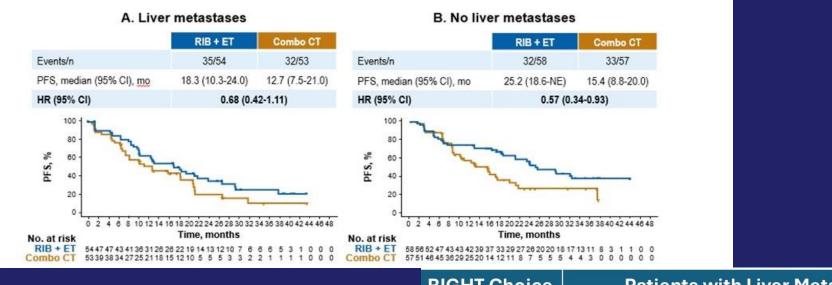
ABC, advanced breast cancer; CBR, clinical benefit rate; CT, chemotherapy; DFI, disease-free interval; ECOG PS, Eastern Cooperative Oncology Group performance status; ER+, estrogen receptor positive;
HER2-, human epidermal growth factor receptor 2 negative; HR+, hormone receptor positive; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; Q6W, every 6 weeks; Q12W, every 12 weeks; Q12W, every 12 weeks; Q12W, every 12 weeks; Q12W, every 13 weeks; Q12W, every 14 weeks; Q12W, every 15 weeks; Q12W, every 16 weeks; Q12W, every 16 weeks; Q12W, every 18 weeks; Q12W, every 18 weeks; Q12W, every 19 weeks; Q12W

a Where combination CT is clinically indicated by physician's judgment; For patients with ECOG 2, the poor performance status should be due to breast cancer; Patients were enrolled from Feb 2019 to Nov 2021; Patients were enrolled from Feb 2019 t

Disease-free interval is defined as the duration from date of complete tumor resection for primary breast cancer lesion to the date of documented disease recurrence; of one of the combination CT drugs had to be stopped because of toxicity, the patient was allowed to continue on the other, better-tolerated CT drug (monotherapy); fundid disease progression, death, withdrawal of consent, loss to follow-up, or patient/guardian decision, and at end of treatment.

### **PFS in Patients With and Without Liver Metastases**

- Patients with liver metastases receiving RIB + ET showed a 32% relative reduction in risk of disease progression or death vs those receiving combo CT, with a 5.6 mo longer median PFS (mPFS) (Figure 2A)
- In patients without liver metastases, RIB + ET was associated with a 43% relative reduction in risk of disease progression or death vs combo CT, with a 9.8 mo longer mPFS (Figure 2B)



(222 pts)	The second secon	ents with Live 48%); VC in 69		115 pts (52%); VC in 37 pts (32%)			
Arm	Ribo + ET	Combo CT		Ribo + ET	Combo CT		
mPFS	18.3 mo	12.7 mo	(HR: 0.68)	25.3 mo	15.4 mo	(HR: 0.57)	
mTTF	13.2 mo	8.3 mo	(HR: 0.60)	24.0 mo	10.0 mo	(HR: 0.44)	
CBR (CR, PR, Stable 6+ mo)	77.8%	67.9%		84.5%	80.7%		
ORR (CR, PR)	64.8%	60.4%		67.2%	63.2%		
mTTR	6.4 m	3.0		4.6 mo	4.5 mo		
mTTD (FACT-B)	37.7 mo	18.4 mo		29.9-NE	15.1-NE		

El Saghir NS et al. ASCO 2025; Abstract 1069

### **INAVO120 Overall Survival Data**

# INAVO120: A Phase III, randomized, double-blind, placebo-controlled study<sup>1,2</sup>

### 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%</li>

Enrollment period: January 2020 to September 2023

Inavolisib (9 mg PO QD)
+ palbociclib (125 mg PO QD D1-D21)
+ fulvestrant (500 mg C1D1/15 and Q4W)†

Placebo (PO QD) + palbociclib (125 mg PO QD D1–D21) + fulvestrant (500 mg C1D1/15 and Q4W)<sup>†</sup> Until PD or toxicity

SURVIVAL FOLLOW-UP

#### Stratification factors:

- · Visceral disease (yes vs. no)
- Endocrine resistance (primary vs. secondary)<sup>‡</sup>
- Region (North America/Western Europe vs. Asia vs. Other)
- Primary endpoint: Investigator-assessed PFS
- Secondary endpoints included: OS; investigator-assessed ORR, BOR, CBR, and DoR; PROs

N = 325

ClinicalTrials.gov number, NCT04191499.

Adapted from Jhaveri KJ, et al. SABCS 2023 (Abstract GS03-13). \* Central testing for PIK3CA mutations was done on ctDNA using FoundationOne\*Liquid (Foundation Medicine, Inc.). In China, the central ctDNA test was the PredicineCARE NGS assay (Huidu); † Pre-menopausal women received ovarian suppression; † Defined per 4th European School of Oncology (ESO)-European Society for Medical Oncology (ESMO) International Consensus Guidelines for Advanced Breast Cancer.³ 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. aBC, advanced breast cancer; BOR, best overall response; C, cycle; CBR, clinical benefit rate; ctDNA, circulating tumor DNA; D, day; DoR, duration of response; ET, endocrine therapy; HbA<sub>1c</sub>, glycated hemoglobin; HER2-, HER2-negative;

HR+, hormone receptor-positive; NGS, next-generation sequencing; ORR, objective response rate; OS, overall survival; PD, progressive disease; PFS, progression-free survival; PO, by mouth; PRO, patient-reported outcome; Q4W, every 4 weeks; QD, daily; R, randomization.

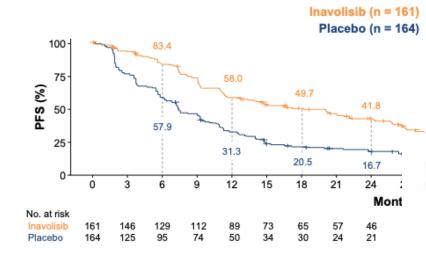








### **INAVO120 updated PFS**



### The improvement in PFS was

Data cutoff: November 15, 2024.
CI, confidence interval; PFS, progression-free survival. © Copyright 2025

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#ASCO25

PRESENTED BY: Nicholas Turner, MD, PhD

- ORR 63% vs 28%
- DOR 19.2 m vs 11.1 m

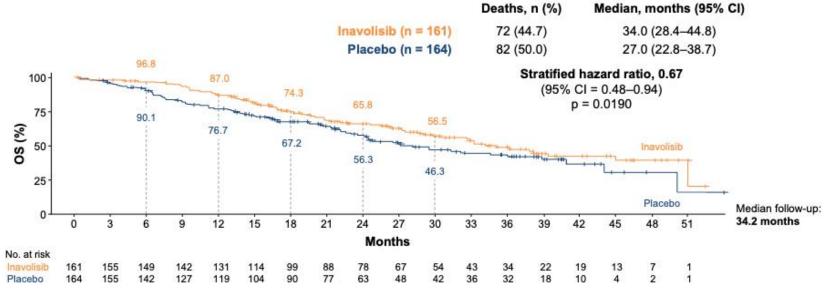
#### Events, n (%) Median, months (95% CI)

103 (64.0) 17.2 (11.6–22.2) 141 (86.0) 7.3 (5.9–9.2)

> Stratified hazard ratio, 0.42 (95% CI = 0.32–0.55)

> > Inavolisih

### INAVO120 key secondary endpoint: OS



Improvement in median OS: 7 months. The prespecified boundary for statistical significance (p < 0.0469) was crossed

Data cutoff: November 15, 2024. Cl, confidence interval; OS, overall survival. © Copyright 2025.









# **INAVO120 Updated Safety**

### **INAVO120** overview of AEs

Patients, n (%) with at least one:	Inavolisib (n = 161)
Any-grade AE	161 (100)
Grade 3–4 AE	146 (90.7)
Grade 5 AE*	6 (3.7
Serious AE	44 (27
AE leading to discontinuation of treatment	IN
Inavolisib/placebo	11 (6.
Palbociclib	10 (6.
Fulvestrant	6 (3.
AE leading to dose reduction of treatment	Pat
Inavolisib/placebo	24 (14 <b>Ne</b> u
Palbociclib	65 (40 Thr

#### There was a low discontinuation rate du

Data cutoff: November 15, 2024. AE severity was graded per National Cancer Institute Common Terminology Criteria for AEs v5.0. \* None of the grade 5 AEs w The grade 5 AEs reported were cerebral hemorrhage, cerebrovascular accident, gastrointestinal hemorrhage, acute coronary syndrome, death, and COVID-19 is AE, adverse event 1. Tumer NC, et al. N Engl J Med 2024; 391:1584–1596. © Copyright 2025.





PRESENTED BY: Nicholas Turner, MD, PhD

### **INAVO120** selected AEs\*

Placebo (n = 163) 163 (100)

138 (84.7)

	Inavolisib (n = 161)		Placebo	(n = 163)
Patients, n (%)	Any grade	Grade 3 or 4	Any grade	Grade 3 or 4
Neutropenia	147 (91.3)	133 (82.6)	148 (90.8)	131 (80.4)
Thrombocytopenia	80 (49.7)	22 (13.7)	75 (46.0)	8 (4.9)
Stomatitis or mucosal inflammation	89 (55.3)	9 (5.6)	47 (28.8)	0
Anemia	64 (39.8)	11 (6.8)	62 (38.0)	3 (1.8)
Hyperglycemia	102 (63.4)	11 (6.8)	22 (13.5)	0
Diarrhea <sup>†</sup>	84 (52.2)	6 (3.7)	26 (16.0)	0
Nausea	47 (29.2)	0	32 (19.6)	0
Rash	43 (26.7)	0	32 (19.6)	1 (0.6)
Ocular toxicities <sup>‡</sup>	47 (29.2)	1 (0.6)	26 (16.0)	0
Aspartate transaminase/ alanine transaminase increase	34 (21.1)	7 (4.3)	37 (22.7)	4 (2.5)
Vomiting	26 (16.1)	2 (1.2)	10 (6.1)	2 (1.2)
Lymphopenia	6 (3.7)	1 (0.6)	15 (9.2)	3 (1.8)
Pneumonitis§	5 (3.1)	1 (0.6)	2 (1.2)	0

#### Longer exposure to inavolisib did not lead to a new safety signal, nor changes in the safety profile

Data cutoff: November 15, 2024. AEs in bold are key risks. \* Grouped by medical concept; † Grade 2 (which is impactful on quality of life) in 29 patients (18.0%) in the inavolisib group and in seven patients (4.3%) in the placebo group; All were grades 1 or 2. with the exception of one Grade 3 cataract unrelated to inavolisib treatment

\* The most common ocular toxicities observed were dry eye in 14 patients in the inavolisib group (8.7%) and seven patients in the placebo group (4.3%), and blurred vision in eight (5.0%) and two patients (1.2%), respectively.

5 Two patients each (1.2%) at grades 1 and 2. AE, adverse event. © Copyright 2025.

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PRESENTED BY: Nicholas Turner, MD, PhD



# SERENA-6: Using ctDNA to guide switch

### ESR1m surveillance during first-line Al+CDK4/6i





Screened, N=3325

Patients on first-line AI + CDK4/6i for ≥6 months



Patients tested for ESR1m in ctDNA with Guardant360 CDx every 2–3 months at time of routine staging scans

Patients ongoing in surveillance when screening closed, n=1949





N=315



### **SERENA-6 study design**

Phase III, randomized, double-blind, placebo-controlled study (NCT04964934)

- Female/male patients with ER+/HER2-ABC\*
- All patients that have received AI + CDK4/6i (palbociclib, ribociclib, or abemaciclib) as initial endocrine-based therapy for ABC for at least 6 months
- ESR1m detected in ctDNA with no evidence of disease progression

Camizestrant (75 mg qd) + continuing CDK4/6i + placebo for Al

#### Stratification factors

- · Visceral vs non-visceral
- ESR1m detection at first test vs at a subsequent test
- Time from initiation of AI + CDK4/6i to randomization: <18 vs ≥18 months</li>
- Palbociclib vs ribociclib vs abemaciclib

Continuing AI (anastrozole/ letrozole) + CDK4/6i + placebo for camizestrant

Treatment continued until disease progression, unacceptable toxicity, patient withdrawal or death

#### Primary endpoint

PFS by investigator assessment (RECIST v1.1)

#### Secondary endpoints

- PFS2\*\*
- OS\*\*
- Safety
- Patient-reported outcomes

\*Pre- or perimenopausal women, and men received a luteinizing hormone-releasing hormone agonist per clinical guidelines. \*\*Key secondary endpoint OS, overall survival; PFS2, second progression-free survival; qd, once daily dose; R, randomized; RECIST, response evaluation criteria in solid tumors.

