

Data + Perspectives: Clinical Investigators Explore the Application of Recent Datasets in Current Oncology Care

CME/MOC, NCPD and ACPE Accredited

**Saturday, October 11, 2025
7:15 AM – 12:30 PM ET**



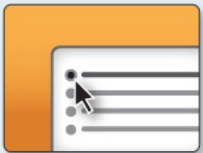
Welcome FCS Members!

Clinicians in the Meeting Room

Networked iPads are available.



Review Program Slides: Tap the Program Slides button to review speaker presentations and other program content.



Answer Survey Questions: Complete the premeeting survey.



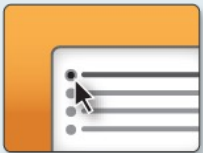
Ask a Question: Tap Ask a Question to submit a challenging case or question for discussion. We will aim to address as many questions as possible during the program.

For assistance, please raise your hand. Devices will be collected at the conclusion of the activity.

Clinicians Attending via Zoom



Review Program Slides: A link to the program slides will be posted in the chat room at the start of the program.



Answer Survey Questions: Complete the premeeting surveys.



Ask a Question: Submit a challenging case or question for discussion using the Zoom chat room.



Get CME/ACPE/NCPD Credit: A credit link will be provided in the chat room at the conclusion of the program.

This educational activity contains discussion of non-FDA-approved uses of agents and regimens. Please refer to official prescribing information for each product for approved indications.

Practical Perspectives: Experts Review Actual Cases of Patients with Endometrial Cancer

A CME/MOC-Accredited Live Webinar

Wednesday, October 15, 2025

5:00 PM – 6:00 PM ET

Faculty

Kathleen N Moore, MD, MS

Matthew A Powell, MD

Moderator

Neil Love, MD

Practical Perspectives: Experts Review Actual Cases of Patients with HER2-Positive Gastrointestinal Cancers

A CME/MOC-Accredited Live Webinar

Tuesday, October 21, 2025

5:00 PM – 6:00 PM ET

Faculty

Tanios Bekaii-Saab, MD

Kristen K Ciombor, MD, MSCI

Moderator

Neil Love, MD

Cancer Q&A: Understanding the Role and Reality of CAR (Chimeric Antigen Receptor) T-Cell Therapy for Non-Hodgkin Lymphoma

*A Webinar Series for Clinicians and Patients,
Developed in Partnership with CancerCare®*

Patients

Wednesday, October 22, 2025
6:00 PM – 7:00 PM ET

Clinicians

Wednesday, November 12, 2025
5:00 PM – 6:00 PM ET

Faculty

Jeremy S Abramson, MD, MMSc
Loretta J Nastoupil, MD

Moderator

Neil Love, MD

Exploring Current Patterns of Care in the Community: Optimizing the Use of Oral Selective Estrogen Receptor Degraders for HR-Positive Metastatic Breast Cancer

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

What Clinicians Want to Know: First-Line and Maintenance Therapy for Patients with Extensive-Stage Small Cell Lung Cancer

A CME/MOC-Accredited Live Webinar

Tuesday, November 11, 2025

5:00 PM – 6:00 PM ET

Faculty

Luis Paz-Ares, MD, PhD

Misty Dawn Shields, MD, PhD

Moderator

Neil Love, MD

Cancer Conference Update: 2025 ESMO Annual Meeting — Breast Cancer Highlights

CME/MOC-Accredited Live Webinar

**Thursday, November 13, 2025
5:00 PM – 6:00 PM ET**

Faculty

**Professor Giuseppe Curigliano, MD, PhD
Priyanka Sharma, MD**

Moderator

Neil Love, MD

Exciting CME Events You Do Not Want to Miss

A Friday Satellite Symposium Series Preceding the 67th ASH Annual Meeting

Friday, December 5, 2025

Acute Myeloid Leukemia

7:30 AM – 9:30 AM ET

**Myelofibrosis and
Systemic Mastocytosis**

3:15 PM – 5:15 PM ET

Chronic Lymphocytic Leukemia

11:30 AM – 1:30 PM ET

**Follicular Lymphoma and
Diffuse Large B-Cell Lymphoma**

7:00 PM – 9:00 PM ET

Cases from the Community: Investigators Discuss the Optimal Management of Breast Cancer

A 3-Part CME Satellite Symposium Series

Antibody-Drug Conjugates for Metastatic Breast Cancer

Tuesday, December 9, 2025

7:00 PM – 8:30 PM CT

HER2-Positive Breast Cancer

Wednesday, December 10, 2025

7:00 PM – 9:00 PM CT

Endocrine-Based Therapy

Thursday, December 11, 2025

7:00 PM – 9:00 PM CT

Moderator
Neil Love, MD

Optimizing Treatment for Patients with Relapsed/Refractory Chronic Lymphocytic Leukemia

A CME/MOC-Accredited Interactive Grand Rounds Series

October 2025 to March 2026

Steering Committee

Catherine C Coombs, MD

Matthew S Davids, MD, MMSc

Bitia Fakhri, MD, MPH

Nicole Lamanna, MD

Jeff Sharman, MD

Jennifer Woyach, MD

Host a 1-hour session at your institution:

Email Meetings@ResearchToPractice.com

or call (800) 233-6153

Save The Date

Fifth Annual National General Medical Oncology Summit

***A Multitumor CME/MOC-, NCPD- and ACPE-Accredited
Educational Conference Developed in Partnership with
Florida Cancer Specialists & Research Institute***

Friday to Sunday, April 24 to 26, 2026

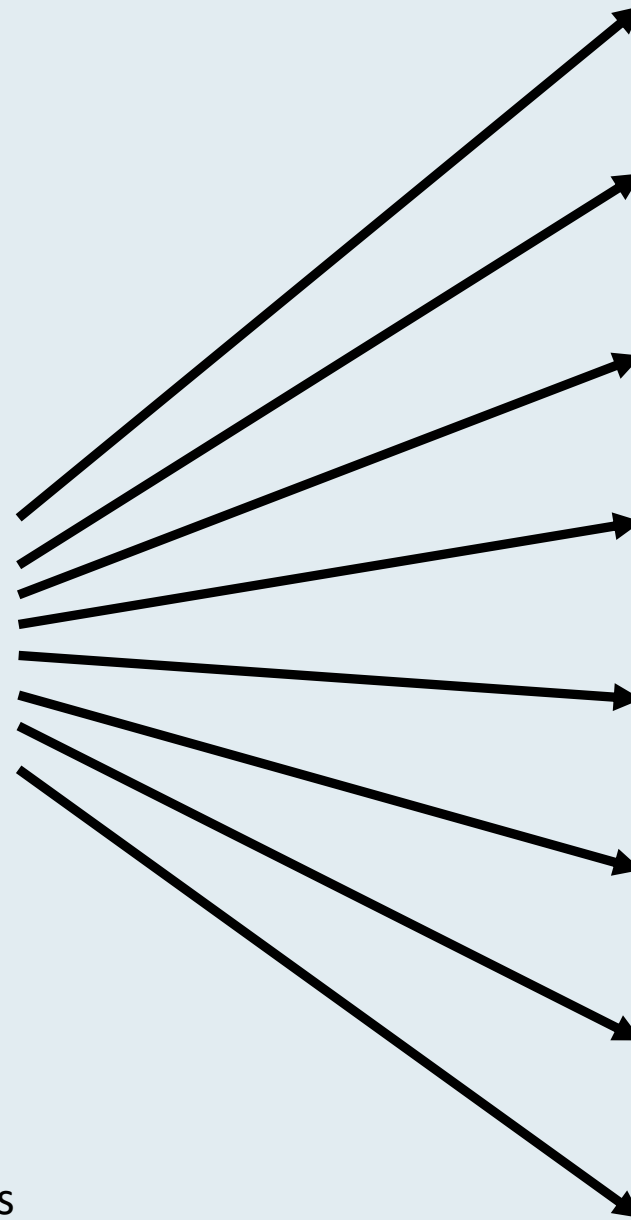
The Ritz-Carlton Orlando, Grande Lakes | Orlando, Florida

Moderated by Neil Love, MD

RTP Content Production (Hours)

9/1/24 — 8/31/25

	Year	Month
Total	281	24 (12-31)
Final*	199	16 (9-31)
Recordings	93	8 (0-15)
Webinars	41	4 (0-6)
Cases	62	5 (2-6)
Meetings	94	8 (0-18)



- Podcast**
- Streaming Platforms**
(YouTube, Spotify)
- Email**
- Social Media**
- App**
- Website**
- Text Messages**
- QR Code Cards**

*Presentations = 50 hours; Discussions = 150 hours

RTP Playlist with Neil Love, MD



BREAST CANCER

Dr Hope Rugo: Interview
(28 min)

SMALL CELL LUNG CANCER

Drs Stephen Liu and Charles
Rudin: Cases (58 min)



GASTROESOPHAGEAL CANCER

Drs Geoffrey Ku and Zev
Wainberg: Cases (61 min)

PROSTATE CANCER

Drs Emmanuel Antonarakis
and Karim Fizazi:
Year in Review (60 min)



ENDOMETRIAL AND OVARIAN CANCER

Dr Shannon Westin:
Interview (52 min)

NEUROENDOCRINE TUMORS

Drs Simron Singh and
Jonathan Strosberg: Meeting
(50 min)



NON-HODGKIN LYMPHOMA

Drs Jeremy Abramson, Joshua
Brody, Christopher Flowers,
Ann LaCasce and Tycel Phillips:
Meeting, cases (59 min)

CHRONIC LYMPHOCYTIC LEUKEMIA

Drs Jennifer Brown and Paolo
Ghia: Year in Review (59 min)



ACUTE MYELOID LEUKEMIA

Dr Jorge Cortes: Interview
(43 min)

MULTIPLE MYELOMA

Drs Natalie Callander and
Sagar Lonial: Patient videos
(59 min)



IMMUNE THROMBOCYTOPENIA

Drs Hanny Al-Samkari, James
Bussel and Nichola Cooper:
Think Tank (117 min)

OCULAR TOXICITIES IN ONCOLOGY

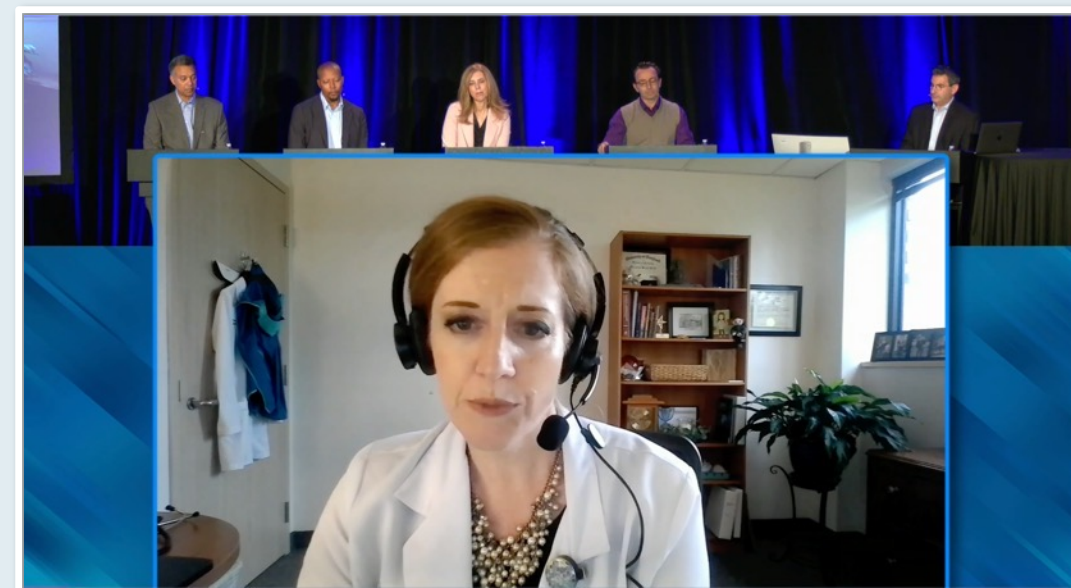
Dr Neel Pasricha: Interview
(54 min)



Feedback (Please!)

DrNeilLove@ResearchToPractice.com

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RTP Playlist with Neil Love, MD



Webinar for patients and families
on relapsed multiple myeloma with
Drs Natalie Callander and Sagar Lonial.



Relapsed Multiple
Myeloma: Where We Were,
Where We Are (4 min)



Common Questions from
the Beginning (5 min)

Choosing Treatment
Options (4 min)



Clinical Research Trials
(6 min)

Neuropathy (5 min)



Chimeric Antigen Receptor
(CAR) T-Cell Therapy
(6 min)

Bispecific Antibodies
(8 min)



Antibody-Drug
Conjugates: Belantamab
Mafadotin (8 min)



Interacting with the
Oncology Team (5 min)



Other Questions (4 min)

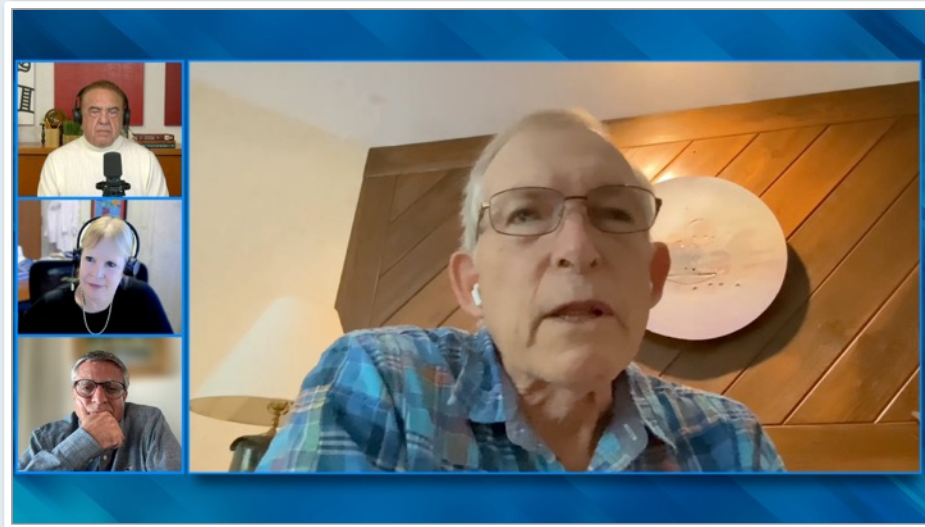
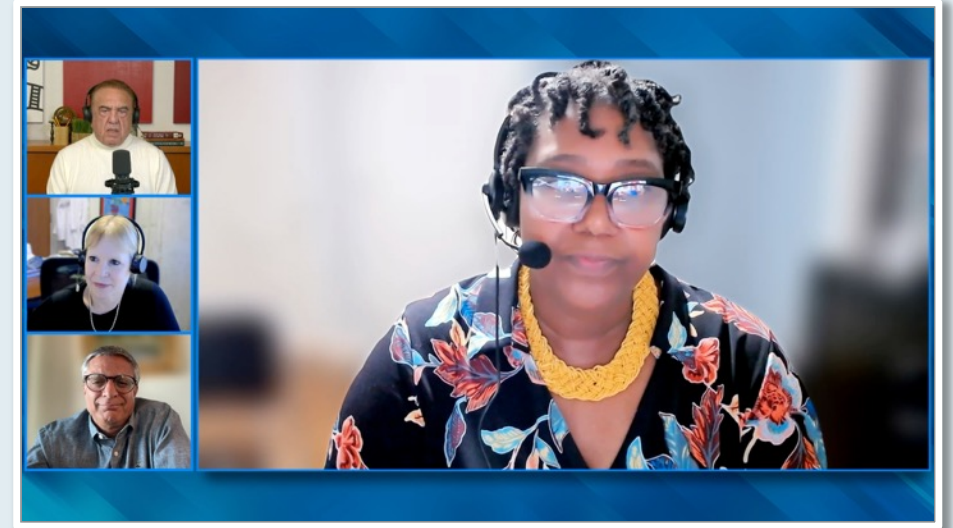
Recording of Entire
Webinar (62 min)

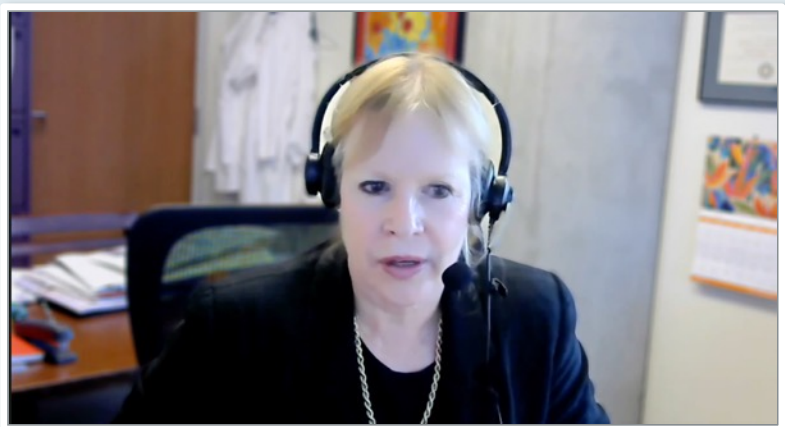
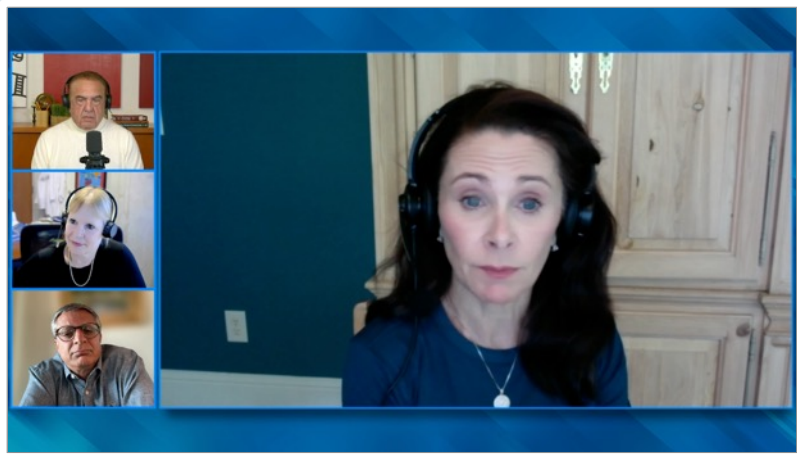


Feedback (Please!)

DrNeilLove@ResearchToPractice.com

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**Survey of Attendees and Other Community-Based
General Medical Oncologists
September 30 – October 8, 2025**

Agenda

Module 1 — Breast Cancer: *Drs Burstein, Goetz, McArthur and Nanda*

Module 2 — Prostate Cancer: *Drs Antonarakis and M Smith*

Module 3 — Colorectal Cancer: *Drs Lieu and Strickler*

Module 4 — Diffuse Large B-Cell Lymphoma and Follicular Lymphoma: *Drs Lunning and S Smith*

Agenda

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Breast Cancer



Harold J Burstein, MD, PhD
Director of Academic Partnerships
Institute Physician
Dana-Farber Cancer Institute
Professor of Medicine
Harvard Medical School
Boston, Massachusetts



Heather McArthur, MD, MPH, FASCO
Professor, Department of Internal Medicine
Clinical Director, Breast Cancer Program
Komen Distinguished Chair in Clinical Breast
Cancer Research
UT Southwestern Medical Center
Dallas, Texas



Matthew P Goetz, MD
Erivan K Haub Family Professor of Cancer Research
Honoring Richard F Emslander, MD
Professor of Oncology and Pharmacology
Department of Oncology
Mayo Clinic
Rochester, Minnesota



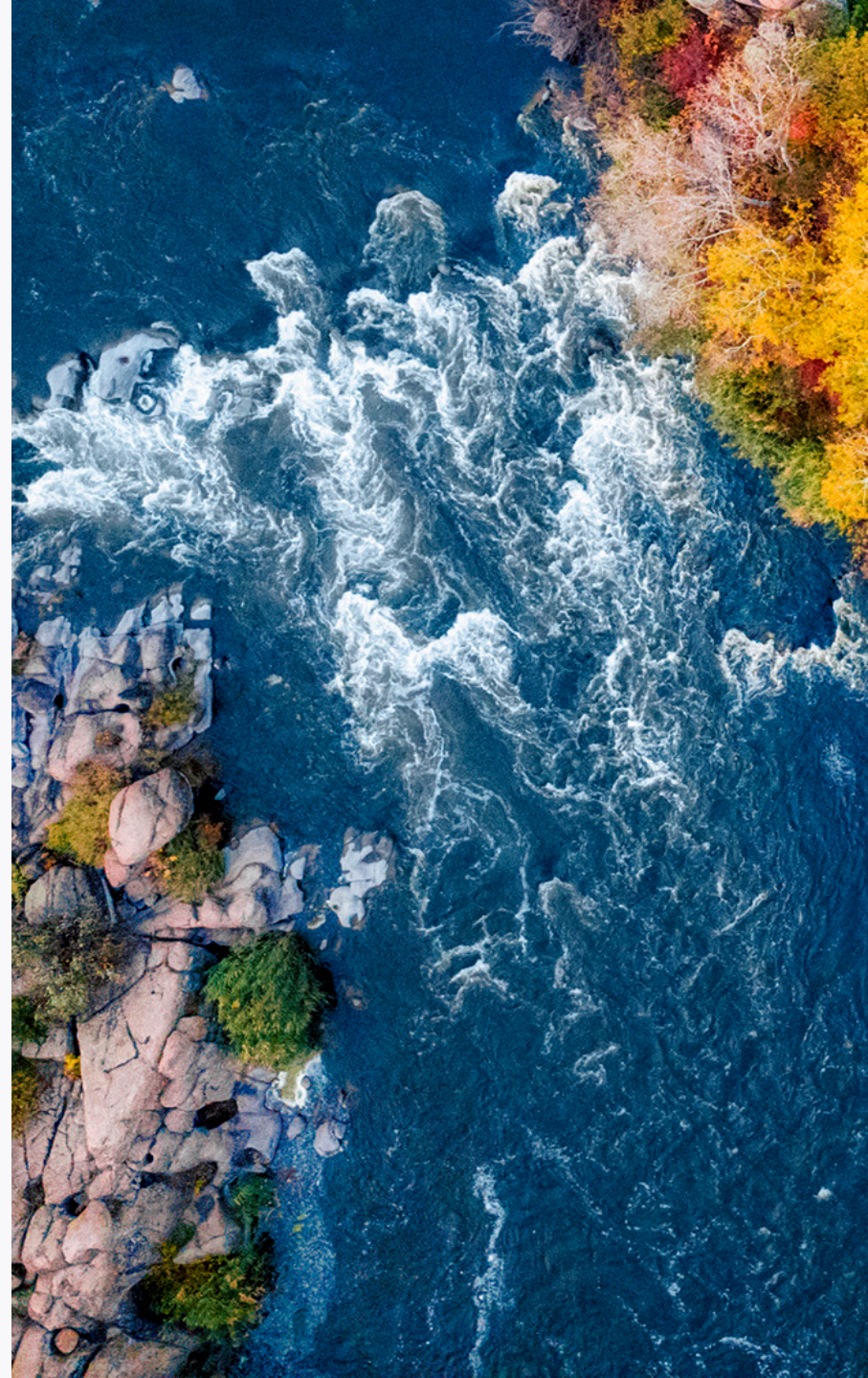
Rita Nanda, MD
Director, Breast Oncology
Associate Professor of Medicine
Section of Hematology/Oncology
The University of Chicago
Chicago, Illinois



Localized Hormone Receptor (HR)-Positive Breast Cancer (BC); Initial Therapy for Metastatic Disease

FCS 2025 Symposium

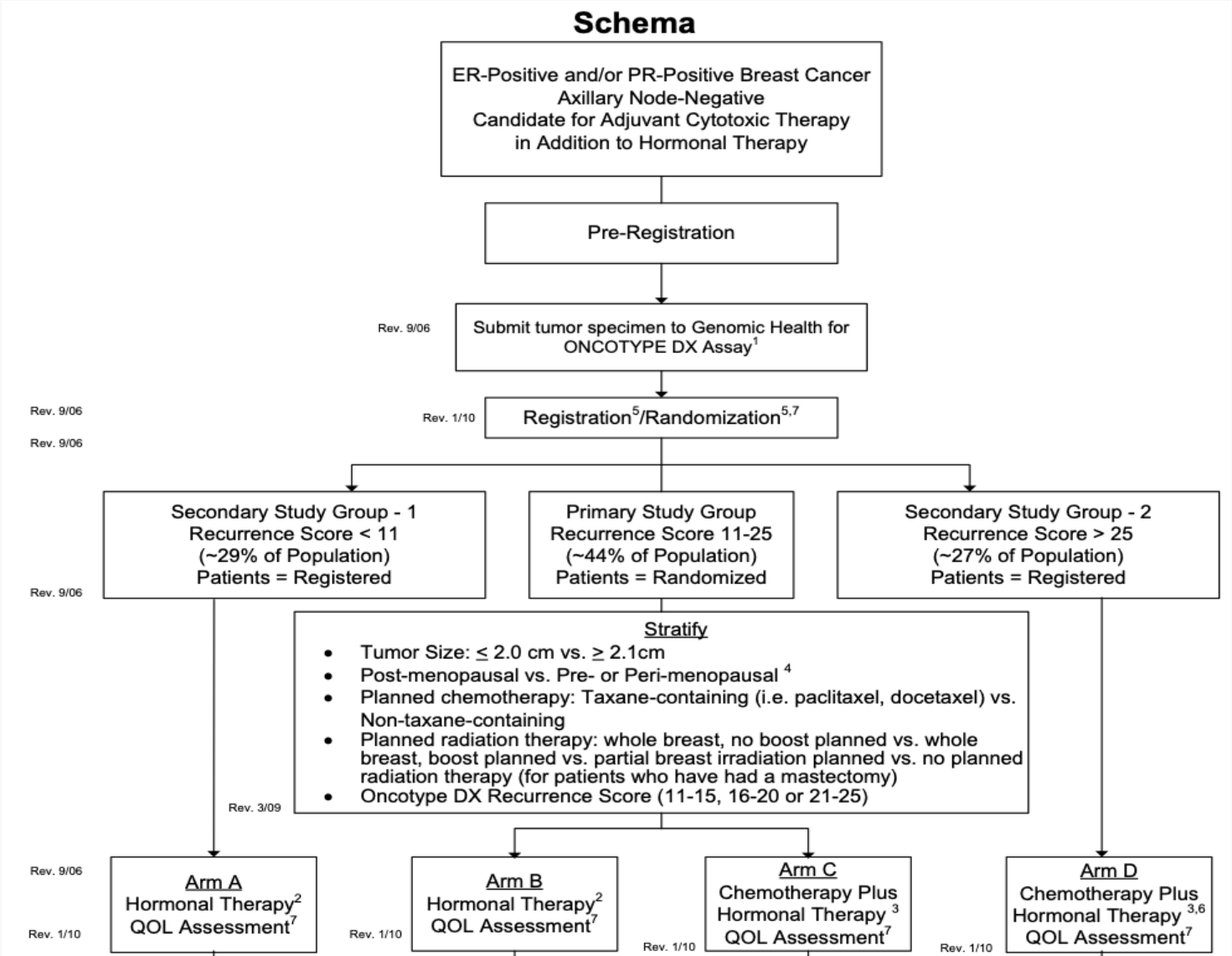
Matthew P. Goetz, M.D.
Erivan K. Haub Family Professor of Cancer Research
Honoring Richard F. Emslander, M.D.
Mayo Clinic
Rochester, MN USA



Outline

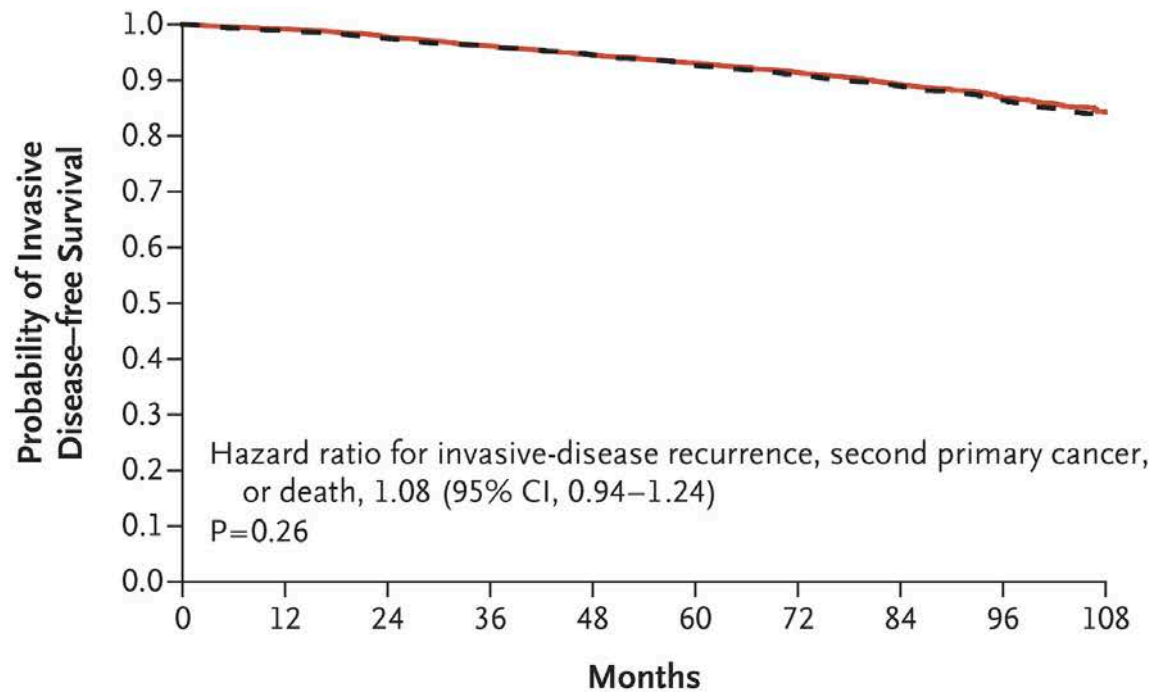
- Key studies informing the use of the 21-gene Recurrence Score (RS) to guide treatment decision-making for patients with HR-positive, HER2-negative BC
- Extended follow-up with the addition of abemaciclib and ribociclib, respectively, to standard adjuvant endocrine therapy for patients with localized HR-positive, HER2- negative BC
- Long-term follow-up from key clinical trials of approved CDK4/6 inhibitors in patients with HR-positive, HER2-negative metastatic BC
- Published data from the Phase III SERENA-6 trial of early therapeutic switching from an aromatase inhibitor to camizestrant after detection of an emergent ESR1 mutation during first-line therapy for HR-positive, HER2-negative mBC

PACCT-1: Prospective Validation of 21-Gene Recurrence Score (RS)

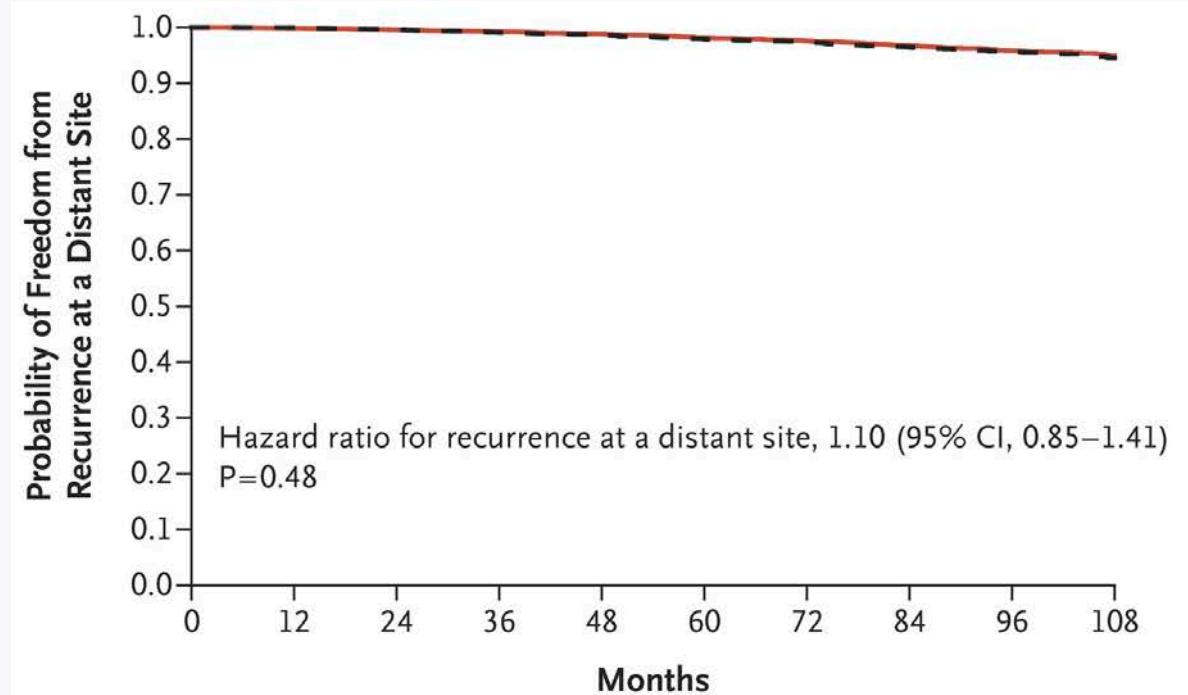


PACCT-1: Clinical Outcomes (RS 11 to 25)

Invasive Disease-Free Survival

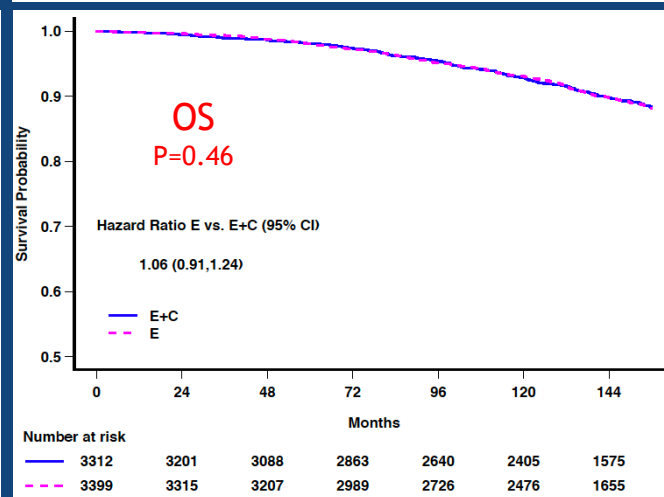
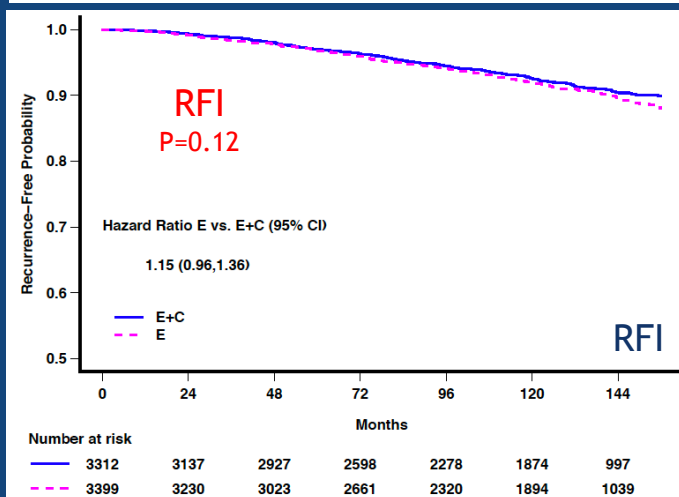
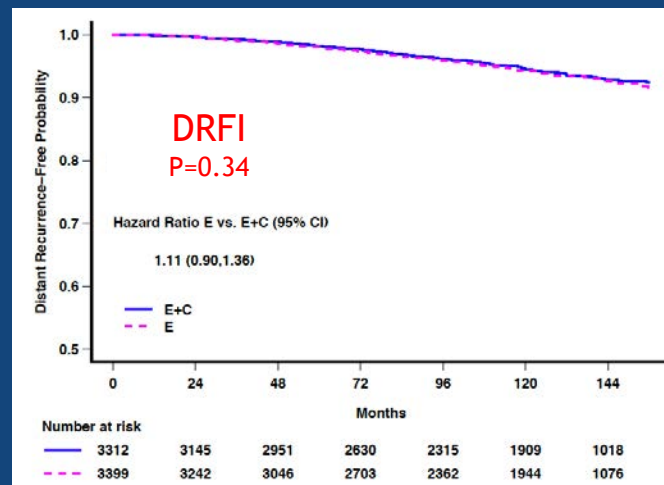
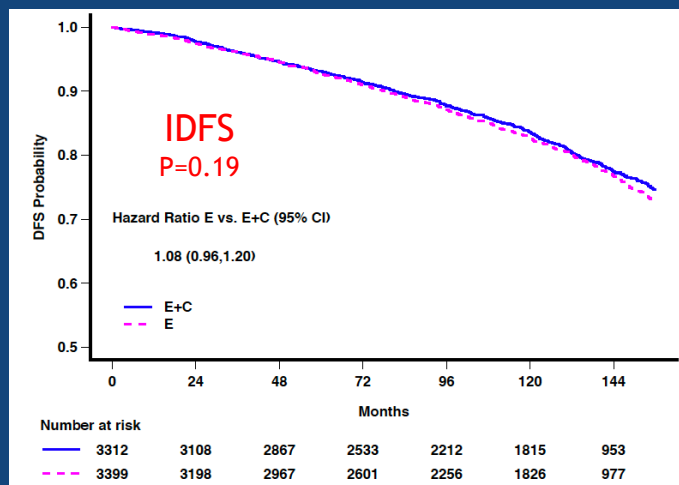


Freedom from Recurrence at a Distant Site



— — — Endocrine therapy — Chemoendocrine therapy

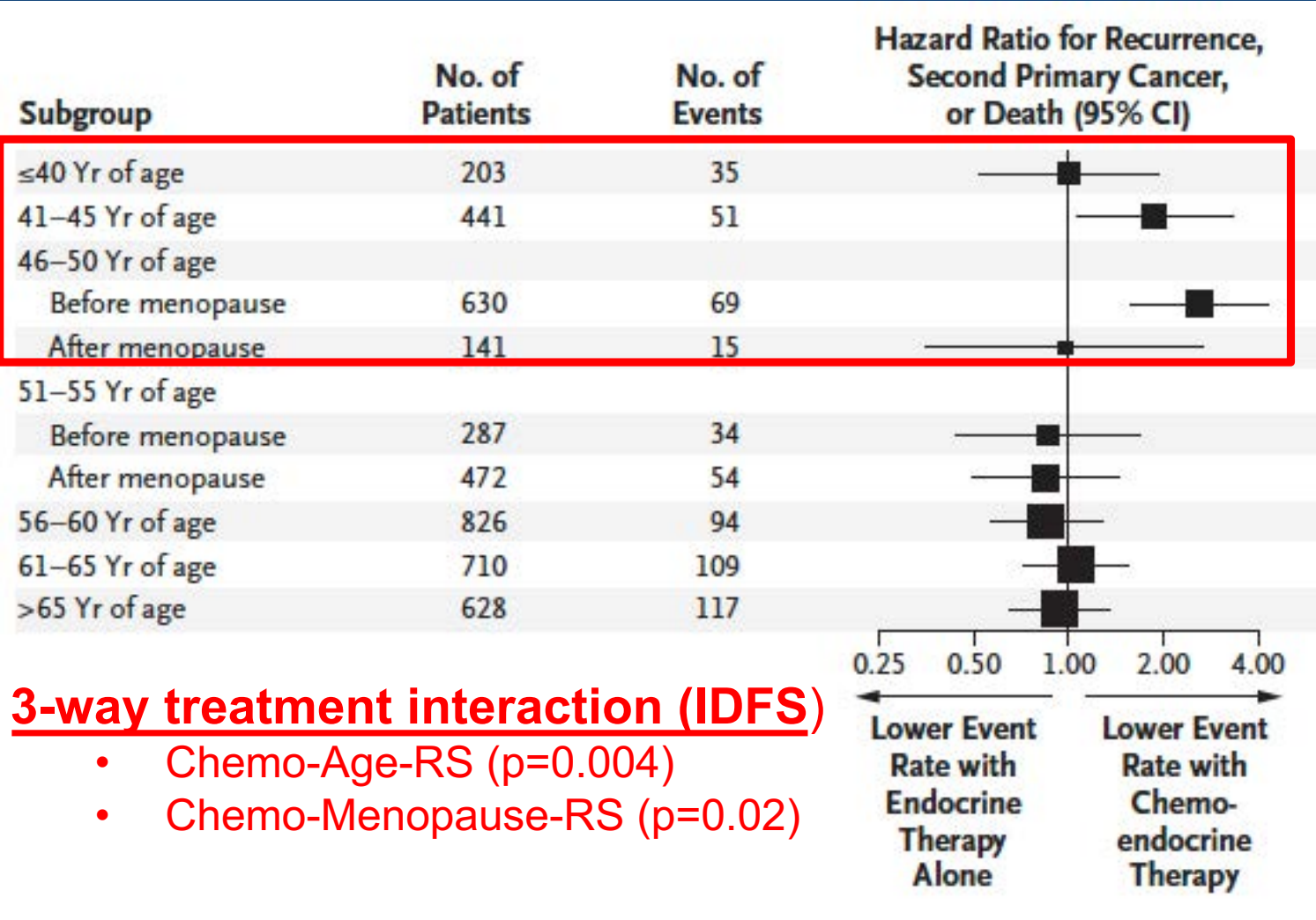
TAILORx: Updated Analysis - Kaplan-Meier Curves in RS 11-25 Arms (ITT population)



Primary trial conclusions unchanged: ET non-inferior to CET (N=6711)

Event	Hazard Ratio: Arm B vs. C (95% CI)
IDFS	Primary analysis: 1.08 (0.94, 1.24, p=0.26)
	Updated analysis: 1.08 (0.96, 1.20)
DRFI	Primary analysis: 1.10 (0.85, 1.41, p=0.48)
	Updated analysis: 1.11 (0.90, 1.36)
RFI	Primary analysis: 1.11 (0.90, 1.37, p=0.33)
	Updated analysis: 1.15 (0.96, 1.36)
OS	Primary analysis: 0.99 (0.79, 1.22, p=0.89)
	Updated analysis: 1.06 (0.91, 1.24)

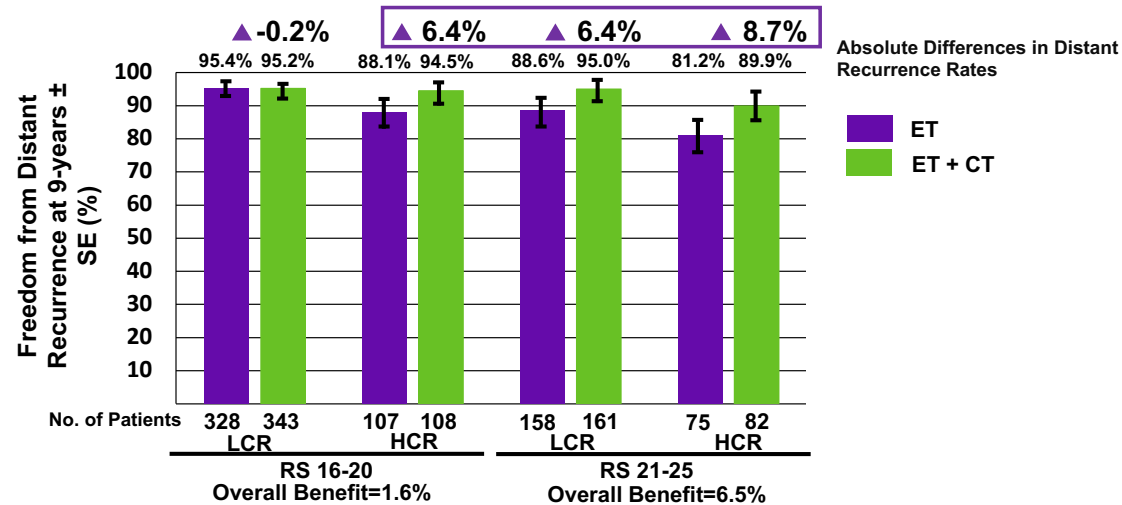
TAILORx: Effect of Age, RS, and Clinical Risk on Chemotherapy Benefit



	Age < 50 Years: Estimated Absolute Chemo Benefit in 9-Year Distant Recurrence Rate
RS 16-20 (N=886)	Δ +1.6% (±SE 1.9%)
RS 21-25 (N=476)	Δ +6.5% (+SE 3.7%)

Development and validation of the RSClin educational tool integrating the 21-gene RS and clinicopathologic features

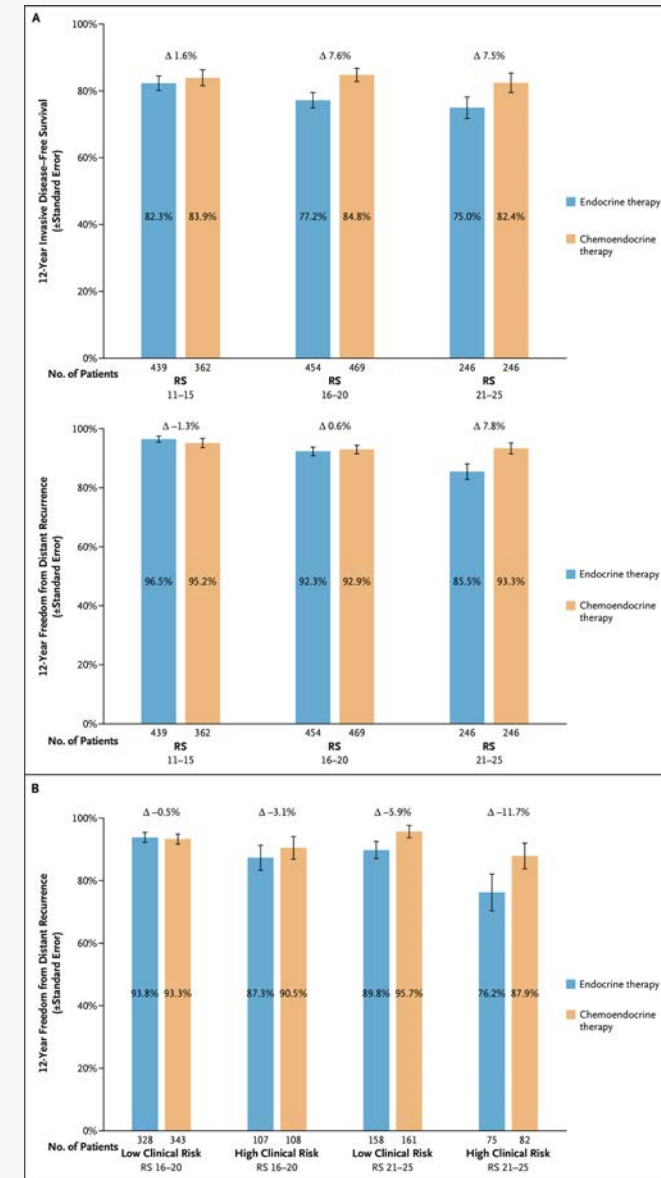
Clinical Risk Adds Insight into Chemotherapy Benefit in Women ≤50 Years With RS Results 16-20 and 21-25



No CT benefit observed in women ≤50 years with RS result 16-20 & low clinical risk

Sparano JA, et al. *N Engl J Med.* 2019;380(25):2395-2405.