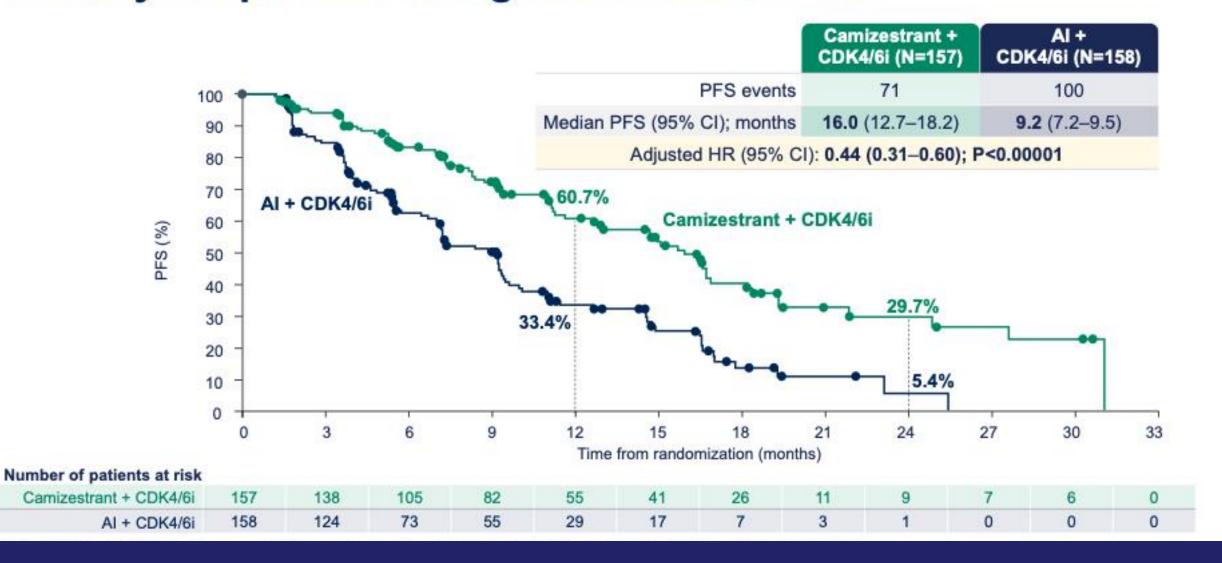








# Primary endpoint: Investigator-assessed PFS

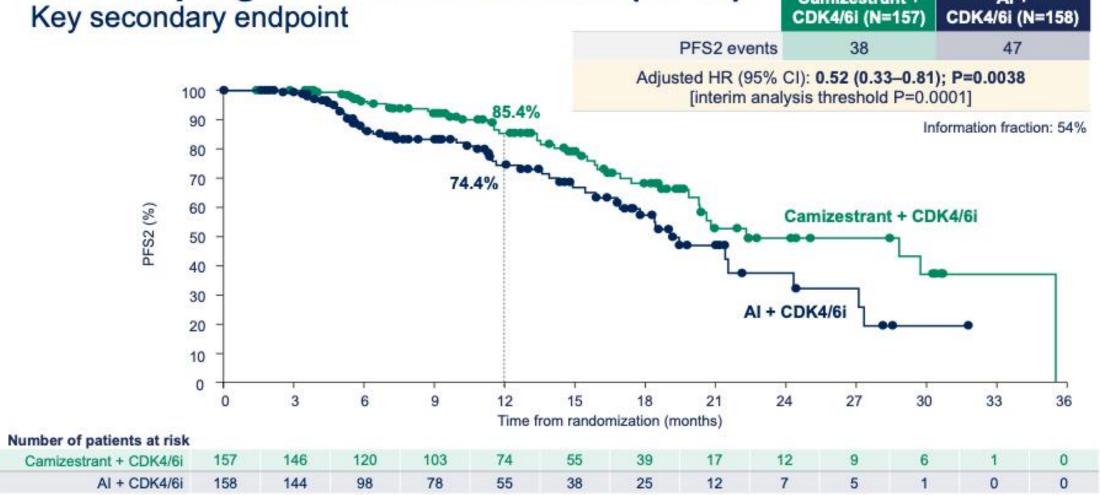




AI+

Camizestrant +

Second progression-free survival (PFS2)



HR was estimated using the Cox proportional hazard model adjusted for stratification factors. Final PFS2 analysis will occur at 158 PFS2 events.

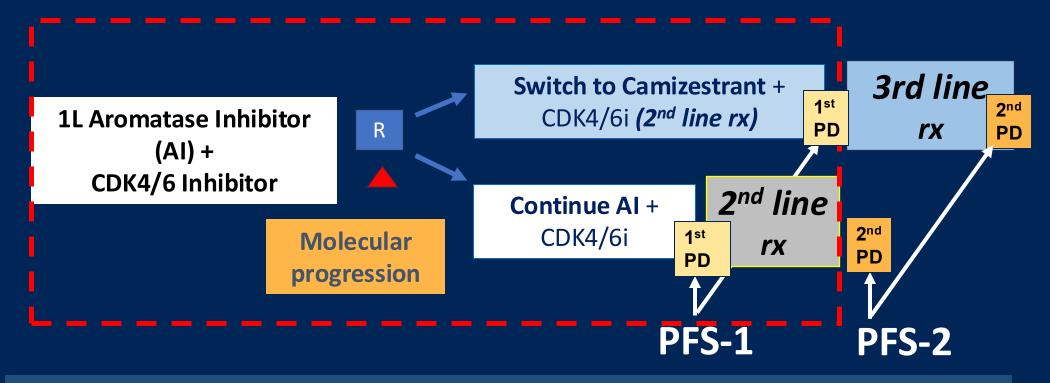






# **PFS-2 in SERENA-6**

### **Standard PFS-2**



Should PFS-2 include 3<sup>rd</sup> line therapy? Is SERENA-6 PFS-2 a valid surrogate for overall survival?

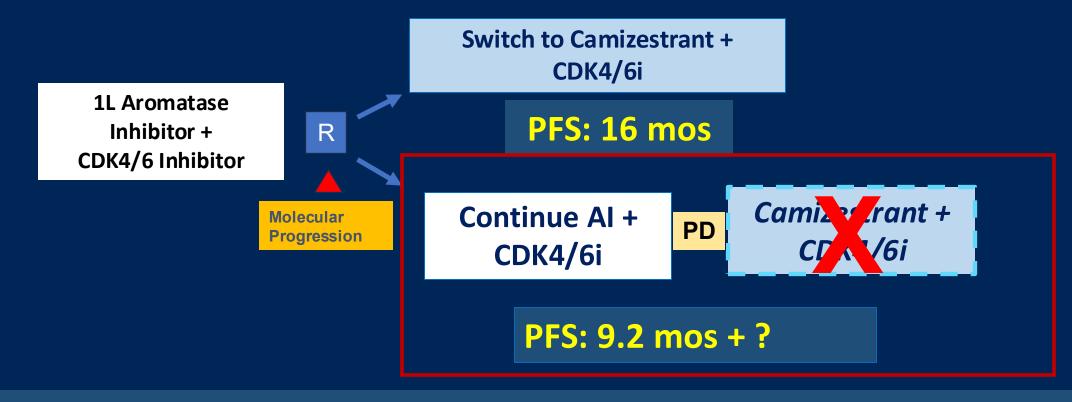








# Lack of crossover limits clinical utility assessment



 No direct comparison of response time or overall strategy with switch at molecular vs. anatomic progression



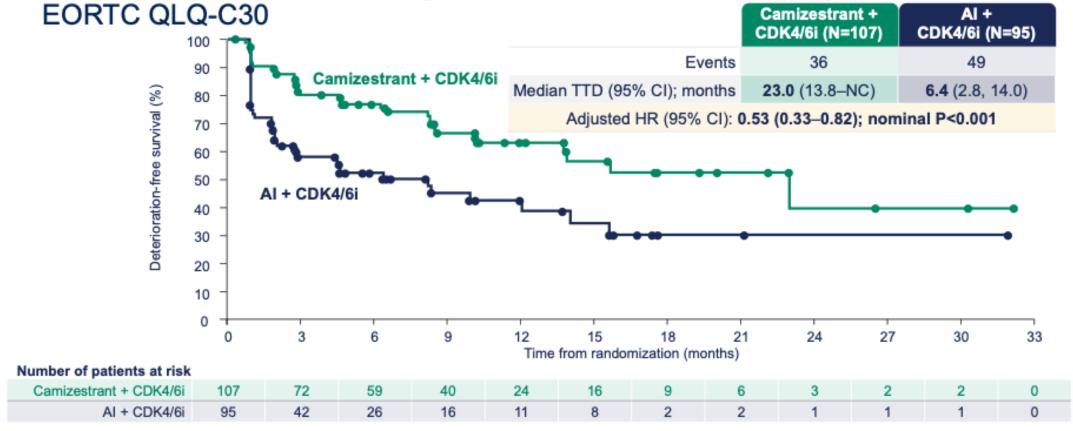








Time to deterioration in global health status/quality of life



Camizestrant + CDK4/6i also delayed the time to deterioration in pain compared with AI + CDK4/6i

Assessments were conducted at baseline, weeks 4, 8 and 12 and then every 8 weeks until PFS2. Analysis conducted in patients with a baseline score and at least one post-baseline assessment. TTD in global health status/quality of life, an exploratory endpoint, was defined as the time from randomization to first deterioration that was confirmed at a subsequent timepoint measured using the European Organization for Research and Treatment of Cancer 30-item quality-of-life questionnaire (EORTC QLQ-30). Deterioration was defined as a decrease from baseline ≥16.6. HR was estimated using the Cox proportional hazard model stratified by time of ESR1m detection (one test vs more than one test), and time from initiation of AI + CDK4/6i to randomization (<18 months vs. ≥18 months). NC, not calculable; TTD, time-to-deterioration.

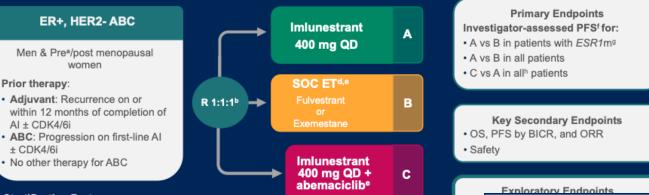






# **EMBER-3 Safety Update**

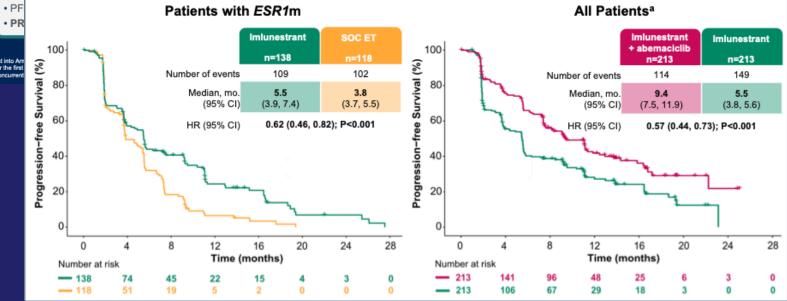
### **EMBER-3 Study Design**



#### Stratification Factors:

- Prior CDK4/6i therapy (Yes/No)
- Visceral metastases (Yes/No)
- Region<sup>c</sup>

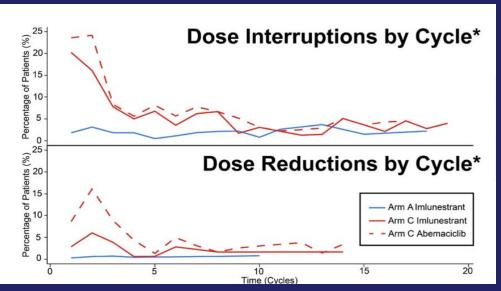
Patients were enrolled from October 2021 to November 2023 across 195 sites in 22 countries. \* A GRRH agonist was required in men and premenopausal women; \* Enrollment into Arr patients had been randomized across Arms A and [s. East Asia v. United States/European Union vs others; \* Investigator's choice; \* Labeled dose; \* Scans every 8 weeks for the first determined in baseline plasma by the Guardant 380 ctDNA assay and OncoCompass Plus assay (Burning Rock Biotech) for patients from Chins; \* Analysis conducted in all concurrent;

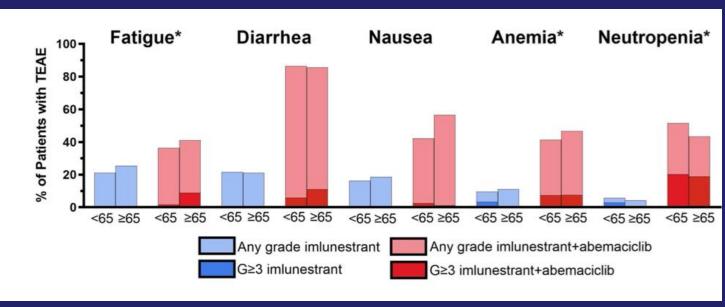


PFS improved with imlunestrant vs SOC ET in patients with ESR1m, and with imlunestrant + abemaciclib vs imlunestrant in all patients regardless of ESR1m status

# **EMBER-3 SAFETY**

G1 AE Nausea N=327 N=324 N= G2 AE Any grade 17 13 4	
7 th y grade	Abema :208
<sub>9/ pto</sub> G≥3 AE G1 AE 14 8 3	49 31
Pts with >1 occurrences of G≥3 G>3 AF	15 2
A skidiowhood weekings	14 <1
Median Duration of G2 AF (range) Antiometic medications	5 <sup>b/</sup> 0 <sup>c,d</sup> 21
days Duration of G≥3 AE (range)  Time to onset (Q1-Q3)  Median  Median  Time to onset (Q1-Q3)  Duration of G≥3 AE (range)  Time to onset (Q1-Q3)  Antiernetic medication of C2 (4-56)  To 10 (4-56)	3–48)
days Duration of G2 AE (range) 16 (4–89) 10 (1–90) 19 (2	2–266) S–13)





O'Shaughnessy J et al. ASCO 2025; Abstract 1060

# **EMBER-3 Patient Reported Outcomes**

### PRO Measures and Assessment Schedule

Occurrence of Injection Site Reaction (ISR):

Injection site pain, swelling or redness

Measure	Domains/items	Schedule of Assessments	
	Global health status/quality of life (GHS/QOL)		
EORTC QLQ-C30 (30 items)	Functional (physical, role, social, emotional, cognitive	)	Day 1, Every 8 weeks, Short- term Follow-up
	<b>Symptoms</b> (fatigue, pain, nausea/vomiting, dyspnea, insomnia, loss of appetite, constipation, diarrhea)		
EORTC IL-19 (5 items)	<b>Physical functioning</b> (physical functioning items from C30)	Every 8 weeks opposite the QLQ-C30	
PRO-CTCAE diarrhea (1 item)	Frequency of diarrhea (never, rarely, occasionally, fralmost constantly)	Con	clusions

- Global health status (GHS)/QOL and Functional Domains were maintained across treatment arms in the EMBER-3 trial
  - Notably, GHS/QOL and functioning were maintained with imlunestrant + abemaciclib despite increased patient-reported diarrhea and nausea/vomiting
- Both longitudinal and Time To Deterioration analyses of GHS/QOL numerically favored imlunestrant vs SOC ET in patients with ESR1m (5.6 vs 3.8 months; HR 0.76, 95% Cl, 0.51, 1.13), suggesting that imlunestrant delays deterioration of QOL without meaningful increases in toxicity
- Importance of injection site reaction (ISR) as a clinically relevant AE for patients is demonstrated by high incidence (72%) of patient-reported ISR with fulvestrant

Consistent with the primary results from EMBER-3, these PRO results reinforce the benefit of imlunestrant, as monotherapy or combined with abemaciclib, as an all-oral targeted therapy option after progression on ET for patients with ER+, HER2-ABC

Curigliano G et al. ASCO 2025; Abstract 1001

PRO-CTCAE ISR

(1 item)

# Adjuvant CDK4/6 Inhibitor Indications

### **Abemaciclib**

In combination with endocrine therapy (tamoxifen or an aromatase inhibitor)
for the adjuvant treatment of HR-positive, HER2-negative, node-positive
localized breast cancer with high risk of recurrence

### Ribociclib

 In combination with an aromatase inhibitor for the adjuvant treatment of HRpositive, HER2-negative Stage II and III localized breast cancer with high risk of recurrence



## **Faculty Discussion Questions**

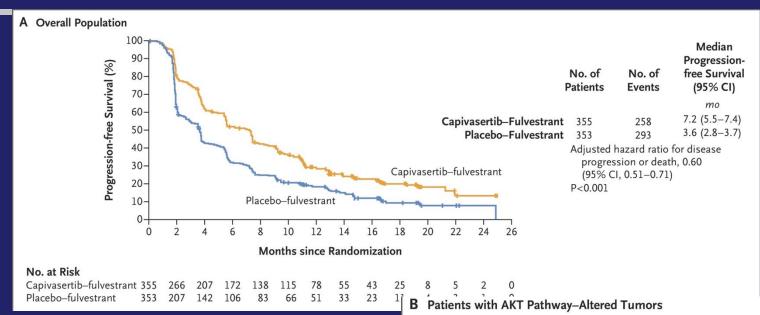
For which patients are you recommending an adjuvant CDK inhibitor (CDKi), and does this correlate with the current FDA indications? How do you choose which CDKi to use in the adjuvant setting?

Do you think the current data from SERENA-6 justify the use of serial ctDNA monitoring for patients receiving CDKi with endocrine therapy and early switching for patients with confirmed ESR1 mutations but no clinical signs of progression? If not, what outcomes would you require?

In which situations do you offer a CDKi to a patient who has already received a CDKi? Does it matter if they received the agent in the adjuvant or metastatic setting? If you could use abemaciclib/imlunestrant, in which patients, if any, would you employ it?



# CAPItello-291: Fulvestrant + Capivasertib or Placebo



No. at Risk

Capivasertib-fulvestrant 155

37

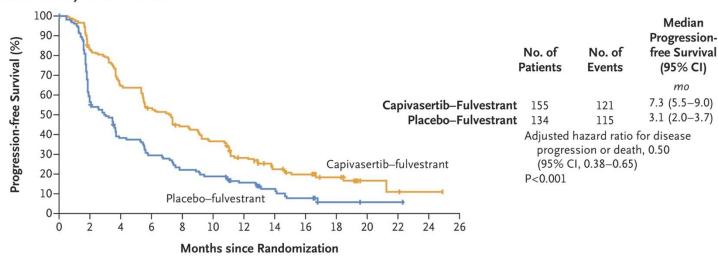
17

Placebo-fulvestrant

FDA approved 11/2023:
-HR+/HER2- with PIK3CA,
AKT1 and/or PTEN-alteration
after PD on ≥1 endocrine
therapy in MBC (or ≤12 mos
from adjuvant ET)

- ~70% prior CDK4/6i
- ~18% prior chemo for MBC
- Overall survival not statistically significantly different

Turner NC et al. N Engl J Med2023;388:2058-2070



# **CAPItello-291: Safety**

Table 2. Most Frequent Adverse Events in the Overall Population (Safety Population).*										
Event	Capivasertib-Fulvestrant (N = 355)					Placebo	o-Fulvestrant (N	l=350)		
	Any Grade	Grade 1	Grade 2	Grade 3	Grade 4	Any Grade	Grade 1	Grade 2	Grade 3	Grade 4
					number of po	atients (percent)				
Any adverse event	343 (96.6)	52 (14.6)	139 (39.2)	139 (39.2)	9 (2.5)	288 (82.3)	115 (32.9)	118 (33.7)	44 (12.6)	10 (2.9)
Diarrhea	257 (72.4)	164 (46.2)	60 (16.9)	33 (9.3)	0	70 (20.0)	60 (17.1)	9 (2.6)	1 (0.3)	0
Rash†	135 (38.0)	57 (16.1)	35 (9.9)	43 (12.1)	0	25 (7.1)	19 (5.4)	5 (1.4)	1 (0.3)	0
Nausea	123 (34.6)	85 (23.9)	35 (9.9)	3 (0.8)	0	54 (15.4)	42 (12.0)	10 (2.9)	2 (0.6)	0
Fatigue	74 (20.8)	49 (13.8)	23 (6.5)	2 (0.6)	0	45 (12.9)	35 (10.0)	8 (2.3)	2 (0.6)	0
Vomiting	73 (20.6)	54 (15.2)	13 (3.7)	6 (1.7)	0	17 (4.9)	10 (2.9)	5 (1.4)	2 (0.6)	0
Headache	60 (16.9)	47 (13.2)	12 (3.4)	1 (0.3)	0	43 (12.3)	33 (9.4)	8 (2.3)	2 (0.6)	0
Decreased appetite	59 (16.6)	37 (10.4)	21 (5.9)	1 (0.3)	0	22 (6.3)	11 (3.1)	9 (2.6)	2 (0.6)	0
Hyperglycemia	58 (16.3)	24 (6.8)	26 (7.3)	7 (2.0)	1 (0.3)	13 (3.7)	8 (2.3)	4 (1.1)	1 (0.3)	0
Stomatitis	52 (14.6)	24 (6.8)	21 (5.9)	7 (2.0)	0	17 (4.9)	15 (4.3)	2 (0.6)	0	0
Asthenia	47 (13.2)	29 (8.2)	14 (3.9)	4 (1.1)	0	36 (10.3)	31 (8.9)	3 (0.9)	2 (0.6)	0
Pruritus	44 (12.4)	32 (9.0)	10 (2.8)	2 (0.6)	0	23 (6.6)	19 (5.4)	4 (1.1)	0	0
Anemia	37 (10.4)	15 (4.2)	15 (4.2)	7 (2.0)	0	17 (4.9)	4 (1.1)	9 (2.6)	4 (1.1)	0
Urinary tract infection	36 (10.1)	8 (2.3)	23 (6.5)	5 (1.4)	0	23 (6.6)	2 (0.6)	21 (6.0)	0	0

<sup>\*</sup> The safety population included all the patients who received at least one dose of capivasertib, fulvestrant, or placebo. The listed events were reported as a single term (or for rash, as a group term) in at least 10% of the patients for any grade in the capivasertib-fulvestrant group. Adverse events are reported regardless of the relationship to capivasertib, fulvestrant, or placebo.

- Most frequent grade

  >3 events in capi
  arm: rash (12.1%
  vs.0.3%) and
  diarrhea (9.3% vs.
  0.3%)
- AEs leading to discontinuation: 13.0% in capivasertib and in 2.3% in placebo

<sup>†</sup> The group term of rash includes the preferred terms of rash, rash macular, maculopapular rash, rash papular, and rash pruritic.

# **VERITAC-2 Phase 3 Trial of Vepdegestrant**

#### **Key Eligibility Criteria**

- Age ≥18 years old
- ER+/HER2- advanced or metastatic breast cancer
- · Prior therapy:
  - 1 line of CDK4/6i + ET
  - ≤1 additional ET
  - Most recent ET for ≥6 months
  - No prior SERD (eg, fulvestrant, elacestrant)
  - No prior chemotherapy for advanced or metastatic disease
- Radiological progression during or after the last line of therapy

#### 28-day Treatment Cycles

Vepdegestrant (n=313)
200 mg orally (once daily)

(1:1)

Randomization

#### Fulvestrant (n=311)

500 mg IM (days 1 and 15 of cycle 1; day 1 of subsequent cycles)

#### Stratification Factors:

- ESR1 mutation<sup>a</sup> (yes vs no)
- · Visceral disease (yes vs no)

#### **Primary Endpoint:**

- · PFS by BICR in
  - ESR1m population
  - All patients

#### Secondary Endpoints:

- · OS (key secondary)
- · CBR and ORR by BICR
- AEs

### **VERITAC-2: Baseline Characteristics**

	Patients Wi	th <i>ESR1</i> m	All Patients		
Characteristic	Vepdegestrant (n=136)	Fulvestrant (n=134)	Vepdegestrant (n=313)	Fulvestrant (n=311)	
Median age (range), y	60 (26-87)	60 (34-85)	60 (26-89)	60 (28-85)	
Female, %	99	100	99	100	
Postmenopausal, %	79	79	78	78	
Race, %					
White	43	51	47	46	
Black or African American	3	4	2	2	
Asian	45	37	39	41	
Unknown/NR	9	7	12	9	
ECOG PS, %					
0	57	57	61	64	
1	43	43	39	36	
ESR1m, %*	100	100	43	43	
Sites of disease, %					
Visceral disease	68	68	63	63	
Liver metastasis	46	44	40	36	
Bone-only disease	18	18	18	20	

	Patients Wi	th <i>ESR1</i> m	All Patients					
Characteristic, %	Vepdegestrant (n=136)	Fulvestrant (n=134)	Vepdegestrant (n=313)	Fulvestrant (n=311)				
Measurable disease <sup>b</sup>	71	75	71	71				
Prior lines of therapy in advanced/metastatic setting <sup>c</sup>								
1	82	80	82	76				
2	18	20	18 <sup>d</sup>	23 <sup>d</sup>				
Prior endocrine therapy	100	100	100	100°				
Aromatase inhibitor	99	100	99	99				
SERM	15	16	16	20				
Prior CDK4/6 inhibitor	100	100	100	100				
Palbociclib	50	54	46	52				
Ribociclib	38	28	36	31				
Abemaciclib	16	25	20	21				
Other <sup>r</sup>	1	5	4	4				

CDK48-reyclin-dependent kinase 48; ECOG PS=Eastern Cooperative Oncology Group performance status; ESR/m=estrogen receptor 1 gene mutation; NR-mot reported; SERD= selective estrogen receptor degrader; SERM=selective estrogen receptor modulator.

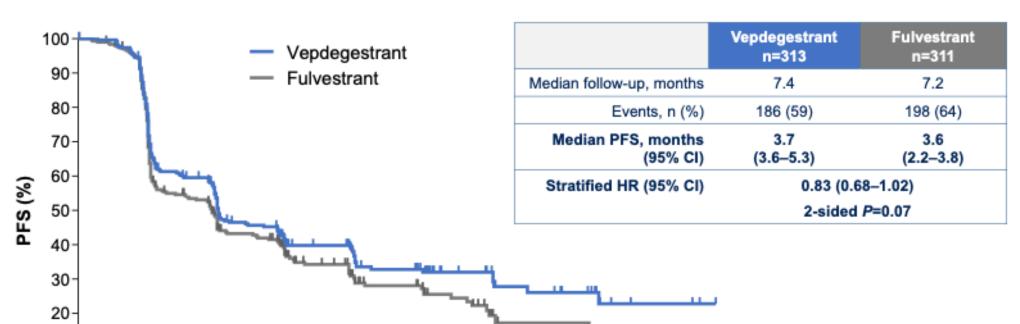
\*ESR/m= failure was assessed in preferentment concluding function Officially on Unity or Wilthin 12 months from the end of adjuvant therapy was counted as a line of therapy in the soft-announcedimentation of unity or within 12 months from the end of adjuvant therapy was counted as a line of therapy in the soft-announcedimentation of unity or within 12 months from the end of adjuvant therapy was counted as a line of therapy in the soft-announcedimentation of unity or within 12 months from the end of adjuvant therapy was counted as a line of therapy in the soft-announcedimentation of unity or within 12 months from the end of adjuvant therapy was counted as a line of therapy in the soft-announcedimentation of unity or line of the end of t





PRESENTED BY: Erika P Hamilton, MD

# VERITAC-2 Primary Endpoint: PFS by BICR in All Patients



12

13

15

16

14

10

Time (Months)

17 18

No. at risk

Vepdegestrant 313 306 189 168 113 108 74 72 46 46 28 24 15 12 6 4 4 2 0 Fulvestrant 311 292 162 143 101 98 58 54 36 36 23 12 7 7 4 3 2 0 0

BICR=blinded independent central review; HR=hazard ratio; PFS=progression-free survival. N Engl J Med - © Copyright 2025





10



# VERITAC-2: Safety and Tolerability (All Treated Patients)

#### Overview

TEAEs, %	Vepdegestrant (n=312)	Fulvestrant (n=307)
Any grade	87	81
Grade ≥3	23	18
Serious	10	9
Leading to treatment discontinuation	3	1
Leading to dose reduction	2	NA
TRAEs, %		
Any grade	57	40
Grade ≥3	8	3

#### QT prolongation

- TEAEs: vepdegestrant, 10%; fulvestrant, 1%
- A QT interval sub-study (n=88) confirmed a mild increase (11.1 ms) from baseline in mean QTcF, with upper 90% CI (13.7 ms) <20 ms,<sup>f</sup> indicating no large QT-prolonging effect

### TEAEs in >10% of Patients in Either Group

	Vepdegestrant (n = 312)		Fulvestrant (n = 307)	
TEAE, %	Any Grade	Grade 3/4	Any Grade	Grade 3/4
Fatigue <sup>a</sup>	27	1	16	1
ALT increased <sup>b</sup>	14	1	10	1
AST increased <sup>b</sup>	14	1	10	3
Nausea	13	0	9	1
Anemia <sup>b, c</sup>	12	2	8	3
Neutropenia <sup>d</sup>	12	2 <sup>e</sup>	5	1e
Back pain	11	1	7	<1
Arthralgia	11	1	11	0
Decreased appetite	11	<1	5	0

ALT=alanine aminotransferase; AST=aspartate aminotransferase; Gl=gastrointestinal; QTcF=corrected QT interval using Friderica's method; TEAE=treatment-emergent adverse event; TRAE=treatment-related adverse event.