LCR: Low clinical risk
HCR: High clinical risk
RS: Recurrence Score® results
ET: Endocrine therapy
CT: Chemotherapy
ET + CT: Chemo-endocrine therapy



RxPONDER: Study Design

Key Entry Criteria

- Women age ≥ 18 yrs
- ER and/or PR $\geq 1\%$, HER2- breast cancer with 1*-3 LN+ without distant metastasis
- Able to receive adjuvant taxane and/or anthracycline-based chemotherapy**
- Axillary staging by SLNB or ALND

R
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G
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Recurrence Score 0-25

Recurrence Score > 25

Off Study
Chemotherapy Followed by
Endocrine Therapy Recommended

R
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N = 5,000 pts

Arm 1:
Chemotherapy Followed by
Endocrine Therapy

Arm 2:
Endocrine Therapy Alone

Stratification Factors

Recurrence Score: 0-13 vs. 14-25
Menopausal Status: pre vs. post
Axillary Surgery: ALND vs. SLNB

* After randomization of 2,493 pts, the protocol was amended to exclude enrollment of pts with pN1mic as only nodal disease.

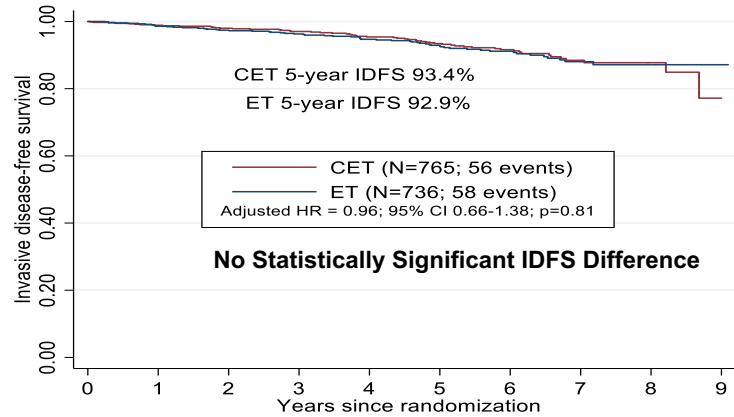
** Approved chemotherapy regimens included TC, FAC (or FEC), AC/T (or EC/T), FAC/T (or FEC/T). AC alone or CMF not allowed.

ALND = Axillary Lymph Node Dissection, SLNB = Sentinel Lymph Node Biopsy

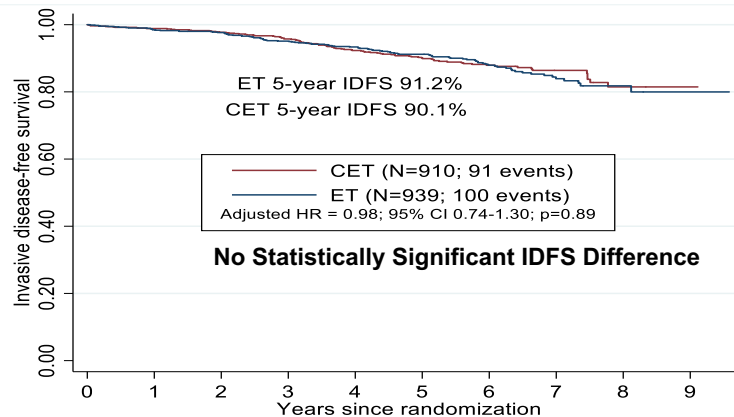
IDFS Stratified by Recurrence Score and Menopausal Status

Postmenopausal

RS 0-13

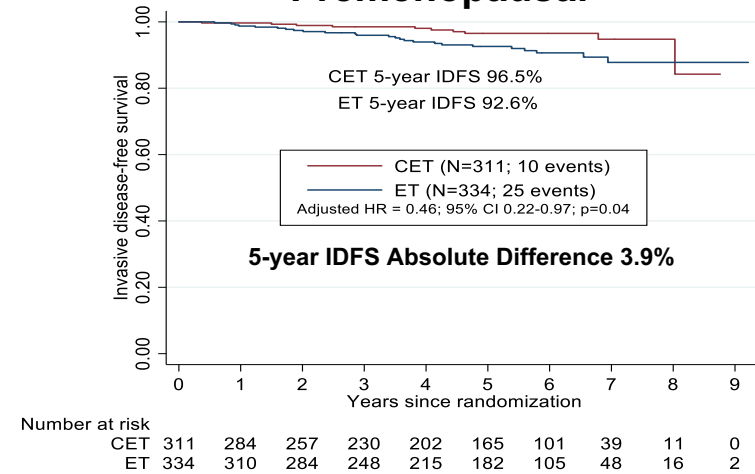


RS 14-25

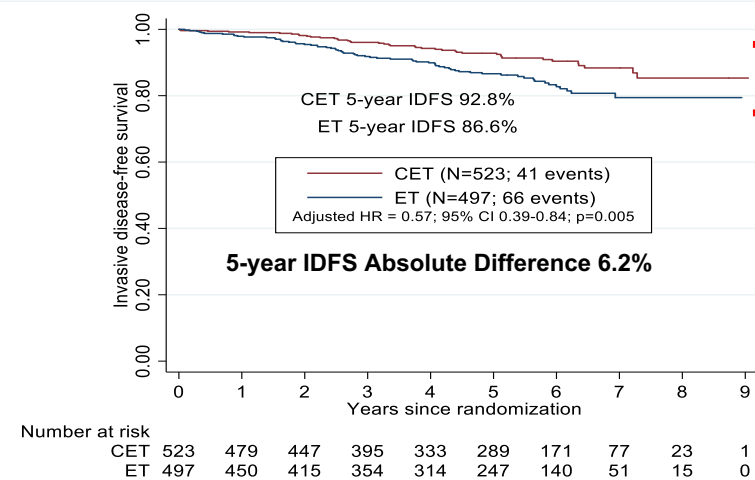


Premenopausal

RS 0-13



RS 14-25



Premenopausal patients:
84% and 75%
received
tamoxifen
monotherapy in
the chemo-
endocrine and
endocrine alone
arms

Summary

- In RxPONDER, the addition of chemotherapy to endocrine therapy did not significantly improve IDFS
 - Similar to TAILORx, an effect of age and menopausal status continues to be seen:
 - No benefit in postmenopausal women
 - In age <50, clear benefit of chemotherapy regardless of RS
 - Similar findings in MINDACT
- In TAILORx, RxPonder, and MINDACT, the predominant adjuvant hormonal therapy for premenopausal patients was tamoxifen (without OFS)
- NRG 009 will answer whether the addition of chemotherapy to optimal endocrine therapy (AI + OFS) significantly improves outcomes in premenopausal women with ER+/HER2- breast cancer

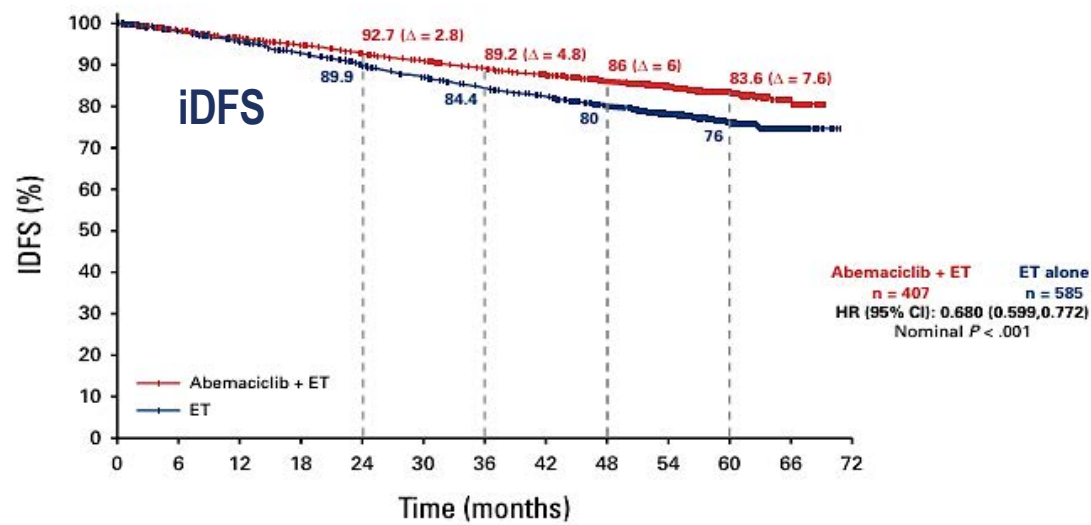
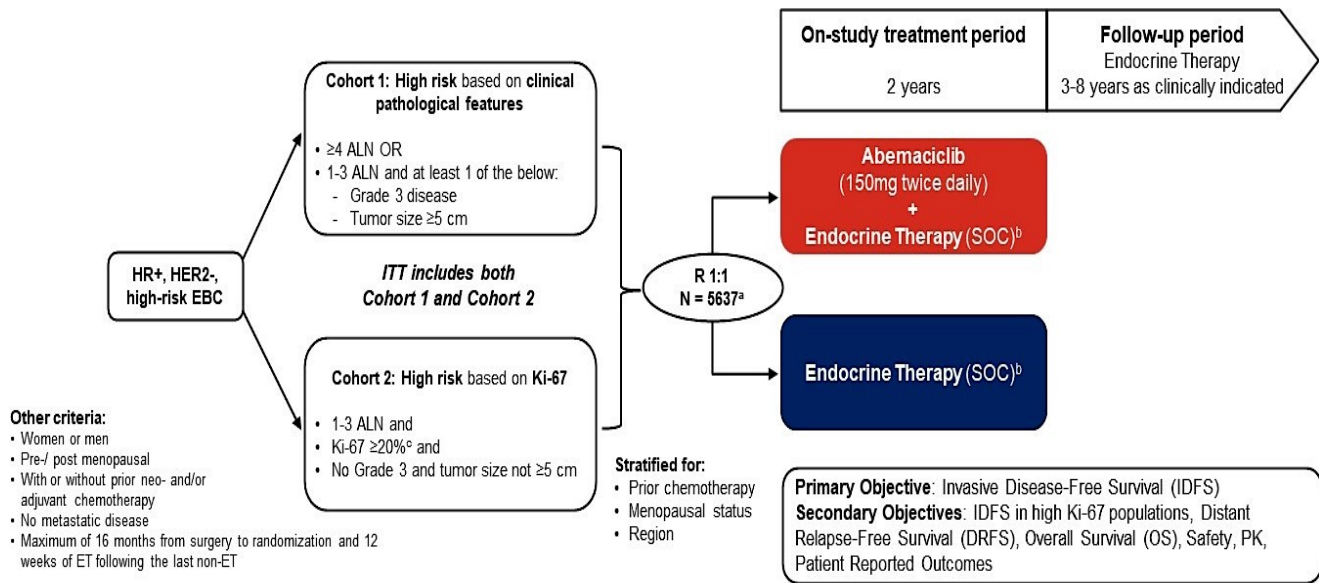
Adjuvant CDK4/6i Trials

Trial Name	N	CDK4/6i	Duration of CDKi	Eligibility	IDFS HR
Penelope-B	1250	Palbociclib	1 y	- Residual disease after 16 wk of neoadjuvant CT - CPS-EG score ≥ 3 or 2 with ypN+	HR = 0.93 (95% CI: 0.74-1.17) $P = .53$
PALLAS	5761	Palbociclib	2 y	Stage II-III	HR = 0.96 (95% CI: 0.81-1.14) $P = .65$
monarchE	5637	Abemaciclib	2 y	>4 ALN - or 1-3 ALN and at least 1 below: - T >5 cm - G3 - Ki-67 >20%	HR = 0.680 (95% CI: 0.599-0.772) Nominal $P < .001$
NATALEE	5101	Ribociclib	3 y	Stage II (either N0 with grade 2-3 and/or Ki67 $\geq 20\%$ or N1) or III	HR = 0.749 (95% CI: 0.628-0.892) $P = .0012$

Loibl S et al. *J Clin Oncol*. 2021;39:1518-1530. Gnant M et al. *J Clin Oncol*. 2022;40:282-293.

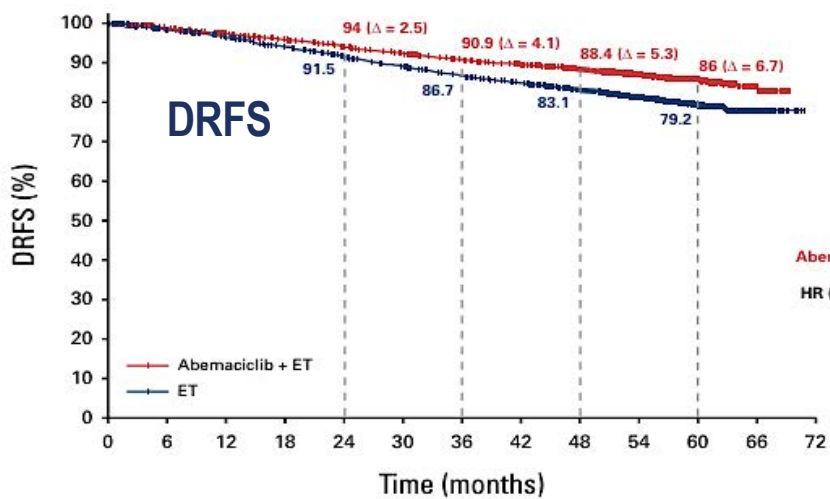
Rastogi P et al. *J Clin Oncol*. 2024 Mar 20;42(9):987-993. Hortobagyi GN et al. *Ann Oncol*. 2025 Feb;36(2):149-157.

MonarchE



Number at risk:

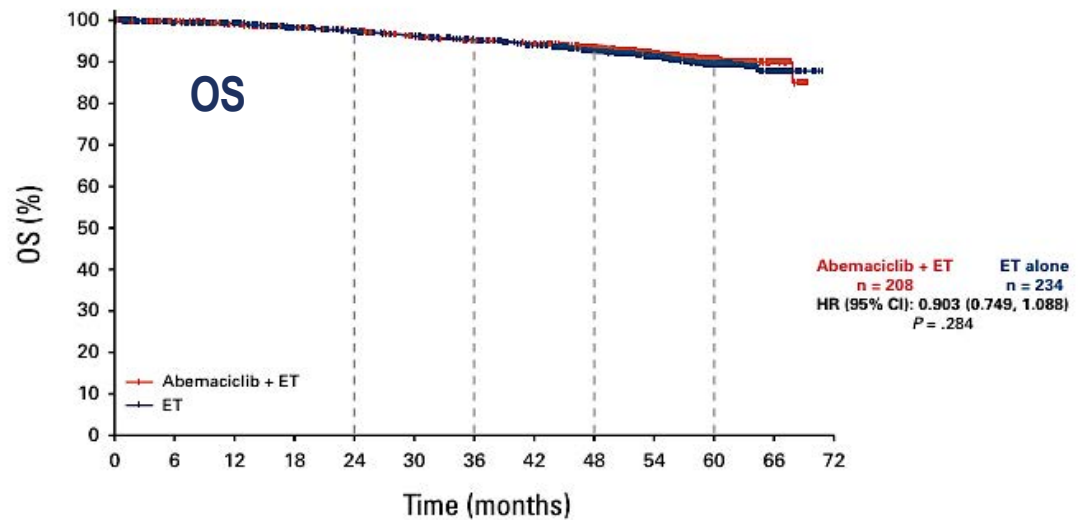
Abemaciclib + ET	2,808	2,621	2,549	2,479	2,408	2,347	2,284	2,220	2,095	1,175	490	74	0
ET	2,829	2,653	2,573	2,474	2,374	2,281	2,195	2,125	1,974	1,124	473	67	0



Number at risk:

Abemaciclib + ET	2,808	2,630	2,567	2,500	2,434	2,375	2,313	2,258	2,141	1,202	500	75	0
ET	2,829	2,660	2,590	2,499	2,410	2,327	2,243	2,176	2,032	1,161	488	72	0

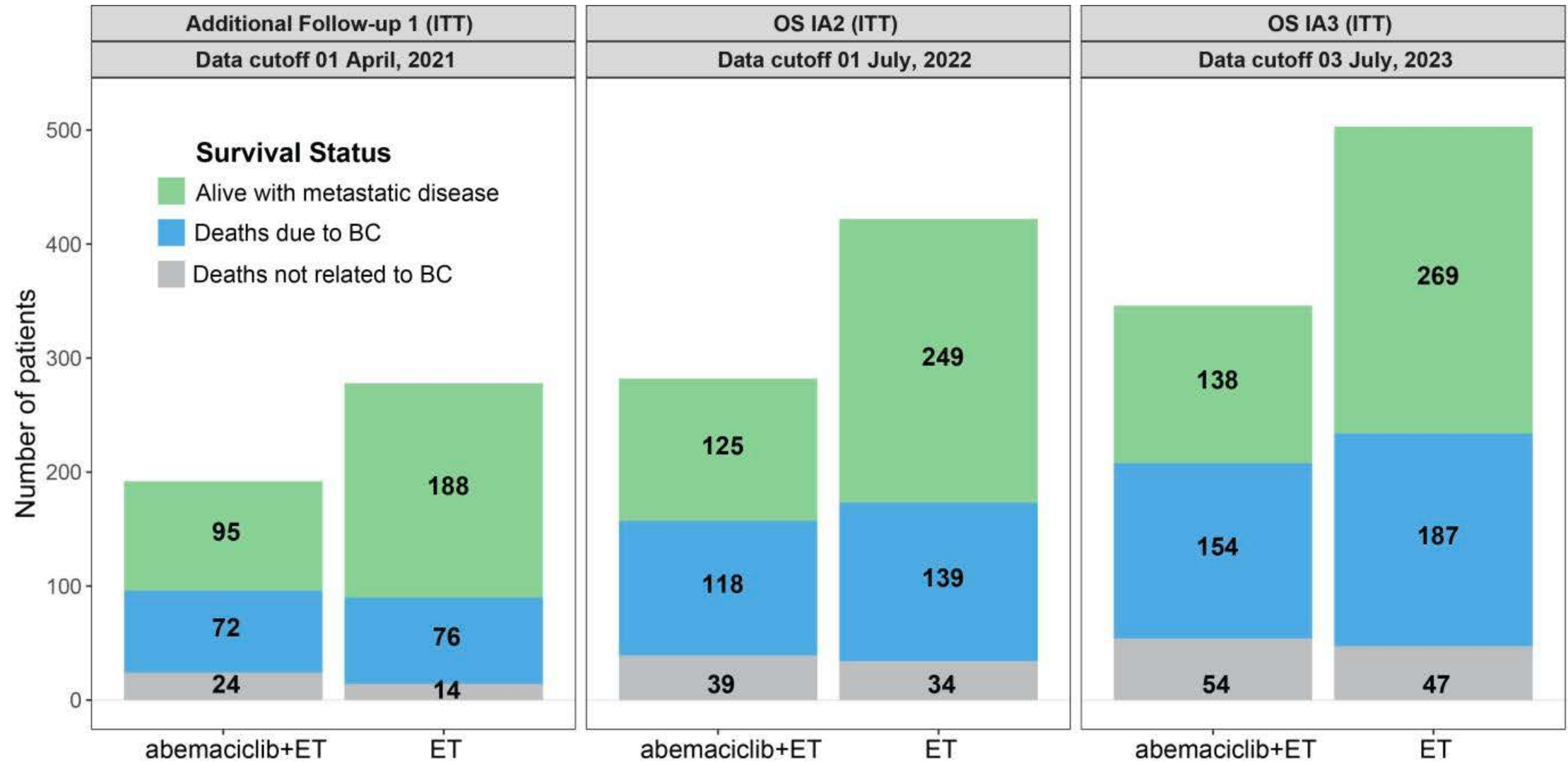
Median FU
54 months (IQR, 49-59).



Number at risk:

Abemaciclib + ET	2,808	2,666	2,614	2,566	2,518	2,455	2,407	2,373	2,260	1,271	528	80	0
ET	2,829	2,705	2,664	2,599	2,545	2,496	2,440	2,382	2,243	1,279	538	77	0

monarchE: Interim OS Analysis



Abemaciclib increases overall survival in HR+, HER2-, high-risk early breast cancer with two years of therapy

Press Release: August 27, 2025

“[The manufacturer] today announced positive topline results from the primary overall survival (OS) analysis of the Phase 3 monarchE trial. Treatment with two years of abemaciclib plus endocrine therapy (ET) demonstrated a statistically significant and clinically meaningful improvement in OS compared to ET alone in patients with hormone receptor positive (HR+), HER2-, node-positive, high-risk early breast cancer.

The seven-year landmark analysis also demonstrated sustained benefit in invasive disease-free survival (IDFS) and distant relapse-free survival (DRFS), reinforcing the consistency and durability of treatment effect across endpoints.

Detailed results will be presented at a future medical meeting, submitted for publication in a peer-reviewed journal and discussed with regulatory bodies.”

Phase III NATALEE: Study Design

- Patients with HR+/HER2- EBC
- Prior ET allowed up to 12 months

- **Anatomic stage IIA^{a,b}**

- **N0 with:**

- Grade 2 and evidence of high risk:
 - Ki-67 $\geq 20\%$
 - Oncotype DX Breast Recurrence Score ≥ 26 **or**
 - High risk via other genomic risk profiling^c
- Grade 3

- **N1**

- **Anatomic stage IIB^{a,b}**

- **N0 or N1**

- **Anatomic stage III^b**

- **N0, N1, N2, or N3**

• **Patients with stage IIA N0 (T2N0) disease required additional specified high-risk features**

• **All patients with stage IIB N0 (T3N0) and IIB N0 (T4N0) disease were included**

R 1:1^{d,e}

Ribociclib

400 mg/day

3 weeks on/1 week off for 3 years

NSAI

Letrozole or anastrozole^f for ≥ 5 years + **goserelin** in men and premenopausal women

NSAI

Letrozole or anastrozole^f for ≥ 5 years + **goserelin** in men and premenopausal women

Randomization stratification

Anatomic stage: II vs III

Menopausal status: men and premenopausal women vs postmenopausal women

Prior (neo)adjuvant chemotherapy: yes vs no

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

Primary end point

- iDFS using STEEP criteria

Secondary end points

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

Exploratory end points

- Locoregional recurrence-free survival
- Gene expression and alterations in tumor ctDNA/ctRNA samples

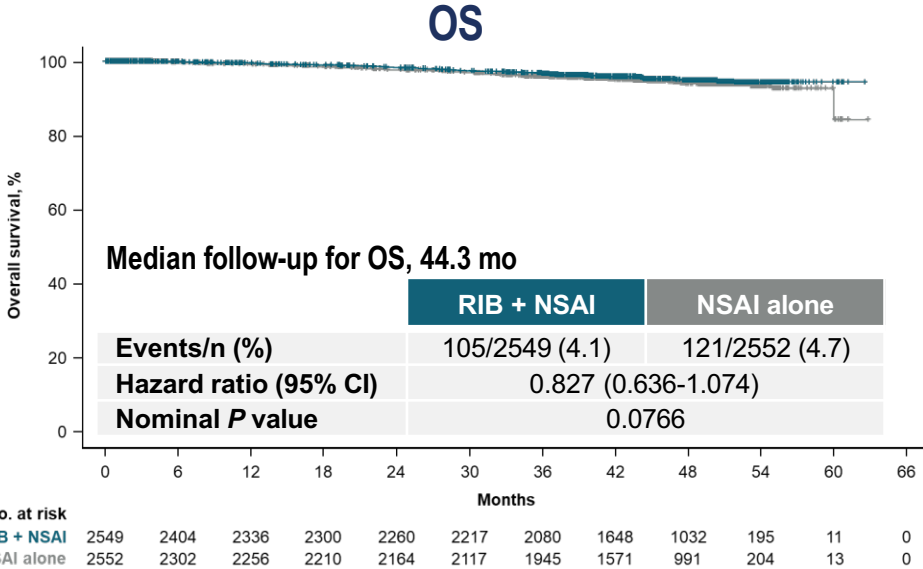
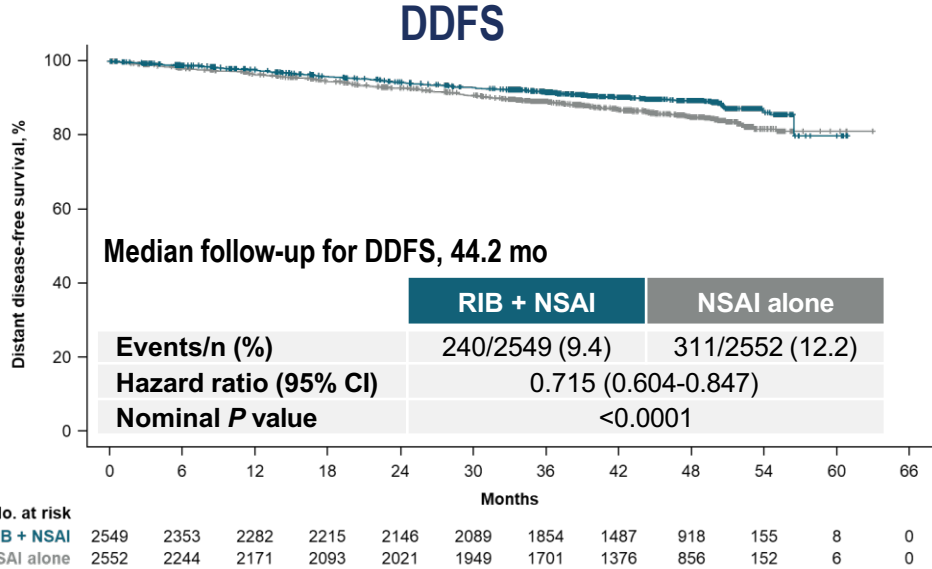
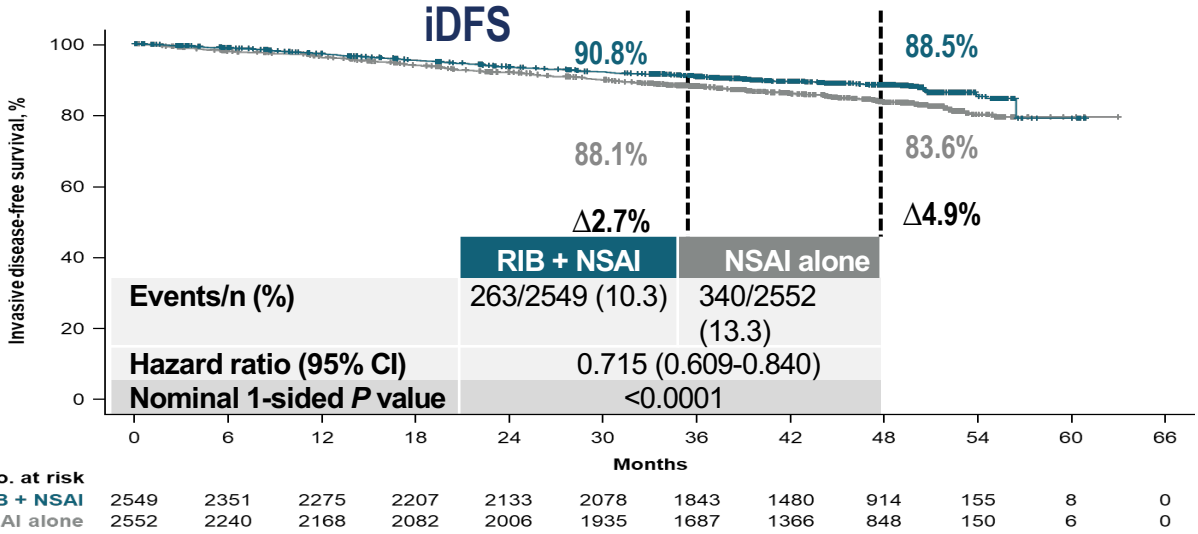
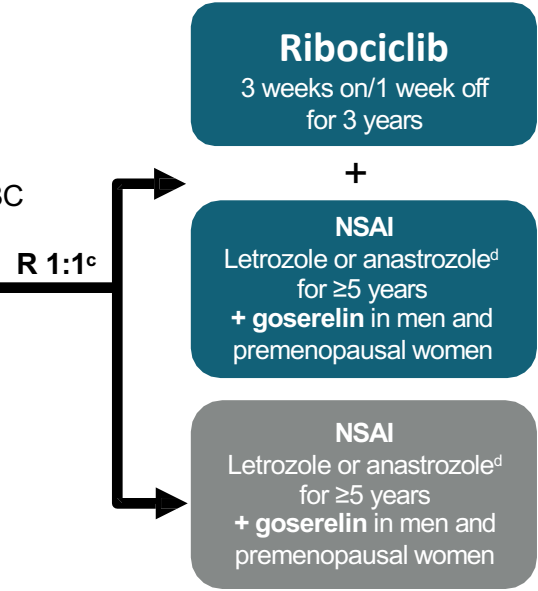
^a Enrollment of patients with stage II disease was capped at 40%. ^b N0 was determined either clinically and confirmed surgically as needed. ^c Genomic high risk is defined as at least one of the following: Oncotype Dx Breast Recurrence Score ≥ 26 , PAM50 score of "High Risk," MammaPrint score of "High Risk," EndoPredict EPclin Risk score of "High Risk". ^d 5101 patients were randomized from January 10, 2019, to April 20, 2021. ^e Open-label design. ^f Per investigator choice.

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 survival; N0, no nodal involvement/ node-negative; ITT, intention to treat; N1, 1-3 axillary lymph nodes; N2, 4-9 axillary lymph nodes; N3, ≥ 10 axillary lymph nodes or collarbone lymph nodes; NSAI, nonsteroidal aromatase inhibitor; OS, overall survival; PK, pharmacokinetics; PROs, patient-reported outcomes; R, randomized; STEEP, Standardized Definitions for Efficacy End Points in adjuvant breast cancer trials.

1. Slamon D, et al. ASCO 2023. Oral; abstract LBA500. 2. Slamon DJ, et al. *J Clin Oncol*. 2019;37(15 suppl). Abstract TPS597.

NATALEE STUDY: iDFS, DDFS & OS outcomes with RIB+NSAI after planned 3-year treatment

- Adult patients with HR+/HER2- EBC
 - Prior ET allowed ≤12 mo prior to randomization
 - **Anatomical stage IIA^a**
 - **Anatomical stage IIB^a**
 - **Anatomical stage III**
- N = 5101^b**

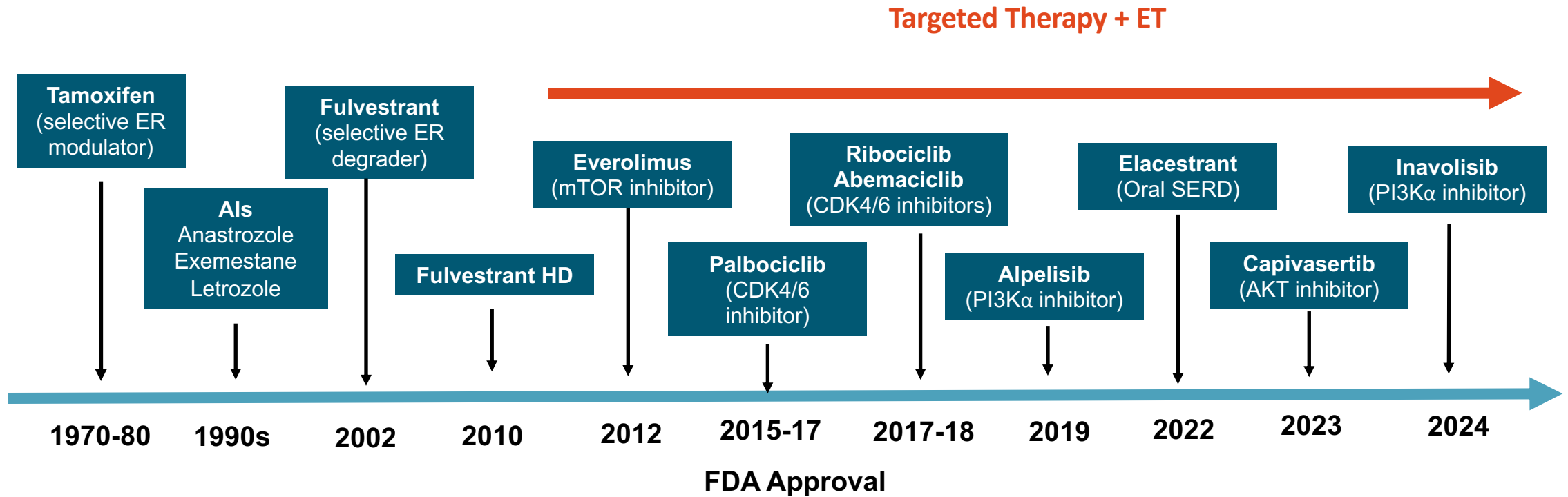


Manufacturer to showcase **transformative data in advanced prostate and early breast cancer at ESMO 2025**

Sep 26, 2025

- *Key data from PSMAAddition has been selected for a Presidential session; data to showcase the efficacy and safety of ^{177}Lu plus standard of care (SoC) versus SoC alone in PSMA + mHSPC*
- *NATALEE five-year analysis of ribociclib to provide further long-term insights into risk of recurrence reduction in a broad EBC patient population*

Evolving Hormonal Treatment Landscape of HR+ Advanced MBC



First-Line Metastatic Trials with CDK4/6 Inhibitors

Trial	N	CDK4/6i	Endocrine Therapy	Phase	Median PFS, mo	Median OS, mo
PALOMA-1	165	Palbociclib (P)	Letrozole (L)	2	10.2 (L) vs 20.2 (L+P) HR = 0.49 P = .0004	34.5 (L) vs 37.5 (P+L) HR = 0.897 P = .28
PALOMA-2	666	Palbociclib (P)	Letrozole (L)	3	14.5 (L) vs 24.8 (L+P) HR = 0.58 P < .001	51.2 (L) vs 53.9 (P+L) HR = 0.96 P = .34
MONARCH 3	493	Abemaciclib (A)	NSAI	3	14.8 (A) vs 28.2 (ET+A) HR = 0.54 P = .000002	53.7 (AI) vs 66.8 (AI + A) HR = 0.804; 95% CI, 0.637-1.015 P = .067
MONALEESA-2	668	Ribociclib (R)	Letrozole (L)	3	16.0 (L) vs 25.3 (L+R) HR = 0.568	51.4 (L) Vs 63.9 (R+L) HR = 0.76; 95% CI, 0.63-0.93 P = .008
MONALEESA-7	672	Ribociclib (R)	ET (Tam or AI) + OFS	3	13.0 (ET) vs 23.8 (R+ET) HR = 0.55 P < .0001	48.0 (ET) vs 58.7 (ET+Rib) HR: 0.76; 95% CI, 0.61–0.96

Finn. *Lancet Oncol.* 2014. Slamon J. *Clin Oncol.* 2024. Goetz. *Ann Oncol.* 2024. Hortobagyi. *N Engl J Med.* 2022. Lu. *Clin Canc Res.* 2022.
Finn RS et al. ASCO 2017;Abstract 1001

Summary of updated CDK 4/6i data

In the adjuvant setting, the addition of abemaciclib and ribociclib to standard of care ET improves DFS

OS data to be presented at ESMO (abemaciclib)

In the metastatic setting, CDK 4/6 inhibitors (ribociclib and abemaciclib) in combination with ET improve survival in the first- and second-line settings.

No head-to-head trials comparing palbociclib, ribociclib and abemaciclib

ESR1 Mutations: Therapeutic Implications

nature
genetics

ESR1 ligand-binding domain mutations in hormone-resistant breast cancer

Wei-Yi Toy¹, Yang Shen², Helen Won¹, Brian Sean Fanning³, Tari A King⁴, Clifford H Geoffrey Greene³, Michael Berger^{1,9}, Jo

Activating *ESR1* mutations in hormone-resistant metastatic breast cancer

Dan R Robinson^{1,2,12}, Yi-Mi Wu^{1,2,12}, Pankaj Vats^{1,2}, Fengyun Su^{1,2}, Robert J Lonigro^{1,3}, Xuhong Cao^{1,4}, Shank

Scott J Endocrine-Therapy-Resistant *ESR1* Variants
Cather Revealed by Genomic Characterization
Anne I of Breast-Cancer-Derived Xenografts

Shunqiang Li
Jeremy Hoog
Michelle Harr
Christopher S
Crystal Coop
Megha Shyar
Ron Bose,^{1,2}
Katherine De
John R. Ertw

Cancer Research

ACR

D538G Mutation in Estrogen Receptor- α : A Novel Mechanism for Acquired Endocrine

Keren Merenbakh-Lamin, Noa Ben-Bai

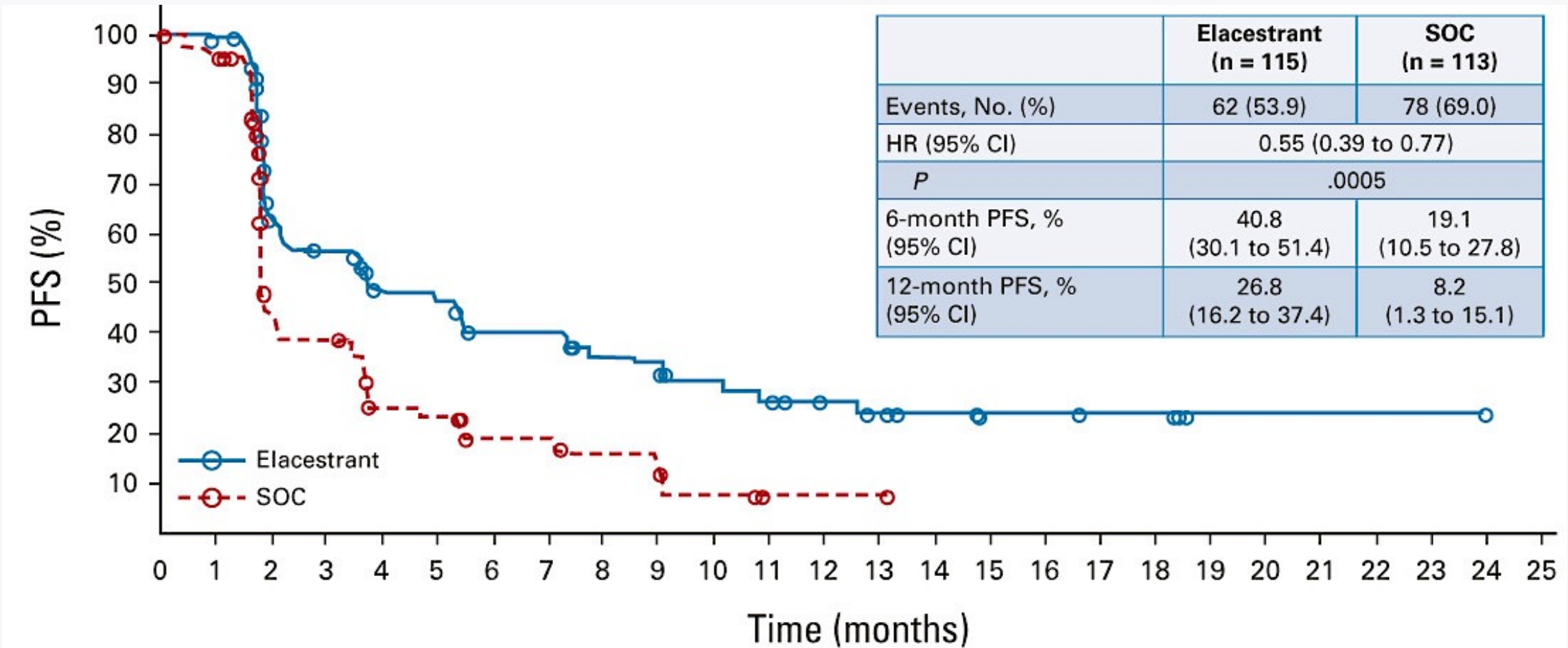
Clinical Cancer Research

ACR

Emergence of constitutively active estrogen receptor- α mutations in pretreated advanced estrogen receptor positive breast cancer

Rinath Jeselsohn, Roman Yelensky, Gilles Buchwalter, et al.