\*Includes fatigue and asthenia. \*No between-group differences were observed for ALT/AST increases or anemia based on laboratory values. \*Includes neutropenia and neutrophil count decreased. No events led to dose reductions or treatment discontinuation in either treatment group. There were no events of febrile neutropenia in the vepdegestrant group and 1 event of grade 2 febrile neutropenia in the fulvestrant group. \*1 patient with grade 4 event. \*Based on a concentration-QTc population modeling analysis.\*







### **DESTINY-Breast06: Biomarker Results**



Data cutoff: March 18, 2024

### **DESTINY-Breast06 study design and primary results**

A randomized, multicenter, open-label, Phase 3 study<sup>1,2</sup>

### Patient population

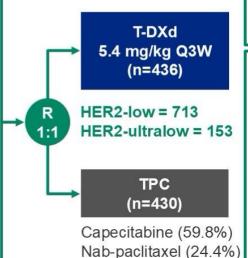
- HR+ mBC
- HER2-low (IHC 1+ or IHC 2+/ISH-) OR HER2-ultralow (IHC 0 with membrane staining) status
- · Chemotherapy naïve in the mBC setting

### **Prior lines of therapy**

- ≥2 lines ET ± targeted therapy for mBC
   OR
- 1 line for mBC AND
  - Progression ≤6 mo of starting first-line
     ET + CDK4/6i

#### OR

 Recurrence ≤24 mo of starting adjuvant ET



#### Baseline characteristics\*

- Median age ~58 years; ECOG PS ≥1 ~40%
- De-novo mBC ~31%; liver metastases ~67%; visceral disease ~85%; primary endocrine resistance<sup>†</sup> ~31%

### **Primary endpoint**

- PFS (BICR) in HER2-low:
- Median 13.2 mo T-DXd vs 8.1 mo TPC (hazard ratio 0.62; P<0.001)<sup>‡</sup>

### Secondary endpoints

- PFS (BICR) in ITT (HER2-low + HER2-ultralow):
  - Median 13.2 mo T-DXd vs 8.1 mo TPC (hazard ratio 0.64; P<0.001)§</li>
- OS: data maturity ~40% at first interim analysis
- PFS2 (INV)
- Safety and tolerability

### **Exploratory endpoint**

Biomarkers

\*As averaged across treatment groups in the ITT population; †defined as relapse that had occurred during the first 2 years of adjuvant ET or progressive disease that had occurred during the first 6 months of first-line ET for mBC; 3 the hazard ratio and its CI were estimated from a stratified Cox proportional hazards model, adjusting for prior CDK4/6i use (yes vs no) and HER2 IHC expression (IHC 1+ vs IHC 2+/ISH-); 8 the hazard ratio and its CI were estimated from an unstratified Cox proportional hazards model

BICR, blinded independent central review; CDK4/6i, cyclin-dependent kinase 4/6 inhibitor; CI, confidence interval; ECOG PS, Eastern Cooperative Oncology Group performance status; ET, endocrine therapy; HER2, human epidermal growth factor receptor 2; HR+, hormone receptor—positive; IHC, immunohistochemistry; INV, investigator; ISH-, in situ hybridization—negative; ITT, intent-to-treat; mBC, metastatic breast cancer; mo, months; Os, overall survival; PFS, progression-free survival; PFS2, second progression-free survival; time from randomization to second progression or death; Q3W, every 3 weeks; R, randomization; T-DXd, trastuzumab deruxtecan; TPC. physician's choice of chemotherapy

Paclitaxel (15.8%)

1. NCT04494425. Updated. April 2, 2025. Available from: https://clinicaltrials.gov/study/NCT04494425 (Accessed May 1, 2025); 2. Bardia A, et al. N Engl J Med. 2024; 391:2110–2122; 3. Cardoso F, et al. Ann Oncol. 2020; 31:1623–1649.

### PFS (BICR) by baseline PI3K/AKT pathway\* mutation status

PI3K/AKT pathway mutations were observed in 45.0% (n=281) of patients in the biomarker-evaluable population and were balanced across treatment groups Mut



### PFS (BICR) by baseline ESR1 mutation status

ESR1 mutations were observed in 51.5% (n=322) of patients in the biomarker-evaluable population and were balanced across treatment groups

WT		Mut	
T-DXd	TPC	T-DXd	TPC
87/152	96/151	115/166	107/156
15.2	8.1	11.3	7.0
(12.3, 17.3)	(6.9, 9.6)	(9.8, 13.5)	(5.6, 9.3)
0.59 (0.44, 0.79)		0.64	
		(0.49, 0.83)	
	T-DXd 87/152 15.2 (12.3, 17.3) 0.5	T-DXd TPC 87/152 96/151 15.2 8.1 (12.3, 17.3) (6.9, 9.6) 0.59	T-DXd         TPC         T-DXd           87/152         96/151         115/166           15.2         8.1         11.3           (12.3, 17.3)         (6.9, 9.6)         (9.8, 13.5)           0.59         0.6

# 1.0 0.8 Probability of PFS 0.6

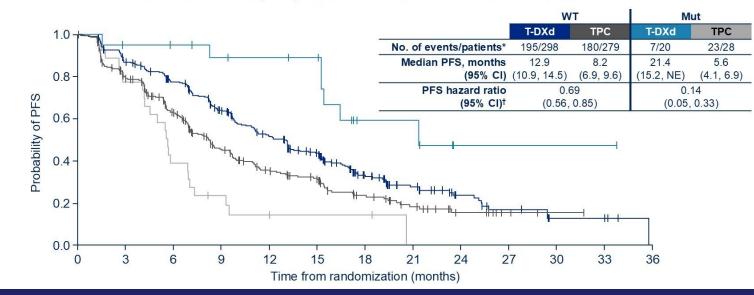
0.4

0.2

0.0

### PFS (BICR) by baseline *BRCA1/2* mutation status

BRCA1/2 mutations were observed in 7.7% (n=48) of patients in the biomarker-evaluable population



Probability of PFS

0.2

0.0

# Use of AI for HER2 low and ultralow determination

### **Aims**

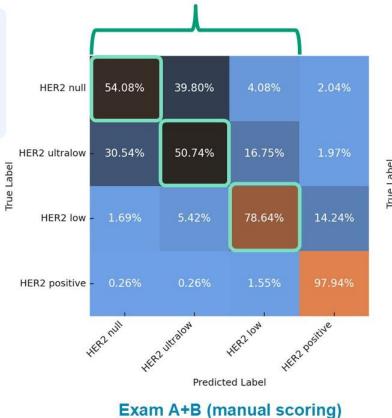
Goals of this study:

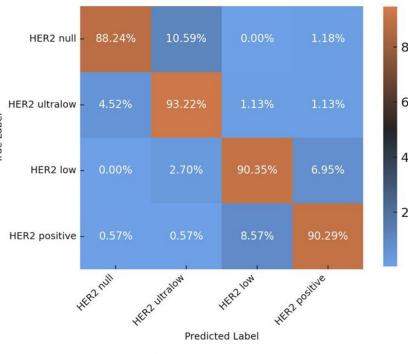
utiliz

**Results** 

Manual scoring sensitivity

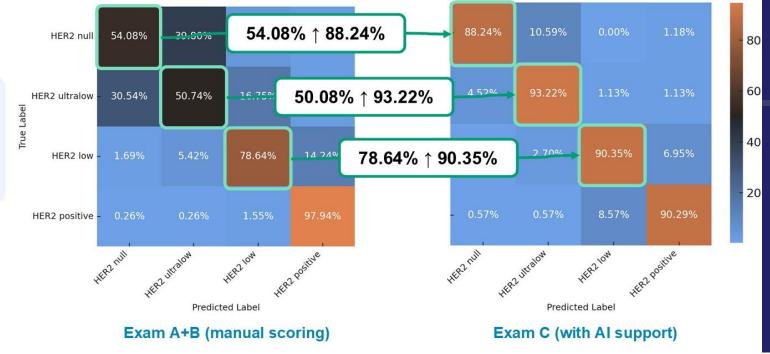
To 
absence or low levels of HER2 expression

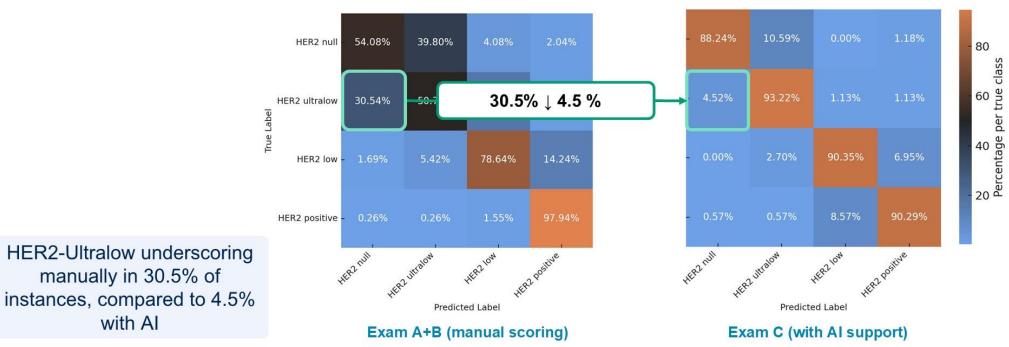




Exam C (with Al support)

DeBrot M et al. ASCO 2025;Abstract 1014 Al support raises sensitivity across HER2 Null/Ultralow/Low expression classifications



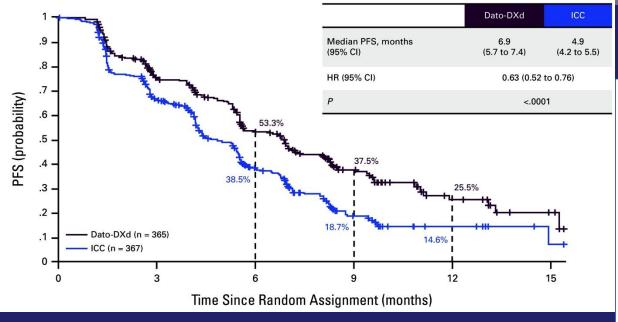


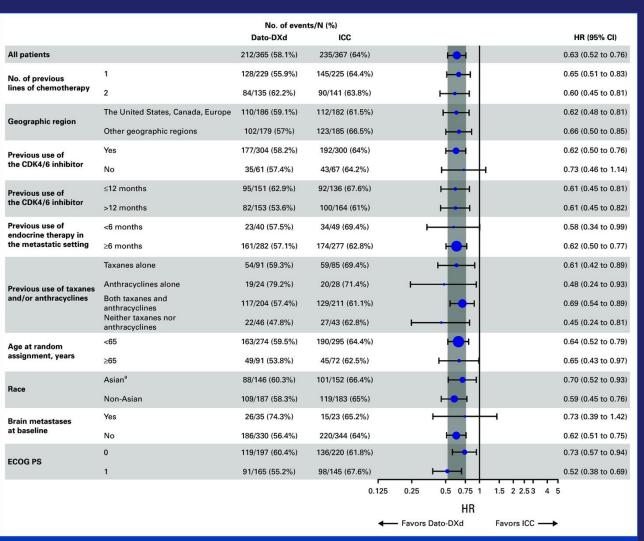
DeBrot M et al. ASCO 2025; Abstract 1014

manually in 30.5% of

with AI

# TROPION-Breast01: Datopotamab Deruxtecan in HR+ HER2 negative MBC





# **TROPION-Breast01: Datopotamab Deruxtecan**

**TABLE 3.** TRAEs (all grades) Occurring in ≥10% of Patients and Grade ≥3 TRAEs in ≥1% of Patients in Either Arm (safety population)

	Dato-DXd (n = 360), No. (%)		ICC (n = 351), No. (%)	
TRAE	Any Grade	Grade ≥3	Any Grade	Grade ≥3
Any TRAE	337 (93.6)	75 (20.8)	303 (86.3)	157 (44.7)
Nausea	184 (51.1)	5 (1.4)	83 (23.6)	2 (0.6)
Stomatitis	180 (50)	23 (6.4)	46 (13.1)	9 (2.6)
Alopecia	131 (36.4)	0	72 (20.5)	0
Fatigue	85 (23.6)	6 (1.7)	64 (18.2)	7 (2)
Dry eye	78 (21.7)	2 (0.6)	27 (7.7)	0
Vomiting	71 (19.7)	4 (1.1)	27 (7.7)	2 (0.6)
Constipation	65 (18.1)	0	32 (9.1)	0
Keratitis <sup>a</sup>	52 (14.4)	2 (0.6)	17 (4.8)	0
Decreased appetite	50 (13.9)	3 (0.8)	41 (11.7)	2 (0.6)
Asthenia	45 (12.5)	3 (0.8)	46 (13.1)	4 (1.1)
Anemia	40 (11.1)	4 (1.1)	69 (19.7)	7 (2)
Neutropenia <sup>b</sup>	39 (10.8)	4 (1.1)	149 (42.5)	108 (30.8)
AST increased	31 (8.6)	2 (0.6)	39 (11.1)	2 (0.6)
Diarrhea	27 (7.5)	0	43 (12.3)	4 (1.1)
Leukopenia <sup>c</sup>	26 (7.2)	2 (0.6)	60 (17.1)	24 (6.8)
Palmar-plantar erythrodysesthesia syndrome	7 (1.9)	0	42 (12)	7 (2)
Platelet count decreased	7 (1.9)	0	18 (5.1)	4 (1.1)
Febrile neutropenia	0	0	8 (2.3)	8 (2.3)

## **Faculty Discussion Questions**

What second-line therapy do you typically prefer for a patient with ER-positive, ESR1-negative, PIK3CA-positive disease? What toxicities are most common with this approach? What second-line treatment do you favor for a patient with both ESR1 and PIK3CA mutations?

If elacestrant, imlunestrant or vepdegestrant were all available, which one would you likely use as second-line treatment for a patient with ESR1-positive, PIK3CA wild-type disease?

How do you typically sequence available agents/regimens for patients with ER-positive, HER2-low (IHC 1+) and ER-positive, HER2-negative (IHC 0) disease who are no longer candidates for endocrine therapy?



## **Agenda**

**Introduction:** View from Outer Space

**Module 1: HR-Positive Breast Cancer** 

**Module 2: HER2-Positive Breast Cancer** 

**Module 3: Triple-Negative Breast Cancer** 







## HER2+ and TNBC Highlights from ASCO 2025

Sara M. Tolaney



## DESTINY-Breast09 study design

A randomized, multicenter, open-label,\* Phase 3 study (NCT04784715)

#### Eligibility criteria

- HER2+ a/mBC
- Asymptomatic/inactive brain mets allowed
- DFI >6 mo from last chemotherapy or HER2-targeted therapy in neoadjuvant/ adjuvant setting
- One prior line of ET for mBC permitted
- No other prior systemic treatment for mBC<sup>†</sup>

# T-DXd<sup>‡</sup> + placebo Blinded until final PFS analysis T-DXd<sup>‡</sup> + pertuzumab§ T-DXd<sup>‡</sup> + pertuzumab§ THP Taxane (paclitaxel or docetaxel)¶ + trastuzumab§ + pertuzumab§

#### **Endpoints**

#### **Primary**

• PFS (BICR)

#### Key secondary

OS

#### Secondary

- PFS (INV)
- ORR (BICR/INV)
- DOR (BICR/INV)
- PFS2 (INV)
- Safety and tolerability

#### Stratification factors

- De-novo vs recurrent mBC
- HR+ or HR-
- PIK3CAm (detected vs non-detected)

At this planned interim analysis (DCO Feb 26, 2025), results are reported for the T-DXd + P and THP arms

\*Open label for THP am. Double blinded for pertuzumab in experimental arms; †HER2-targeted therapy or chemotherapy; ‡5.4 mg/kg Q3W; \$840 mg loading dose, then 420 mg Q3W; \$paclitaxel 80 mg/m² QW or 175 mg/m² Q3W, or docetaxel 75 mg/m² Q3W for a minimum of six cycles or until intolerable toxicity; 8 mg/kg loading dose, then 6 mg/kg Q3W

a/mBC, advanced/metastatic breast cancer; BICR, blinded independent central review; DCO, data cutoff; DFI, disease-free interval; DOR, duration of response; HER2, human epidermal growth factor receptor 2; HER2+, HER2-positive; HR+/-, hormone receptor-positive/-negative; INV, investigator; mBC, metastatic breast cancer; mets, metastases; mo, months; ORR, objective response rate; OS, overall survival; P, pertuzumab; PFS, progression-free survival; PFS2, second progression-free survival; PIK3CAm, phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha mutation; Q3W, every 3 weeks; QW, once every week; R, randomization; T-DXd, trastuzumab deruxtecan NCT04784715. Updated. May 6, 2025. Available from: https://clinicaltrials.gov/study/NCT04784715 (Accessed May 29, 2025)





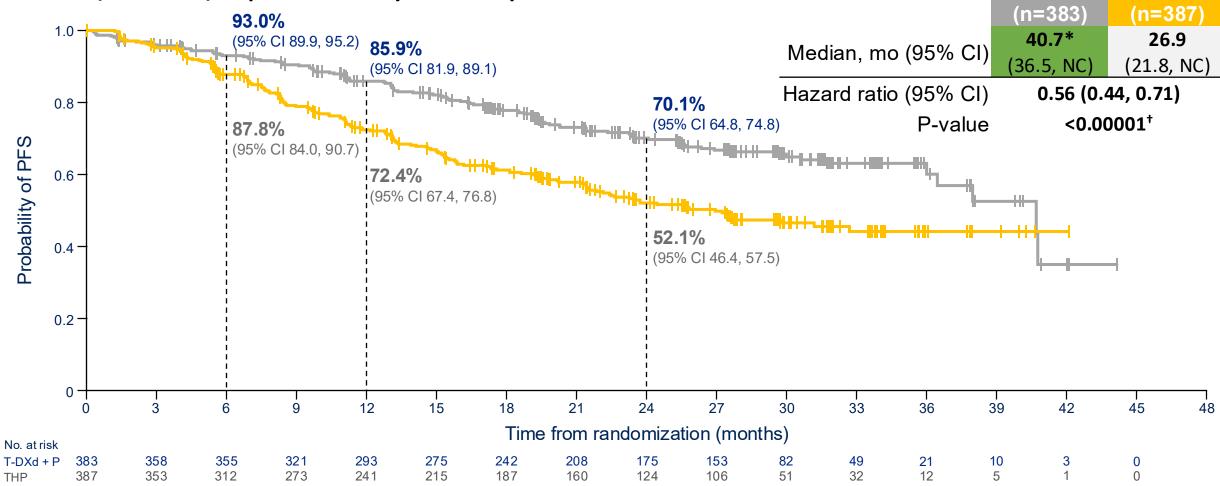




**THP** 

T-DXd + P





Statistically significant and clinically meaningful PFS benefit with T-DXd + P (median  $\Delta$  13.8 mo)

\*Median PFS estimate for T-DXd + P is likely to change at updated analysis; \*stratified log-rank test. A P-value of <0.00043 was required for interim analysis superiority

BICR, blinded independent central review; CI, confidence interval; mo, months; (m)PFS, (median) progression-free survival; NC, not calculable; P, pertuzumab; T-DXd, trastuzumab deruxtecan; THP, taxane + trastuzumab + pertuzumab









## Conclusions

- T-DXd + P demonstrated a statistically significant and clinically meaningful PFS benefit by BICR vs THP, which was consistently observed across subgroups
  - Hazard ratio of **0.56** vs THP (**P<0.00001**)
  - Median PFS was 40.7 months (T-DXd + P) vs 26.9 months (THP)
- Median DOR of >3 years with T-DXd + P, with CRs in 15.1% (T-DXd + P)
  vs 8.5% (THP)
- Early OS data suggest a positive trend favoring T-DXd + P, with a supportive hazard ratio of 0.60 for PFS2
- T-DXd + P safety data were consistent with known profiles of individual treatments

PFS by BICR

**44**%

Reduction in risk of disease progression or death with T-DXd + P vs THP

T-DXd + P demonstrated a statistically significant and clinically meaningful PFS benefit vs THP and may represent a new first-line standard of care for patients with HER2+ a/mBC

a/mBC, advanced/metastatic breast cancer; BICR, blinded independent central review; CR, complete response; DOR, duration of response; HER2+, human epidermal growth factor receptor 2—positive; OS, overall survival; PFS, progression-free survival; PFS2, second progression-free survival; T-DXd, trastuzumab deruxtecan; THP, taxane + trastuzumab + pertuzumab





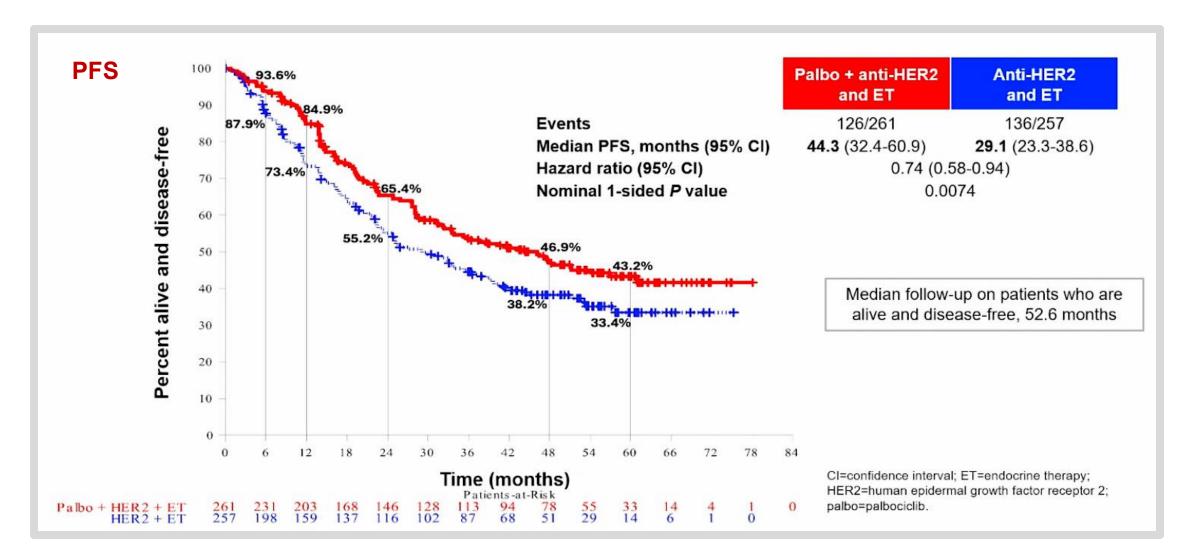


## The DEMETHER Study

#### Study Design 165 patients HER2[+] MBC Maintenance therapy Post-treatment FU Induction therapy **PHESGO** T-DXd Physician's EoT# choice# FDC SC\* 6 cycles# Screening EoS\$ \*PD, death, 3 years after T-DXd Baseline C2D1 C1D1 C2D1 induction, other anti-cancer treatment or discontinuation Treatment regimen: T-DXd: 5.4 mg/kg; IV, Q3W - 6 cycles. \*T-DXd is allowed upon progression on PHESGO. • PHESGO FDC SC: 1200 mg pertuzumab, 600 mg trastuzumab (LD) - 600 mg pertuzumab, 600 mg trastuzumab; Q3W. \*Additional HT will be administered in the maintenance phase to patients with confirmed HR[+] status.

\$All patients will be followed up until 36 months + 28 days (± 7 days) after T-DXd initiation of LPI, unless premature study termination.

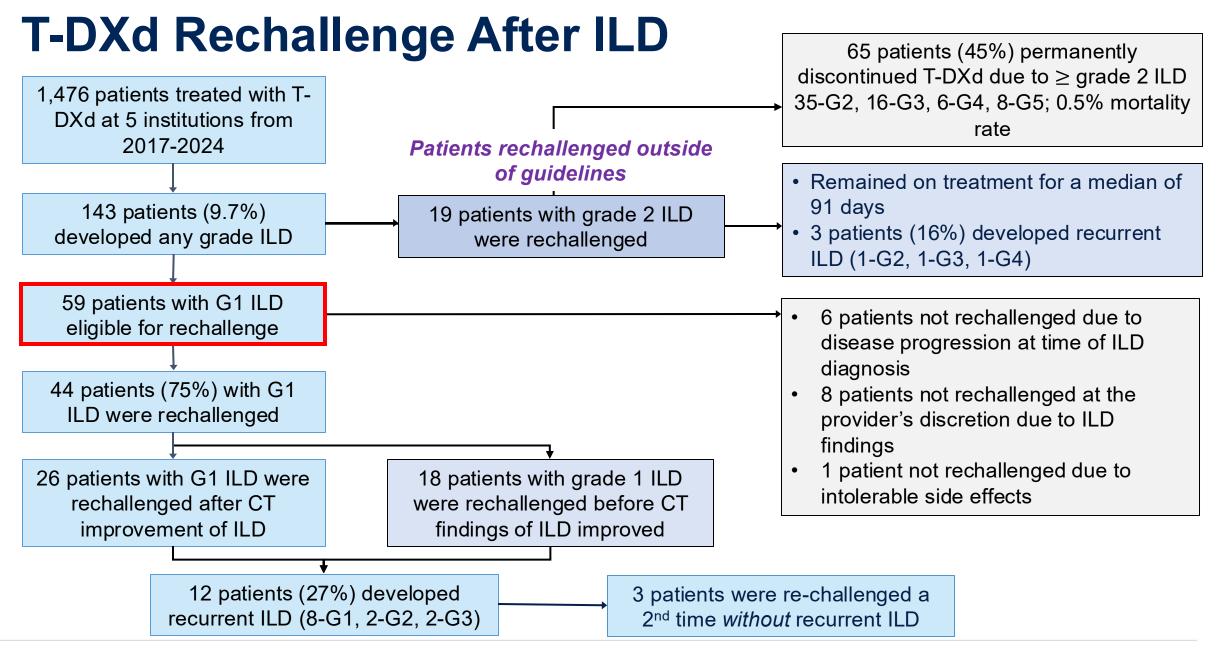
## 1L HR+/HER2+ mBC: PATINA Trial

















## Conclusion

Rechallenge with T-DXd after grade 1 ILD was safe; patients in a diverse real-world population had ongoing clinical benefit from T-DXd.

- High rates of rechallenge after grade 1 ILD were safe with long duration of clinical benefit
- Treatment with steroids resulted in faster radiographic improvement of ILD
- Among patients rechallenged after grade 1 ILD, rates of recurrent ILD were low, with mostly grade 1 events and no grade 5 events
- A small number of patients with grade 2 ILD were rechallenged with a similar rate of recurrent ILD, but this data must be interpreted with caution







## Incidence of BM in HER2+ MBC: Real-World Data From US Flatiron Database

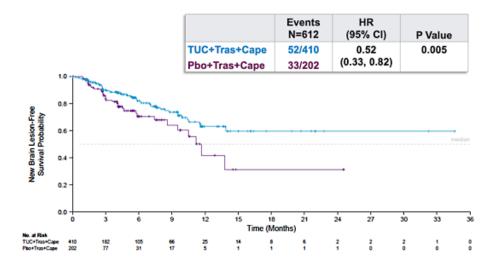
Line of therapy	HR+, HER2- positive	HR–, HER2- positive	HR+, HER2– [HR+, HER2-low]	TNBC [HR–, HER2-low]
Number of pts, n				
1	3062	902	12331	1780
			[7062]	[725]
2	1936	478	8120	972
			[4721]	[422]
3	1232	281	5303	526
			[3101]	[240]
4	761	159	3454	283
			[2002]	[129]
5+	453	103	2191	141
			[1276]	[70]
Prevalence of BN	1, %			
1	193 (6.3)	101 (11.2)	134 (2.5)	109 (10.3)
			[199 (2.8)]	[88 (12.1)]
2	341 (17.6)	149 (31.2)	150 (4.4)	97 (17.6)
			[275 (5.8)]	[73 (17.3)]
3	265 (21.5)	102 (36.3)	125 (6.7)	63 (22.0)
			[231 (7.4)]	[50 (20.8)]
4	199 (26.1)	59 (37.1)	104 (7.2)	38 (24.7)
			[189 (9.4)]	[36 (27.9)]
5+	120 (26.5)	38 (36.9)	78 (8.5)	23 (32.4)
			[134 (10.5)]	[18 (25.7)]

Data from 18,075 patients with MBC in the Flatiron database who had initiated a 1L of therapy up to March 1, 2021 to allow at least 2y follow-up

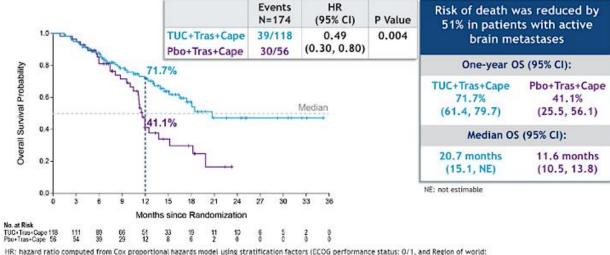
By 3L of therapy, **21.5%** of HR+/HER2+ and **36.3%** of HR-/HER2+ pts have developed brain metastases

Older data from the HERA trial (Pestalozzi et al, Lancet Oncol 2013) where HER2+ pts were followed until death reported that **47%** of trastuzumab-treated pts eventually developed brain mets

#### **HER2CLIMB: New Brain Lesion-Free Survival**

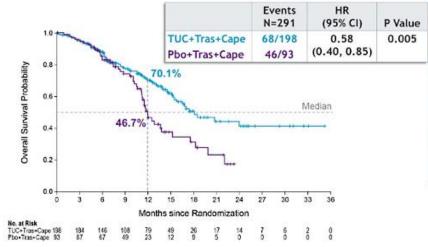


#### OS Benefit in Patients with Active Brain Metastases



North America/Rest of World) at randomization. All P values are nominal.