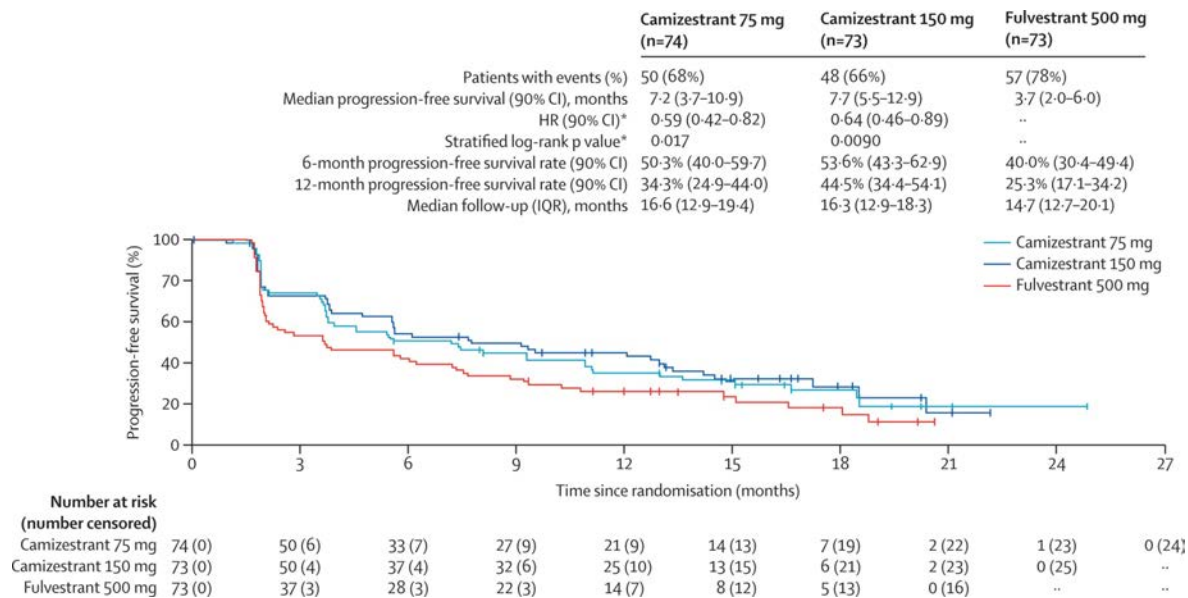
Phase III EMERALD: Elacestrant vs SOC in ESR1m Tumors



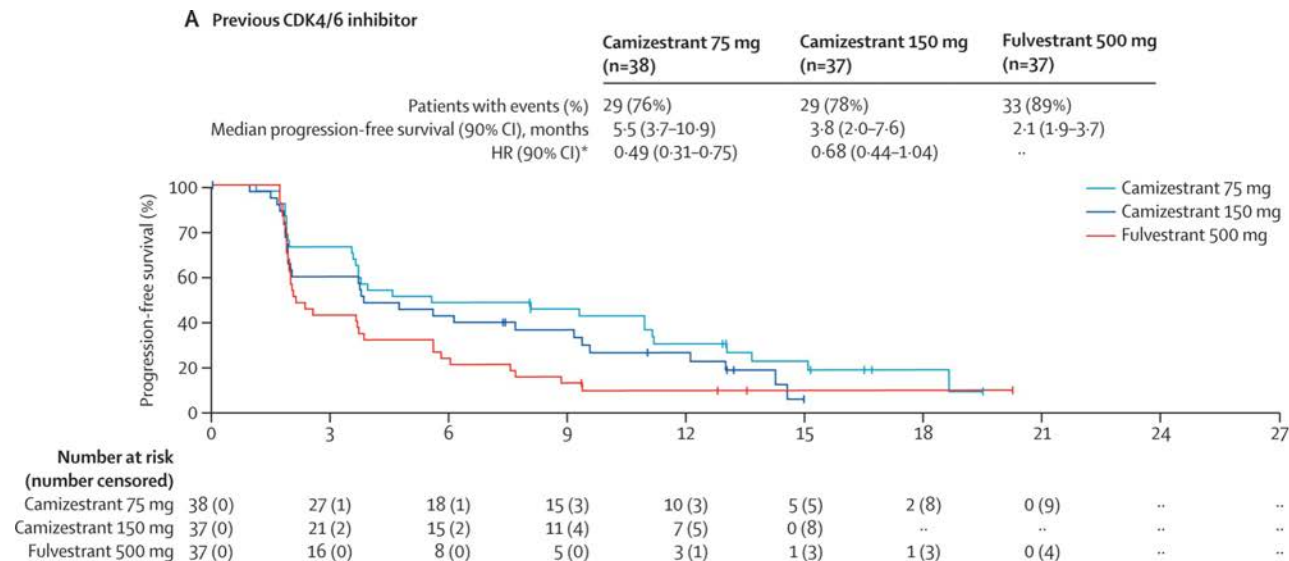
Based on these data, the FDA approved elacestrant for ER-positive, HER2-negative, ESR1-mutated advanced or metastatic breast cancer (January 7, 2023)

Camizestrant versus Fulvestrant in Post-menopausal Women with Estrogen receptor-positive, HER2-negative Advanced Breast Cancer (SERENA-2)

All Patients



Previous CDK 4/6 Inhibitors



(Secondary) Prevention

“..., prevention is so much better than healing because it saves the labour of being sick.”

Thomas Adams
ca. 1618

Quoted in Muir CS. Cancer Res 1990;50:6441-8.

Camizestrant + CDK4/6 inhibitor for the treatment of emergent *ESR1* mutations during first-line endocrine-based therapy and ahead of disease progression in patients with HR+/HER2– advanced breast cancer: Phase 3, double-blind ctDNA-guided SERENA-6 trial

Nicholas Turner*
Royal Marsden Hospital, London, UK

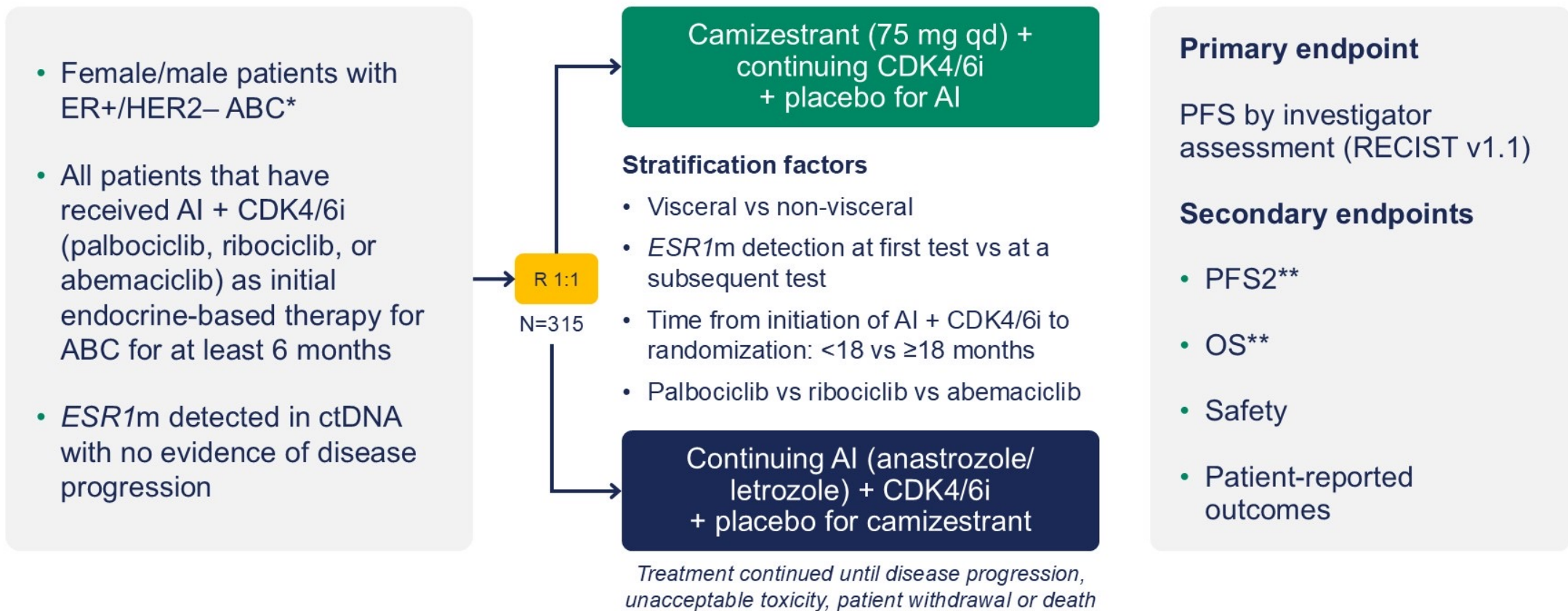
Additional authors:

Erica Mayer, Yeon Hee Park, Wolfgang Janni, Cynthia Ma, Massimo Cristofanilli, Giampaolo Bianchini, Kevin Kalinsky, Hiroji Iwata, Stephen Chia, Peter A. Fasching, Adam Brufsky, Zbigniew Nowecki, Javier Pascual, Lionel Moreau, Shin-Cheh Chen, Sasha McClain, Steven Fox, Cynthia Huang Bartlett, François-Clément Bidard*

*Contributed equally

SERENA-6 study design

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



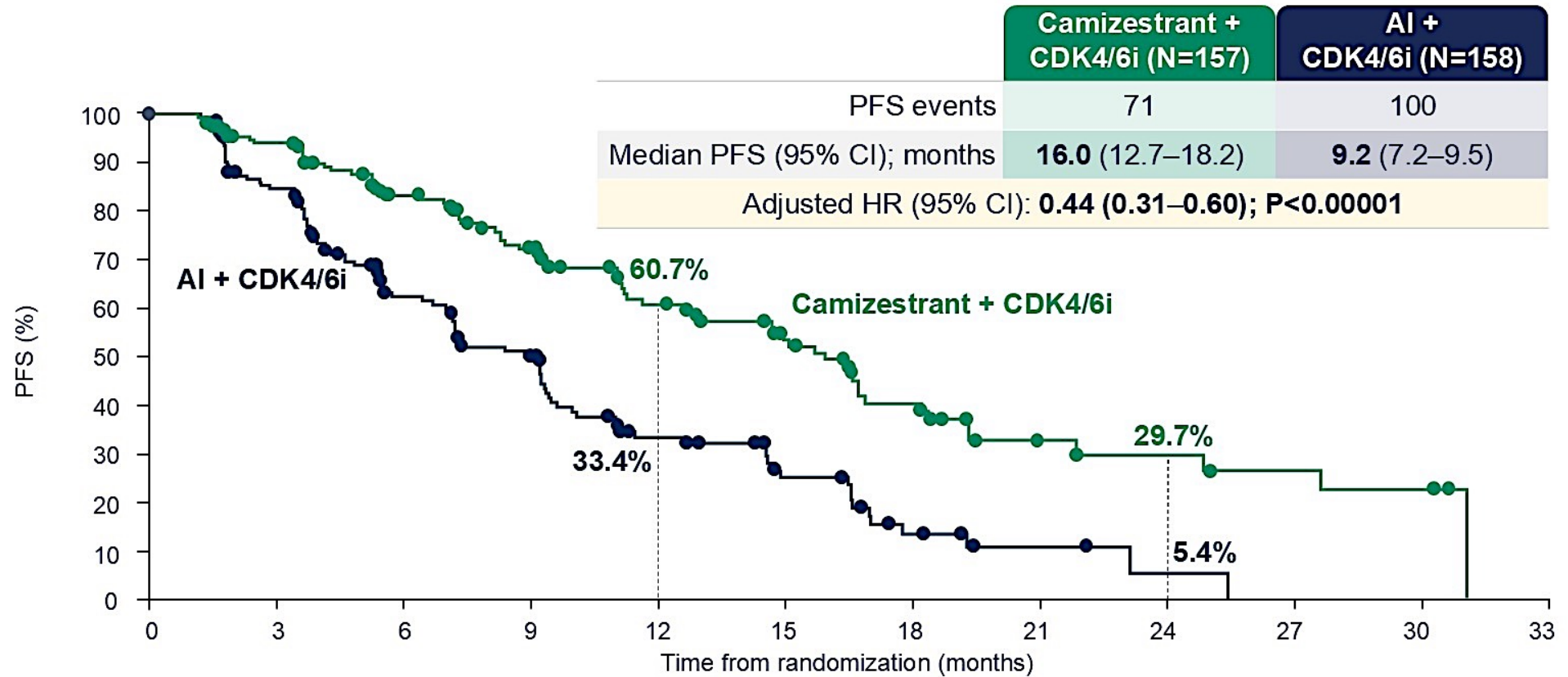
*Pre- or perimenopausal women, and men received a luteinizing hormone–releasing hormone agonist per clinical guidelines. **Key secondary endpoint. OS, overall survival; PFS2, second progression-free survival; qd, once daily dose; R, randomized; RECIST, response evaluation criteria in solid tumors.

Baseline characteristics

Characteristic		Camizestrant + CDK4/6i (N=157)	AI + CDK4/6i (N=158)
Median age (range) — years		61.0 (29–81)	60.5 (35–89)
Female — n (%)		157 (100)	155 (98)
Race — n (%)	White	97 (62)	102 (65)
	Asian/other	39 (25) / 21 (13)	34 (22) / 22 (14)
Postmenopausal status — n (%)		123 (78)	127 (80)
ECOG performance-status score — n (%)*	0/1	107 (68) / 48 (31)	98 (62) / 56 (35)
Visceral metastases — n (%)†		66 (42)	71 (45)
Time of <i>ESR1</i> m detection — n (%)‡	At first test	84 (54)	84 (53)
	At a subsequent test [§]	73 (47)	74 (47)
	Median (range) – months	22 (4–95)	22 (6–96)
Time from initiation of AI + CDK4/6i to randomization — n (%)†	≥18 months	97 (62)	100 (63)
	<18 months	60 (38)	58 (37)
	Median (range) – months	23 (7–96)	23 (6–96)
CDK4/6i continued at randomization — n (%)†	Palbociclib	119 (76)	119 (75)
	Ribociclib	24 (15)	23 (15)
	Abemaciclib	14 (9)	16 (10)
Most common <i>ESR1</i> m at baseline — n (%)‡	D538G	70 (45)	82 (52)
	Y537S	61 (39)	60 (38)
	Y537N	29 (19)	25 (16)

*Data was missing for 2 patients in the camizestrant + CDK4/6i arm and 3 patients in the AI + CDK4/6i. One patient in the AI+CDK4/6i group had a score of 2, which was a protocol deviation. †Stratification factors. ‡Subsequent tests were performed every 2-3 months after the initial test. §Three most prevalent *ESR1*m detected of the 11 qualifying mutations. Patients may have had more than one *ESR1*m. ECOG, Eastern Cooperative Oncology Group.

Primary endpoint: Investigator-assessed PFS



Number of patients at risk

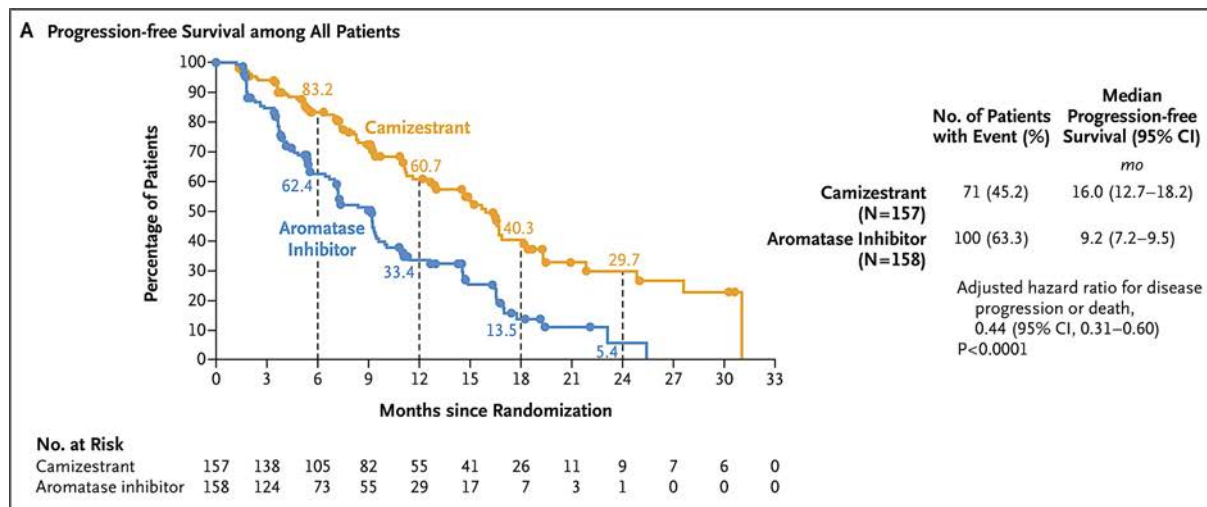
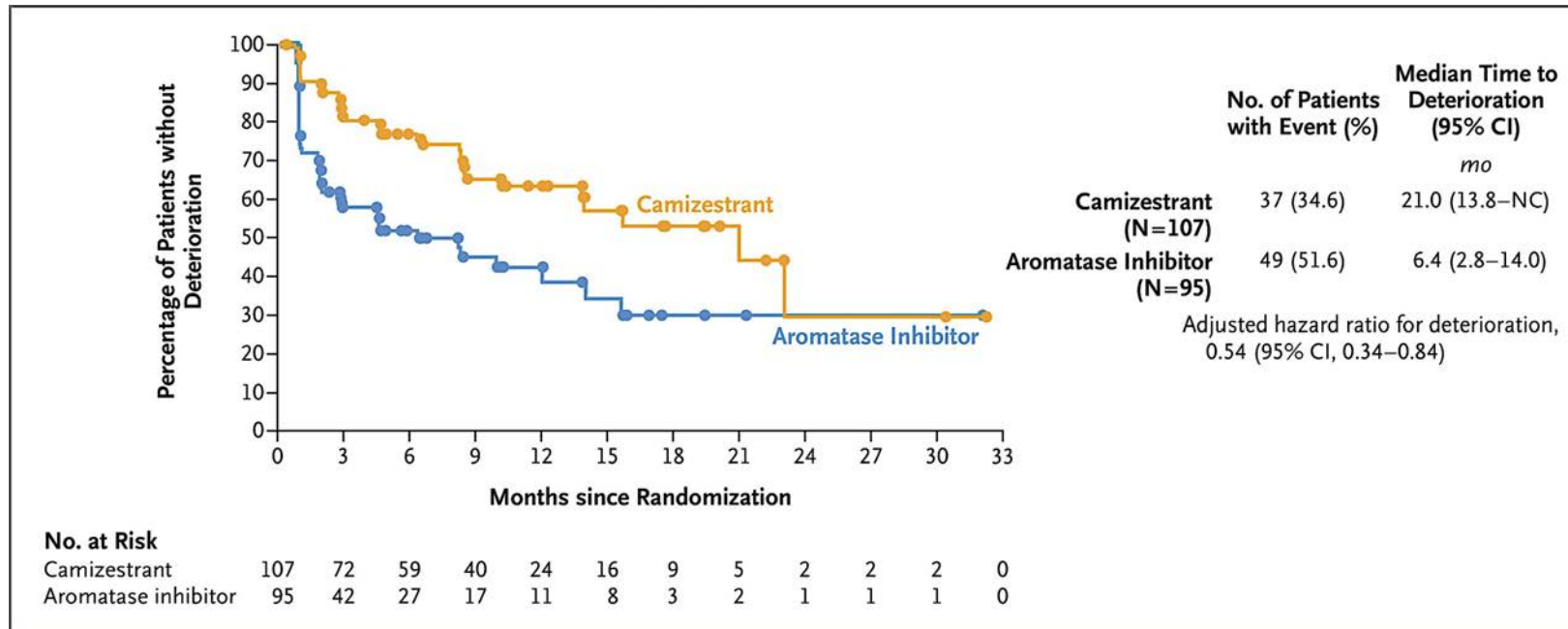
Camizestrant + CDK4/6i	157	138	105	82	55	41	26	11	9	7	6	0
AI + CDK4/6i	158	124	73	55	29	17	7	3	1	0	0	0

P-value crossed the threshold for significance ($P=0.0001$). PFS was defined per RECIST v1.1. HR was estimated using the Cox proportional hazard model adjusted for stratification factors. CI, confidence interval; HR, hazard ratio.

Concerns regarding SERENA-6 Design

- The study design is testing:
 - new treatment strategy (ie molecular vs anatomical progression) and
 - a novel drug (Camizestrant)
 - both only being in the experimental arm
 - There is no crossover to determine which strategy results in better overall survival
- Question: Is there evidence that treating patients early (at the time of MRD relapse) prevents *symptomatic* progression of disease?

Time until Deterioration in Global Health Status and Quality of Life versus PFS: Disconnect between PFS and QOL Deterioration



Summary

- *ESR1* mutations are a common mechanism of acquired resistance in the setting of aromatase inhibitors (+/- CDK4/6i)
- Oral SERDS: Limited antitumor activity in the post-CDK4/6i setting
 - Greater antitumor activity in patients with *ESR1* mutations and prior endocrine sensitivity
- SERENA-6: Value of switching from an AI to oral SERDS in the 1st line treatment of ER+ MBC with molecular progression (without radiographic progression)
 - Overall Survival: Unclear given the lack of crossover of the control treatment to camizestrant
 - Quality of Life: Need more information

Data + Perspectives: Clinical Investigators Explore the Application of Recent Datasets in Current Oncology Care

CME/MOC, NCPD and ACPE Accredited

**Saturday, October 11, 2025
7:15 AM – 12:30 PM ET**

monarchE: Primary Overall Survival (OS) Results of Adjuvant Abemaciclib + Endocrine Therapy (ET) for HR+, HER2-, High-Risk Early Breast Cancer (EBC)

Johnston SR et al.

ESMO 2025;Abstract LBA13.

PROFFERED PAPER | SUNDAY, OCTOBER 19 | 14:50 CEST

Questions from General Medical Oncologists

- ***Oncotype* DX or MammaPrint — how do you choose which one to use? Do you ever order both?**
- **Is there data with *Oncotype* DX to support treatment de-escalation such as dropping the anthracycline or reducing to 4 cycles of TC?**
- **Do you use *Oncotype* DX in the neoadjuvant setting? Would you use it for a tumor less than 0.5 cm? What about an isolated local recurrence?**

Questions from General Medical Oncologists

- **Case: Initial treatment for ILC >5 cm and >3 LNs on MRI? Mastectomy/ALD or neoadjuvant chemo or check *Oncotype* or MammaPrint/BluePrint and then decide on neoadjuvant endocrine therapy vs chemo?**

Questions from General Medical Oncologists

- **Do you use CDK4/6 inhibitors in the neoadjuvant setting?**
- **Can CDK4/6i be used to downstage HR-positive cancers for surgery if patients are nonresponsive to chemotherapy?**

Questions from General Medical Oncologists

- **How would you approach first-line therapy for a patient with HR-positive, HER2-negative mBC in visceral crisis: CDK4/6i with endocrine therapy or chemotherapy or chemoendocrine therapy?**

Questions from General Medical Oncologists

- **What is your preferred adjuvant CDK4/6i for a node-positive patient?**
- **When using ribociclib in the adjuvant setting, are you generally continuing for 3 years?**
- **When using adjuvant CDK4/6i, are you always following the indication, ie, would you use abema in a node-negative patient?**

Questions from General Medical Oncologists

- **Is there a current role for ctDNA in breast cancer?**



AT THE FOREFRONT
UChicago
Medicine

Relapsed/Refractory Hormone Receptor-Positive Metastatic Breast Cancer

Rita Nanda, M.D.

Research To Practice CME Symposium
Orlando, Florida
October 11, 2025

2L Therapy post PD

Molecularly Driven Recommendations

Targeted Therapies in 2L+ Setting

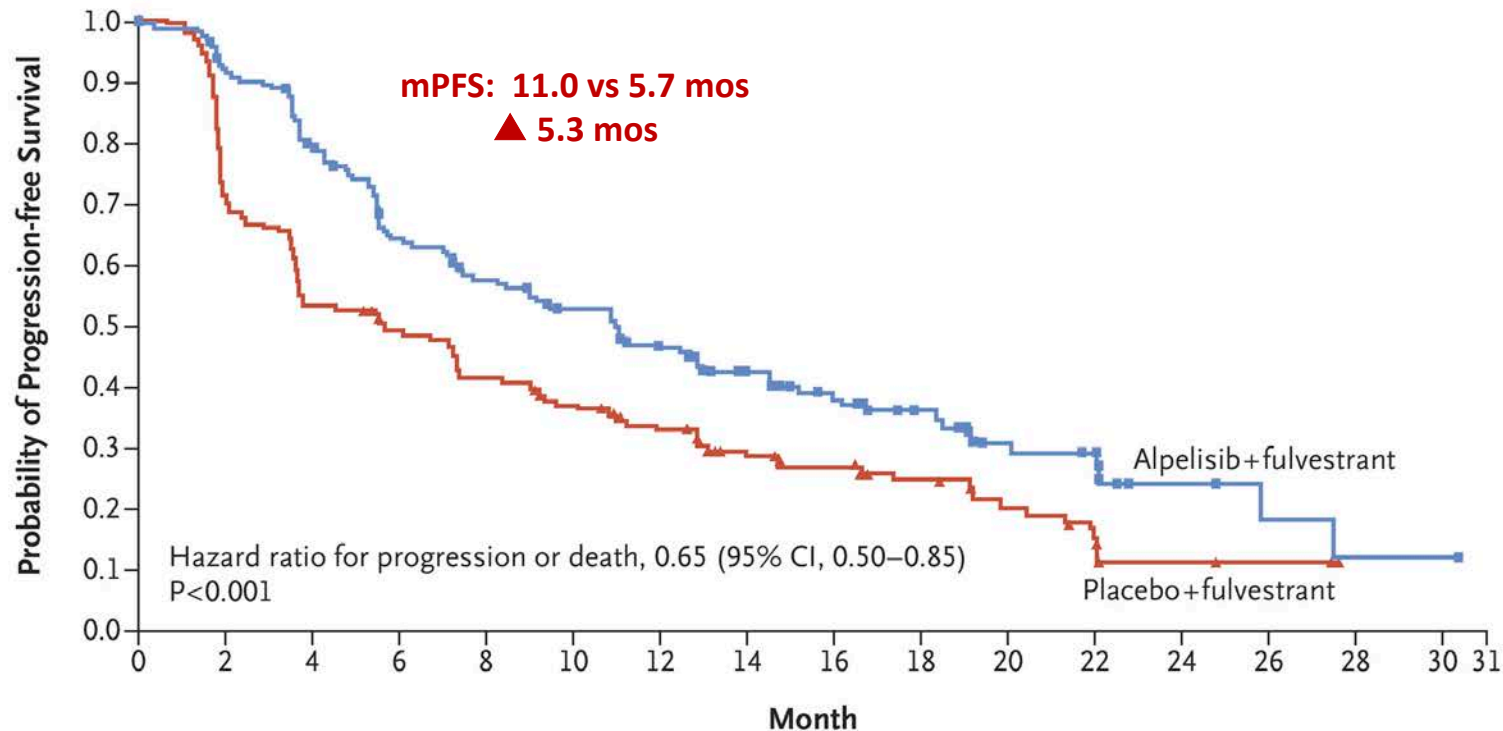
Agents targeting *PI3K* and *AKT* pathway

SOLAR-1 Trial - *PIK3CA*-mutated HR+/HER2- mBC

Phase 3 RCT of Fulvestrant + Alpelisib/Placebo in unselected

PIK3CA mutations occur in about 40% of HR+/HER2- breast cancers
Alpelisib is α -selective PI3Ki

A Cohort with *PIK3CA*-Mutated Cancer



Key characteristics:

- HgbA1c < 6.4% allowed
- Lung or liver mets 50%
- 1st line 52%; 2nd line 46%
- Prior CDK4/6i 6%

Key toxicities with alpelisib:

- Hyperglycemia (G3/4 36%)
- Rash (G3/4 10%)
- Diarrhea (G3/4 7%)

BYLieve P2 Trial (all had PD post CDK4/6i): Similar Activity

André F et al. *N Engl J Med*. 2019;380(20):1929-1940.

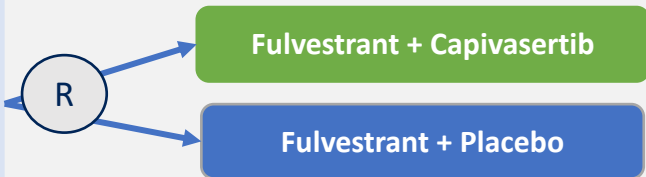
Ciruelos. SABCS 2020. Abstr PD2-06.

Rugo et al. ASCO 2020 and SABCS 2020

CAPitello-291: P3 RCT Fulvestrant + Capivasertib/Placebo

Key Eligibility: (N=708)

- ER+/HER2- ABC (postmeno women)
- Recurrence on or < 12 mos from end of AI
- ≤ 2 lines prior ET for ABC
- ≤ 1 line of chemo for ABC
- Prior CDK4/6i allowed (≥ 51% required)
- No prior SERD or PI3K/AKT/mTORi
- HgbA1c < 8.0%

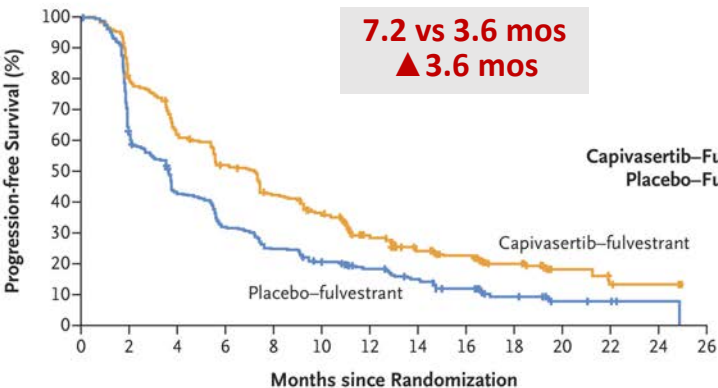


Key Characteristics:

- Prior CDK4/6i: 69%
- Prior ET for ABC: 89%
- Prior chemo for ABC: 18%
- AKT pathway alterations: ~41%
- HgbA1c < 8% allowed

Overall population

A Overall Population



No. of Patients	No. of Events	Median Progression-free Survival (95% CI) mo
Capiasertib-Fulvestrant 355	258	7.2 (5.5–7.4)
Placebo-Fulvestrant 353	293	3.6 (2.8–3.7)

Adjusted hazard ratio for disease progression or death, 0.60 (95% CI, 0.51–0.71)
P<0.001

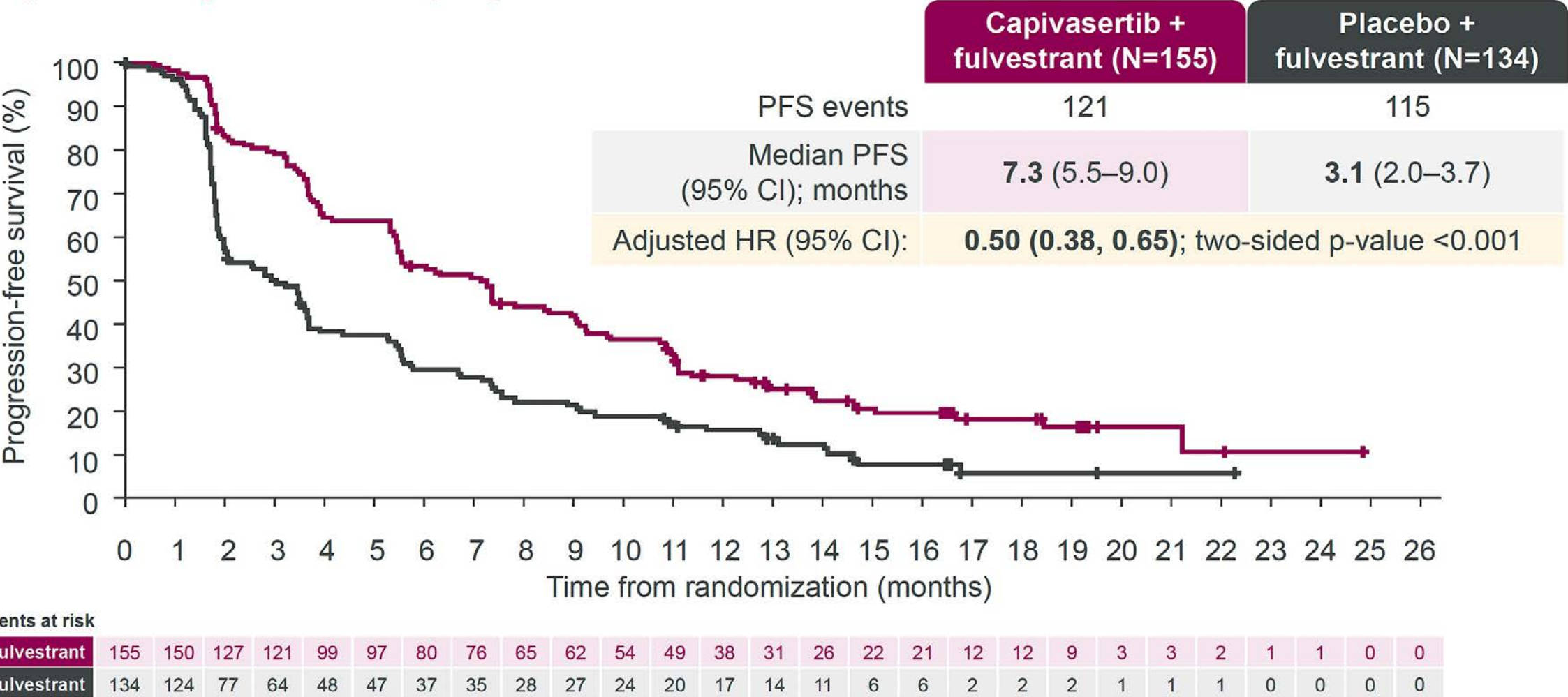
Subgroup	Capiasertib-Fulvestrant no. of events/total no. (%)	Placebo-Fulvestrant no. of events/total no. (%)	Hazard Ratio (95% CI)
All patients	258/355 (72.7)	293/353 (83.0)	0.60 (0.51–0.71)
Previous use of CDK4/6 inhibitor			
Yes	194/248 (78.2)	216/248 (87.1)	0.62 (0.51–0.75)
No	64/107 (59.8)	77/105 (73.3)	0.65 (0.47–0.91)

0.1 1.0 10.0

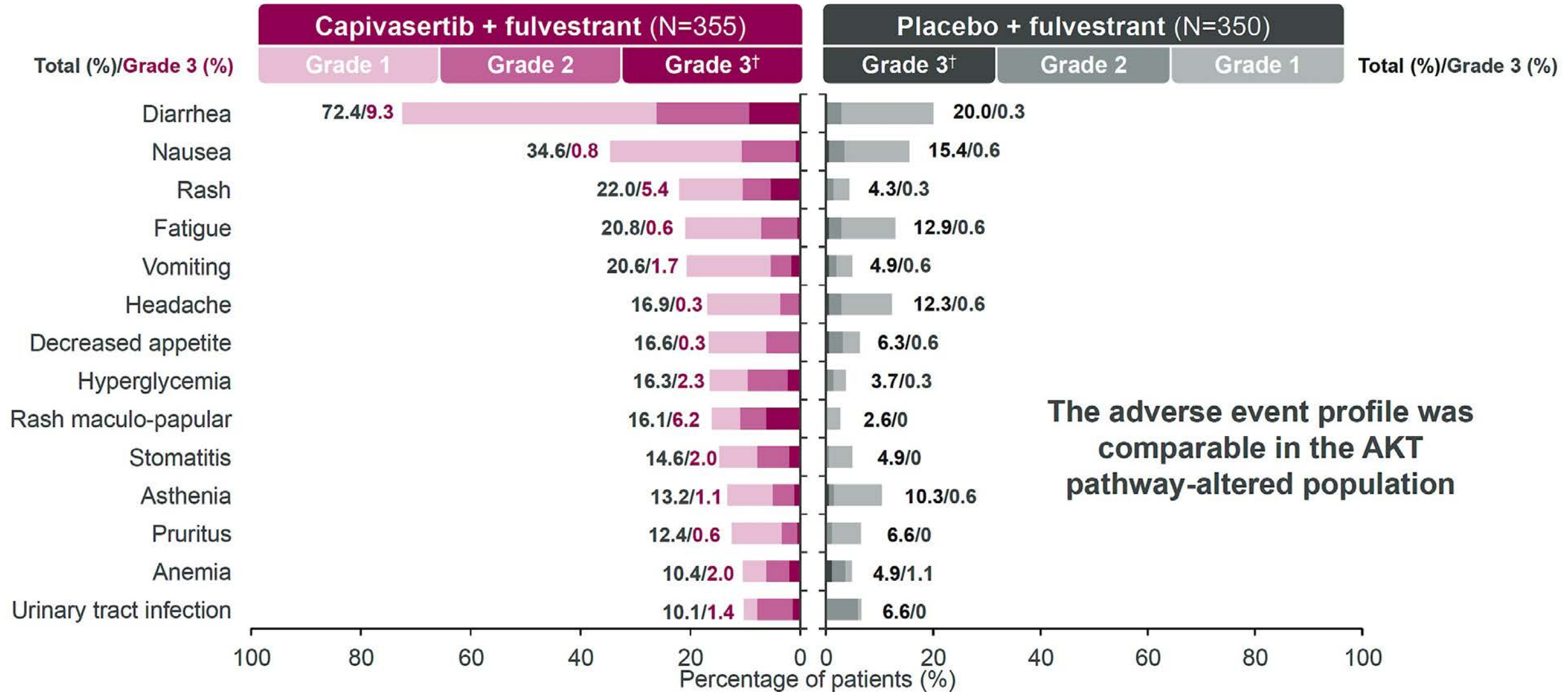
Capivasertib-Fulvestrant Better Placebo-Fulvestrant Better

Similar benefit seen in those with alterations in *PIK3CA*, *AKT1*, or *PTEN*

CAPItello-291: Progression-Free Survival (PFS) in the AKT Pathway-Altered Population

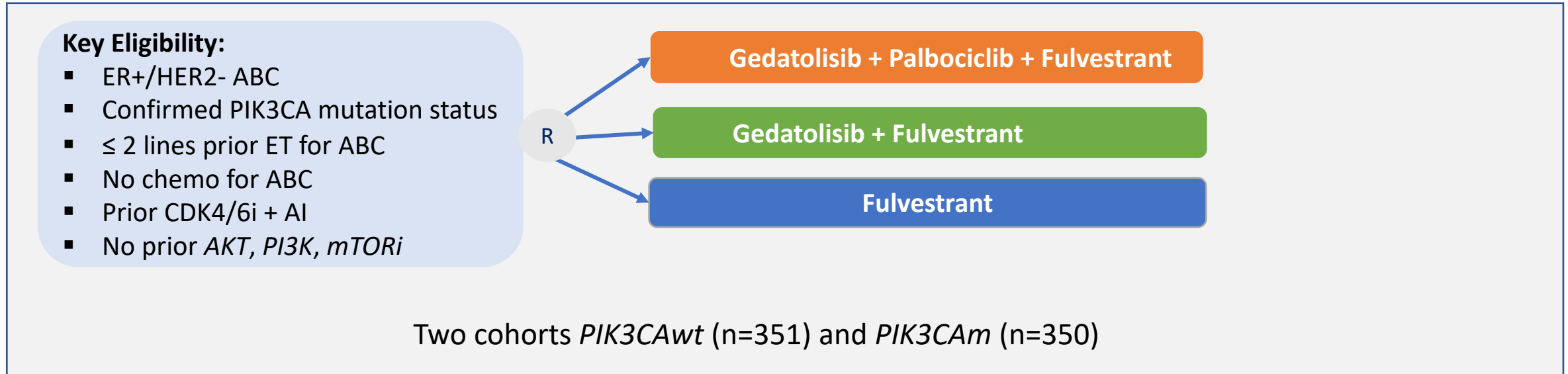


CAPitello-291: Safety Profile



VIKTORIA-1: P3 RCT Gedatolisib pan-PI3K and mTORC1/2i

PRESS RELEASE



- Gedatolisib triplet:
 - mPFS (BICR) **9.3 mo triplet vs 2.0 mo fulv alone** (HR, 0.24; 95% CI, 0.17–0.35; $P < .0001$).
- Gedatolisib doublet:
 - mPFS (BICR) **7.4 mo doublet vs 2.0 mo fulv alone** (HR, 0.33; 95% CI, 0.24–0.48; $P < .0001$).

Targeted Therapies in 2L+ Setting

Agents targeting *ESR1*

EMERALD Open Label P3RCT – Elacestrant vs SOC ET

- Postmeno women and men with ER+/HER2- ABC or mBC
- ≤1 lines prior chemo for mBC
- 1 to 2 lines of ET
- Documented PD on CDK4/6 inhibitor
- Measurable disease or bone-only disease eligible

- Strat factors**
- *ESR1* status (by ctDNA)
 - Prior fulvestrant
 - Visceral disease

N = 466

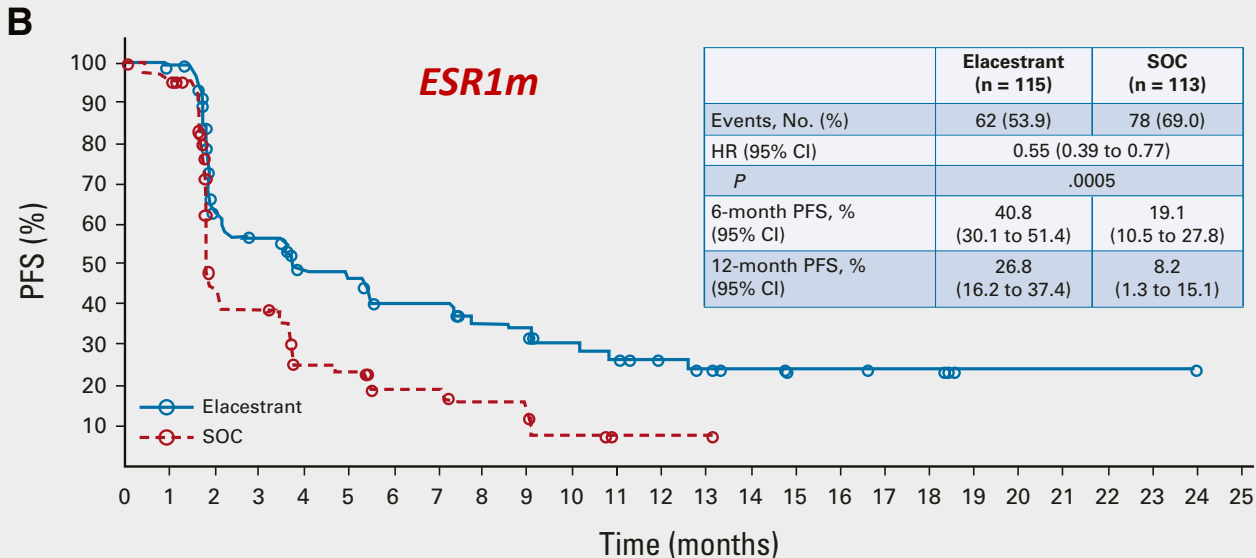
R

Elacestrant 400 mg
PO QD

Endocrine therapy*

- Key Characteristics:
- Visceral mets: ~70%
 - Prior CDK4/6i: 100%
 - Prior ET: 2 lines ~46%
 - Prior chemo: 1 line 20%

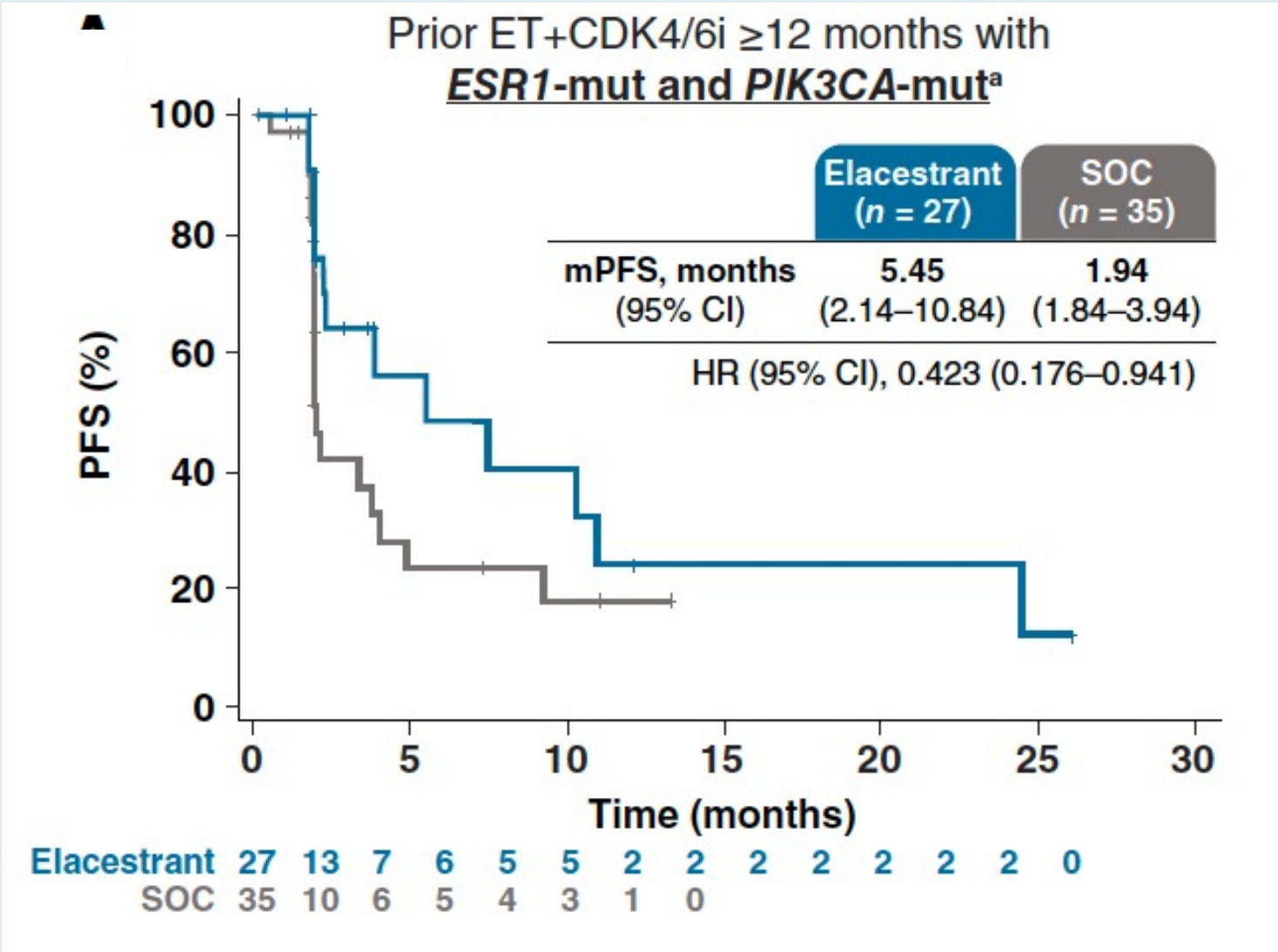
* SOC ET: 69% received fulvestrant



mPFS 3.78 vs 1.87 mos
HR 0.50 (95% CI 0.34-0.74), p=0.0005

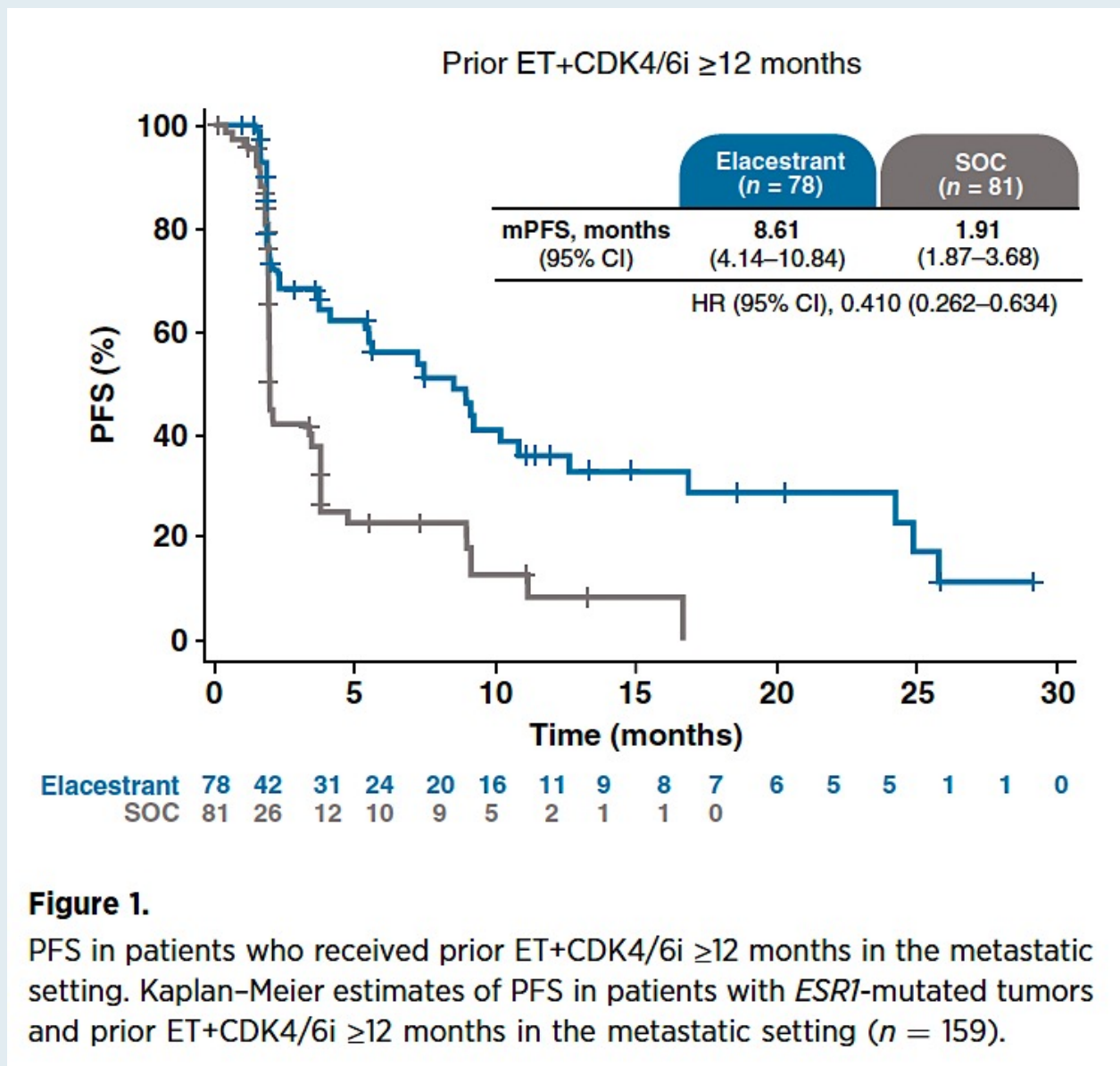
- Clinically significant benefit if ET sensitive disease, based on PFS duration on prior CDK4/6i:**
- ≥ 6 mos: mPFS 4.1 vs 1.9 mos (HR 0.52,.36-.74)
 - ≥ 12 mos: mPFS 8.6 vs 1.9 mos (HR 0.41,.26-.63)
 - ≥ 18 mos: mPFS 8.6 vs 2.1 mos (HR 0.47,.27-.79)

Elacestrant for Patients with PIK3CA-Mutated Disease



ET = endocrine therapy; SOC = standard of care

Elacestrant After ≥ 12 Months of ET and CDK4/6 Inhibition



mPFS = median progression-free survival

EMBER-3 Trial: Open Label P3RCT

ER+, HER2- ABC

Men and Pre-^a/Post-menopausal women

Prior therapy:

- **Adjuvant:** Recurrence on or within 12 months of completion of AI ± CDK4/6i
- **ABC:** Progression on first-line AI ± CDK4/6i
- No other therapy for ABC

Stratification Factors:

- Prior CDK4/6i therapy (Y/N)
- Visceral metastases (Y/N)
- Region^c

R 1:1:1^b
N=874

Imlunestrant
400 mg QD

A

SOC ET^{d,e}
Fulvestrant or
Exemestane

B

Imlunestrant
400 mg QD +
abemaciclib^e

C^b

Primary Endpoints

Investigator-assessed PFS for^f:

- A vs B in patients with *ESR1m*^g
- A vs B in all patients
- C vs A in all^h patients

Key Secondary Endpoints

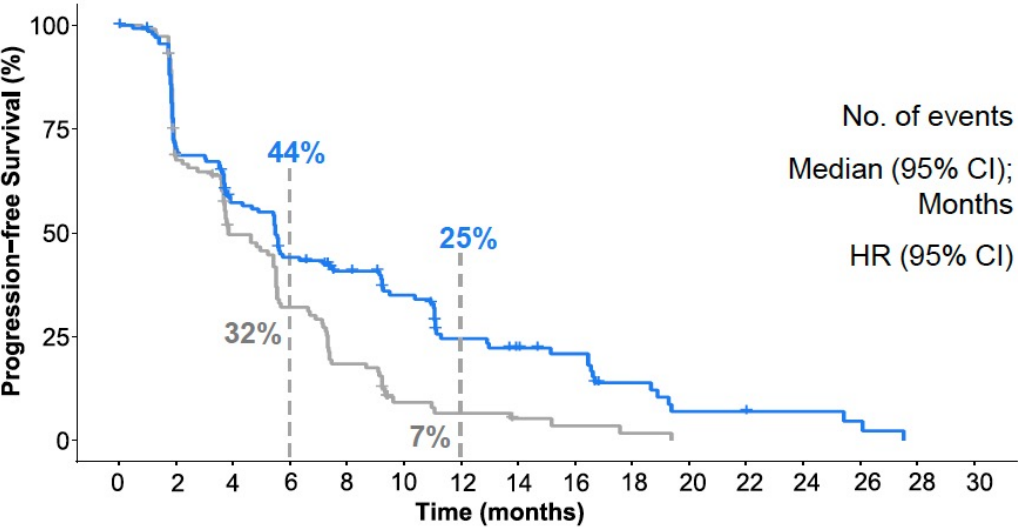
- OS, PFS by BICR, and ORR
- Safety

Exploratory Endpoints

- PFS and OS for C vs B in all^h patients

Key Characteristics

- SOC ET: 88% Fulvestrant; 10% Exemestane
- ~35% *ESR1m*
- 40% *PI3K* pathway alterations
- ~60% prior CDK4/6i



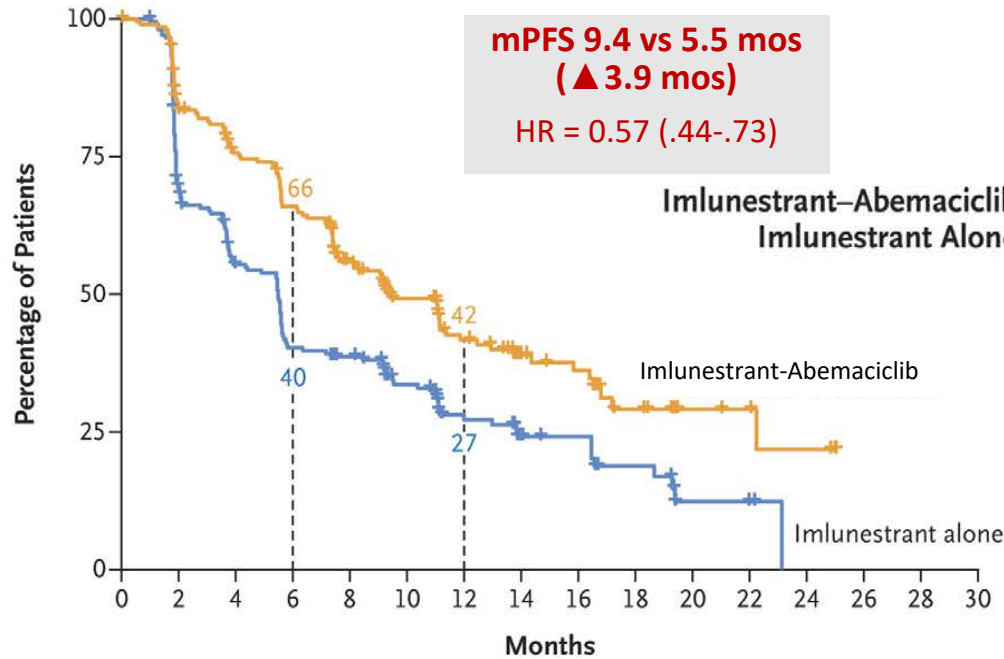
	Imlunestrant n=138	SOC ET n=118
No. of events	109	102
Median (95% CI); Months	5.5 (3.9-7.4)	3.8 (3.7-5.5)
HR (95% CI)	0.62 (0.46-0.82) ^a <i>p</i> -value<0.001	

FDA Approval for *ESR1m* 9/25/25

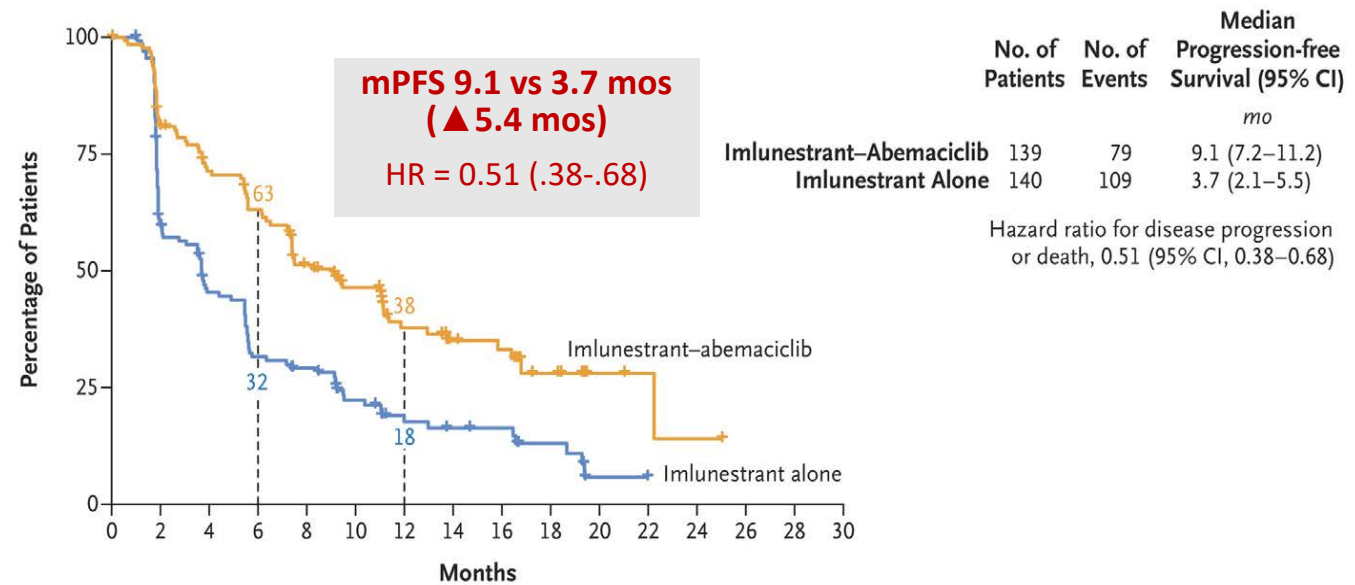
EMBER-3 Study

Imlunestrant + Abema vs Imlunestrant Alone

PFS Imlu + Abema vs Imlu Alone: Overall population

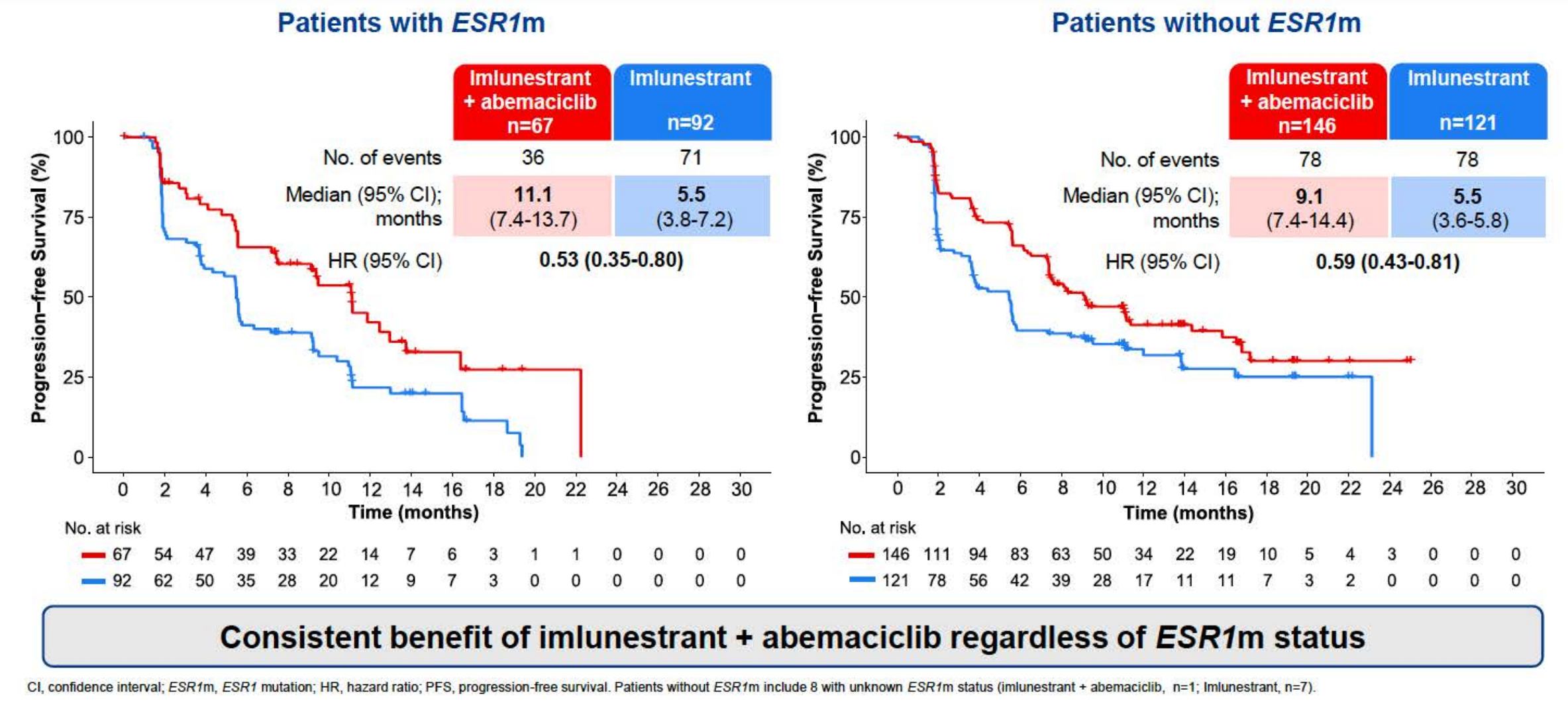


PFS Imlu + Abema vs Imlu Alone: Prior CDK4/6i

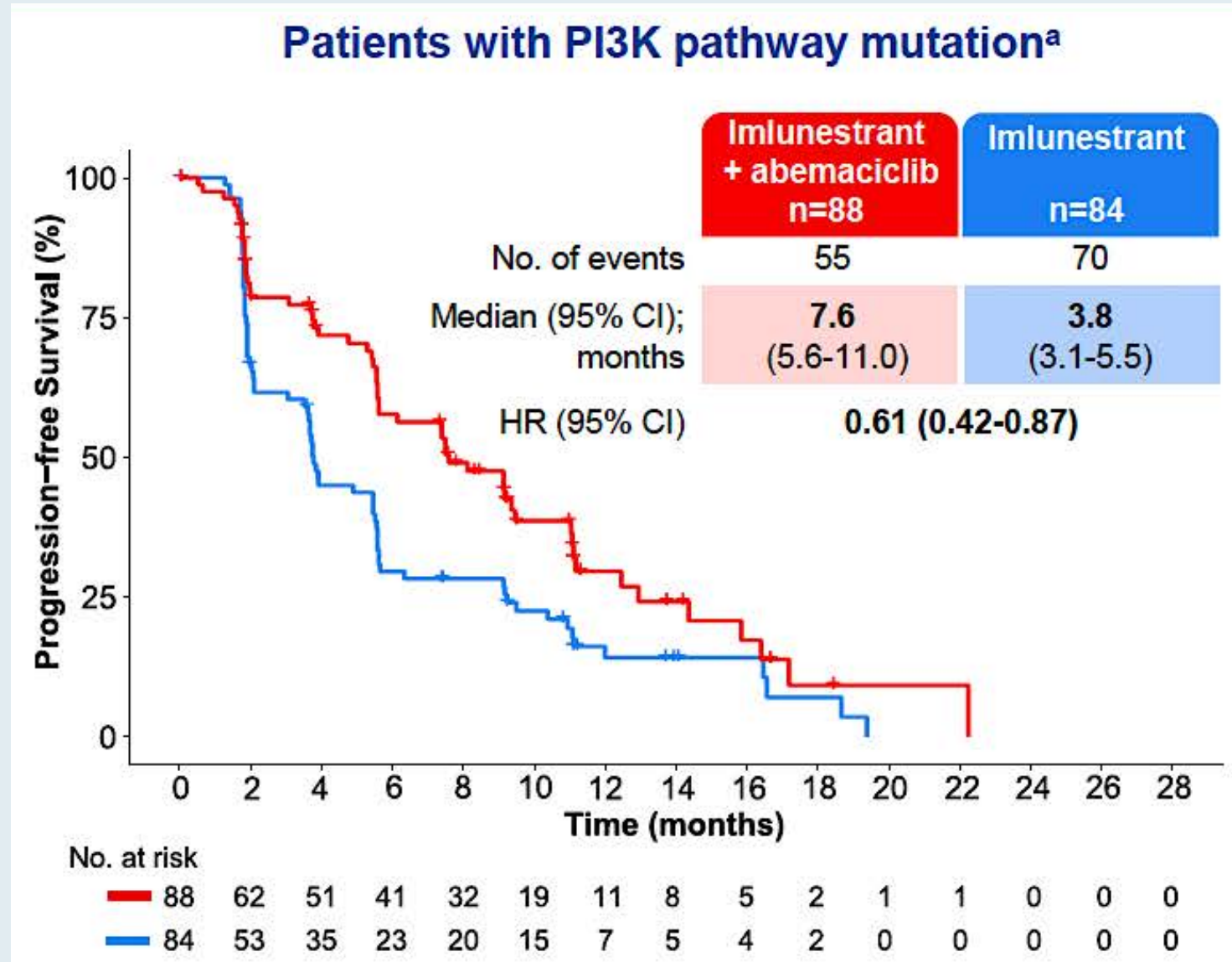


Benefit of Imlunestrant + Abema regardless of ESR1m status, PI3Km, and prior CDK4/6i use

EMBER-3: PFS with Imlunestrant and Abemaciclib by ESR1m Status



Imlunestrant and Abemaciclib for PIK3CA-Mutated Disease



FDA Approves Imlunestrant for Adults with ER-Positive, HER2-Negative, ESR1-Mutated Advanced or Metastatic Breast Cancer

Press Release: September 25, 2025

“The FDA has approved imlunestrant, an oral estrogen receptor antagonist, for the treatment of adults with estrogen receptor-positive (ER+), human epidermal growth factor receptor 2-negative (HER2–), *ESR1*-mutated advanced or metastatic breast cancer (MBC) whose disease progressed after at least one line of endocrine therapy (ET).

In the Phase 3 EMBER-3 trial, imlunestrant reduced the risk of progression or death by 38% versus ET. Among patients with *ESR1*-mutated MBC, imlunestrant significantly improved progression-free survival (PFS) versus fulvestrant or exemestane, with a median PFS of 5.5 months vs 3.8 months (HR = 0.62 [95% CI: 0.46-0.82]); *p*-value = 0.0008.”

VERITAC-2: Open Label P3RCT

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

Randomization (1:1)

28-day Treatment Cycles

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

Fulvestrant (n=311)
500 mg IM
(days 1 and 15 of cycle 1; day 1 of subsequent cycles)

Stratification Factors:

- *ESR1* mutation^a (yes vs no)
- Visceral disease (yes vs no)

Primary Endpoint:

- PFS by BICR in
 - *ESR1*m population
 - All patients

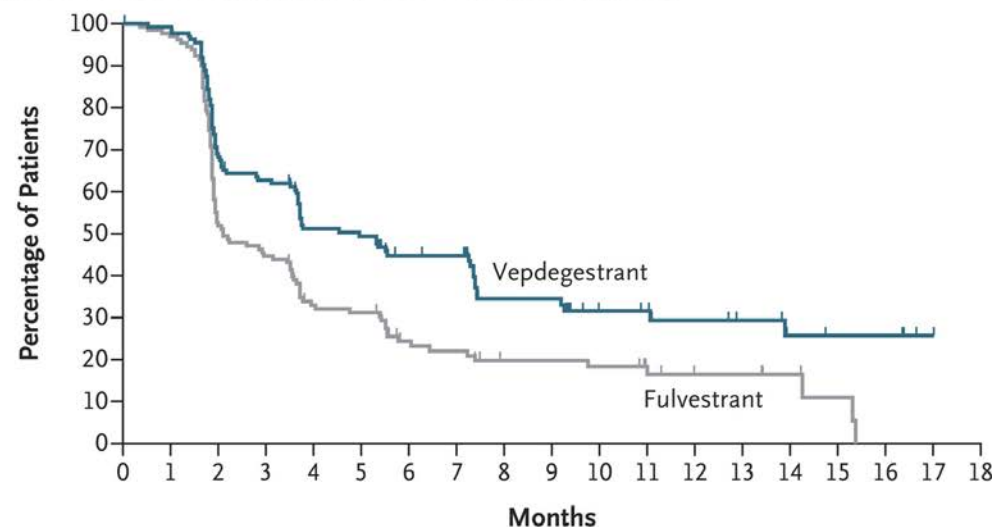
Secondary Endpoints:

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

Key Characteristics

- Visceral mets ~63%
- ~43% *ESR1*m
- 100% prior CDK4/6i
- ~ 80% 1 prior/~20% 2 prior LOT

Progression-free Survival among Patients with *ESR1* Mutations



	No. of Events (%)	Median Progression-free Survival <i>mo</i>
Vepdegestrant (N=136)	82 (60.3)	5.0 (3.7–7.4)
Fulvestrant (N=134)	103 (76.9)	2.1 (1.9–3.5)
Hazard ratio for disease progression or death, 0.58 (95% CI, 0.43–0.78) P<0.001		

mPFS 5.0 vs 2.1 mos (▲ 2.9 mos)

HR = 0.58 (0.43-0.78); p<0.001

Antibody-Drug Conjugates

DESTINY Breast-04: P3 RCT T-DXd vs TPC in HER2-low mBC after 1-2 prior L Chemo for mBC

Key Eligibility:

- HER2- mBC
- 1-2L prior chemo for mBC

T-DXd

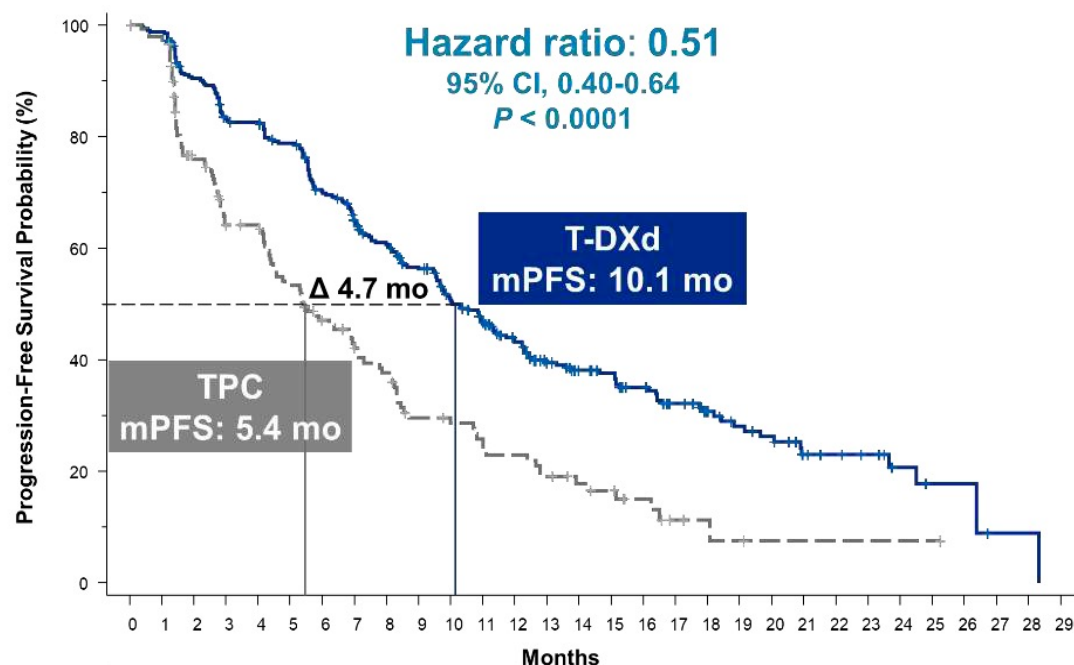
TPC

N=540 (HR+ 480)

TPC: cape, eribulin, gem, paclitaxel, or *nab* pac

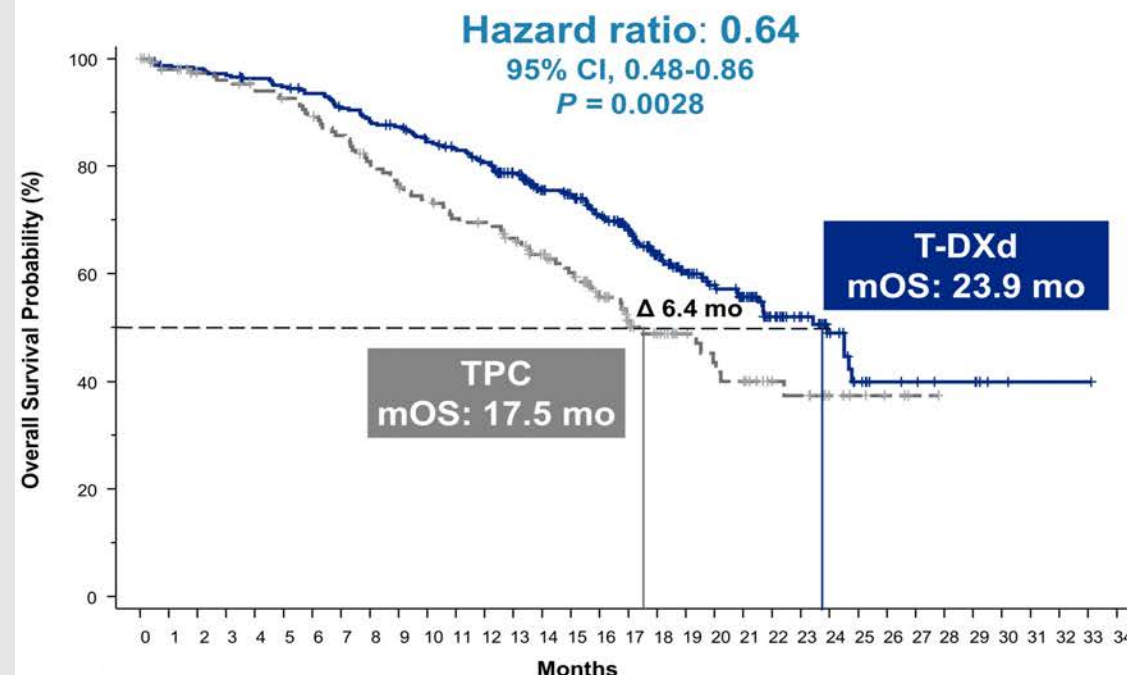
PROGRESSION FREE SURVIVAL

Hormone receptor-positive



OVERALL SURVIVAL

Hormone receptor-positive



DESTINY Breast-06: P3 RCT T-DXd vs TPC in HER2-low/ultralow mBC in Chemo-naïve

Key Eligibility:

- HR+/HER2 lo/ultralow* mBC
- **Chemo naïve for mBC**
- > 2L ET for mBC or 1L ET if endo-resistant

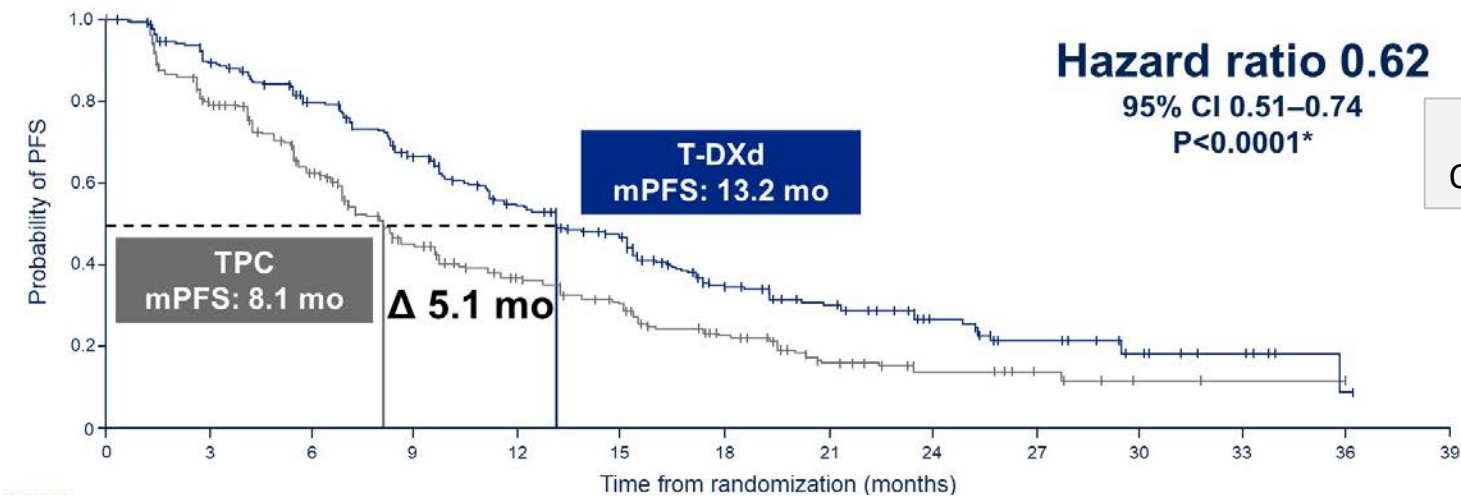
N=866

T-DXd

TPC

TPC: cape, paclitaxel, or nab pac

PFS (BICR) in HER2-low: primary endpoint



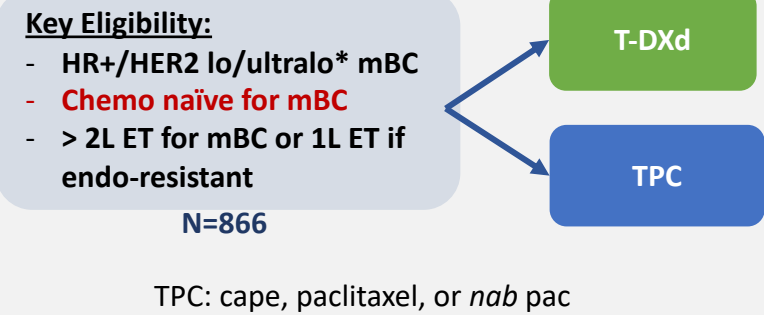
Similar PFS benefit seen in HER2 ultralow
OS data immature – 12 mos OS in HER2-low 87.6% vs 81.7% (NS)

Key Characteristics:

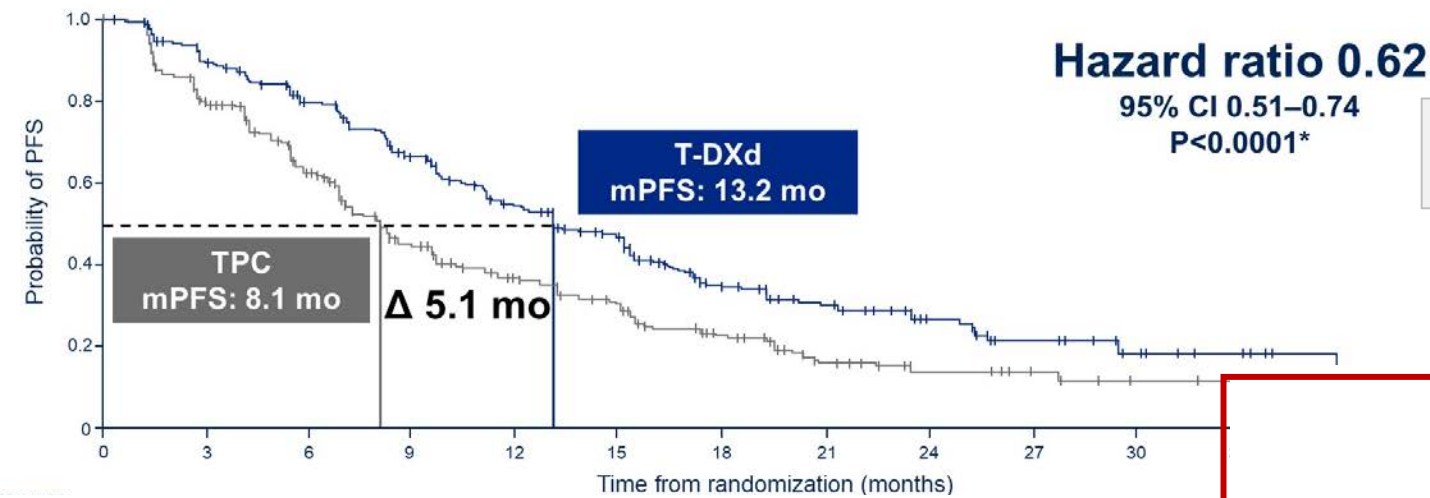
- HER2-low 82%
- De novo mBC ~31%
- Visceral ~85%
- 1° ET resistance ~31%

*HER2 low: IHC 1+, 2+ (ISH neg); HER2 ultralow: IHC 0 with any membrane staining

DESTINY Breast-06: P3 RCT T-DXd vs TPC in HER2-low/ultralow mBC in Chemo-naïve

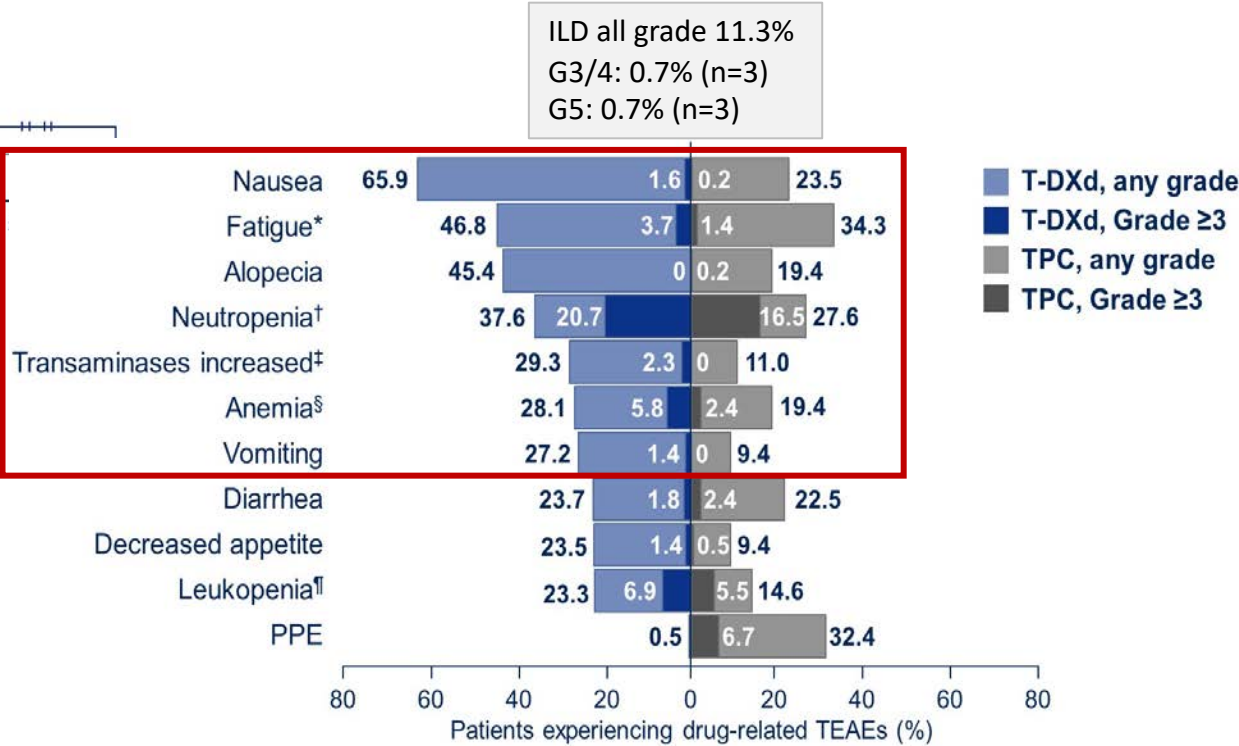


PFS (BICR) in HER2-low: primary endpoint



Similar PFS benefit seen in HER2 ultralow
OS data immature – 12 mos OS in HER2-low 87.6% vs 81.7% (NS)

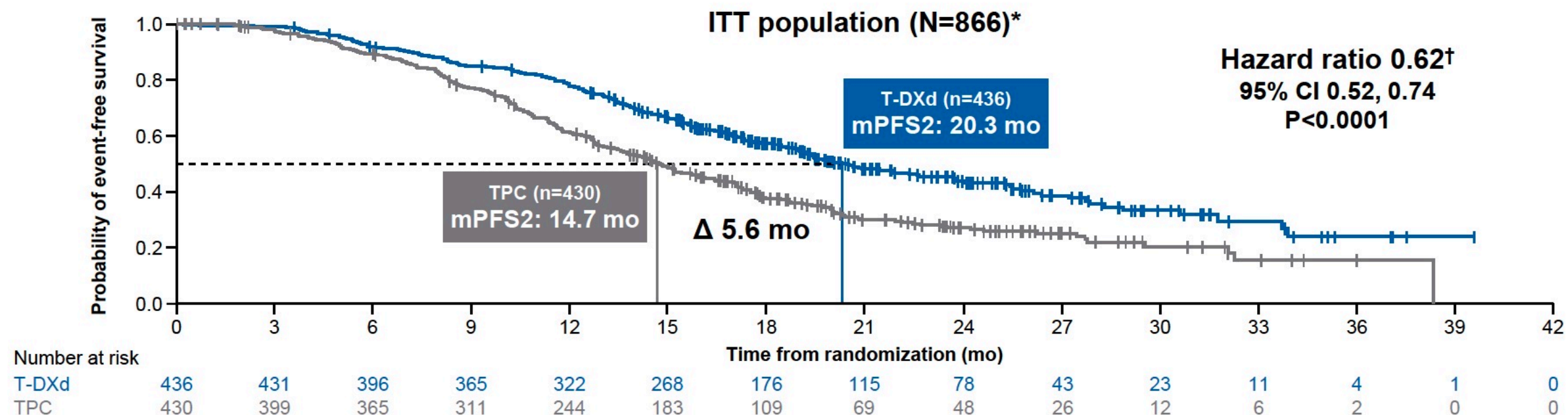
- Key Characteristics:**
- HER2-low 82%
 - De novo mBC ~31%
 - Visceral ~85%
 - 1° ET resistance ~31%