#### OS Benefit in Patients with Brain Metastases



Risk of death was reduced by 42% in patients with brain metastases

One-year OS (95% CI):

TUC+Tras+Cape Pbo+Tras+Cape 70.1% 46.7% (62.1, 76.7)(33.9, 58.4)

Median OS (95% CI):

18.1 months 12.0 months (15.5, NE) (11.2, 15.2)

NE: not estimable

HR: hazard ratio computed from Cox proportional hazards model using stratification factors (ECOG performance status: 0/1, and Region of world: North America/Rest of World) at randomization, All P values are nominal,

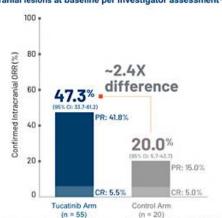
2020 ASCO

PRESENTED BY: Nancy Lin, clint@partners.org

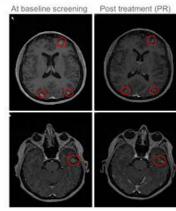
#### ASCO 2020 UPDATE: POST HOC EXPLORATORY ANALYSES

#### CONFIRMED INTRACRANIAL OBJECTIVE RESPONSE RATE!

Confirmed intracranial ORR by RECIST 1.1 (n = 75) in patients with active brain metastases and measurable intracranial lesions at baseline per investigator assessment1



#### Brain CT scans of a patient in the tucatinib arm<sup>†</sup>



CT = computed tomography; RECIST = Response Evaluation Criteria in Solid Tumors.

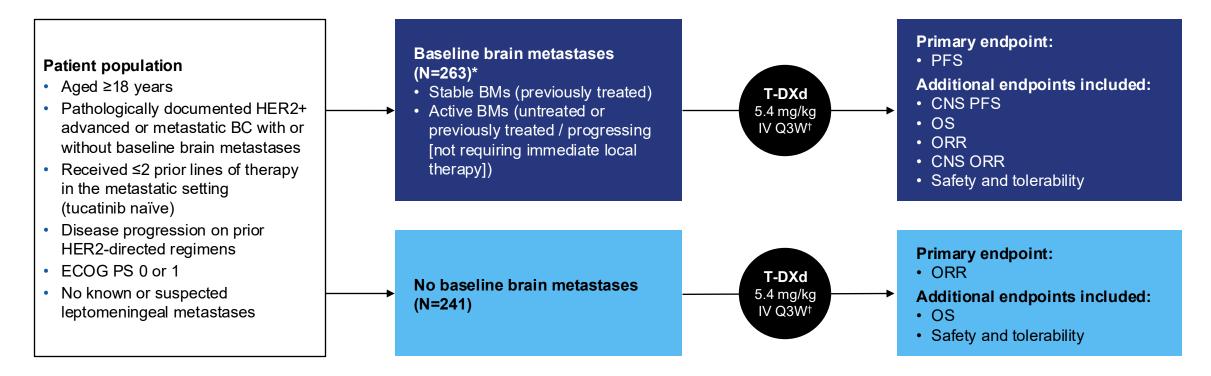
<sup>\*</sup> Results of this exploratory analysis are descriptive, not in the approved labeling, and not controlled for type 1 error, as HER2CLIMB was not powered to test this analysis. The results are estimates (not exact numbers). Due to a high rate of censoring of patients owing to extra-CNS progression (new or enlarging extracranial lesions) or death, results should be interpreted with caution. Individual results may vary.

<sup>1.</sup> Lin NU et al. J Gin Oncol. 2020;38:2610-2619.



## **DESTINY-Breast12 study design**

Phase 3b/4, multicenter, single-arm, two-cohort, open-label study of T-DXd in previously treated HER2+ mBC with and without brain metastases (BMs); the largest prospective study of T-DXd in patients with stable or active BMs



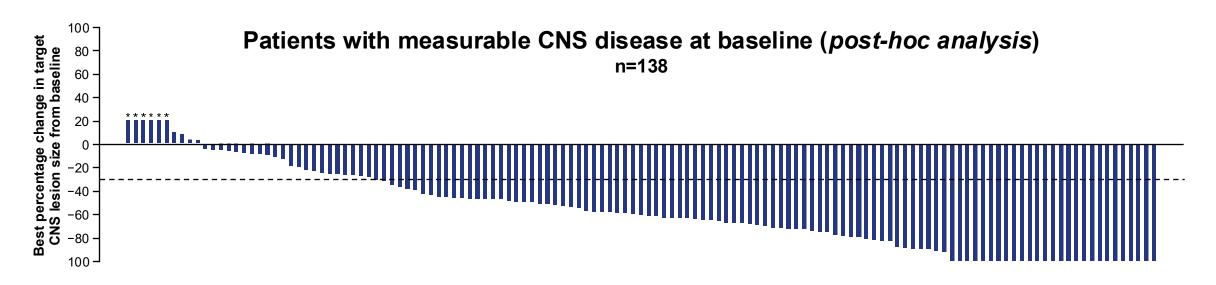
Data reported for the full analysis set (all patients enrolled in the study who received at least one treatment dose) and safety analysis set (identical to full analysis set). No hypothesis testing or comparison of cohorts. Response and progression assessed by ICR per RECIST 1.1 in both cohorts. Patients were enrolled from Australia, Canada, Europe, Japan, and United States

\*Concomitant use of ≤3 mg of dexamethasone daily or equivalent allowed for symptom control of BMs (baseline BMs cohort only); †until RECIST 1.1-defined disease progression outside the CNS BC, breast cancer; CNS, central nervous system; ECOG PS, Eastern Cooperative Oncology Group performance status; HER2, human epidermal growth factor receptor 2; HER2+, HER2-positive; ICR, independent central review; IV, intravenous; mBC, metastatic breast cancer; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; Q3W, every 3 weeks; RECIST 1.1, Response Evaluation Criteria in Solid Tumours version 1.1; T-DXd, trastuzumab deruxtecan NCT04739761. Updated. July 19, 2024. Available from: https://www.clinicaltrials.gov/study/NCT04739761 (Accessed September 9, 2024)





## **Baseline BMs: CNS ORR**



				Active BM subgroups	
Measurable CNS disease at baseline	All patients (n=138)	Stable BMs (n=77)	Active BMs (n=61)	Untreated (n=23) Post-hoc analysis	Previously treated / progressing (n=38) Post-hoc analysis
Confirmed CNS ORR, % (95% CI)	71.7 (64.2, 79.3)	79.2 (70.2, 88.3)	62.3 (50.1, 74.5)	82.6 (67.1, 98.1)	50.0 (34.1, 65.9)

#### T-DXd showed substantial CNS responses in the overall BMs population, including patients with stable and active BMs

Dashed line indicates a 30% decrease in target tumor size (PR)

BM, brain metastasis; CI, confidence interval; CNS, central nervous system; ORR, objective response rate; PD, progressive disease; PR, partial response; T-DXd, trastuzumab deruxtecan

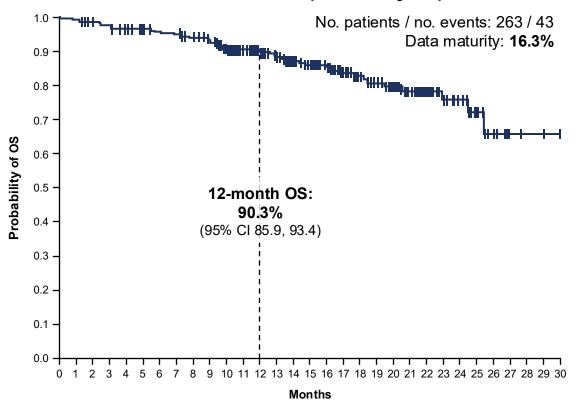


<sup>\*</sup>Imputed values: a value of +20% was imputed if best percentage change could not be calculated because of missing data if: a patient had a new lesion or progression of non-target lesions or target lesions, or had withdrawn because of PD and had no evaluable target lesion data before or at PD

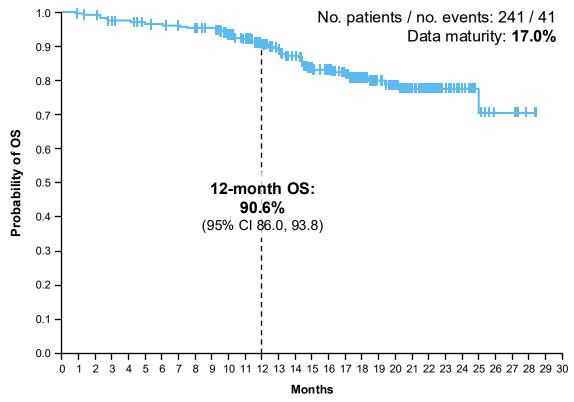


## OS in patients with and without baseline BMs

#### Baseline BMs (KM analysis)



#### No baseline BMs (KM analysis)



At risk 241 239 237 231 229 224 223 220 217 214 203 194 179 165 154 133 123 107 91 75 67 51 38 25 16 10 6 6 2

#### T-DXd showed consistent 12-month OS in patients with and without BMs

Median follow-up duration was 15.4 months in patients with BMs and 16.1 months in patients without BMs BM, brain metastasis; CI, confidence interval; KM, Kaplan-Meier; no., number of; OS, overall survival; T-DXd, trastuzumab deruxtecan



263 261 257 252 247 242 238 236 231 225 209 191 177 165 149 137 122 100 84 75 65 52 38 31 22 15 8

# T-DXd Followed by THP Before Surgery Showed Statistically Significant and Clinically Meaningful Improvement in Pathologic Complete Response in Patients with High-Risk HER2-Positive Early-Stage Breast Cancer in DESTINY-Breast11 Phase III Trial Press Release: May 7, 2025

"Positive high-level results from the DESTINY-Breast11 Phase III trial showed trastuzumab deruxtecan (T-DXd) followed by paclitaxel, trastuzumab and pertuzumab (THP) demonstrated a statistically significant and clinically meaningful improvement in pathologic complete response (pCR) rate versus standard of care (dose-dense doxorubicin and cyclophosphamide followed by THP [ddAC-THP]) when used in the neoadjuvant setting (before surgery) in patients with high-risk, locally advanced HER2-positive early-stage breast cancer.

The secondary endpoint of event-free survival (EFS) was not mature at the time of analysis; however, EFS data showed an early positive trend favouring T-DXd followed by THP compared to standard of care. The trial will continue to follow EFS.

Data from DESTINY-Breast11 will be presented at an upcoming medical meeting and shared with regulatory authorities."



### **Faculty Discussion Questions**

What is the optimal first-line therapy, including maintenance, for patients with HER2-positive, ER-negative mBC? What about for HER2-positive, ER-positive disease?

In which situations will you rechallenge with T-DXd for patients who have developed ILD on the drug?

What is your preferred second-line therapy for patients with HER2positive disease who experience progression on THP with brain metastases?



## **Agenda**

**Introduction:** View from Outer Space

**Module 1: HR-Positive Breast Cancer** 

**Module 2: HER2-Positive Breast Cancer** 

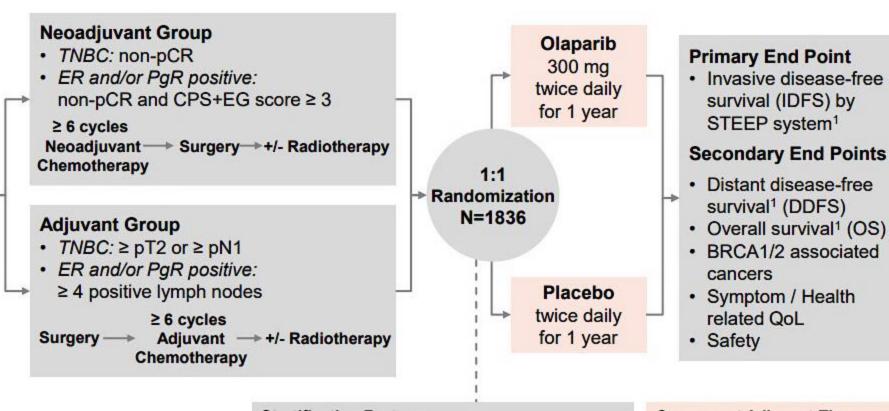
**Module 3: Triple-Negative Breast Cancer** 



## OlympiA: Trial schema



- Local genetic testing or on-study central screening (Myriad Genetics Inc.)
- Germline pathogenic or likely pathogenic BRCA1/2 mutation
- HER2-negative (ER and/or PgR positive or TNBC)
- Stage II-III Breast Cancer or lack of PathCR to NACT



Stratification Factors

- ER and/or PgR positive vs. TNBC
- Neoadjuvant vs. adjuvant
- Prior platinum-based chemotherapy (yes vs. no)

#### Concurrent Adjuvant Therapy

- Endocrine therapy
- Bisphosphonates
- No 2nd Adjuvant Chemotherapy

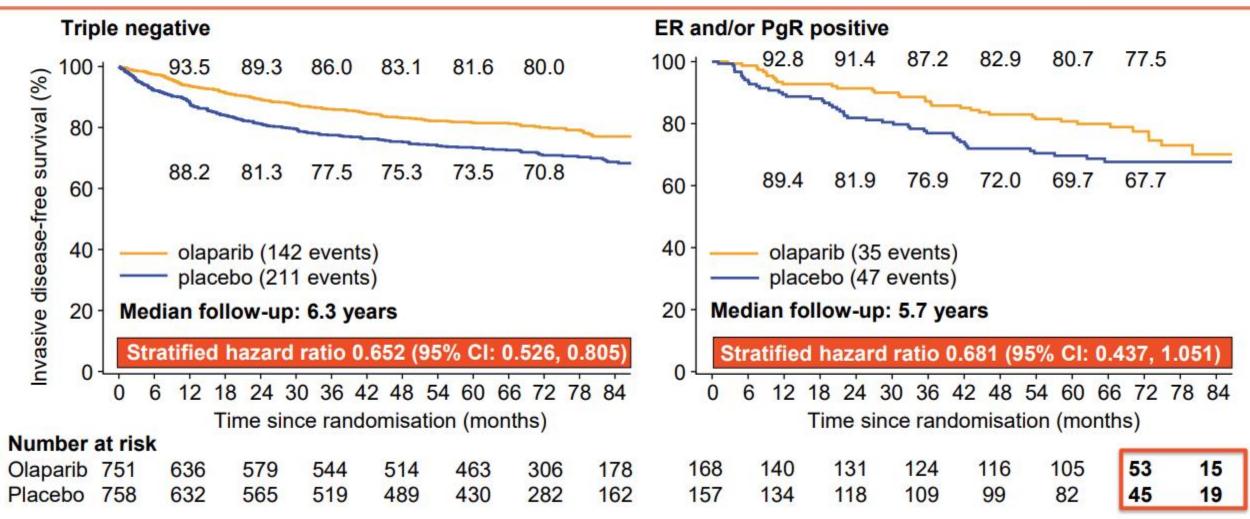
ER and/or PgR positive defined as IHC staining ≥1%.

Triple Negative defined as ER and PgR negative (IHC staining < 1%)

¹Hudis CA, *J Clin Oncol* 2007

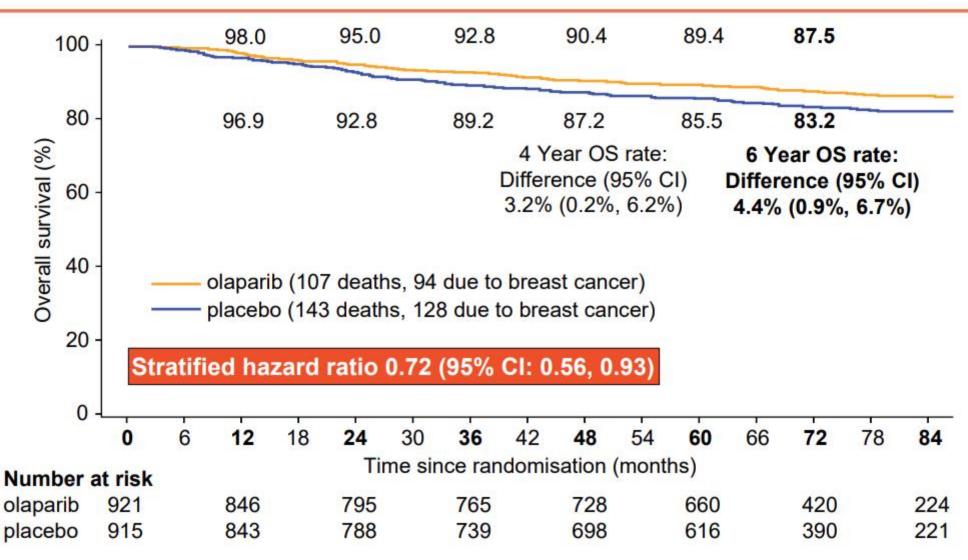
## Analysis of IDFS by HR status





## **Analysis of OS (ITT)**



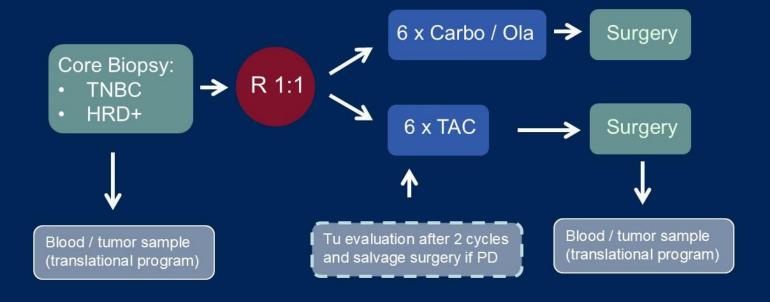


## OlympiA: Conclusions



- At 6.1 years median follow-up (maximum, 9.6 years),12 months of olaparib after (neo)adjuvant chemotherapy continues to demonstrate clinically meaningful improvements in IDFS, DDFS and OS in patients with gBRCApv and high-risk HER2-negative primary BC.
- Olaparib benefit was consistent across all key subgroups, including for patients with high-risk ER and/or PgR positive disease.
- Fewer new primary malignancies were observed in the olaparib arm.
- No new safety signals were observed with longer term follow-up, and there is no evidence of increased risk of MDS or AML.
- These data continue to support adjuvant olaparib as standard of care for patients with gBRCApv high-risk HER2-negative primary BC and therefore highlight the importance of gBRCA testing for treatment planning.
- Blinded follow-up for the final planned analysis continues until June 2029.

## ABCSG 45 Study Design (I)



#### **Phase II Study**

• 90 patients randomized

#### Strata

- Tumor BRCA1/2 status
- Menopausal status

Carbo/Ola: 6 x carboplatin AUC 5 q3w + olaparib ≥ 100 bid (days 4-19)

**TAC:** 6 x docetaxel 75 mg q3w + epirubicin 50 mg/m² q3w + cyclophosphamide 500 mg/m² q3w



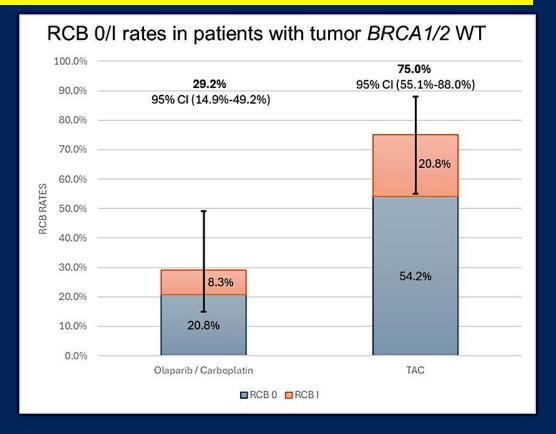




#### RCB 0/I and Tumor BRCA1/2 Status

#### RCB 0/I rates in patients with tumor BRCA1/2 PV 77.3% 100.0% 95% CI (56.6%-89.9%) 65.0% 90.0% 95% CI (43.3%-81.9%) 80.0% 0.0% 70.0% 5.0% RCB RATES 50.0% 40.0% 77.3% 30.0% 60.0% 20.0% 10.0% 0.0% Olaparib / Carboplatin TAC ■RCB 0 ■RCB I

#### Multi-agent chemo needed in the WT group









## **TROP2-directed ADCs**

	Sacituzumab govitecan (IMMU-132)	Datopotamab deruxtecan (DS-1062a)	Sacituzumab tirumotecan (MK-2870)
Antibody	hRS7 Humanized IgG1 mAb	MAAP-9001a Humanized IgG1 mAb	hRS7 Humanized IgG1 mAb
Payload	SN38 (DNA Topoisomerase I inhibitor)	DXd (DNA Topoisomerase I inhibitor)	KL610023 (DNA Topoisomerase I inhibitor)
Linker cleavage	Enzymatic and pH-dependent	Enzymatic	Enzymatic and pH-dependent
Bystander effect	Yes	Yes	Yes
DAR	7.6	4	7.4
Half-life	11-14h	~5 days	57h
Dosing	D1, D8 of Q3W schedule	Q3W	Q2W

## ASCENT-04/KEYNOTE-D19 Study Design

#### Previously untreated, locally advanced unresectable, or metastatic TNBCa:

- PD-L1-positive (CPS ≥ 10 by the 22C3 assayb)
- ≥ 6 months since treatment in curative setting (prior anti-PD-[L]1 use allowed)

N = 443

#### Stratification factors:

- De novo mTNBC<sup>c</sup> vs recurrent within 6 to 12 months from completion of treatment in curative setting vs recurrent > 12 months from completion of treatment in curative setting
- US/Canada/Western Europe vs the rest of the world
- Prior exposure to anti-PD-(L)1 (yes vs no)

# cycles) n = 221n = 222

SG + pembrod

(SG 10 mg/kg IV, days 1 and 8 of 21-day cycles; pembro 200 mg, day 1 of 21-day

#### Chemo\* + pembrod

(paclitaxel 90 mg/m<sup>2</sup> OR nab-paclitaxel 100 mg/m<sup>2</sup> on days 1, 8, & 15 of 28-day cycles, OR gemcitabine 1000 mg/m<sup>2</sup> + carboplatin AUC 2 on days 1 & 8 of 21-day cycles; pembro 200 mg on day 1 of 21-day cycles)

\*Eligible patients who experienced BICRverified disease progression were offered to cross-over to receive 2L SG monotherapy

**End points** 

#### **Primary**

All treatment.

including SG

or chemo, was

continued until

**BICR-verified** 

disease

progression or

unacceptable

toxicity

PFS by BICR<sup>e</sup>

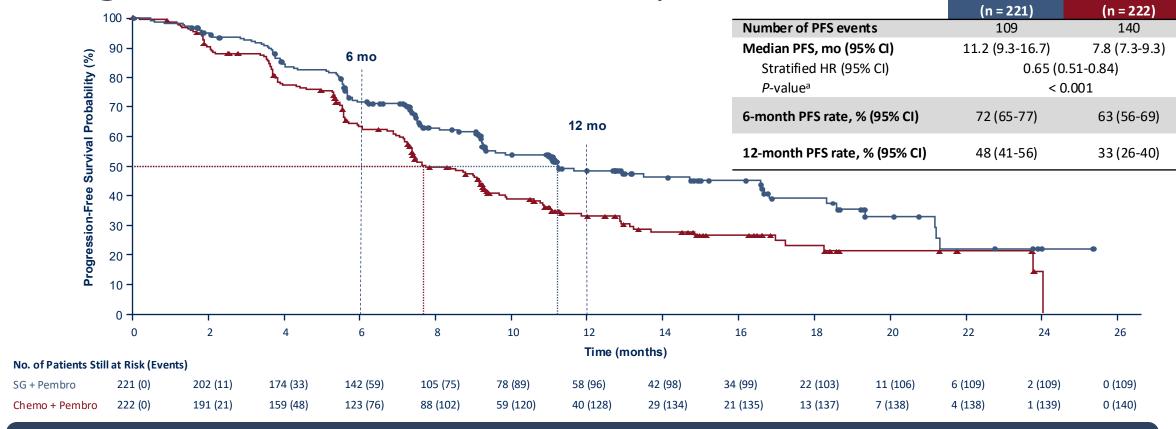
#### Secondary

- OS
- ORR, DOR by **BICR**<sup>e</sup>
- Safety
- QoL
- Median follow-up was 14.0 months (range, 0.1-28.6)
- 95 patients (43%) in the SG + pembro group and 52 patients (23%) in the chemo + pembro group continued to receive study treatment

ClinicalTrials.gov identifier: NCT05382286

aTNBC status determined according to standard American Society of Clinical Oncology-College of American Pathologists criteria. Dako, Agilent Technologies. Up to 35% de novo mTNBC. Dembro was administered for a maximum of 35 cycles. Per RECIST v1.1. AUC, area under the curve; BICR, blinded independent central review; chemo, chemotherapy; CPS, combined positive score; DOR, duration of response; IV, intravenously; ORR, objective response rate; OS, overall survival; PD-L1, programmed cell death ligand 1; pembro, pembrolizumab; PFS, progression-free survival; QoL, quality of life; R, randomized; RECIST v1.1; Response Evaluation Criteria in Solid Tumors, version 1.1; SG, sacituzumab govitecan; TNBC, triple-negative breast cancer; TTR, time-to-response.

Progression-Free Survival by BICR



SG + pembro demonstrated statistically significant and clinically meaningful improvement in PFS vs chemo + pembro by BICR analysis, with a 35% reduction in risk of disease progression or death

Data cutoff date: March 3, 2025.

BICR, blinded independent central review; chemo, chemotherapy; HR, hazard ratio; PFS, progression-free survival; pembro, pembrolizumab; SG, sacituzumab govitecan.

SG + Pembro

Chemo + Pembro

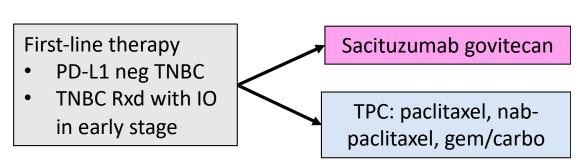
<sup>&</sup>lt;sup>a</sup>Two-sided *P*-value from stratified log-rank test.

## Conclusions

- ASCENT-04/KEYNOTE-D19 is the first randomized, phase 3 study to evaluate the efficacy and safety of an ADC/checkpoint inhibitor combination for first-line treatment of patients with PD-L1+a mTNBC
- SG + pembro led to a statistically significant and clinically meaningful improvement in PFS vs chemo + pembro (median 11.2 vs 7.8 months; HR, 0.65; 95% CI, 0.51-0.84; P < 0.001)
  - PFS benefit was observed across prespecified subgroups
- OS data are immature, but an early trend in improvement was observed
- ORR was higher (including an increased complete response rate), and responses were more durable with SG + pembro vs chemo + pembro
- The safety profile of SG + pembro was consistent with the established profiles of either agent; no additive toxicity was observed

Results from ASCENT-04/KEYNOTE-D19 support the use of SG + pembro as a potential new standard of care for patients with previously untreated, PD-L1+, locally advanced unresectable or metastatic TNBC

## **ASCENT-03** (NCT05382299): PD-L1 negative N=540



May 23, 2025

ASCENT-03: Sacituzumab Govitecan Demonstrates Highly Statistically Significant & Clinically Meaningful Improvement in Progression Free Survival in Patients With First-line Metastatic Triple-Negative Breast Cancer Who Are Not Candidates for Checkpoint Inhibitors

The study met its primary endpoint, demonstrating a highly statistically significant and clinically meaningful improvement in progression-free survival (PFS) compared to chemotherapy in patients with first-line mTNBC who are not candidates for PD-1/PD-L1 inhibitors, meaning they are PD-L1 negative or are ineligible to receive immunotherapy.