*HER2 low: IHC 1+, 2+ (ISH neg); HER2 ultralow: IHC 0 with any membrane staining



PFS2 in the overall ITT population and time-to-progression subgroups



	<6-mo 1L TTP		6–12-mo 1L TTP		>12-mo 1L TTP	
	T-DXd (n=65)	TPC (n=59)	T-DXd (n=60)	TPC (n=52)	T-DXd (n=168)	TPC (n=166)
mPFS2, mo (95% CI)	18.9 (14.4, 24.0)	15.2 (10.9, 17.5)	17.1 (13.9, 31.8)	13.7 (10.3, 17.1)	20.0 (18.6, 25.3)	14.3 (12.6, 15.9)
PFS2 hazard ratio (95% CI)	0.73 (0.46, 1.14) [†]		0.59 (0.37, 0.94) [†]		0.57 (0.43, 0.75) [†]	

Delay in PFS2[‡] was clinically meaningful in favor of T-DXd in the ITT population and TTP subgroups

*Of patients who received immediate post-discontinuation therapy (n=608), regimens included chemotherapy (66.7%), endocrine-based therapy (26.0%), ADC (7.8%), and targeted therapy alone (2.5%); †the hazard ratio and its CI was estimated from an unstratified Cox proportional hazards model; ‡PFS2 was defined by investigators according to local standard clinical practice as time from randomization to second progression (earliest progression event following first subsequent therapy) or death; ADC, antibody-drug conjugate; CI, confidence interval; ET, endocrine therapy; ITT, intent-to-treat; mo, months; (m)PFS2, (median) second progression-free survival / time from randomization to second progression or death; T-DXd, trastuzumab deruxtecan; TPC, physician's choice of chemotherapy; TTP, time to progression

TROPICS-02: P3 RCT Sacituzumab Govitecan vs TPC in HR+/HER2- mBC

Key Eligibility:

- HER2- mBC
- 2-4L prior chemo for mBC

Sacituzumab
Govitecan

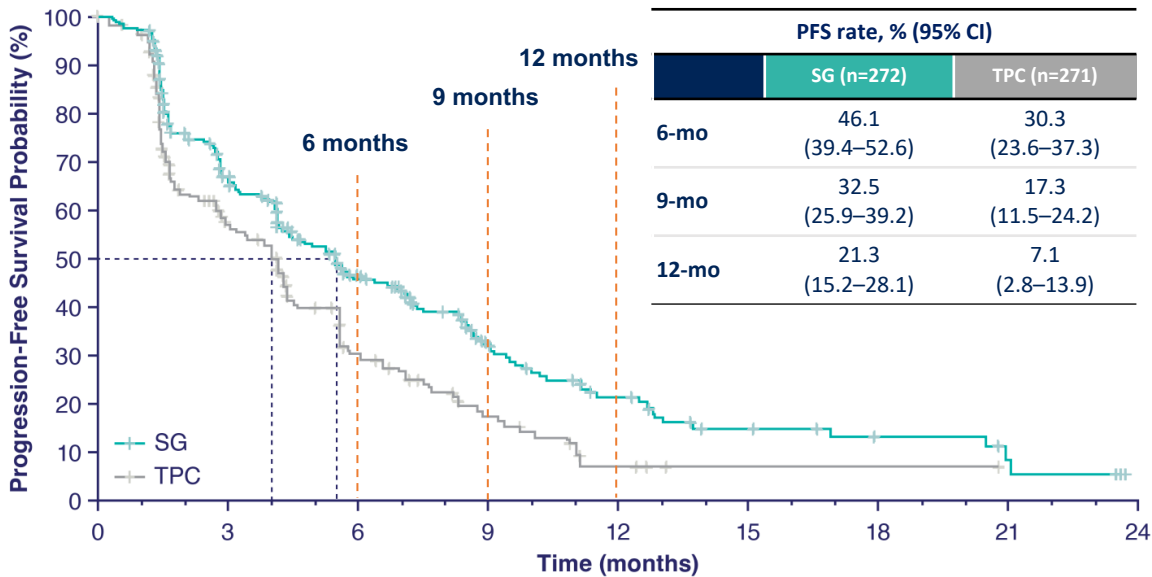
TPC

N=543

PFS¹ Median F/U: 10.2 mos

BICR analysis	SG (n=272)	TPC (n=271)
Median PFS, mo (95% CI)	5.5 (4.2–7.0)	4.0 (3.1–4.4)
Stratified HR (95% CI)	0.66 (0.53–0.83)	
Stratified Log Rank P value	P=0.0003	

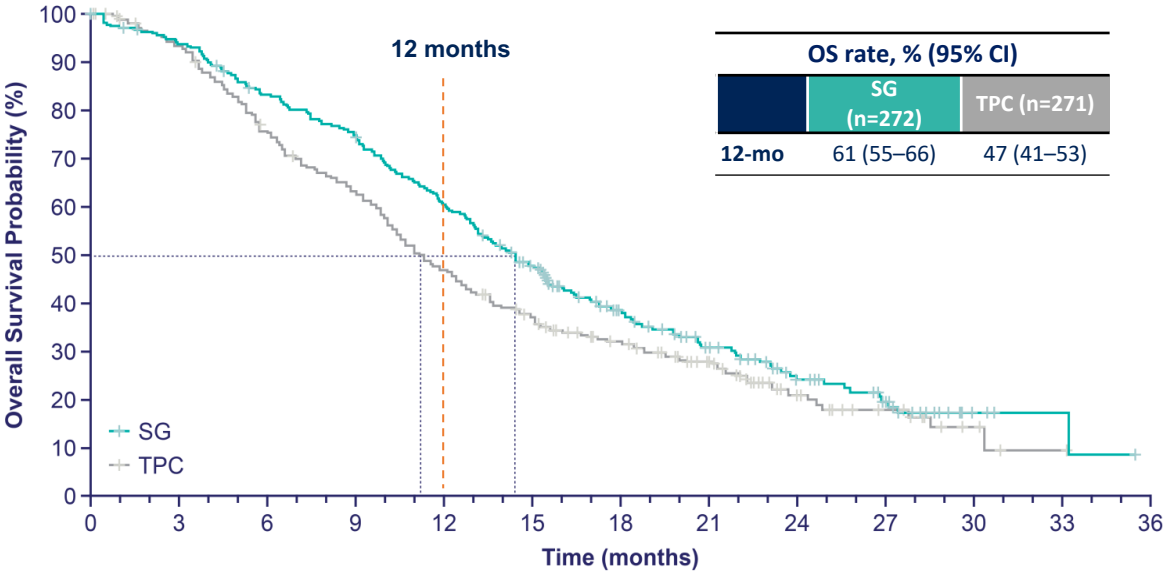
▲ 1.5 mos



OS² Median F/U: 12.5 mos

	SG (n=272)	TPC (n=271)
Median OS, mo (95% CI)	14.4 (13.0–15.7)	11.2 (10.1–12.7)
Stratified HR (95% CI)	0.79 (0.65–0.96)	
Stratified Log Rank P value	P=0.020	

▲ 3.2 mos



1. Rugo HS, et al. *J Clin Oncol*. 2022;40:3365-3376; 2. Rugo H, et al. ESMO 2022. Oral LBA76.

Phase III TROPiCS-02: Safety Summary

TEAEs, ^a n (%)		SG (n = 268)		TPC (n = 249)	
		Any grade	Grade ≥ 3	Any grade	Grade ≥ 3
Hematologic	Neutropenia ^b	189 (71)	140 (52)	136 (55)	97 (39)
	Anemia ^c	98 (37)	20 (7)	69 (28)	8 (3)
	Thrombocytopenia ^d	17 (6)	1 (<1)	41 (16)	9 (4)
Gastrointestinal	Diarrhea	166 (62)	27 (10)	57 (23)	3 (1)
	Nausea	157 (59)	3 (1)	87 (35)	7 (3)
	Constipation	93 (35)	1 (<1)	61 (24)	0
	Vomiting	64 (24)	3 (1)	39 (16)	4 (2)
	Abdominal pain	53 (20)	10 (4)	34 (14)	2 (1)
Other	Alopecia	128 (48)	0	46 (18)	0
	Fatigue	105 (39)	16 (6)	82 (33)	9 (4)
	Asthenia	62 (23)	6 (2)	50 (20)	5 (2)
	Decreased appetite	57 (21)	4 (1)	52 (21)	2 (1)
	Dyspnea	49 (18)	5 (2)	39 (16)	11 (4)
	Headache	44 (16)	1 (<1)	36 (14)	2 (1)
	Pyrexia	39 (15)	2 (1)	45 (18)	0
	AST increased	33 (12)	4 (1)	44 (18)	8 (3)

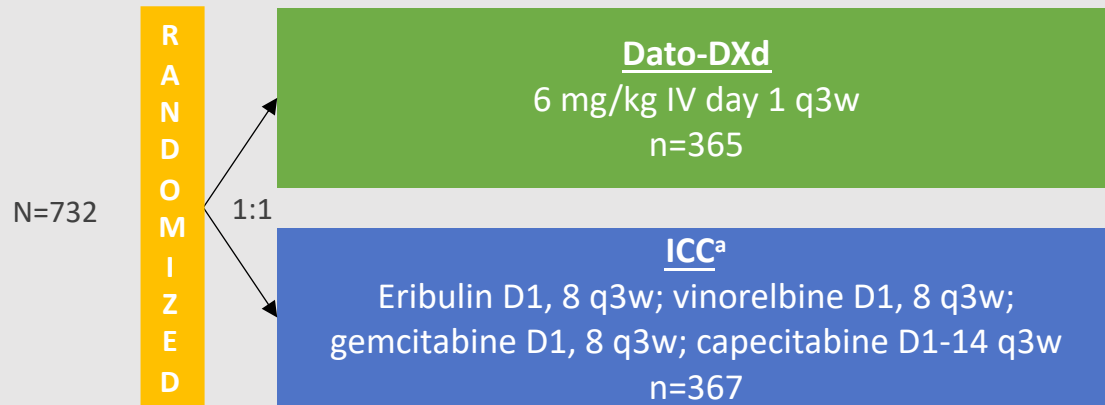
The most common grade ≥ 3 TEAEs were neutropenia (52%), diarrhea (10%), and anemia (7%) in the SG group, and neutropenia (39%), thrombocytopenia (4%), fatigue (4%), and dyspnea (4%) in the TPC group

TEAEs = treatment-emergent adverse events; SG = sacituzumab govitecan, TPC = treatment of physician's choice

TROPION-Breast01: P3 RCT Dato-DXd vs Chemo in HR+/HER2– MBC

Key Eligibility Criteria

- HR+/HER2– MBC (HER2 IHC 0/1+/2+; ISH–)
- Progressed on and not suitable for ET
- 1-2 prior lines** of Chemo in inoperable/metastatic setting
- ECOG PS 0-1

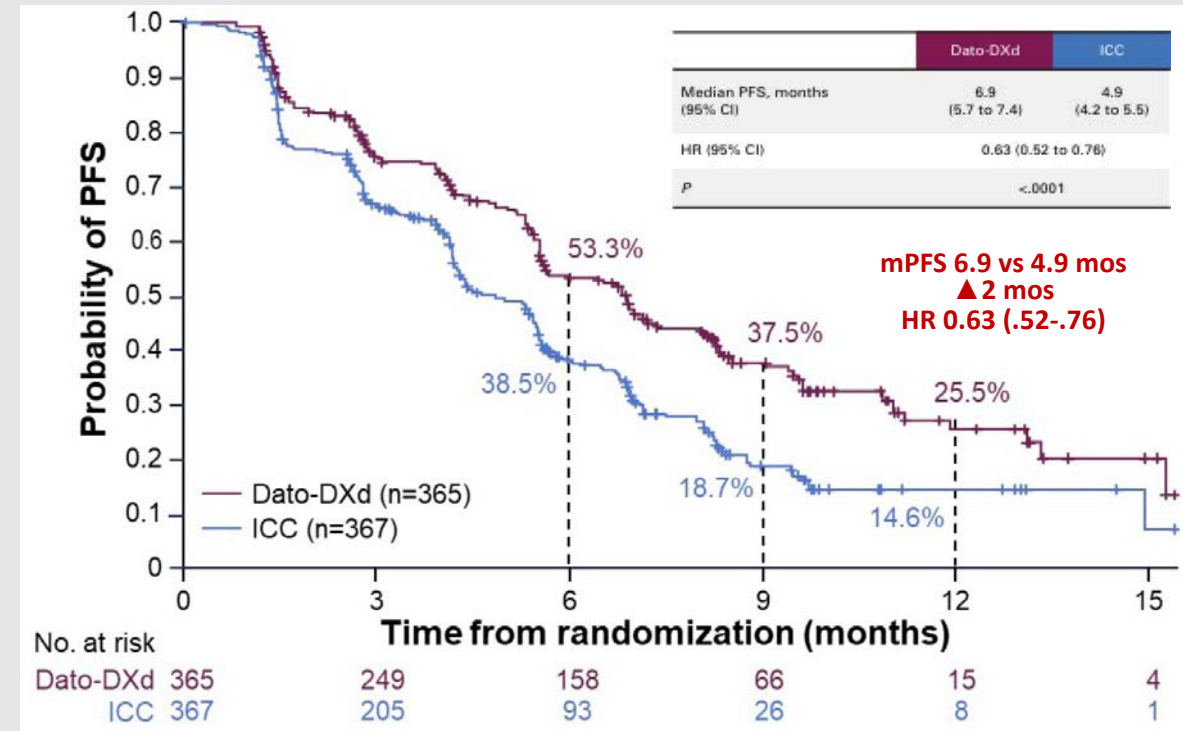


Dual primary endpoints: PFS by BICR per RECIST v1.1, OS

Secondary endpoints: ORR, PFS by investigator, TFST, safety, PROs

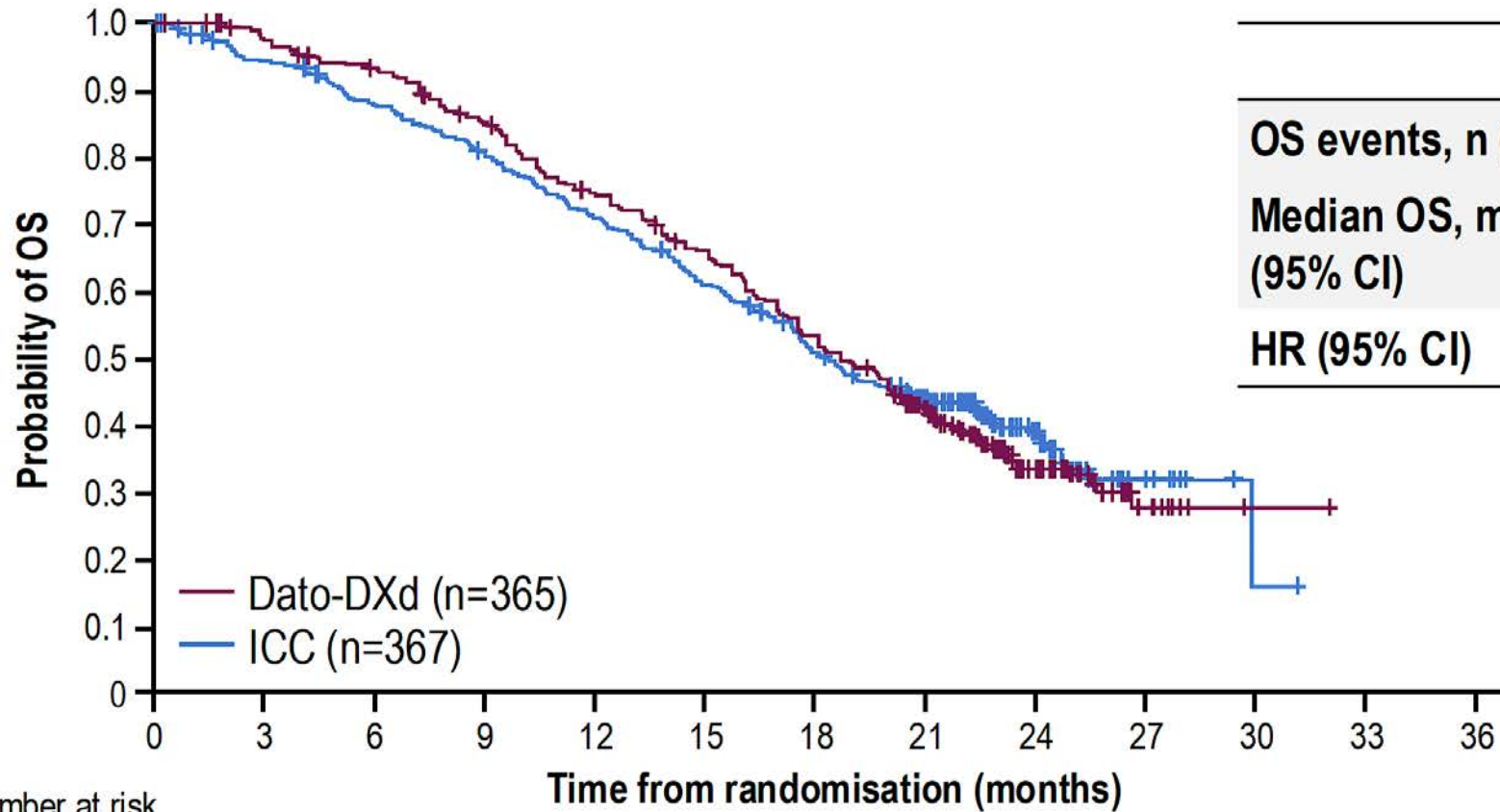
^a Investigator's choice of Chemo (ICC): eribulin, 1.4 mg/kg IV on D1, 8, q3w; vinorelbine, 25 mg/m² IV on D1, 8, q3w; gemcitabine 1000 mg/m² IV on D1, 8, q3w; capecitabine 1000 or 1250 mg/m² (dose per standard institutional practice BID D1-14, q3w).

Pernas S, et al. ASCO 2024. Abstract 1006
 Bardia A et al. JCO 2024;43:285-96.



- Similar findings in those with prior CDK4/6i ≤ 12 mos vs > 12 mos
- Any grade stomatitis seen in 50% on Dato-DXd (6% G3) – 0.3% D/C rate due to stomatitis

Phase III TROPION-Breast01: Overall Survival (OS)



Number at risk											
	0	3	6	9	12	15	18	21	24	27	30
Dato-DXd	365	349	331	299	259	227	180	118	49	12	1
ICC	367	335	309	283	249	213	175	123	51	9	1

	Dato-DXd	ICC
OS events, n (%)	223 (61)	213 (58)
Median OS, months	18.6	18.3
(95% CI)	(17.3–20.1)	(17.3–20.5)
HR (95% CI)	1.01 (0.83–1.22)	

- Maturity: 59.6%
- Median follow-up: 22.8 months
- Protocol prespecified OS sensitivity analysis based on the stratification factors according to the eCRF*:
HR 0.99 (95% CI: 0.82–1.20)

Dato-DXd = datopotamab deruxtecan; ICC = investigator's choice of chemotherapy

Phase III TROPION-Breast01: Safety Profile

System Organ Class Preferred term, n (%)	Dato-DXd (n=360)		ICC (n=351)	
	Any Grade	Grade ≥3	Any Grade	Grade ≥3
Blood and lymphatic system				
Anaemia	40 (11)	4 (1)	69 (20)	7 (2)
Neutropenia*	39 (11)	4 (1)	149 (42)	108 (31)
Eye				
Dry eye	78 (22)	2 (1)	27 (8)	0
Gastrointestinal				
Nausea	184 (51)	5 (1)	83 (24)	2 (1)
Stomatitis	180 (50)	23 (6)	46 (13)	9 (3)
Vomiting	71 (20)	4 (1)	27 (8)	2 (1)
Constipation	65 (18)	0	32 (9)	0
General				
Fatigue	85 (24)	6 (2)	64 (18)	7 (2)
Skin and subcutaneous				
Alopecia	131 (36)	0	72 (21)	0

- Most TRAEs were grade 1–2 and manageable

AESIs

- Oral mucositis/stomatitis:[†] led to treatment discontinuation in one patient in the Dato-DXd group
- Ocular events:[‡] most were dry eye; one patient discontinued treatment in the Dato-DXd group
- Adjudicated drug-related ILD:[§] rate was low; mainly grade 1/2

Adjudicated drug-related ILD	Dato-DXd	ICC
All grades, n (%)	9 (3)	0
Grade ≥3, n (%)	2 (1) [¶]	0

TRAEs = treatment-related adverse events; ILD = interstitial lung disease

FDA Approves Datopotamab Deruxtecan-dlnk for Unresectable or Metastatic HR-Positive, HER2-Negative Breast Cancer

Press Release: January 17, 2025

“On January 17, 2025, the Food and Drug Administration approved datopotamab deruxtecan-dlnk, a Trop-2-directed antibody and topoisomerase inhibitor conjugate, for adult patients with unresectable or metastatic, hormone receptor (HR)-positive, human epidermal growth factor receptor 2 (HER2)-negative (IHC 0, IHC1+ or IHC2+/ISH-) breast cancer who have received prior endocrine-based therapy and chemotherapy for unresectable or metastatic disease.

Efficacy was evaluated in TROPION-Breast01 (NCT05104866), a multicenter, open-label, randomized trial. Patients must have experienced disease progression, been deemed unsuitable for further endocrine therapy, and have received one or two lines of prior chemotherapy for unresectable or metastatic disease. Patients were excluded for a history of ILD/pneumonitis requiring steroids, ongoing ILD/pneumonitis, clinically active brain metastases, or clinically significant corneal disease. Patients also were excluded for ECOG performance status >1.”

Data + Perspectives: Clinical Investigators Explore the Application of Recent Datasets in Current Oncology Care

CME/MOC, NCPD and ACPE Accredited

**Saturday, October 11, 2025
7:15 AM – 12:30 PM ET**

A 65-year-old woman (PS 0) with ER-positive, HER2-negative (IHC 0/null) de novo mBC receives ribociclib + letrozole for 2.5 years followed by disease progression with multiple minimally symptomatic bone metastases

ESR1 mutation

PIK3CA mutation

Elacestrant



12

Capivasertib + fulvestrant



6

Everolimus + fulvestrant



1

Inavolisib + palbociclib + fulvestrant



1

An 80-year-old woman (PS 1) with ER-positive, HER2-negative (IHC 0/null) de novo mBC receives ribociclib + letrozole for 2.5 years followed by disease progression with multiple minimally symptomatic bone metastases

ESR1 mutation

PIK3CA mutation

Elacestrant  15

Capivasertib + fulvestrant  3

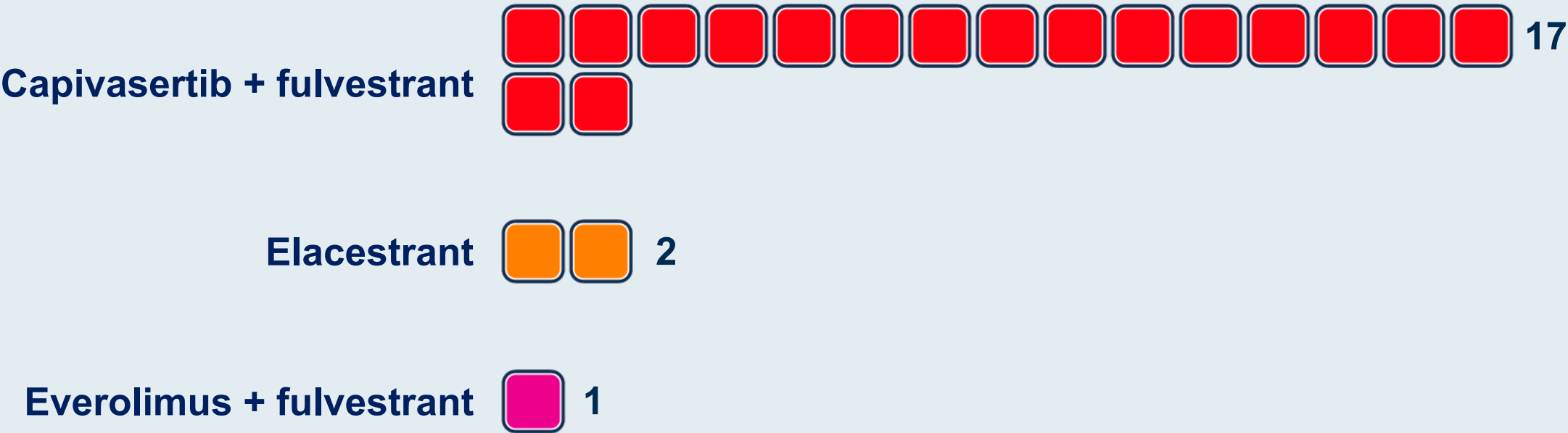
Fulvestrant  1

Inavolisib + palbociclib + fulvestrant  1

A 65-year-old woman (PS 0) with ER-positive, HER2-negative (IHC 0/null) de novo mBC receives ribociclib + letrozole for 10 months followed by disease progression with multiple minimally symptomatic bone metastases

ESR1 mutation

PIK3CA mutation



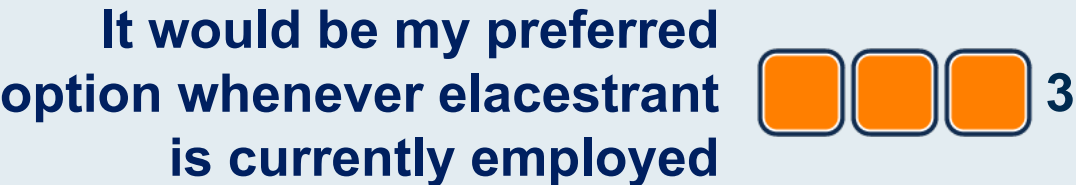
A 65-year-old woman (PS 0) with ER-positive, HER2-negative (IHC 0/null) de novo mBC receives ribociclib + letrozole for 2.5 years followed by disease progression with multiple symptomatic visceral metastases and normal LFTs

ESR1 mutation

PIK3CA mutation



If imlunestrant were available, in which situations, if any, would you use this agent as monotherapy?



Regulatory and reimbursement issues aside, are there situations in which you would employ the combination of imlunestrant/abemaciclib for ER-positive, HER2-negative mBC?

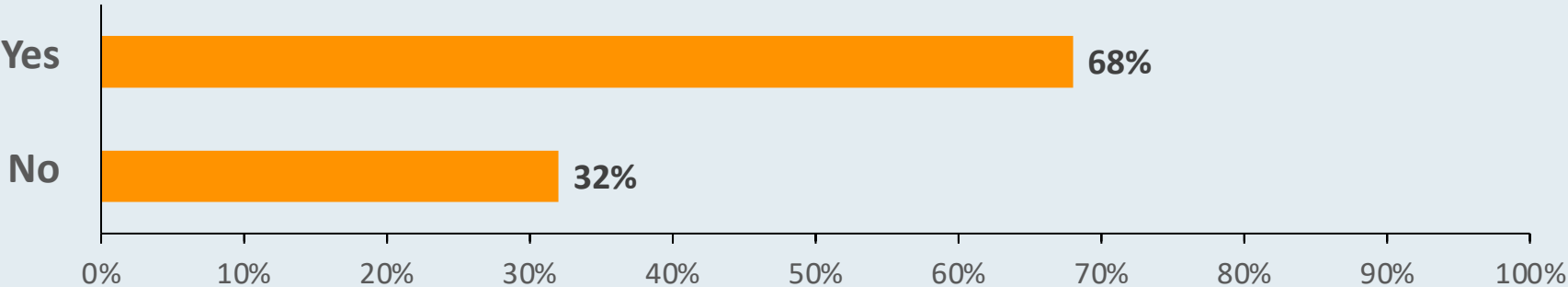


Regulatory and reimbursement issues aside, do you believe that the results from the SERENA-6 study justify the routine use of serial ctDNA monitoring for early detection of ESR1 mutations in patients with ER-positive, HER2-negative mBC receiving first-line therapy?

Clinical Investigators



General Medical Oncologists



Questions from General Medical Oncologists

- **What would you recommend as second-line treatment for a patient with both ESR1 and PIK3CA mutations?**

Questions from General Medical Oncologists

- **Where does the combination of imlunestrant and abemaciclib fit in?**

Questions from General Medical Oncologists

- **What is the current role of alpelisib?**
- **Would you use the inavolisib triplet for de novo mBC?**
- **What do you typically recommend as second-line treatment after progression on the first-line inavolisib triplet? Is rebiopsy necessary?**

Questions from General Medical Oncologists

- **Case: 62-year-old woman with HR-positive, HER2-negative mBC whose disease progressed after 2 years on an AI + CDK4/6 inhibitor therapy. Bone and nodal mets, minimal symptoms. ESR1 and PIK3CA mutations. She has no diabetes but does have mild hepatic steatosis. HBA1C 6.8**

Questions from General Medical Oncologists

- **Can we sequence TROP2 ADC after TROP2 ADC?**
- **How do you choose between TROP2 ADC and HER2 ADC in patients eligible for both? Does biomarker profile really matter?**
- **Which do you typically use — sacituzumab govitecan or Dato-DXd?**

Questions from General Medical Oncologists

- **How would you compare the toxicities and quality of life with sacituzumab govitecan versus Dato-DXd?**
- **How big of a concern are the ocular side effects of Dato-DXd? What about mucositis? How do you attempt to prevent and manage these toxicities?**

Questions from General Medical Oncologists

- **Are there situations in which it's safe to rechallenge with T-DXd after pneumonitis?**
- **How do you manage CDK4/6 inhibitor-associated ILD?**
- **Can T-DXd be used for a patient with decompensated heart failure — EF 35%?**
- **Should T-DXd be administered to patients with HR-negative, HER2-ultralow disease?**

Management of HER2-Positive Breast Cancer

Harold J Burstein, MD, PhD

Director of Academic Partnerships

Institute Physician

Dana-Farber Cancer Institute

Professor of Medicine

Harvard Medical School

Boston, Massachusetts

pCR rates (%) with THP or TCHP

		THP	TCHP
HELEN-006	overall	66	58
	ER neg	86	70
	ER pos	53	48
neoCARHP	overall	64	66
	ER neg	78	78
	ER pos	56	59
EA1181	overall	44	
	ER neg	64	
	ER pos	33	

Key questions:

- Good enough?
- 18 wks or 12 wks?
- Heterogeneous tumors / HER2 2+ esp ER negative
- Will better adjuvant salvage make this yet-less relevant?

Chen XC et al. Lancet Oncol. 2025 Jan;26(1):27-36.

Gao HF et al. ASCO 2025;Abstract LBA500

Tung NM et al. ASCO 2025;Abstract 501

Destiny Breast 11

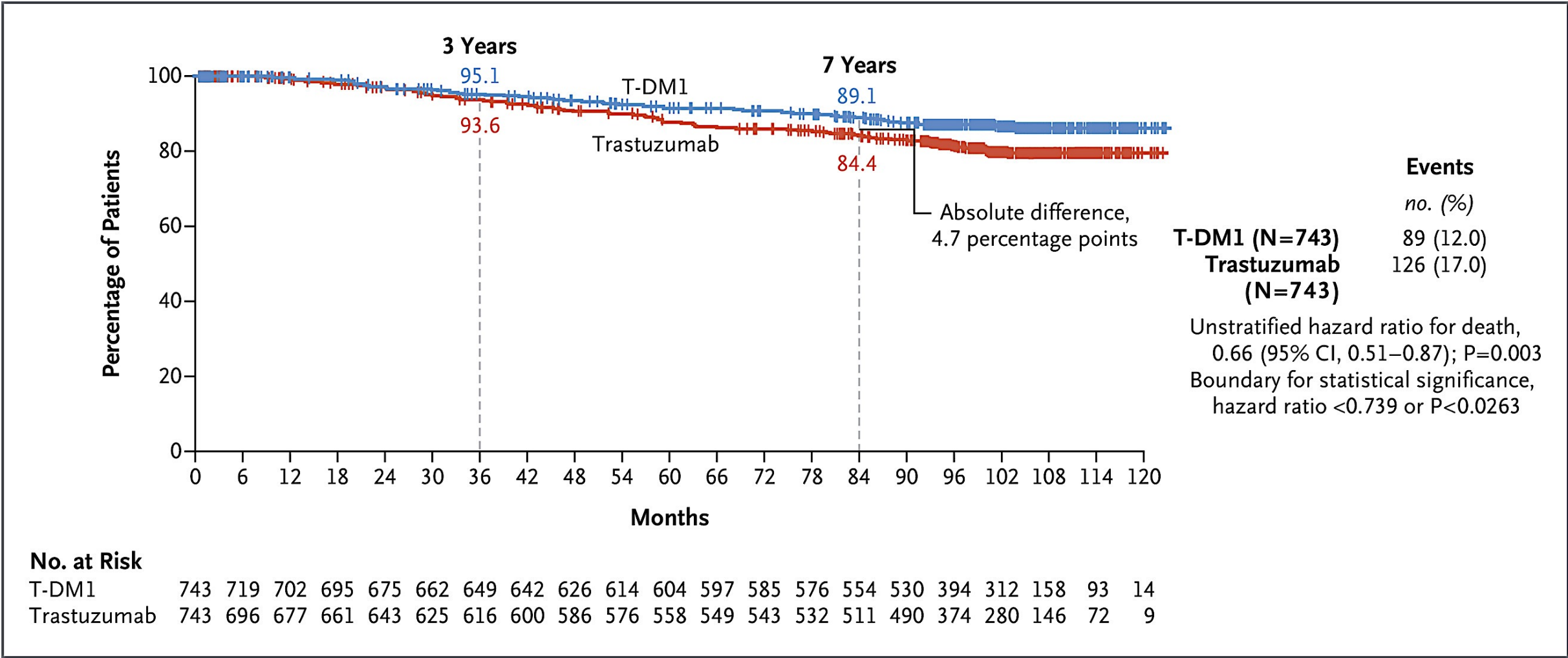
- Preoperative therapy for HER2+ early-stage breast cancer
- Arm A. T-DXd
- Arm B. T-DXd → THP
- Arm C. dd AC → THP
- Primary endpoint: pCR

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

Destiny Breast 11

- Preoperative therapy for HER2+ early-stage breast cancer
- Arm A. T-DXd 
- Arm B. T-DXd → THP 
- Arm C. dd AC → THP
- Primary endpoint: pCR

KATHERINE Trial.



Destiny Breast 05

- Patients with residual HER2+ breast cancer in LN after neoadjuvant chemotherapy
- Arm A. T-DXd
- Arm B. TDM1
- Primary endpoint: iDFS

Sep 29, 2025 2:30 AM Eastern Daylight Time

T-DXd Demonstrated Highly Statistically Significant and Clinically Meaningful Improvement in Invasive Disease-Free Survival Versus T-DM1 in DESTINY-Breast05 Phase 3 Trial in Patients with High-Risk Early Breast Cancer Following Neoadjuvant Therapy

ExteNet: Neratinib after Trastuzumab-based adjuvant therapy

Neratinib for Early-Stage HER2-Positive Breast Cancer

International, Randomized, Phase 3 ExteNET Trial

Intention-to-treat population

2840 patients

HER2+ early-stage breast cancer after prior trastuzumab



*According to labelling in the European Union and other countries

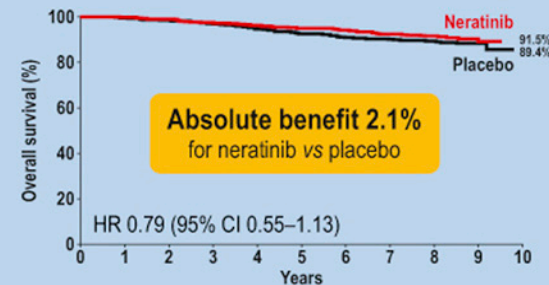
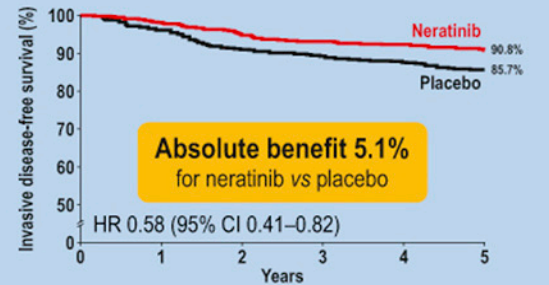
Invasive disease-free survival
5 years' follow-up

Overall survival
8 years' follow-up

HER2+/HR+ early-stage breast cancer within 1 year of prior trastuzumab*

1334 patients

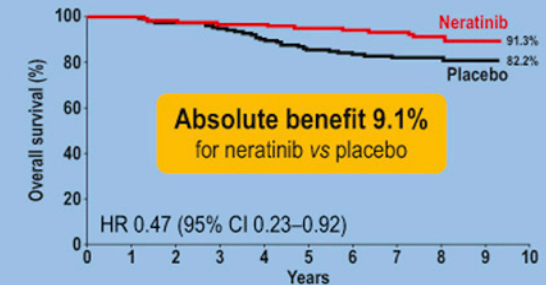
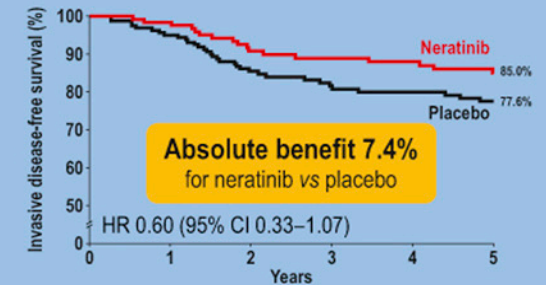
HER2+/HR+ early-stage breast cancer within 1 year of prior trastuzumab



Patients with residual disease after neoadjuvant therapy

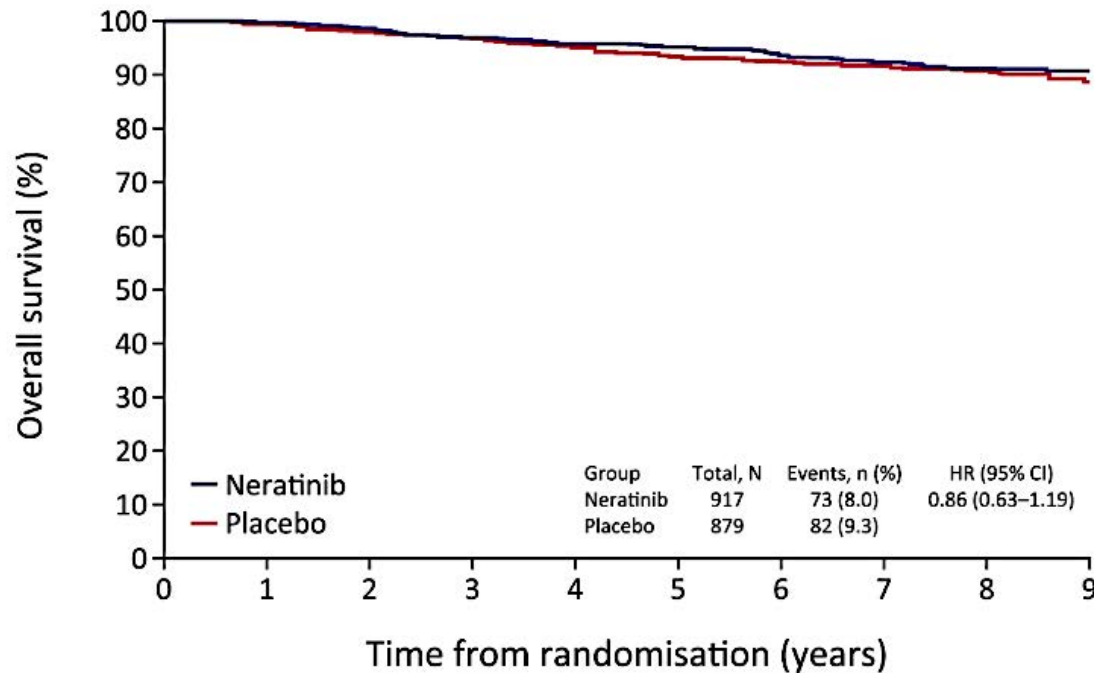
295 patients

HER2+/HR+ early-stage breast cancer within 1 year of prior trastuzumab with residual disease after neoadjuvant therapy



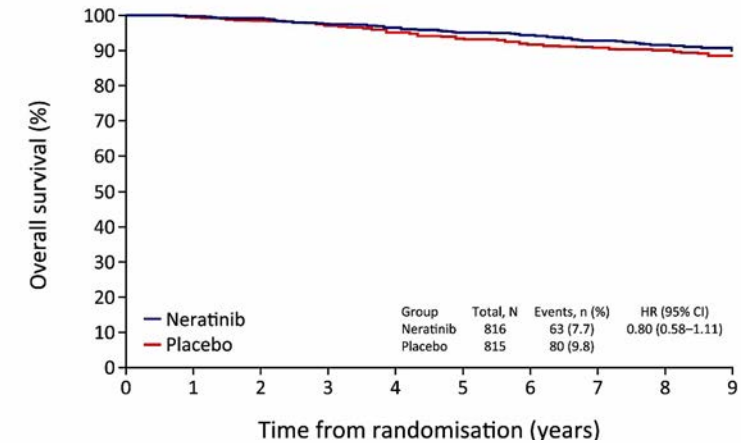
ExteNet: Neratinib after Trastuzumab-based adjuvant therapy

Centrally confirmed HER2-positive population



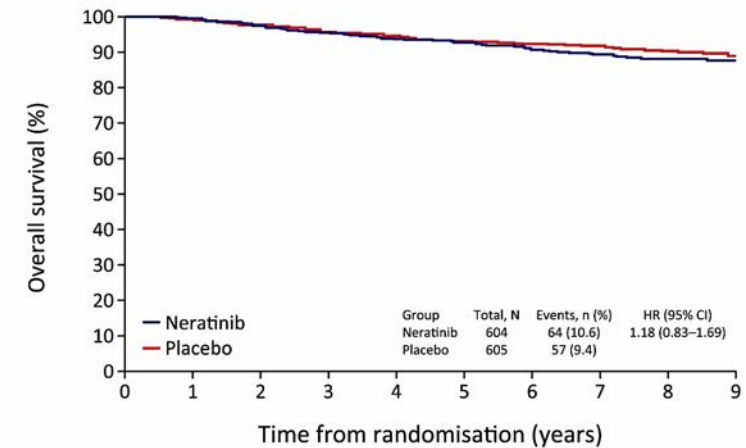
A

Hormone receptor-positive subgroup



B

Hormone receptor-negative subgroup



DESTINY-Breast09 study design

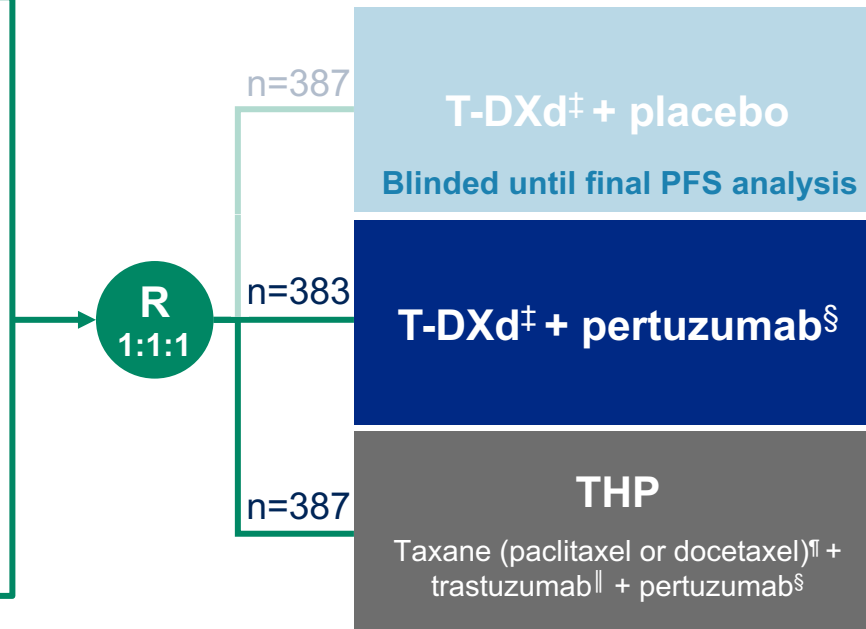
A randomized, multicenter, open-label,* Phase 3 study (NCT04784715)