## TROPION-Breast02 + TROPION-Breast05 Study Design

#### TROPION-Breast02<sup>1,2</sup>

## Patient Population

- Untreated, inoperable/locally advanced or metastatic TNBC
- PD-L1- (CPS <10) <u>OR PD-L1+ (CPS ≥10)</u> if treated with an anti-PD-(L)1 agent for eBC or if they cannot be treated with an anti-PD-(L)1 agent due to a comorbidity, or if no regulatory access to an anti-PD-(L)1 agent
- No minimum DFI since completion of Tx in curative setting (DFI ≤12 months capped at 20%)
- History of ILD/pneumonitis and clinically significant corneal disease excluded

Study Design

# R 1:1 TPC chemo (pac, nab-pac, capecitabine, carboplatin, eribulin)

#### **Stratification Factors**

- Geographic region
- PD-L1 status
- De novo vs prior DFI ≤12 months vs prior DFI >12 months

Key Endpoints<sup>a</sup>

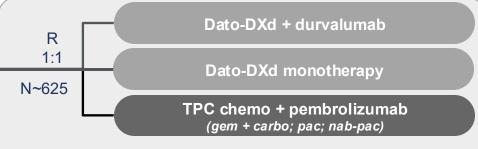
- Primary: PFS by BICR, OS
- Secondary: ORR, DOR, PFS (investigator), safety, PROs

#### **TROPION-Breast05**<sup>3</sup>

## Patient Population

- PD-L1+ (CPS ≥10) untreated, inoperable/locally advanced or metastatic TNBC
- DFI ≥6 months since Tx in curative setting (DFI 6–12 months capped at 20%)
- Prior PD-(L)1 use allowed in this setting
- History of ILD/pneumonitis and clinically significant corneal disease excluded

Study Design



#### **Stratification Factors**

- Geographic region
- Prior PD-(L)1
- De novo vs prior DFI 6–12 months vs prior DFI >12 months

Key Endpoints<sup>a</sup>

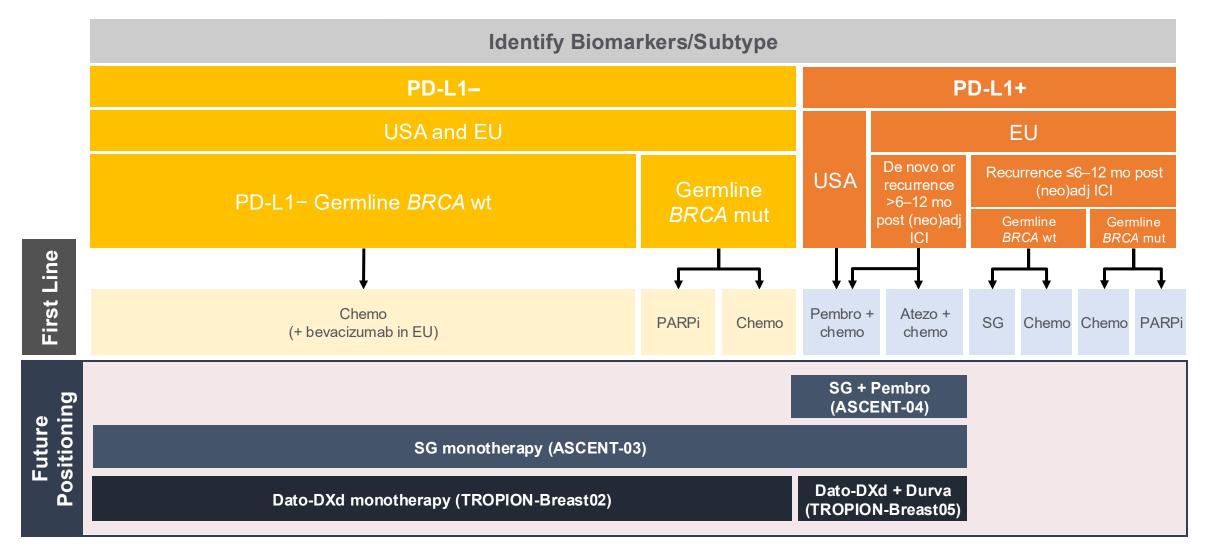
- Primary: PFS by BICR
- Secondary: OS, PFS (investigator), ORR, safety, PROs

#### <sup>a</sup>Secondary endpoints not exhaustive.

<sup>1</sup>L, first line; BICR, blinded independent central review; carbo, carboplatin; chemo, chemotherapy; CPS, combined positive score; Dato-DXd, datopotamab deruxtecan; DFI, disease-free interval; eBC, early-stage breast cancer; gem, gemcitabine; nab-pac, nab-paclitaxel; ORR, objective response rate; OS, overall survival; pac, paclitaxel; PD-1, programmed death ligand 1-positive; PFS, progression-free survival; PROs, patient-reported outcomes; R, randomization; TNBC, metastatic triple-negative breast cancer; TPC, treatment of physician's choice; Tx, therapy.

<sup>1.</sup> Dent RA, et al. Future Oncol. 2023;19(35):2349-2359; 2. https://clinicaltrials.gov/study/NCT05374512; 3. Schmid P, et al. Ther Adv Med Oncol. 2025;17:17588359251327992

## NCCN and ESMO Guidelines for 1L



<sup>1</sup>L, first line; atezo, atezolizumab; chemo, chemotherapy; Dato-DXd, datopotamab deruxtecan; durva, durvalumab; ESMO, European Society for Medical Oncology;
EU, European Union; ICI, immune checkpoint inhibitor; mo, months; mTNBC, metastatic triple-negative breast cancer; mut, mutation; NCCN, National Comprehensive Cancer Network; (neo)adj, neoadjuvant or adjuvant; PARPi, poly (ADP-ribose) polymerase inhibitor; PD-L1-/+, programmed cell death ligand 1-negative/positive; pembro, pembrolizumab; SG, sacituzumab govitecan; wt, wild-type.

## Sacituzumab Tirumotecan (sac-TMT)

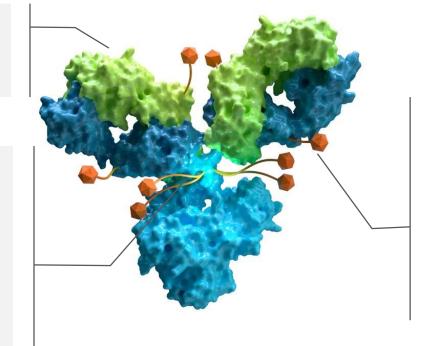
**Sac-TMT** is a TROP2 ADC developed with a proprietary Kthiol (pyrimidine-thiol) linker conjugated to a novel topoisomerase I inhibitor at DAR 7.4. The features of sac-TMT lead to release of the payload both in the tumor microenvironment (TME) and inside tumor cells, achieving a balance between the safety and efficacy of the ADC.

#### **Antibody**

 hRS7, a recombinant humanized anti-TROP2 antibody with high affinity

#### <u>Linker</u>

- Kthiol conjugation: irreversible coupling to improve stability of ADC
- Payload release: intracellular enzymatic cleavage and extracellular hydrolysis in TME
- Balanced stability: balance between efficacy and safety to expand therapeutic window

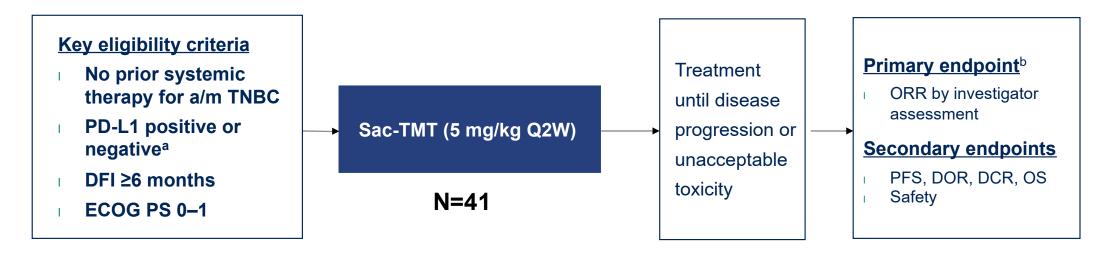


#### **Payload**

- Novel topo I inhibitor (belotecan derivative named T030), highly active
- Average **DAR: 7.4** (range:7–8)
- Bystander effect
- Methylsulfonyl derivatization enhances linker stability and toxin permeability

## OptiTROP-Breast05: Phase II 1st Line Sac-TMT

Multicenter, open-label phase II study (NCT05445908)



#### **Tumor assessment**

• Every 6 weeks for the first 18 months and every 12 weeks afterward.

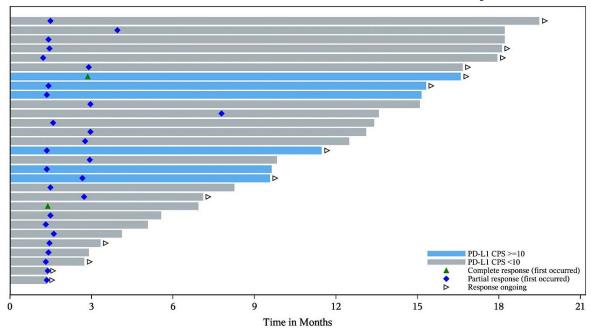
Disease-free interval, n (%)	
De novo metastasis	12 (29.3)
6-12 months	8 (19.5)
≥12 months	21 (51.2)

PD-L1 expression, <sup>b</sup> n (%)	
CPS <10	32 (78.0)
CPS ≥10	9 (22.0)

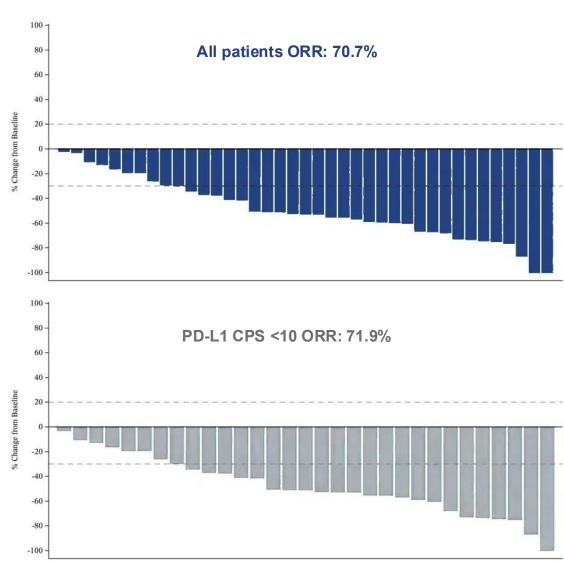
## OptiTROP-Breast05: Phase II 1st Line Sac-TMT

N=41

Median DOR was 12.2 mo (range: 1.4+-18.0+) and 12-month DOR rate was 50.6% in all patients.

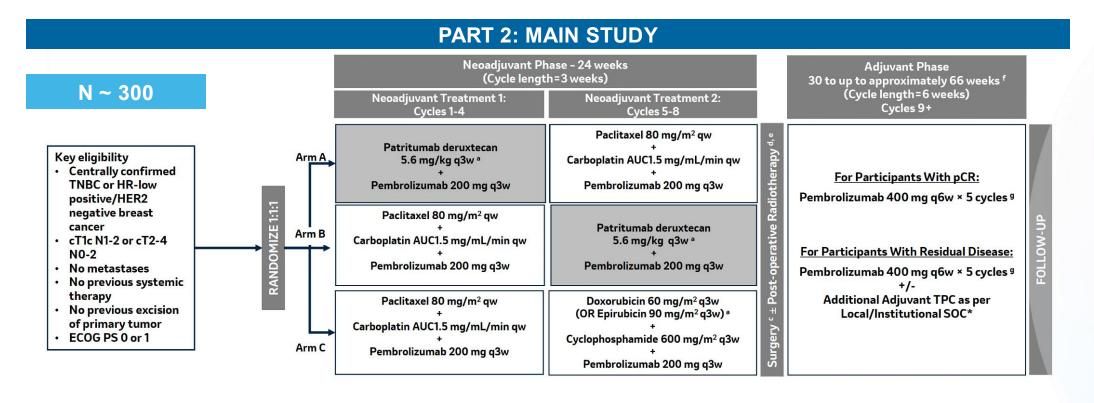


- The most common grade ≥3 TRAEs (occurred in ≥5% of pts):
  - Neutrophil count decreased (46.3%)
  - WBC count decreased (34.1%)
  - Anemia (12.2%)
  - Stomatitis (9.8%)
  - Lymphocyte count decreased (7.3%)
  - Fatigue (7.3%)



Median follow-up was 18.6 months.

# HERTHENA-Breast03 (NCT06797635): Preoperative HER3-DXd in sequence in TNBC





## **Adjuvant Olaparib Indication**

As adjuvant therapy for adult patients with deleterious or suspected deleterious germline BRCA-mutant, HER2-negative high-risk localized breast cancer who have received neoadjuvant or adjuvant chemotherapy



### **Faculty Discussion Questions**

For which patients with localized disease are you using adjuvant olaparib, and how does this correlate with the current FDA indication?

Reimbursement and regulatory issues aside, what is the optimal first-line therapy for patients with PD-L1-positive and PD-L1-negative mTNBC? How does prior treatment in the neoadjuvant and adjuvant settings affect this?



## Selection and Sequencing of Therapy for Metastatic Triple-Negative Breast Cancer

A CME/MOC-Accredited Live Webinar

Thursday, August 28, 2025 5:00 PM - 6:00 PM ET

**Faculty** 

Ana C Garrido-Castro, MD Professor Peter Schmid, FRCP, MD, PhD

**Moderator Neil Love, MD** 



## Thank you for joining us!

Please take a moment to complete the survey currently up on Zoom. Your feedback is very important to us.

The survey will remain open for 5 minutes after the meeting ends.

Information on how to obtain CME, ABIM MOC and ABS credit is provided in the Zoom chat room. Attendees will also receive an email in 1 to 3 business days with these instructions.