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†**

Stratification factors

- De-novo vs recurrent mBC
- HR+ or HR–
- *PIK3CA*m (detected vs non-detected)



Endpoints

Primary

- PFS (BICR)

Key secondary

- OS

Secondary

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

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

*Open label for THP arm. 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;

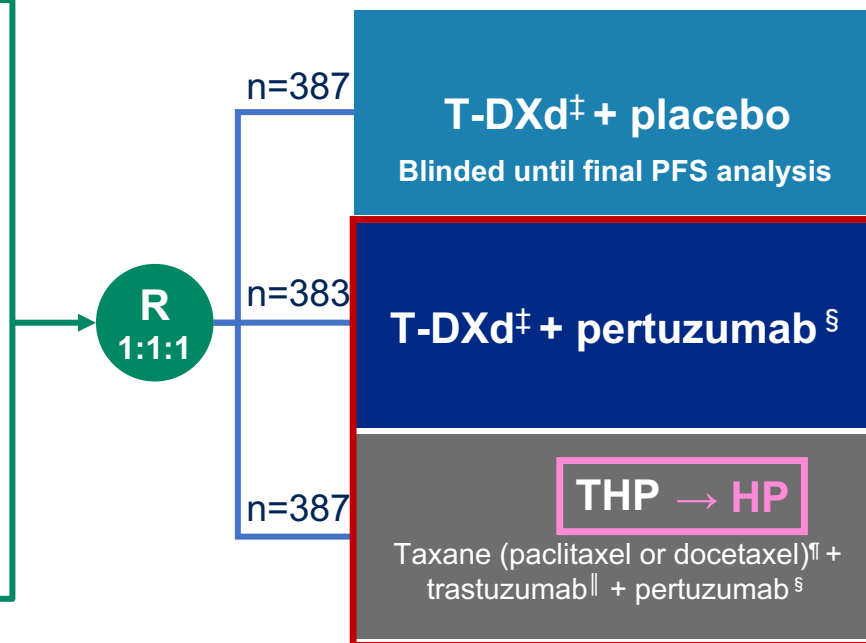
PFS2, second progression-free survival; *PIK3CA*m, phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha mutation; Q3W, every 3 weeks; QW, once every week; R, randomization; T-DXd, trastuzumab deruxtecan

NCT04784715. Updated. May 6, 2025. Available from: <https://clinicaltrials.gov/study/NCT04784715> (Accessed May 29, 2025)

DESTINY-Breast09 – 1L HER2+ mBC

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[†]**



Endpoints

Primary

- PFS (BICR)

Key secondary

- OS

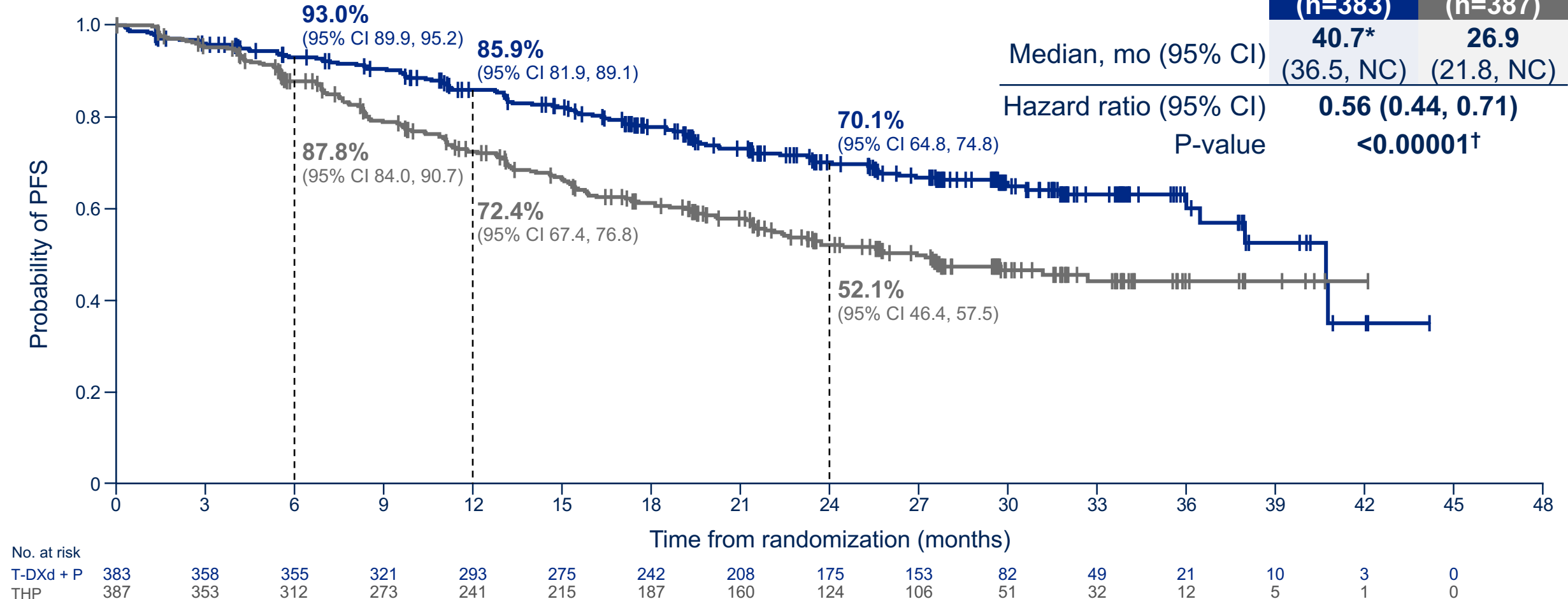
Secondary

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

Key participant characteristics:

- 51% de novo mBC; 54% HR+; ~82% IHC 3+
- Of those initially diagnosed with ESB: ~ 80-85% received (neo)adjuvant chemo; ~ **58% trastuzumab**; ~**15% pertuzumab**; **2% T-DM1**
- Concurrent use of **ET in HR+**: **13.5% in T-DXd + P arm**; **38.3% in THP arm**

PFS (BICR): primary endpoint

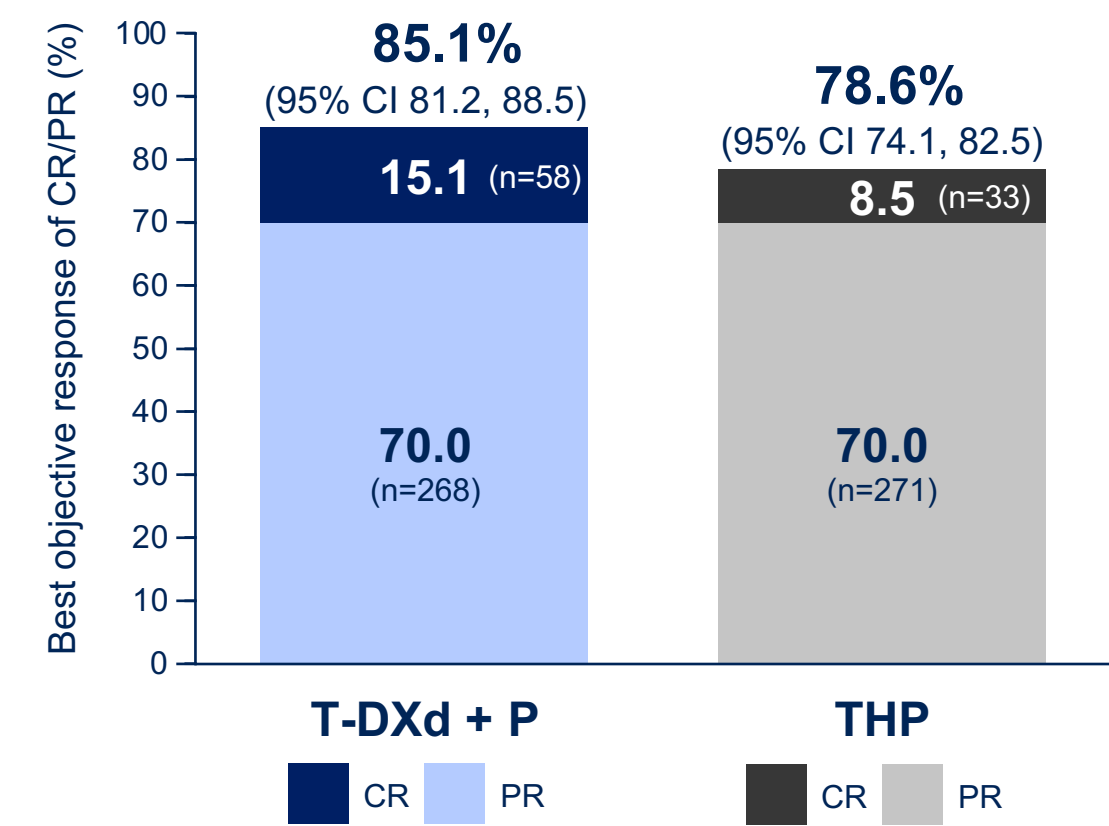


Statistically significant and clinically meaningful PFS benefit with T-DXd + P (median Δ 13.8 mo)

*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

ORR and DOR (BICR)

Confirmed ORR*

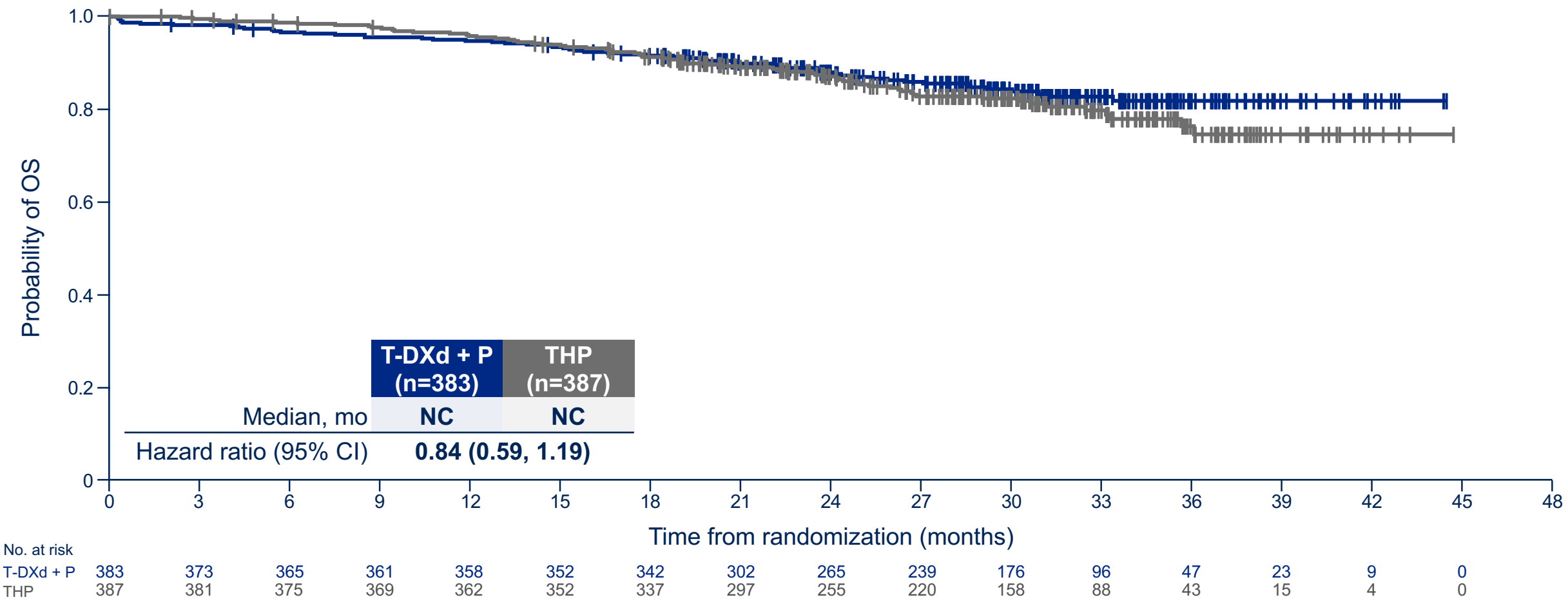


	T-DXd + P (n=383)	THP (n=387)
Median DOR, mo (95% CI)	39.2 (35.1, NC)	26.4 (22.3, NC)
Remaining in response at 24 mo (%)	73.3	54.9
Stable disease, n (%)	38 (9.9)	56 (14.5)

Response rates were greater with T-DXd + P vs THP and were durable

*Based on RECIST v1.1; response required confirmation after 4 weeks
BICR, blinded independent central review; CI, confidence interval; CR, complete response; DOR, duration of response; mo, months; NC, not calculable; ORR, objective response rate; P, pertuzumab; PR, partial response; RECIST, Response Evaluation Criteria in Solid Tumours; T-DXd, trastuzumab deruxtecan; THP, taxane + trastuzumab + pertuzumab

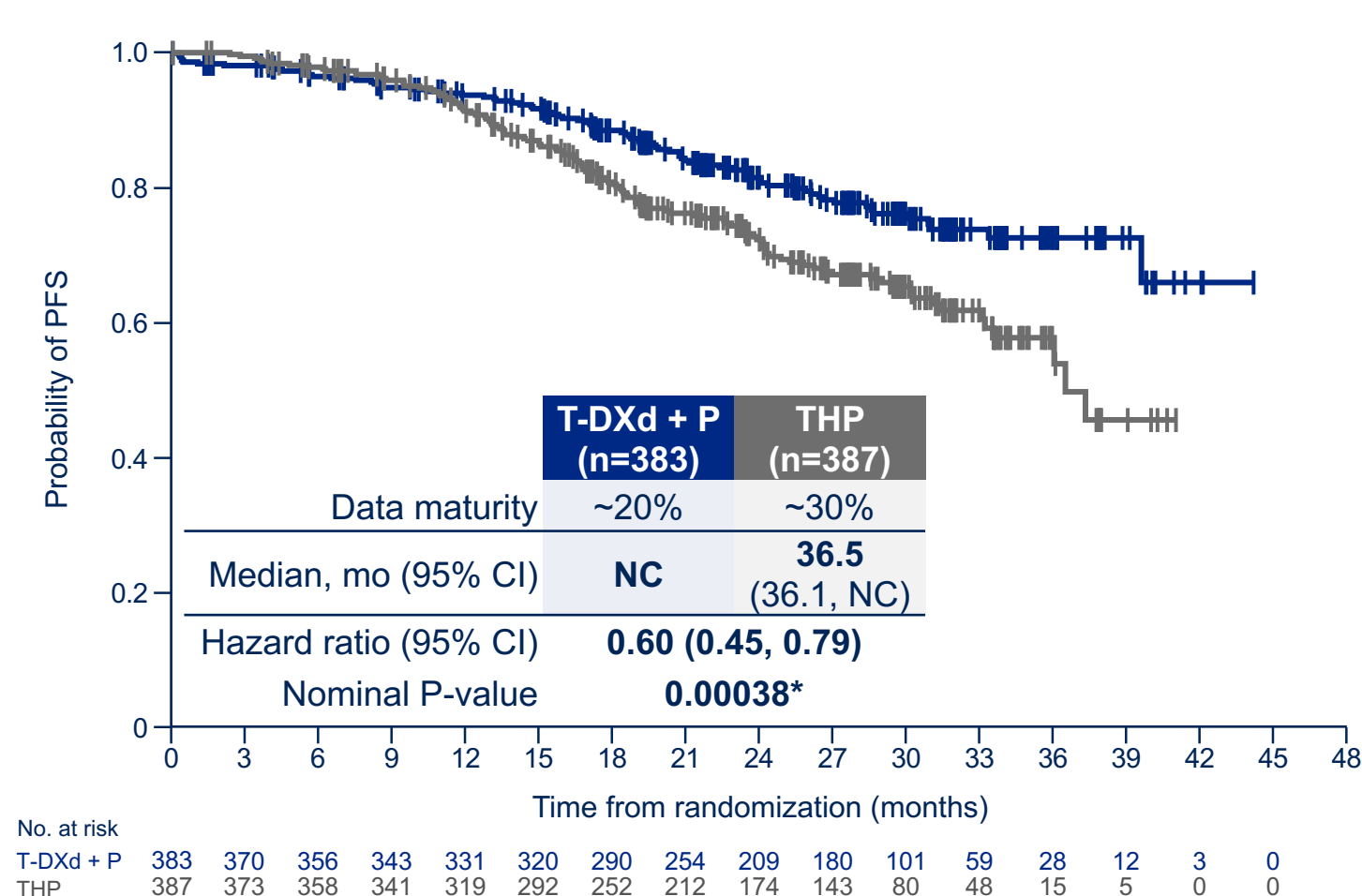
Overall survival (~16% maturity)



Early OS data suggest a positive trend favoring T-DXd + P over THP

CI, confidence interval; OS, overall survival; NC, not calculable; P, pertuzumab; T-DXd, trastuzumab deruxtecan; THP, taxane + trastuzumab + pertuzumab

PFS2 (investigator assessment) and post-trial treatments



	T-DXd + P (n=383)	THP (n=387)
Received post-discontinuation therapy in second line, n (%) [†]	124 (32.4)	181 (46.8)
Targeted therapy, n (%) [†]	111 (29.0)	166 (42.9)
T-DXd	6 (1.6)	39 (10.1)
T-DM1	7 (1.8)	47 (12.1)
Trastuzumab-containing regimen [‡]	78 (20.4)	51 (13.2)
Pertuzumab-containing regimen [‡]	53 (13.8)	34 (8.8)
Chemotherapy, n (%) [†]	68 (17.8)	57 (14.7)
Docetaxel	24 (6.3)	8 (2.1)
Paclitaxel	18 (4.7)	4 (1.0)
Capecitabine	24 (6.3)	35 (9.0)
Endocrine therapy, n (%) [†]	19 (5.0)	13 (3.4)

Clinically meaningful improvement in PFS2 with T-DXd + P vs THP

PFS2 was defined by investigators according to local standard clinical practice as the time from randomization to second progression (earliest progression event following first subsequent therapy) or death

*Stratified log-rank test; [†]percentages are based on the overall population. Therapies listed are not exhaustive. Patients may have received more than one type of therapy; [‡]patients may have received trastuzumab and pertuzumab concurrently
CI, confidence interval; NC, not calculable; P, pertuzumab; PFS2, second progression-free survival; T-DM1, trastuzumab emtansine; T-DXd, trastuzumab deruxtecan; THP, taxane + trastuzumab + pertuzumab

Adverse events of special interest

Adjudicated drug-related ILD/pneumonitis*

n (%)	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Any grade
T-DXd + P (n=381)	17 (4.5)	27 (7.1)	0	0	2 (0.5)	46 (12.1)
THP (n=382)	2 (0.5)	2 (0.5)	0	0	0	4 (1.0)

Left ventricular dysfunction†

n (%)	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Any grade
T-DXd + P (n=381)	4 (1.0)	30 (7.9)	7 (1.8)	1 (0.3)	0	42 (11.0)
THP (n=382)	1 (0.3)	19 (5.0)	7 (1.8)	0	0	27 (7.1)

Safety analysis set
 *Adjudicated drug-related ILD/pneumonitis (grouped term) includes: chronic obstructive pulmonary disease, interstitial lung disease, organizing pneumonia, pneumonia, and pneumonitis, †left ventricular dysfunction (grouped term) includes: potential heart failure, cardiac failure, cardiac failure chronic, ejection fraction decreased, left ventricular dysfunction, and right ventricular failure
 ILD, interstitial lung disease; P, pertuzumab; T-DXd, trastuzumab deruxtecan; THP, taxane + trastuzumab + pertuzumab

Incidence Increases by Line of Therapy

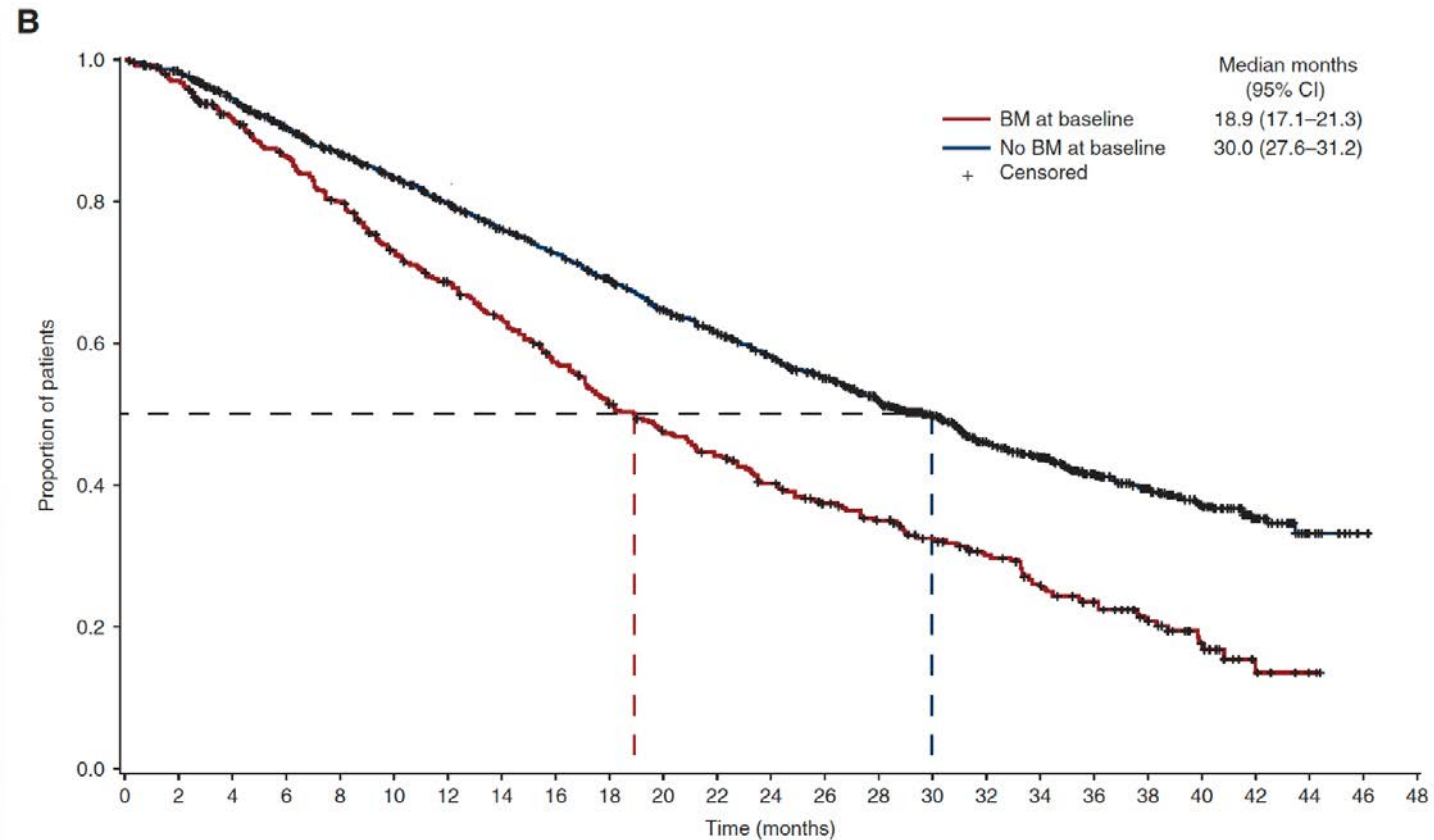
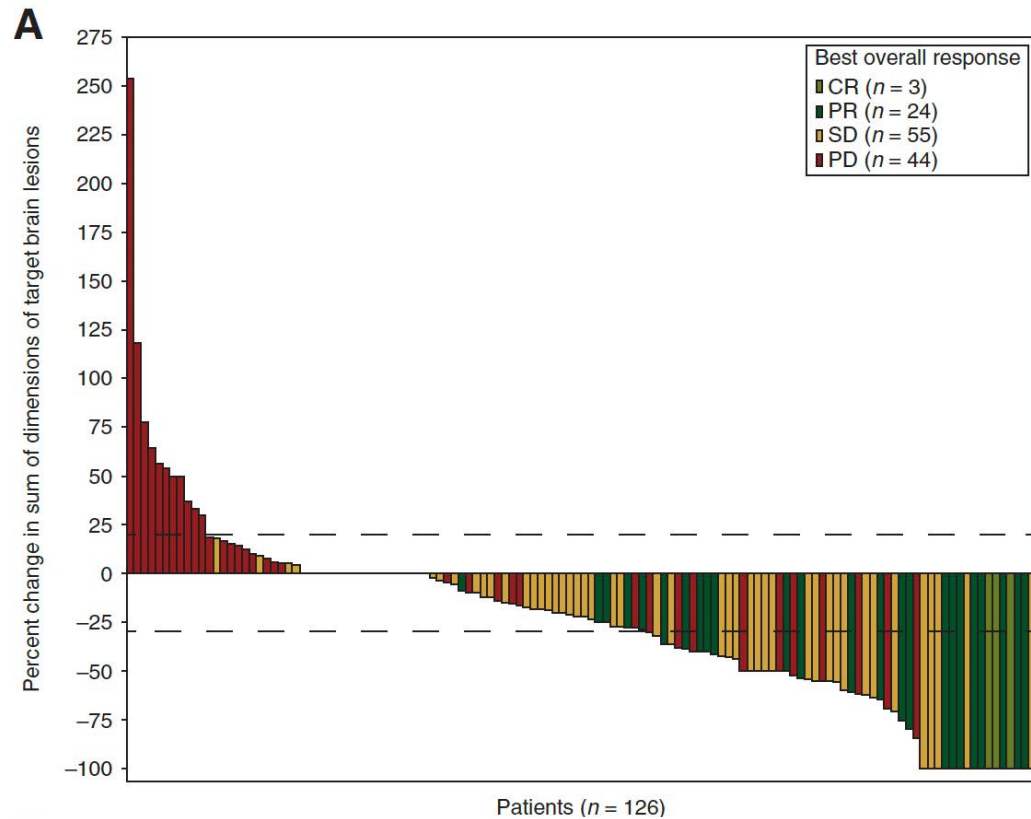
Using longitudinal US Flatiron Health de-identified database, 16063 MBC pts. 1955 with BM by index date

Line of therapy	HR+, HER2- positive	HR-, HER2- positive	HR+, HER2- [HR+, HER2-low]	TNBC [HR-, HER2-low]
Prevalence of BM, %				
1	193 (6.3)	101 (11.2)	134 (2.5) [199 (2.8)]	109 (10.3) [88 (12.1)]
2	341 (17.6)	149 (31.2)	150 (4.4) [275 (5.8)]	97 (17.6) [73 (17.3)]
3	265 (21.5)	102 (36.3)	125 (6.7) [231 (7.4)]	63 (22.0) [50 (20.8)]
4	199 (26.1)	59 (37.1)	104 (7.2) [189 (9.4)]	38 (24.7) [36 (27.9)]
5+	120 (26.5)	38 (36.9)	78 (8.5)	23 (32.4)

Generally, Incidence Increases Over Time; early event in ER-, HER2+

T-DM1: First ADC to show HER2+ Brain Metastases Activity, KAMILLA

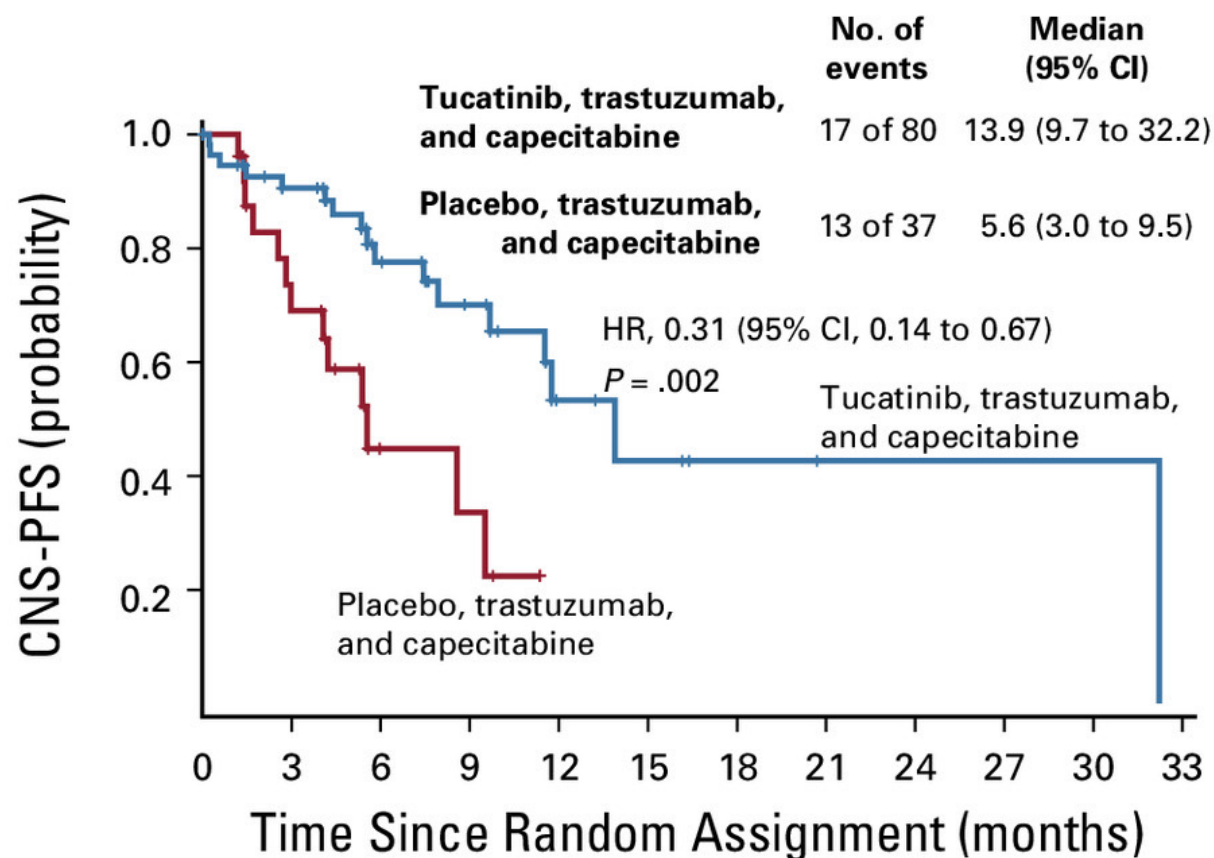
Phase IIIB, 2002 pts treated T-DM1, 398 had baseline BM, 126 patients with measurable BM.



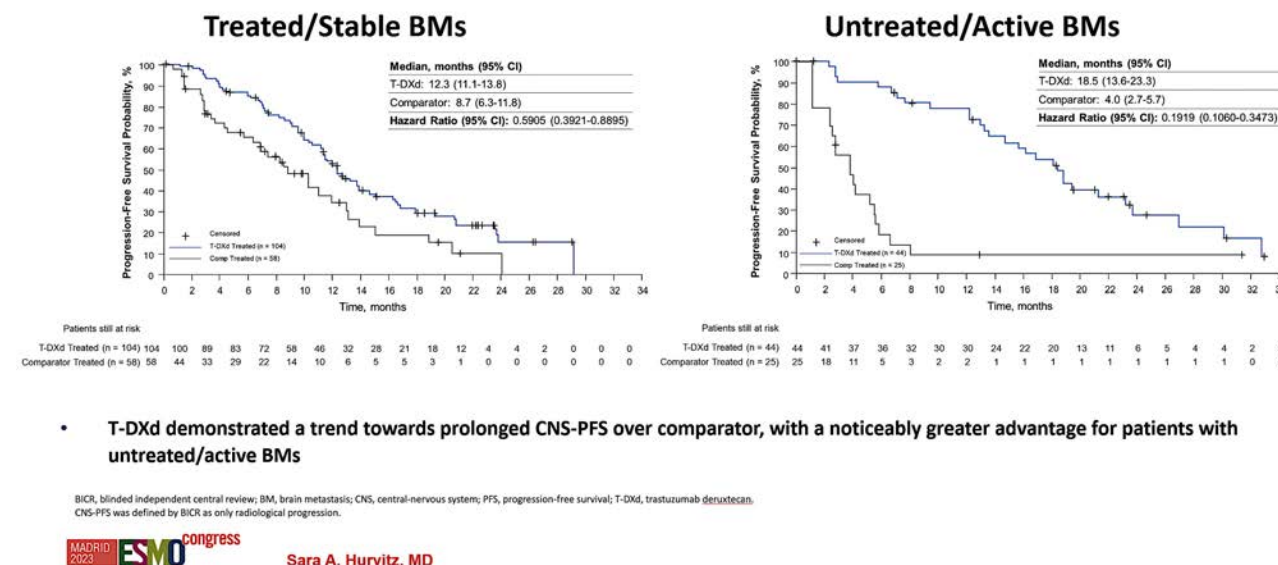
Intracranial ORR: 21%
mPFS 5.5m
mOS 19m

} Pts with baseline brain mets

Tucatinib and T-DXd prolongs CNS-PFS in HER2+ Stable and Active BMs



DESTINY-Breast01, -02, and -03

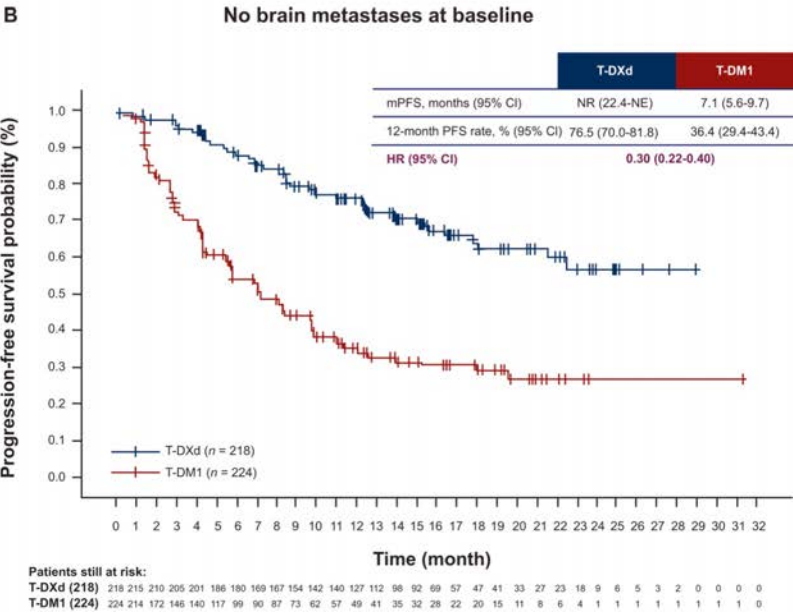
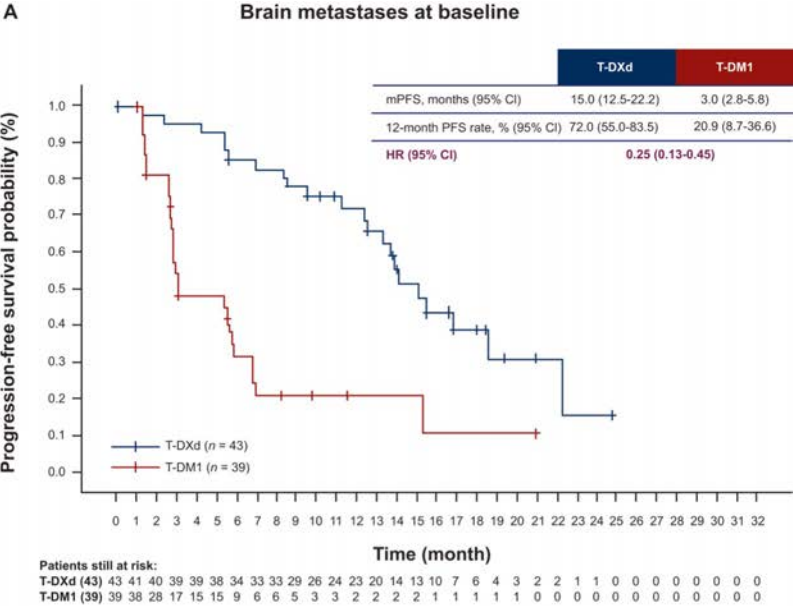


CNS-PFS: time from randomization to disease progression in the brain or death by investigator assessment

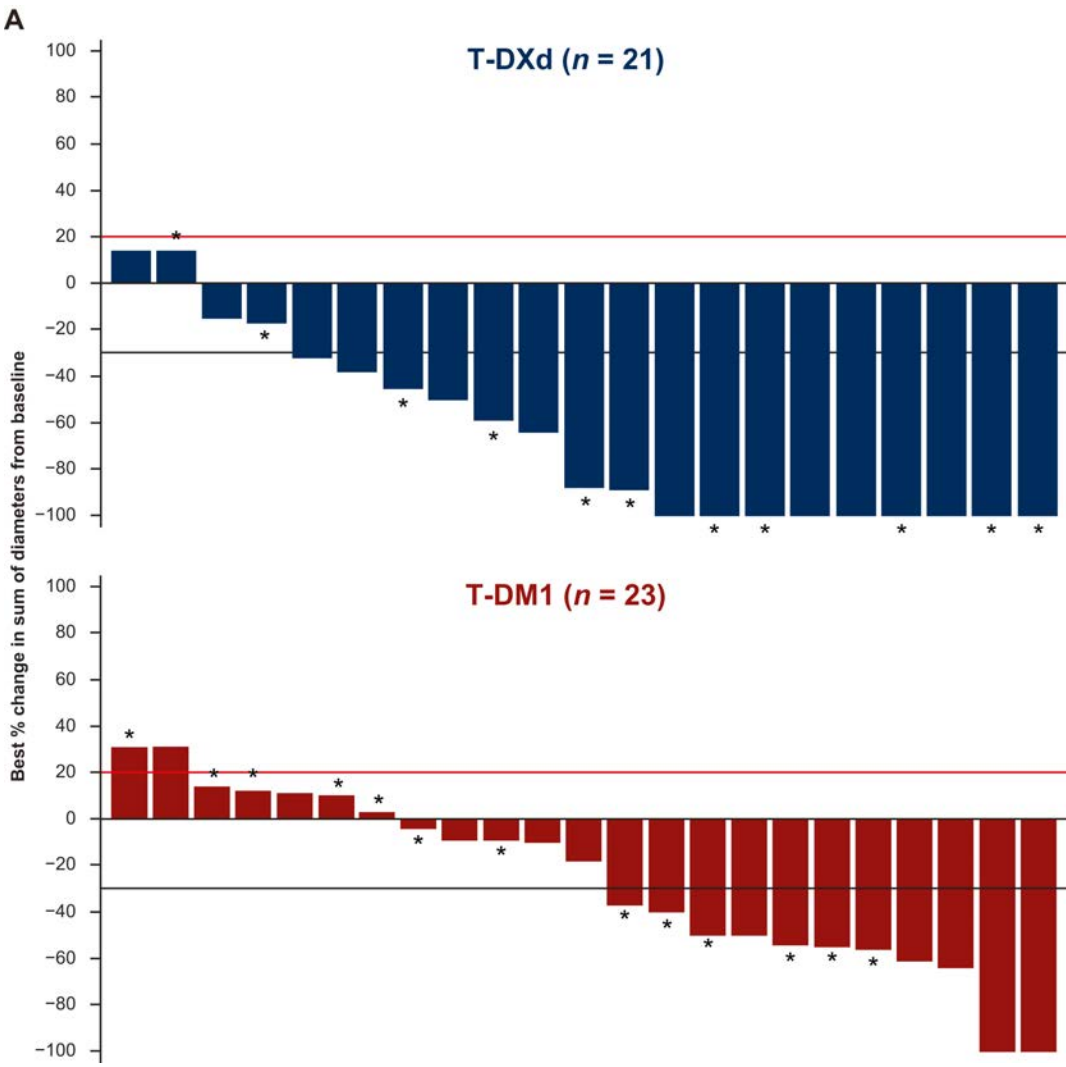
Lin NU et al. J Clin Oncol. 2020 Aug 10;38(23):2610-2619.

Hurvitz SA et al. ESMO 2023;Abstract 3770

DB-03: T-DXd > T-DM1 Stable and Active BrMs



iORR 65.7% with T-DXd versus 34.3% with T-DM1

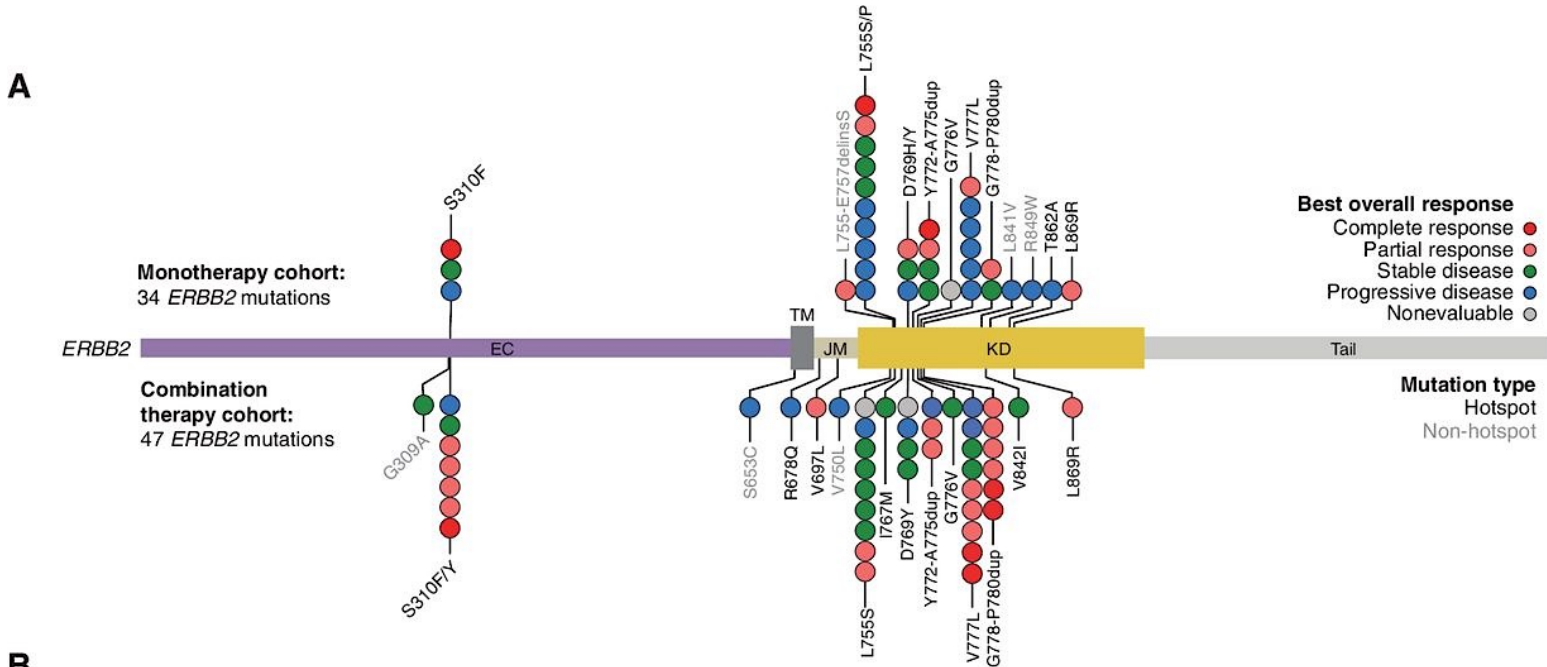


HER2 Mutations in Breast Cancer

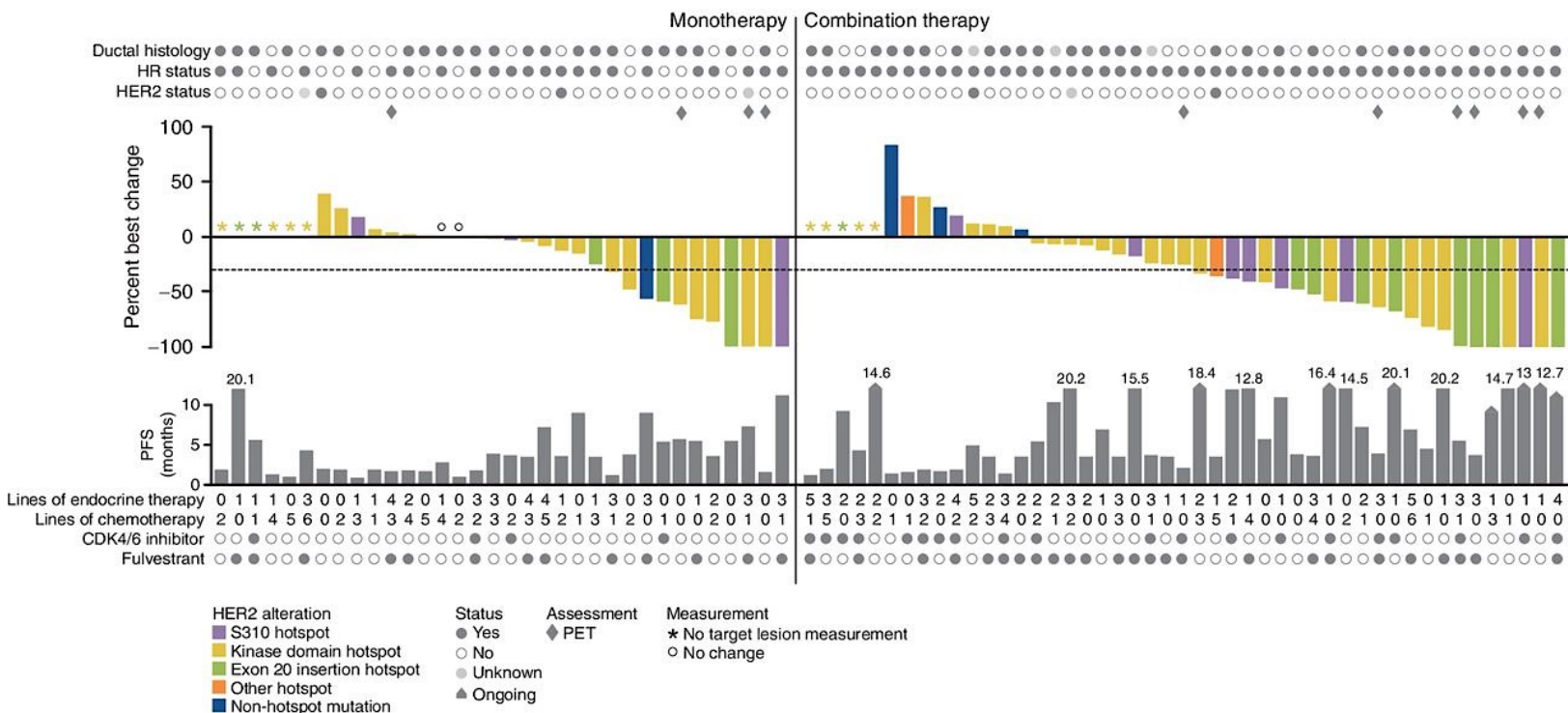
- Prevalence: 2% overall; 3 to 5% of ER positive MBC; 5-8% of mILC

From: **Efficacy and Determinants of Response to HER Kinase Inhibition in HER2-Mutant Metastatic Breast Cancer**

A



B



HER2 Mutations in Breast Cancer

- Prevalence: 2% overall; 3 to 5% of ER positive MBC; 5-8% of mILC
- Treatment outcomes with TKIs

Table 2. Treatment efficacy

	Neratinib monotherapy		
Response	ER ⁺	ER ⁻	Neratinib + fulvestrant
All patients (intent to treat) ^a	(n = 23)	(n = 11)	(n = 47)
Confirmed overall objective response, ^b n (%)	4 (17.4)	4 (36.4)	14 (29.8)
Complete response	2 (8.7)	1 (9.1)	4 (8.5)
Partial response	2 (8.7)	3 (27.3)	10 (21.3)
Overall objective response rate (95% CI)	17.4 (5.0–38.8)	36.4 (10.9–69.2)	29.8 (17.3–44.9)
CBR, ^c % (95% CI)	30.4 (13.2–52.9)	36.4 (10.9–69.2)	46.8 (32.1–61.9)
Time to event (months), median (95% CI)			
PFS	3.6 (1.8–4.3)	2.0 (1–5.5)	5.4 (3.7–9.2)

HER2 Mutations in Breast Cancer

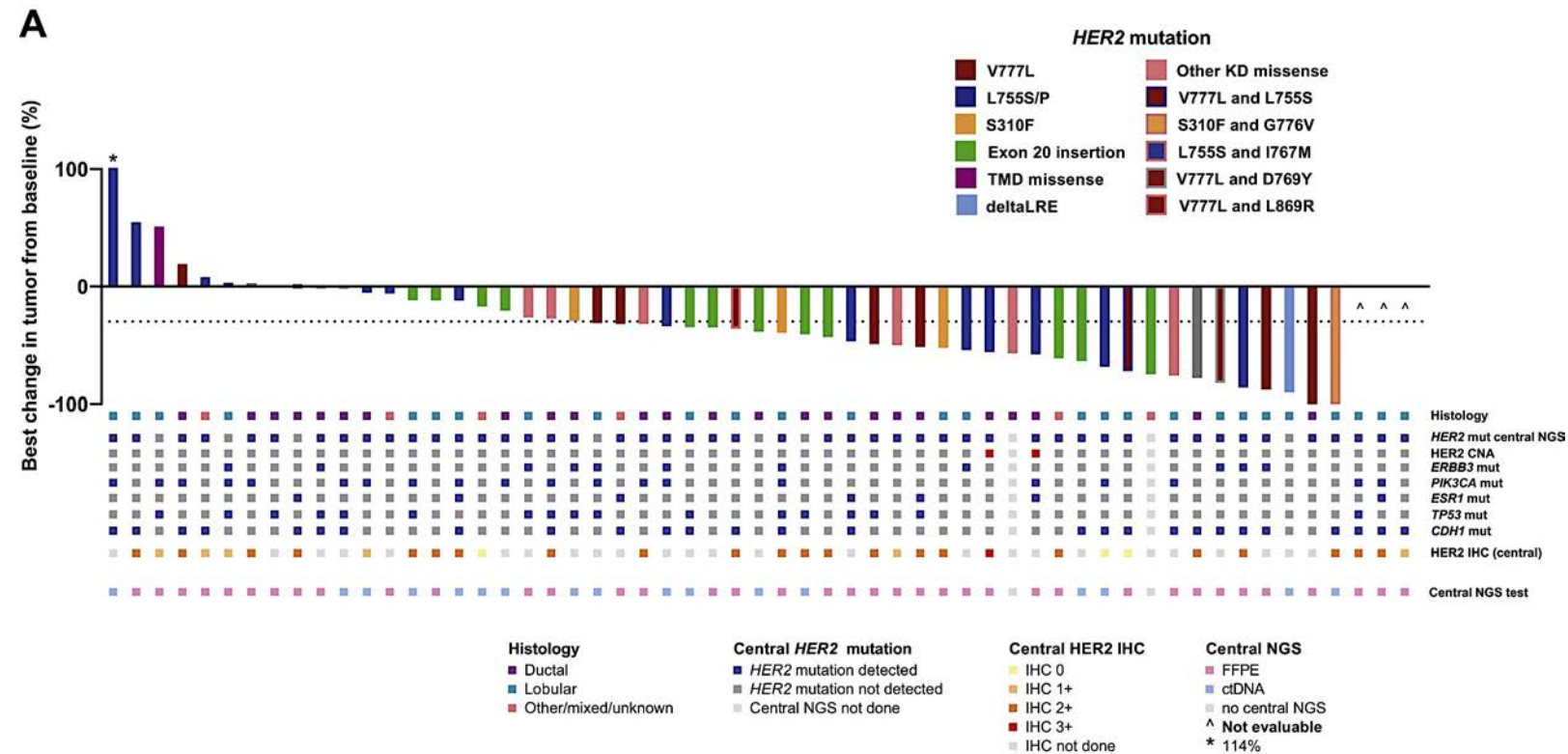
- Prevalence: 2% overall; 3 to 5% of ER positive MBC; 5-8% of mILC
- Treatment outcomes with TKIs

Neratinib + fulvestrant + trastuzumab

N = 57

ORR = 39%

Median PFS = 8.3 m



SUMMIT Trial

Jhaveri K, et al. Ann Oncol 2023

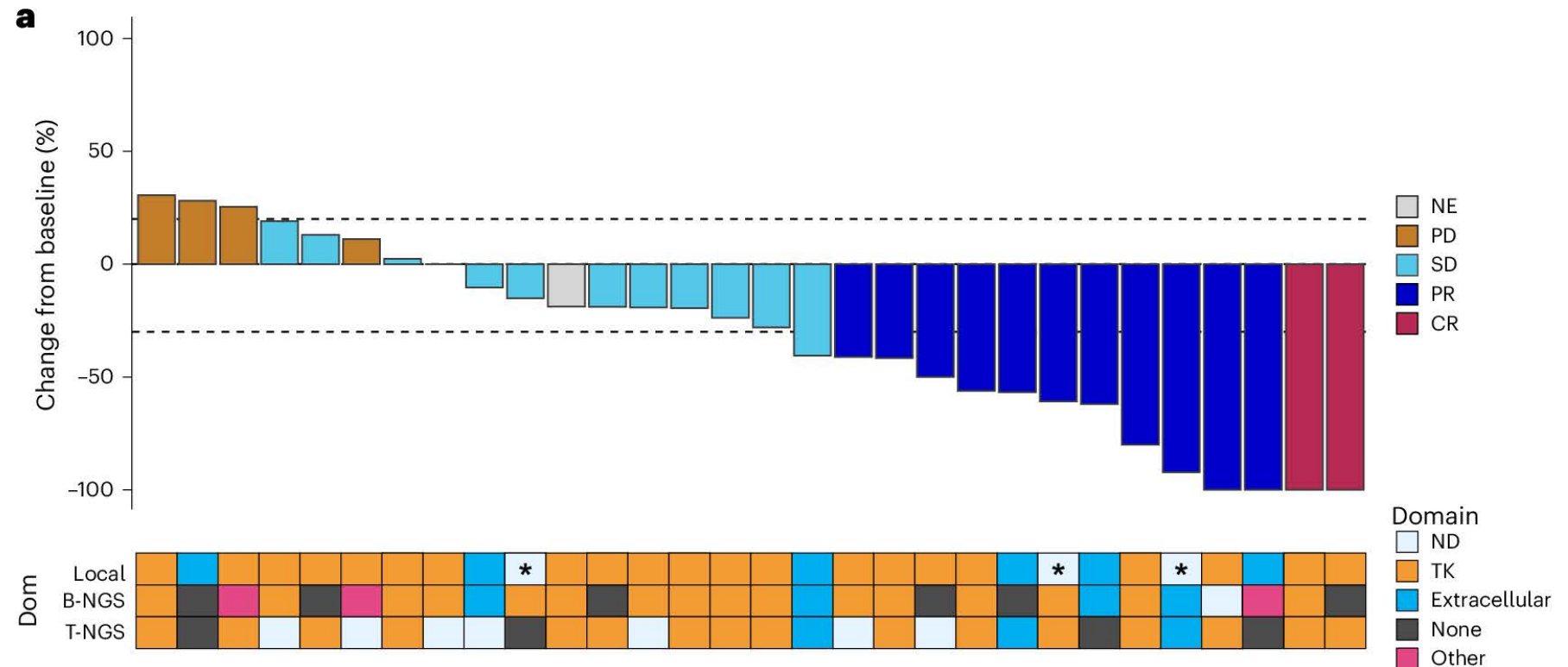
HER2 Mutations in Breast Cancer

- Prevalence: 2% overall; 3 to 5% of ER positive MBC; 5-8% of mILC
- Treatment outcomes with TKIs

Tucatinib + trastuzumab in HER2 mutated breast cancer

N = 31

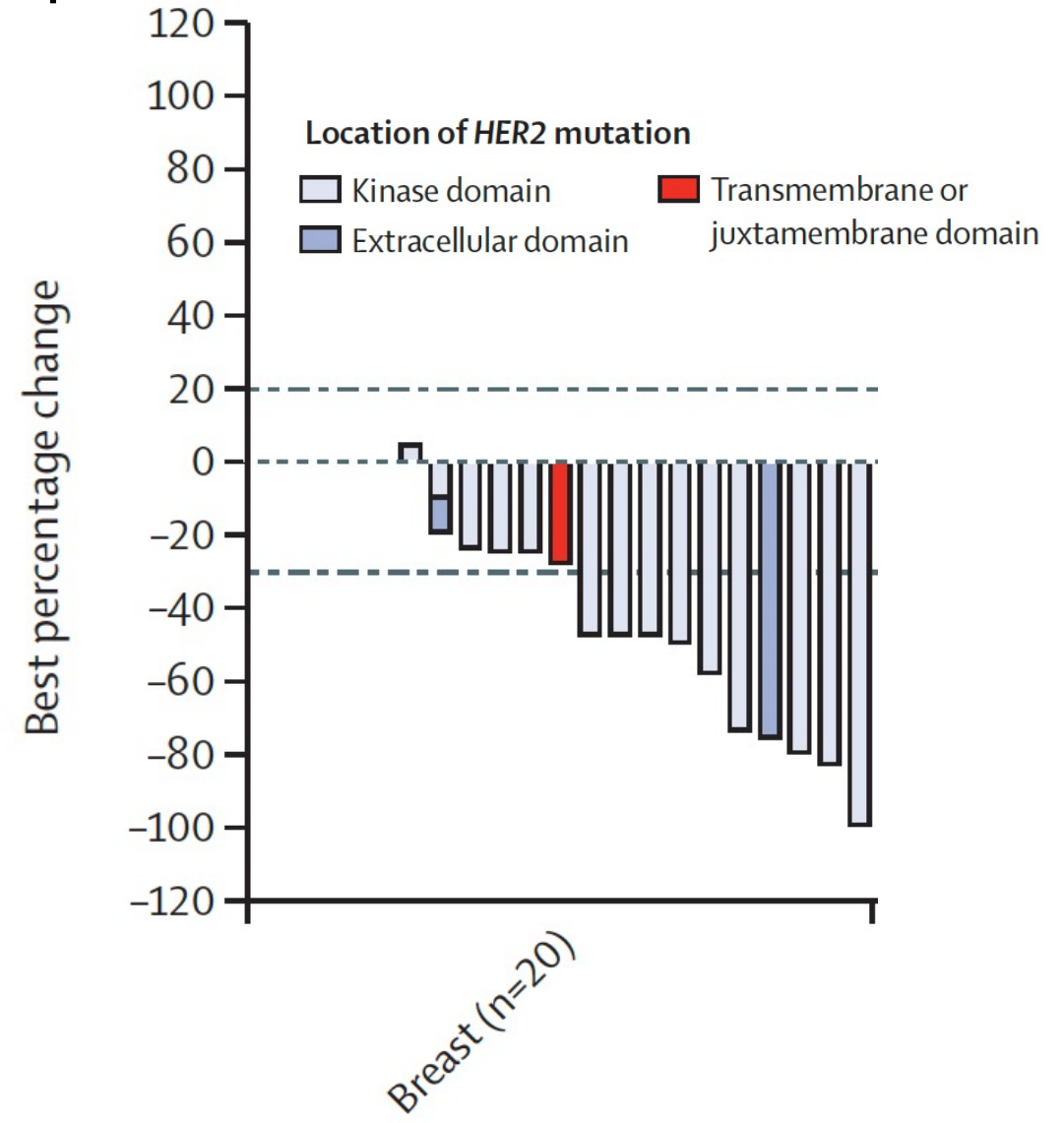
ORR = 42%



HER2 Mutations in Breast Cancer

- Prevalence: 2% overall; 3 to 5% of ER positive MBC: 5-8% of mILC
- Treatment outcomes with T-DXd

Breast cancer cohort
N = 20
ORR = 50%



Data + Perspectives: Clinical Investigators Explore the Application of Recent Datasets in Current Oncology Care

CME/MOC, NCPD and ACPE Accredited

**Saturday, October 11, 2025
7:15 AM – 12:30 PM ET**

DESTINY-Breast11: Neoadjuvant Trastuzumab Deruxtecan Alone (T-DXd) or Followed by Paclitaxel + Trastuzumab + Pertuzumab (T-DXd-THP) vs SOC for High-Risk HER2+ Early Breast Cancer (eBC)

Harbeck NA et al.

ESMO 2025;Abstract 2910.

PRESIDENTIAL SYMPOSIUM I | SATURDAY, OCTOBER 18 | 16:30 CEST

Trastuzumab Deruxtecan (T-DXd) vs Trastuzumab Emtansine (T-DM1) in Patients (pts) with High-Risk Human Epidermal Growth Factor Receptor 2–Positive (HER2+) Primary Breast Cancer (BC) with Residual Invasive Disease After Neoadjuvant Therapy (tx): Interim Analysis of DESTINY-Breast05

Geyer CE et al.

ESMO 2025;Abstract LBA1.

PRESIDENTIAL SYMPOSIUM I | SATURDAY, OCTOBER 18 | 16:52 CEST

Questions from General Medical Oncologists

- **What is your current approach to first-line treatment for HER2-positive mBC?**
- **For patients with HER2-positive mBC receiving first-line T-DXd/pertuzumab, how should we approach:**
 - **Duration of T-DXd?**
 - **HER2 maintenance?**
 - **Maintenance therapy for HR-positive patients? CDKi?**

Questions from General Medical Oncologists

- **Neoadjuvant versus postadjuvant T-DXd — which is better?**
- **Should we be attempting to access T-DXd for our patients who undergo neoadjuvant therapy and are found to have residual disease at surgery?**

Questions from General Medical Oncologists

- **What is the current role of neratinib in the postadjuvant setting? How may the earlier use of T-DXd impact your enthusiasm for this approach?**
- **Which subset of patients benefit the most from postadjuvant neratinib?**
- **How do people approach dosing with this agent?**

Questions from General Medical Oncologists

- Which is better for CNS disease — tucatinib/trastuzumab/capecitabine or T-DXd?
- How do you sequence HER2-targeted agents for patients with brain metastases?

Questions from General Medical Oncologists

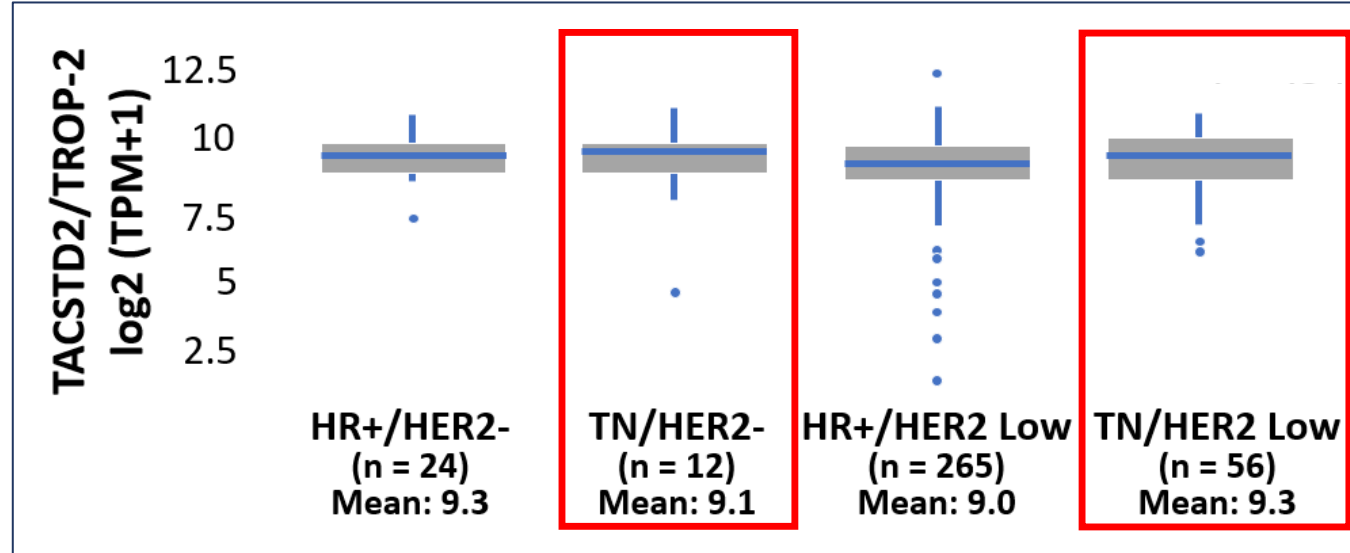
- **What is your clinical approach for patients with HER2-mutated mBC in the absence of HER2 amplification?**
- **Is either T-DXd or neratinib effective in HER2-mutant mBC?**

ADC Treatment Approaches for TNBC

Heather McArthur, MD, MPH, FASCO
Professor, Department of Internal Medicine
Director, Breast Cancer
Komen Distinguished Chair in Clinical Breast Cancer Research
UT Southwestern, Dallas, TX
Heather.McArthur@utsouthwestern.edu
 [@hmcarthur](https://twitter.com/hmcarthur)

TROP-2 as a Therapeutic Target

- Targeting broadly expressed markers allows for the selective delivery of potent agents
- TROP-2 is a pan-epithelial cancer antigen
 - Overexpressed in all breast cancer subtypes
 - Less expression on normal tissues
 - Excellent target for ADC
 - Marker of poor prognosis: larger tumor size, higher risk of recurrence
 - High TROP-2 levels: aggressive tumor, resistance to chemotherapy



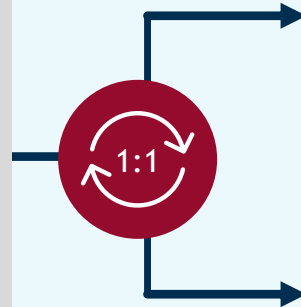
TROP2-directed ADCs

	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: A Phase 3 Confirmatory Study of Sacituzumab Govitecan in 2L and Later mTNBC^{1-3*}

Metastatic TNBC

- ≥2 chemotherapies – one of which could be in neo/adjuvant setting provided progression occurred within a 12-month period
- Patients with stable brain metastases were allowed (N=529)



Sacituzumab govitecan
10 mg/kg IV
days 1 and 8, every 21 days
(n=267)

**Treatment of
physician's choice†**(n=262)

Stratification Factors

- Number of prior chemotherapies (2 or 3 vs >3)
- Geographic region (North America vs Europe)
- Presence/absence of known brain metastases (Yes/No)

**Continue
treatment until
progression or
unacceptable
toxicity**

Endpoints

Primary

- PFS[‡]

Secondary

- PFS for the ITT population,[§] OS, ORR, DOR, TTR, QoL, safety

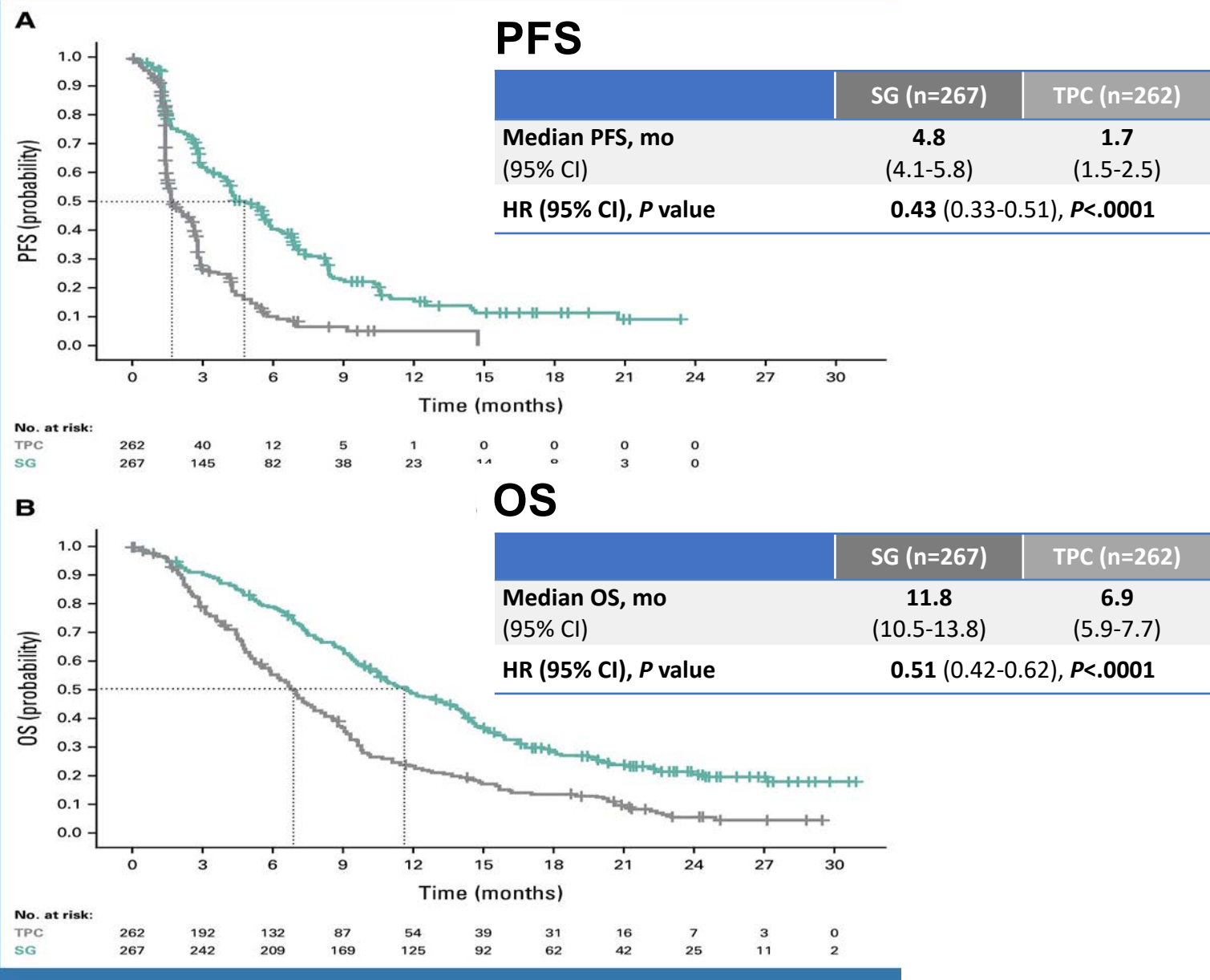
NCT02574455

*ASCENT was an international, Phase 3, multicentre, open-label, randomised trial of patients with unresectable locally advanced or metastatic TNBC (N=529). †Treatment of physician's choice: eribulin, vinorelbine, gemcitabine, or capecitabine; ‡PFS measured by an independent centralised and blinded group of radiology experts who assessed tumour response using RECIST 1.1 criteria in patients without brain metastasis; §The full population or intention-to-treat population includes all randomised patients (with and without brain metastases).

DOR, duration of response; IV, intravenous; ITT, intention-to-treat; mTNBC, metastatic triple-negative breast cancer; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; RECIST, Response Evaluation Criteria In Solid Tumours; TNBC, triple-negative breast cancer; TTR, time to response; QoL, quality of life.

1. Bardia A, et al. *N Engl J Med*. 2021;384(16):1529-1541; 2. Bardia A, et al. ESMO 2020. Abstract LBA17; 3. ClinicalTrials.gov website. Available at: <https://clinicaltrials.gov/ct2/show/NCT02574455>. Accessed March 2022.

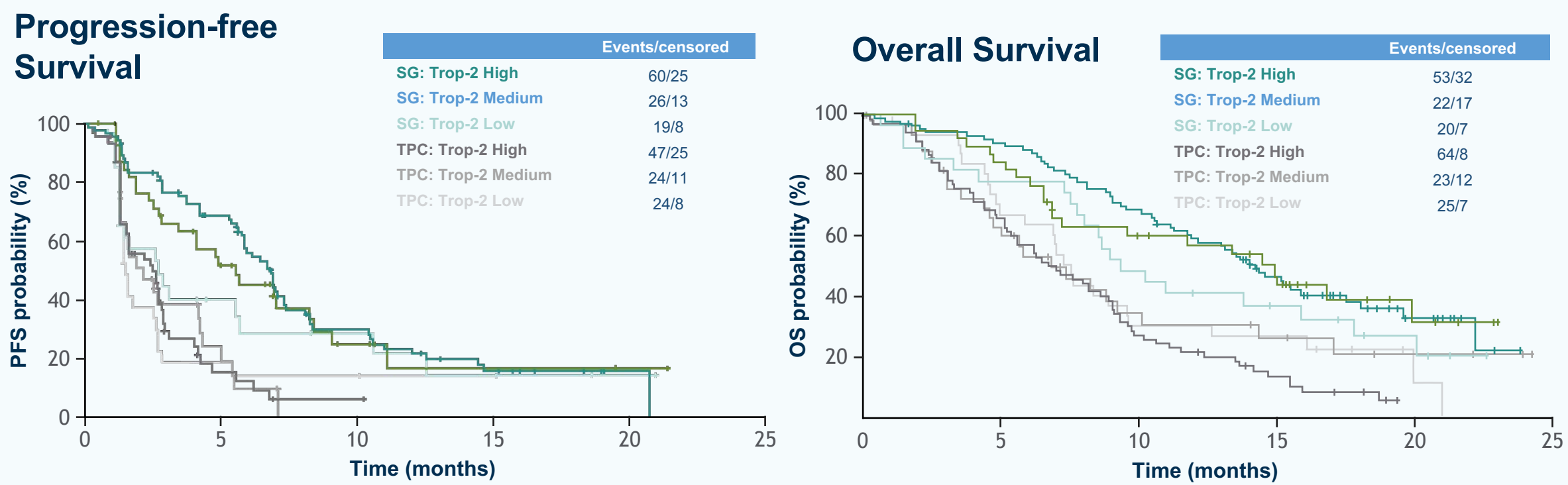
ASCENT: PFS and OS in the ITT Population



HR, hazard ratio; ITT, intent-to-treat; OS, overall survival; PFS, progression-free survival; SG, sacituzumab govitecan; TPC, treatment of physician's choice.

Bardia A et al. *N Engl J Med*. 2021;384(16):1529-1541.
Bardia A et al. *J Clin Oncol*. 2024;42(15):1738-1744.

Clinical Benefit with SG vs TPC is Irrespective of Level of Trop-2 Expression, in Previously Treated mTNBC

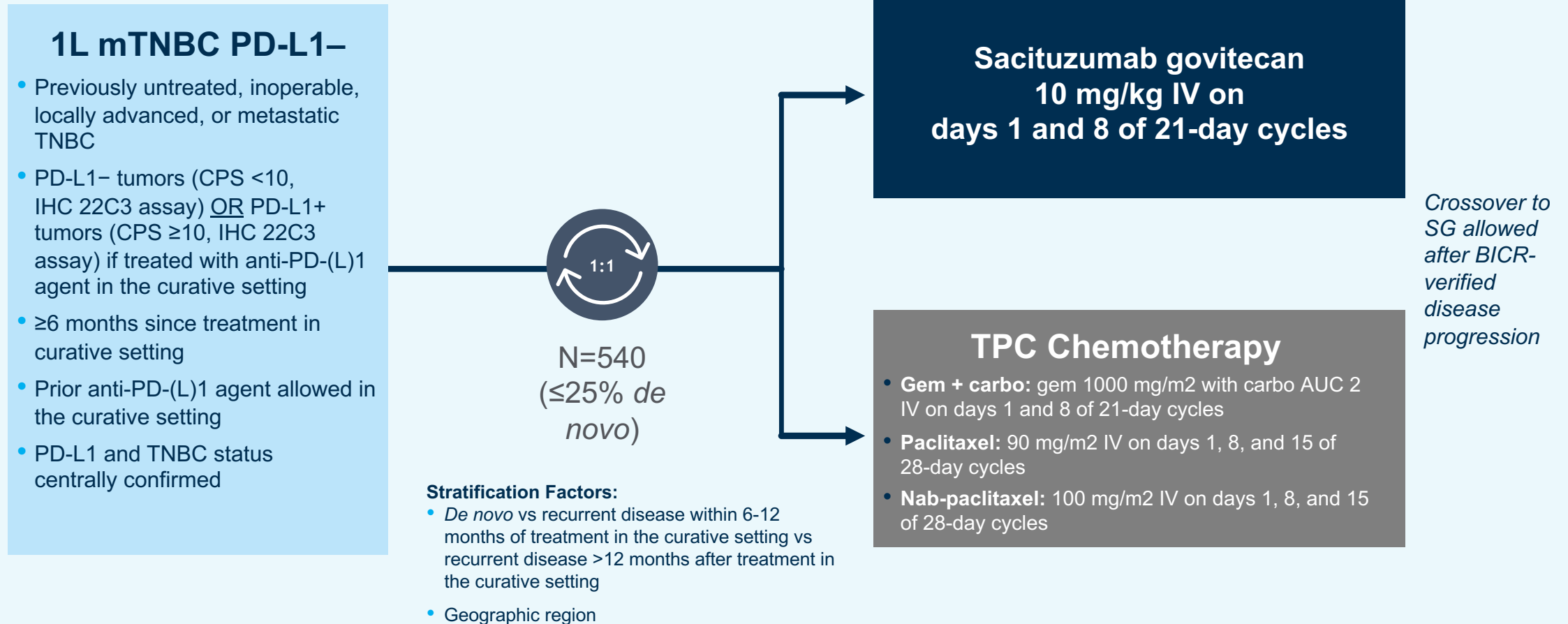


	Trop-2 High; H-score: 200–300		Trop-2 Medium; H-score: 100–200		Trop-2 Low; H-score: <100	
	SG (n=85)	TPC (n=72)	SG (n=39)	TPC (n=35)	SG (n=27)	TPC (n=32)
Median PFS, mo (95% CI)	6.9 (5.8–7.4)	2.5 (1.5–2.9)	5.6 (2.9–8.2)	2.2 (1.4–4.3)	2.7 (1.4–5.8)	1.6 (1.4–2.7)
Median OS, mo (95% CI)	14.2 (11.3–17.5)	6.9 (5.3–8.9)	14.9 (6.9–NE)	6.9 (4.6–10.1)	9.3 (7.5–17.8)	7.6 (5.0–9.6)

Assessed in brain-metastases-negative population. Trop-2 expression determined in archival samples by validated immunohistochemistry assay and H-scoring. H-score, histochemical score; NE, not estimable; OS, overall survival; PFS, progression-free survival; SG, sacituzumab govitecan; TPC, treatment of physician's choice; Trop-2, trophoblast cell surface antigen-2.
1. Hurvitz SA, et al. Oral presentation. SABCS [Virtual meeting] 2020. (Abstract GS3-06).

ASCENT-03:

Sacituzumab govitecan vs TPC in 1L PD-L1– mTNBC



ASCENT-03:

Sacituzumab govitecan vs TPC in 1L PD-L1– mTNBC

1L mTNBC PD-L1–

Sacituzumab govitecan

May 23, 2025: The study met its primary endpoint, demonstrating a highly statistically significant and clinically meaningful improvement in PFS compared to chemo in patients with 1st line mTNBC who are not candidates for PD-1/PD-L1 inhibitors

centrally confirmed

Stratification Factors:

- *De novo* vs recurrent disease within 6-12 months of treatment in the curative setting vs recurrent disease >12 months after treatment in the curative setting

28-day cycles

- Nab-paclitaxel: 100 mg/m² IV on days 1, 8, and 15 of 28-day cycles

ESMO 2025: LBA20 - Primary Results From ASCENT-03 (Cortes et al):

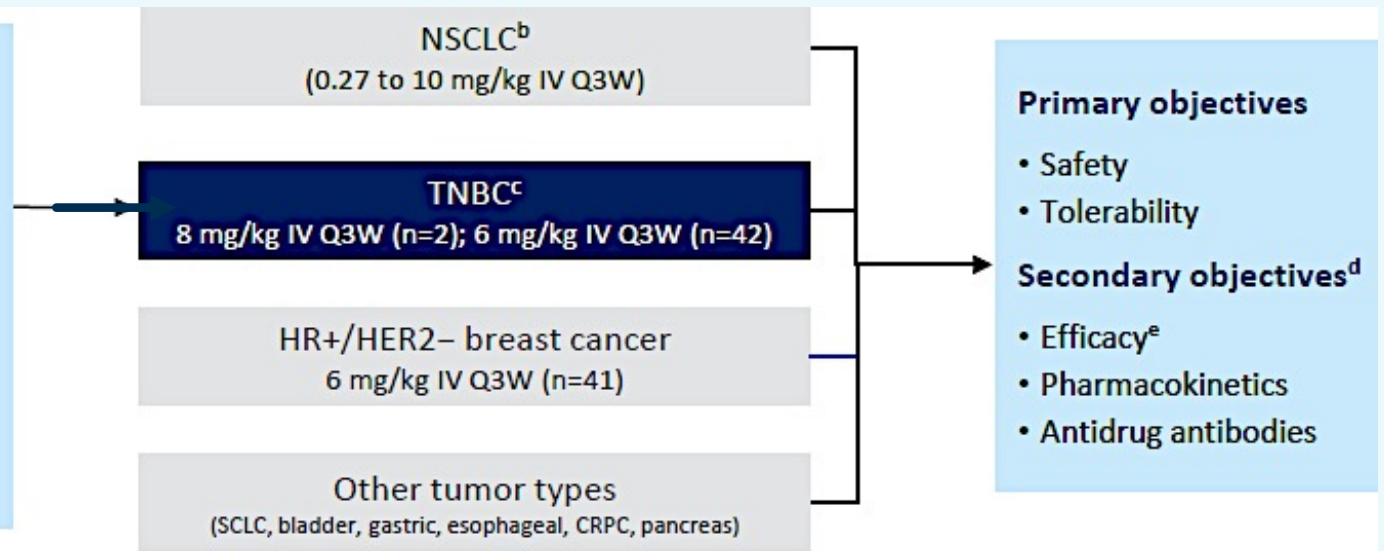
A Randomized Phase 3 Study of Sacituzumab Govitecan (SG) vs Chemotherapy (Chemo) in Patients (pts) With Previously Untreated Advanced Triple-Negative Breast Cancer (TNBC) Who Are Unable to Receive PD-(L)1 Inhibitors (PD-[L]1i)

Dato-DXd in Advanced TNBC

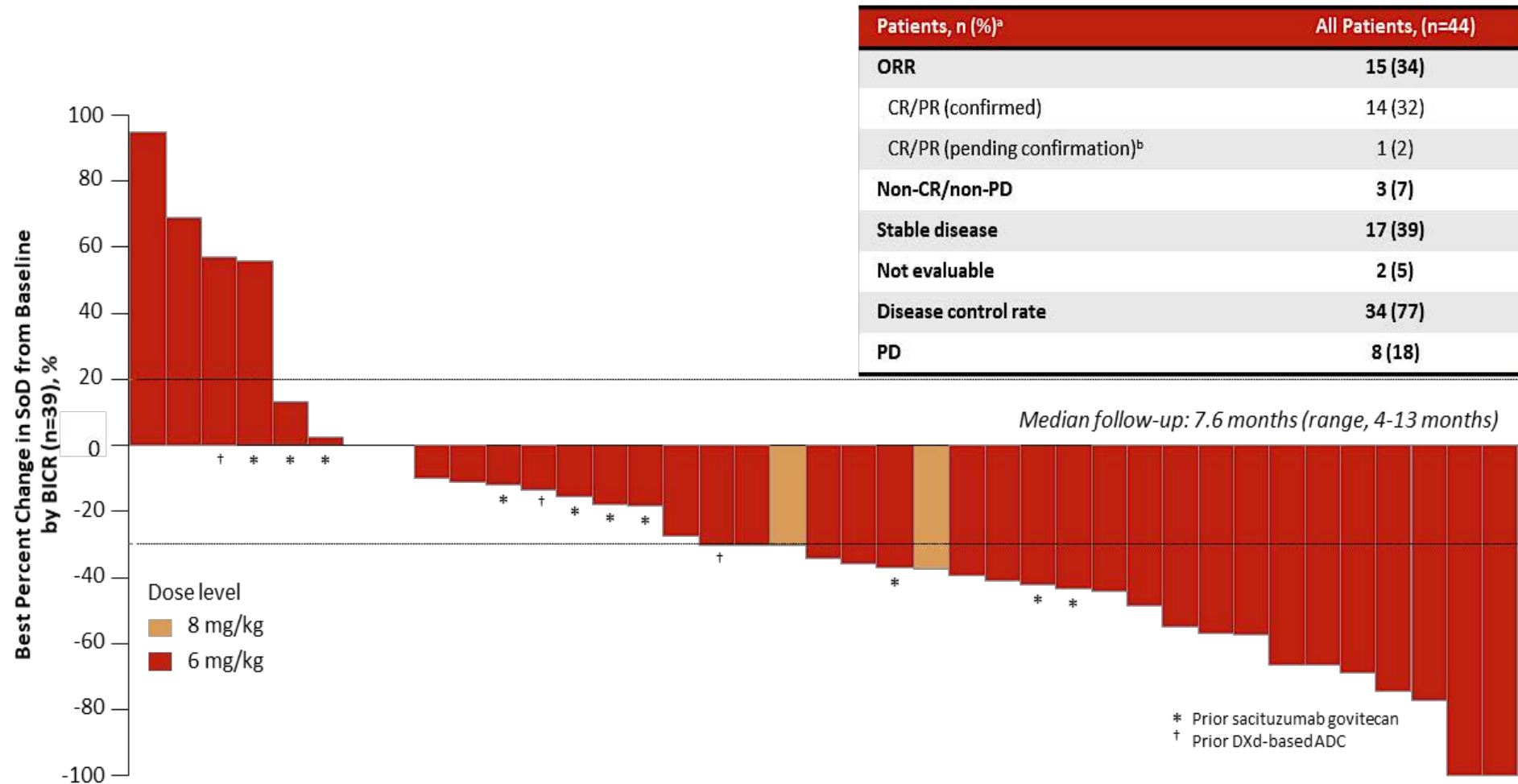
TROPION-PanTumor01 Study

Study Design

- Advanced/unresectable or metastatic HR–/HER2– (IHC 0/1+ or IHC2+/ISH–) breast cancer
- Relapsed or progressed after local standard treatments
- Unselected for TROP2 expression^a
- Age ≥18 years (US) or ≥20 years (Japan)
- ECOG PS 0-1
- Measurable disease per RECIST 1.1
- Stable, treated brain metastases allowed



TROPION PanTumor-01: Responses observed with Dato-DXd after other ADC exposure



Responses seen with Dato-DXd (Trop-2 targeting ADC) **after**

- Sacituzumab govitecan (same antigen/different payload)
- T-DXd (different antigen/same payload)

Ongoing Phase 3 Clinical Trials with Dato-DXd in 1L

TROPION-Breast02¹

Key Eligibility Criteria:

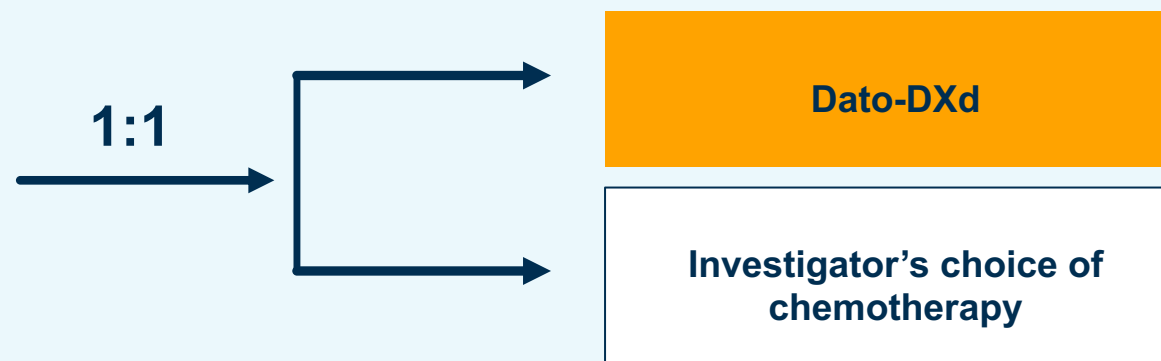
- Locally recurrent inoperable or metastatic TNBC
- No prior chemotherapy or targeted systemic therapy for metastatic breast cancer
- Not a candidate for PD-1/PDL1 inhibitor therapy
- Measurable disease as defined by RECIST v1.1
- ECOG PS 0 or 1
- Adequate hematologic and end-organ function

Stratification Factors:

- Geographic location
- DFI (de novo vs DFI $\leq$ 12 months vs DFI >12 months)

Dual Primary Endpoint:
PFS (BICR) and OS

Secondary Endpoints:
PFS (inv), ORR, DoR, Safety



- 1st line therapy for TNBC
- PD-L1 negative

Ongoing Phase 3 Clinical Trials with Dato-DXd in 1L

TROPION-Breast02¹

Key Eligibility Criteria:

- Locally recurrent inoperable or metastatic TNBC

Stratification Factors:

- Geographic location
- DFI (de novo vs DFI $\leq$ 12 months vs DFI $>$ 12 months)

Dual Primary Endpoint:
PFS (BICR) and OS

Secondary Endpoints:
PFS (inv), ORR, DoR, Safety

Oct 6, 2025: Positive high-level results from the TROPION-Breast02 Phase III trial showed datopotamab deruxtecan demonstrated a statistically significant and clinically meaningful improvement for the **dual primary endpoints of OS and PFS** compared to TPC as 1st-line treatment for patients with locally recurrent inoperable or mTNBC for whom IO was not an option

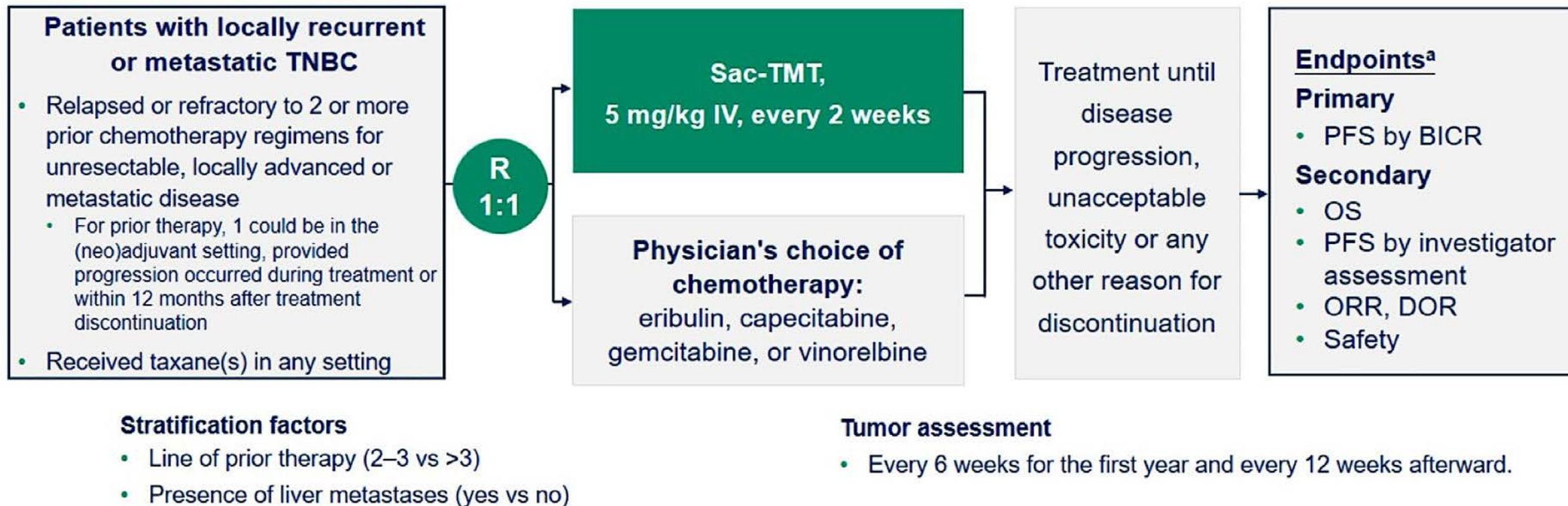
- ECOG PS 0 or 1

Chemotherapy

ESMO 2025: LBA21 - Primary Results From TROPION-Breast02 (Dent et al):

First-Line (1L) Datopotamab Deruxtecan (Dato-DXd) vs Chemotherapy in Patients with Locally Recurrent Inoperable or Metastatic Triple-Negative Breast Cancer (mTNBC) for Whom Immunotherapy Was Not an Option: Primary Results from the Randomised, Phase 3 TROPION-Breast02 Trial

OptiTROP-Breast01: Randomized, Controlled, Open-Label Phase III Study (NCT05347134)

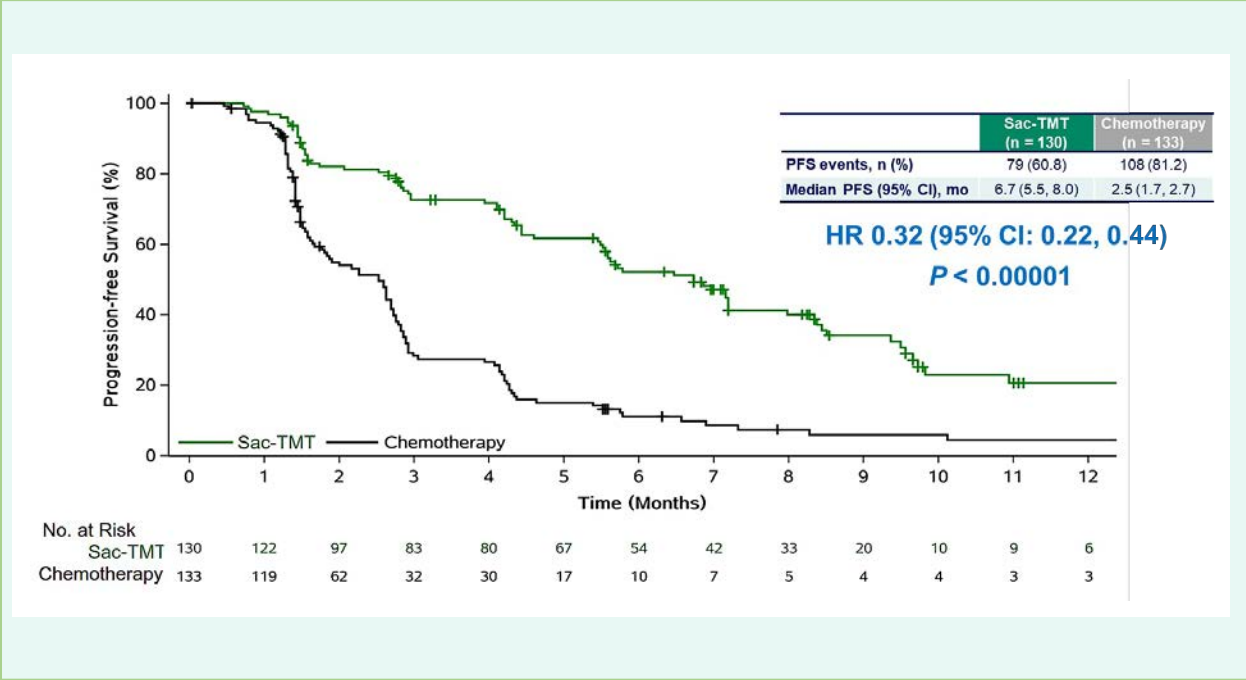


^aTumor response was assessed using RECIST version 1.1.

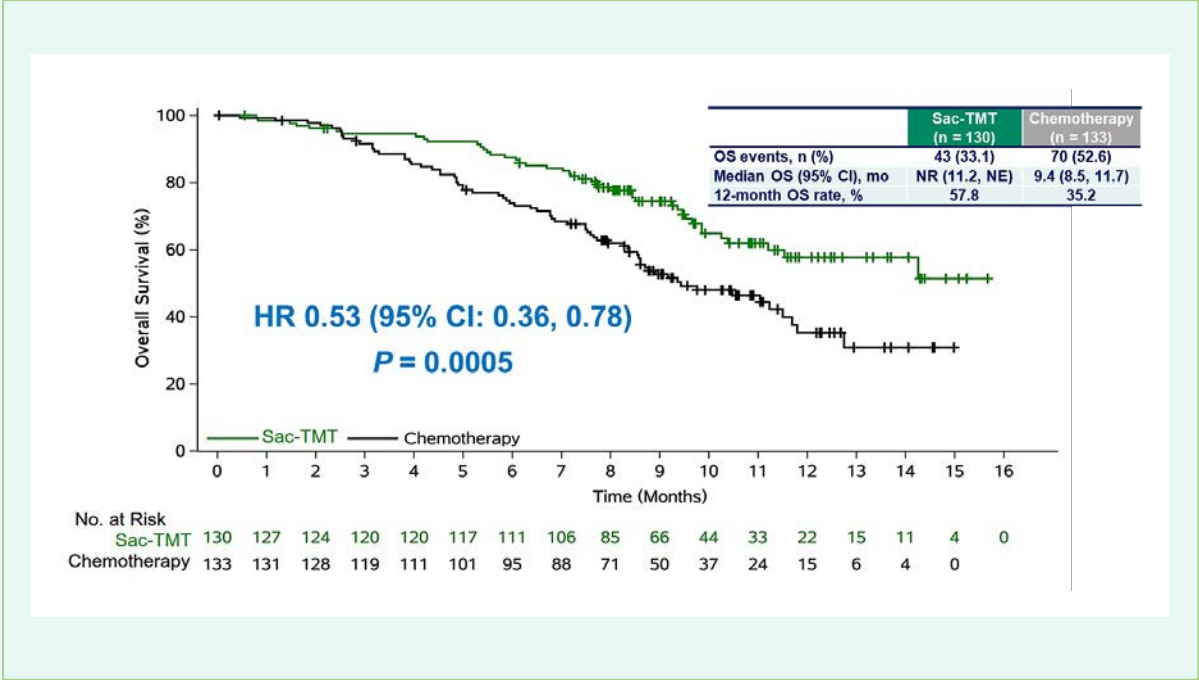
BICR, blinded independent central review; DOR, duration of response; IV, intravenous; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; R, randomization; RECIST, Response Evaluation Criteria in Solid Tumors; TNBC, triple-negative breast cancer.

OptiTROP-Breast01: Sac-TMT vs TPC in 2L+ mTNBC

PFS



OS



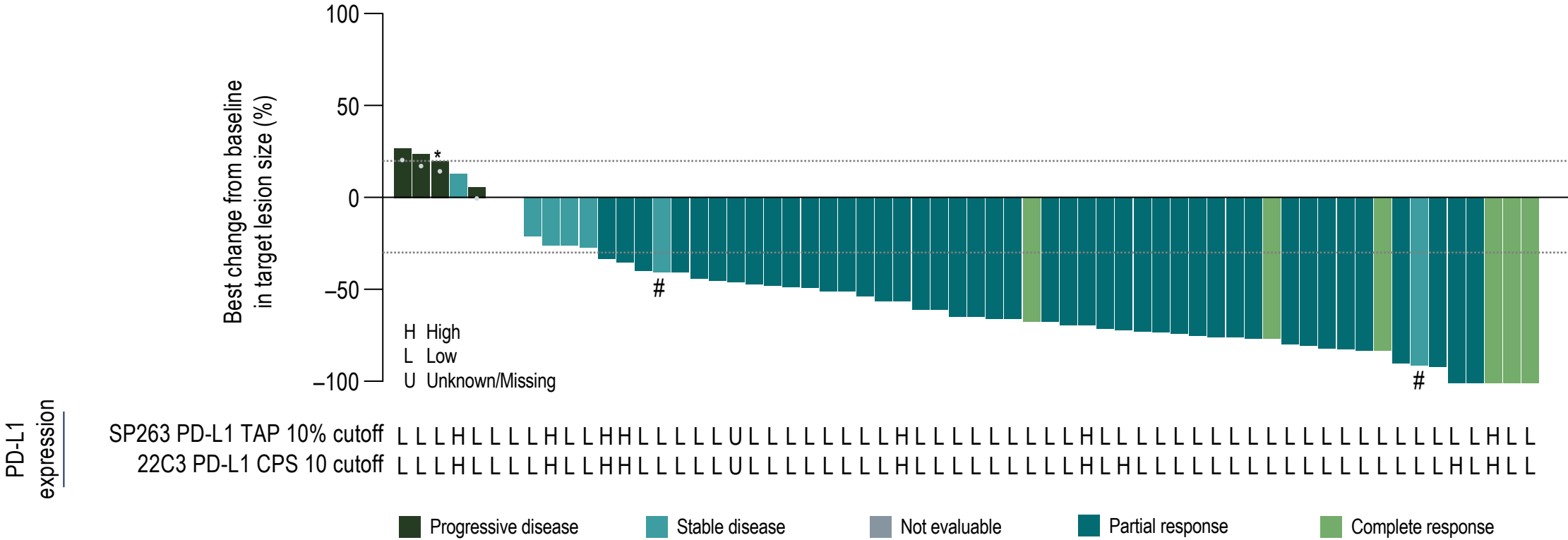
Will ADC + IO Become the New 1L SOC for mTNBC?

BEGONIA Arm 7: Dato-DXd + Durvalumab

1st Line mTNBC

Confirmed ORR was **79%** (49/62; 95% CI, 66.8–88.3) with 6 CR and 43 PR

◆ Antitumour responses were observed regardless of PD-L1 expression level as assessed by 2 separate PD-L1 assays and scoring methods



TROPION-Breast05

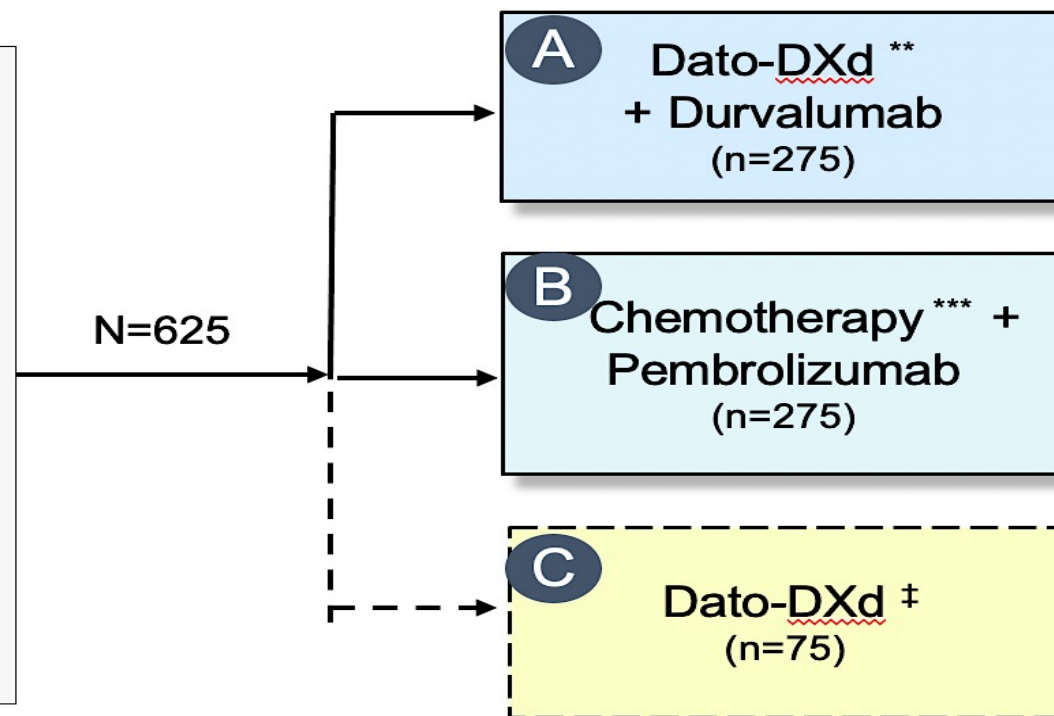
Dato-DXd +/- durva vs TPC + pembro in 1L PD-L1+ mTNBC

Key Eligibility Criteria

- Previously untreated metastatic or locally advanced inoperable TNBC (ER<1%, PR<1%, HER2neg)
- Measurable disease as defined by RECIST v1.1
- Adequate ECOG, hematologic and end-organ function
- PD-L1+ (CPS ≥ 10 IHC 22C3) by central testing
- No active brain metastases
- DFI ≥ 6 mo since treatment in curative setting
- Prior PD-1/PD-L1 treatment for early stage TNBC allowed

Stratification factors:

- De novo, prior DFI 6 to ≤ 12 mo[†], prior DFI >12 mo
- Geographic region (US/Canada/Europe vs Dato-DXd monotherapy arm enrolling countries vs ROW)
- Prior PD-1/PD-L1 treatment for early stage TNBC



ASCENT-04/KEYNOTE-D19 Study Design

Previously untreated, locally advanced unresectable, or metastatic TNBC^a:

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

N = 443

R
1:1

SG + pembro^d

(SG 10 mg/kg IV, days 1 and 8 of 21-day cycles; pembro 200 mg, day 1 of 21-day cycles)
n = 221

Chemo* + pembro^d

(paclitaxel 90 mg/m² OR nab-paclitaxel 100 mg/m² on days 1, 8, & 15 of 28-day cycles, OR gemcitabine 1000 mg/m² + carboplatin AUC 2 on days 1 & 8 of 21-day cycles; pembro 200 mg on day 1 of 21-day cycles)
n = 222

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

All treatment, including SG or chemo, was continued until BICR-verified disease progression or unacceptable toxicity

End points

Primary

- PFS by BICR^e

Secondary

- OS
- ORR, DOR by BICR^e
- Safety
- QoL

Stratification factors:

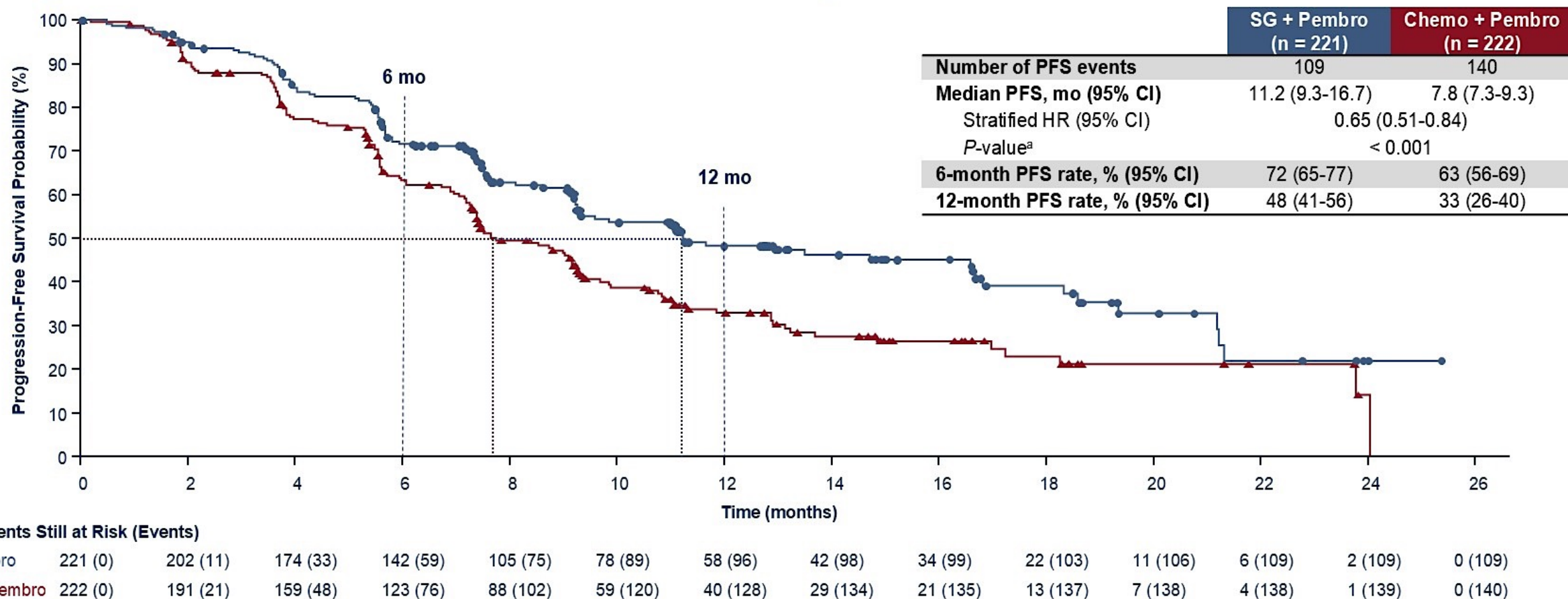
- De novo mTNBC^c vs recurrent within 6 to 12 months from completion of treatment in curative setting vs recurrent > 12 months from completion of treatment in curative setting
- US/Canada/Western Europe vs the rest of the world
- Prior exposure to anti-PD-(L)1 (yes vs no)

Demographics and Baseline Characteristics

ITT Population	SG + Pembro (n = 221)	Chemo + Pembro (n = 222)
Female sex, n (%)	221 (100)	222 (100)
Median age, (range) yr	54 (23-88)	55 (27-82)
≥ 65 yr, n (%)	58 (26)	57 (26)
Race or ethnic group,^a n (%)		
White	139 (63)	118 (53)
Asian	43 (19)	63 (28)
Black	13 (6)	11 (5)
Other/not specified	26 (12)	30 (14)
Geographic region, n (%)		
US/Canada/Western Europe	85 (38)	85 (38)
Rest of the world ^b	136 (62)	137 (62)
ECOG PS at baseline,^c n (%)		
0	156 (71)	154 (69)
1	65 (29)	67 (30)
Curative treatment-free interval, n (%)		
De novo	75 (34)	75 (34)
Recurrent within 6-12 mo	40 (18)	40 (18)
Recurrent > 12 mo	106 (48)	107 (48)

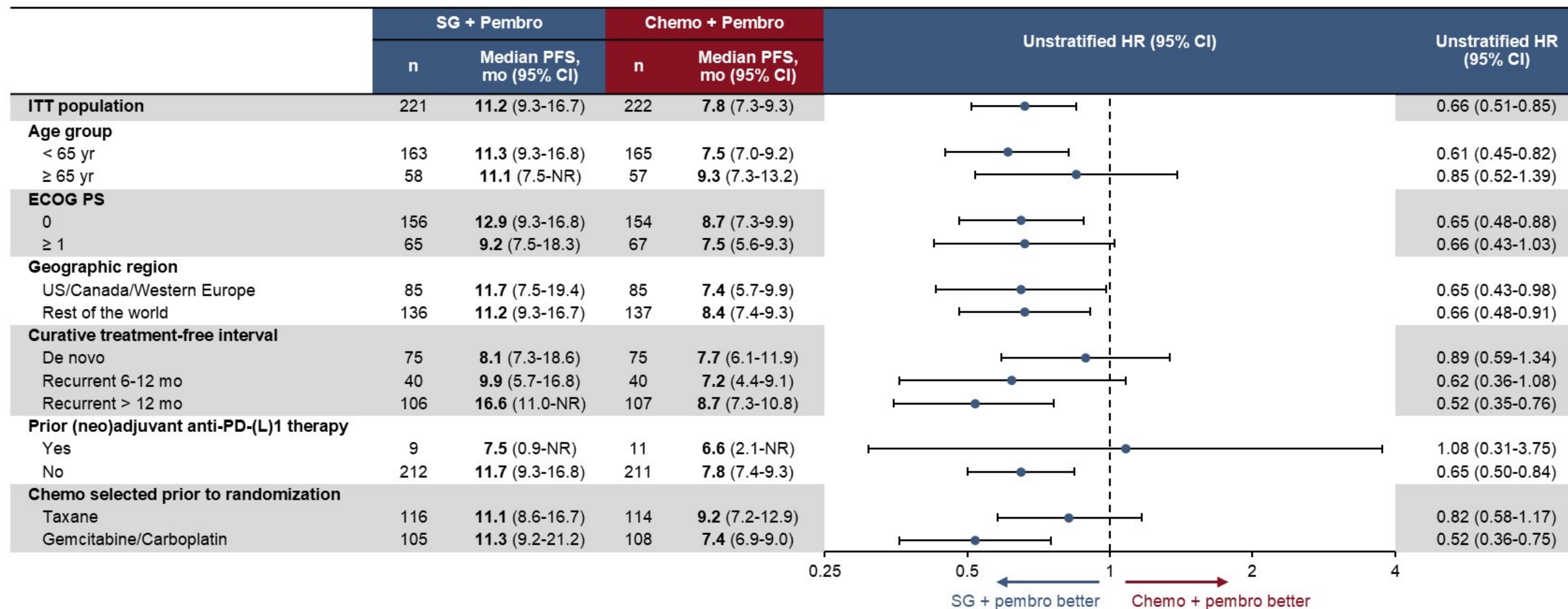
ITT Population	SG + Pembro (n = 221)	Chemo + Pembro (n = 222)
PD-L1 CPS ≥ 10,^d n (%)	221 (100)	222 (100)
Metastatic sites, n (%)		
Lymph node	159 (72)	154 (69)
Lung	111 (50)	95 (43)
Bone	61 (28)	45 (20)
Liver	55 (25)	57 (26)
Brain	8 (4)	6 (3)
Other ^e	81 (37)	71 (32)
Chemo selected prior to randomization,^f n (%)		
Taxane	116 (52)	114 (51)
Gemcitabine/carboplatin	105 (48)	108 (49)
Prior anti-PD-(L)1 therapy,^g n (%)	9 (4)	11 (5)

Progression-Free Survival by BICR



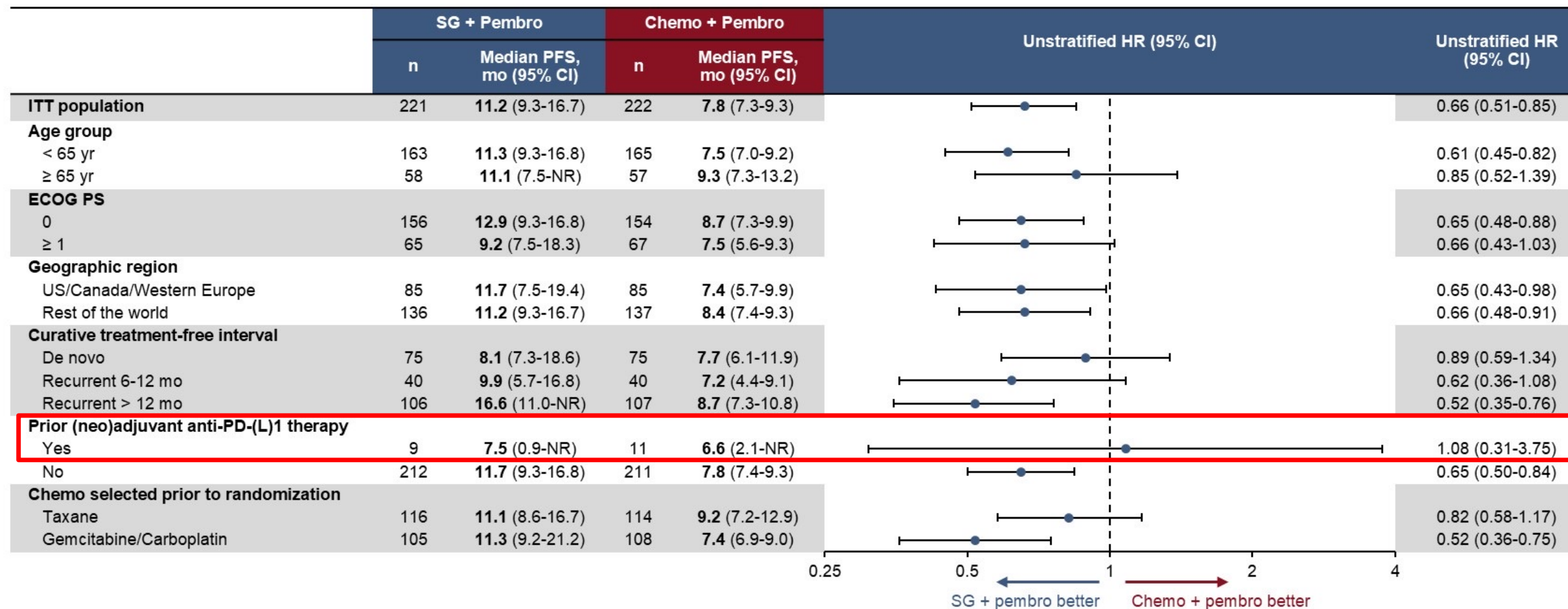
SG + pembro demonstrated statistically significant and clinically meaningful improvement in PFS vs chemo + pembro by BICR analysis, with a 35% reduction in risk of disease progression or death

Subgroup Analysis of Progression-Free Survival by BICR



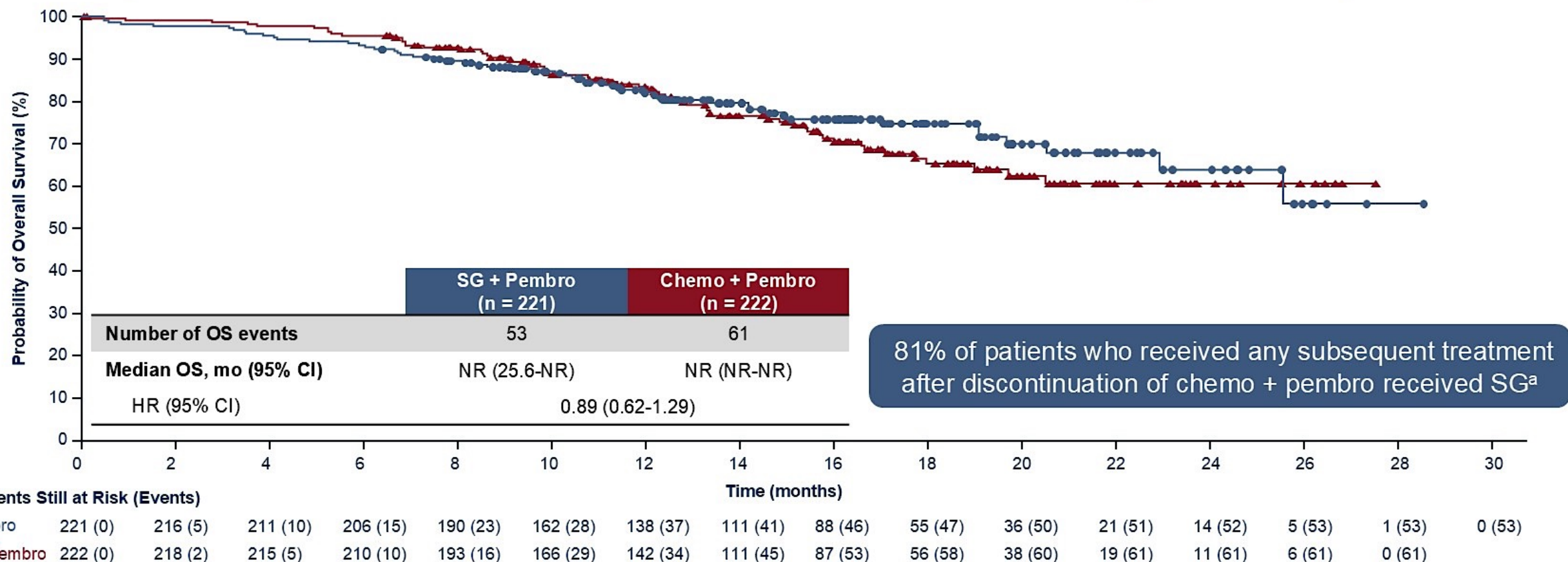
PFS benefit was observed for SG + pembro vs chemo + pembro across prespecified subgroups

Subgroup Analysis of Progression-Free Survival by BICR



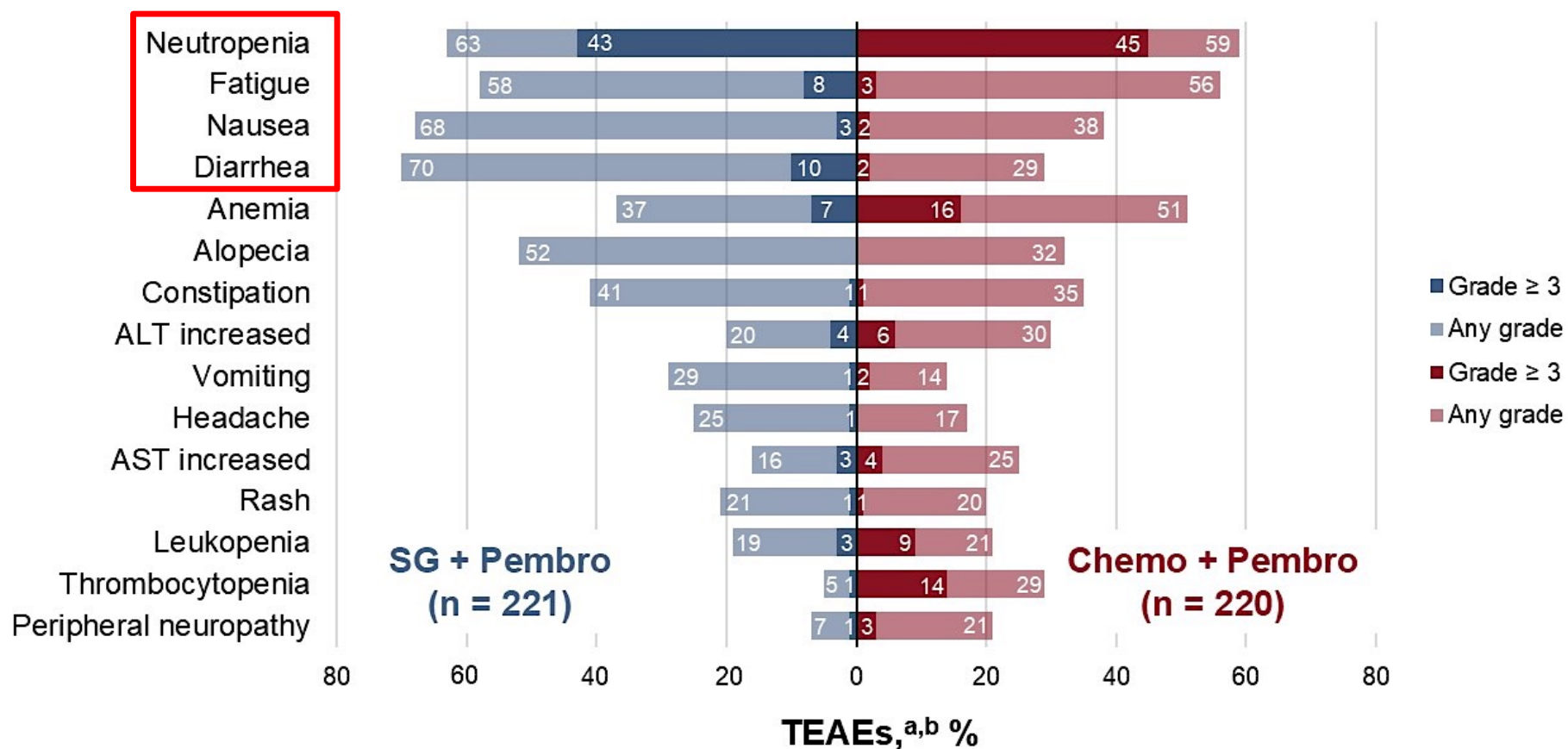
PFS benefit was observed for SG + pembro vs chemo + pembro across prespecified subgroups

Descriptive Overall Survival at Primary Analysis



OS data were immature (maturity rate, 26%), however, a positive trend in improvement was observed for SG + pembro vs chemo + pembro

Most Common Adverse Events (≥20% in any group)



The AEs observed are consistent with the known profiles of both SG and pembro

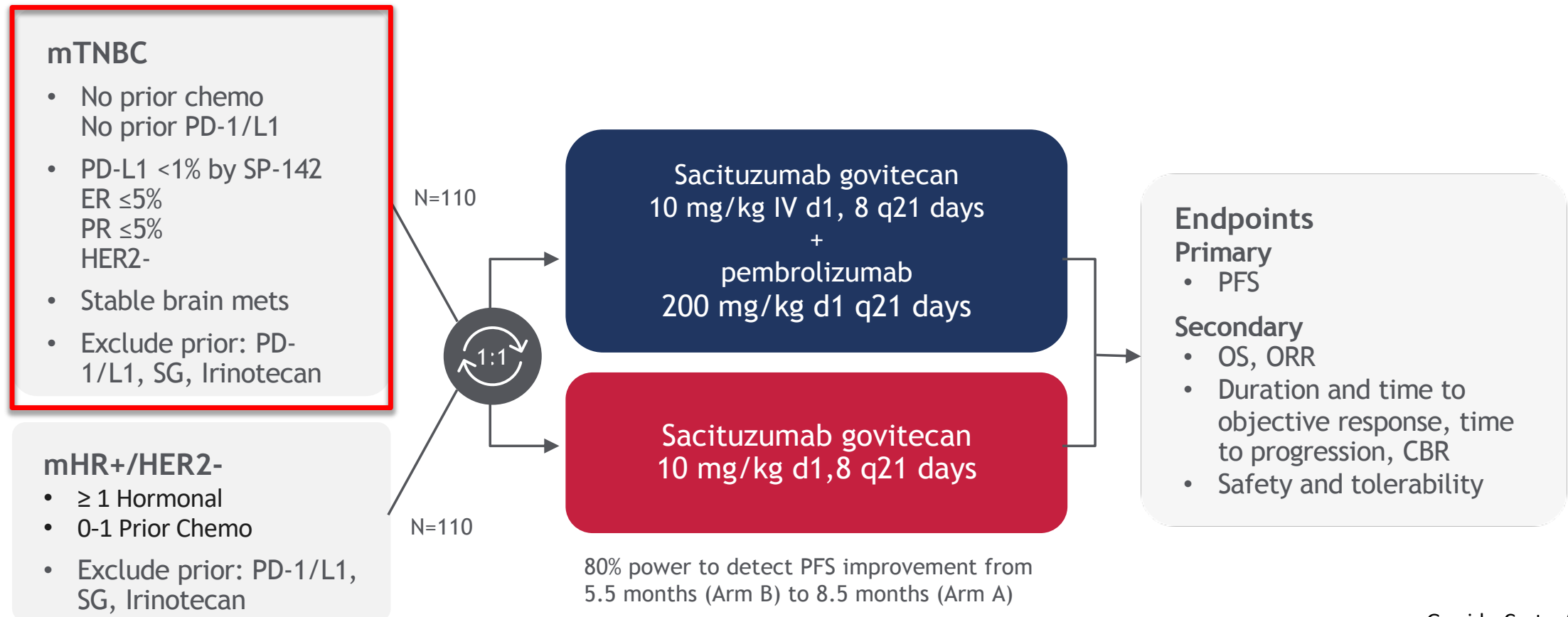
Adverse Events of Special Interest

AESI, ^a n (%)		SG + Pembro (n = 221)		Chemo + Pembro (n = 220)	
		Any Grade	Grade ≥ 3	Any Grade	Grade ≥ 3
SG AESIs	Neutropenia ^b	143 (65)	104 (47)	132 (60)	100 (45)
	Hypersensitivity ^b	43 (19)	4 (2)	51 (23)	5 (2)
	Serious infections secondary to neutropenia ^b	6 (3)	5 (2)	3 (1)	3 (1)
	Diarrhea (Grade 3 or higher)	N/A	22 (10)	N/A	5 (2)
Pembro AESIs	Overall	30 (14)	9 (4)	56 (26)	16 (7)
	Infusion reactions (not immune-mediated) ^a	11 (5)	3 (1)	19 (9)	5 (2)
	Pneumonitis ^b	5 (2)	3 (1)	10 (5)	2 (1)
	Colitis ^b	4 (2)	1 (< 1)	1 (< 1)	1 (< 1)
	Hypothyroidism ^b	4 (2)	0	19 (9)	0
	Hypophysitis ^b	2 (1)	0	2 (1)	0
	Hyperthyroidism ^b	2 (1)	0	5 (2)	0
	Severe skin reactions, ^b including Stevens-Johnson syndrome and toxic epidermal necrolysis	2 (1)	2 (1)	2 (1)	2 (1)
	Hepatitis ^b	1 (< 1)	0	2 (1)	2 (1)
	Adrenal insufficiency ^b	1 (< 1)	0	2 (1)	1 (< 1)
	Pancreatitis ^b	0	0	2 (1)	2 (1)

AESIs were consistent with the known safety profiles of each agent; no new safety concerns were observed and no increased rates of AESIs were observed when combining SG with pembro

Sacituzumab: Ongoing Trials for Late Stage

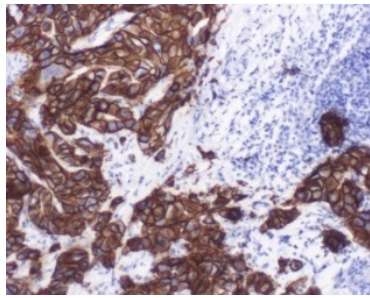
SACI-IO TNBC and HR+: Sacituzumab govitecan +/- pembrolizumab in 1L PD-L1- mTNBC and HR+



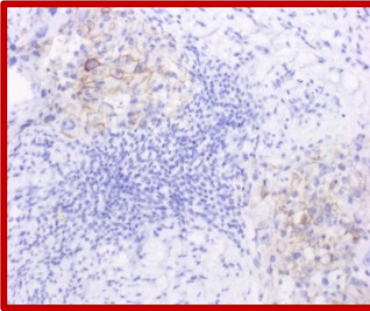
Prevalence of HER2-low by HR status

HER2 IHC Examples

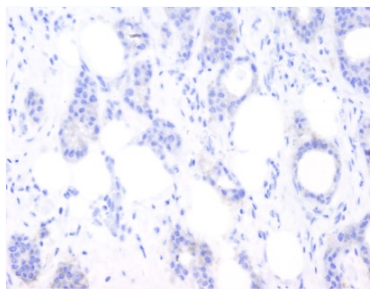
HER2+



HER2-low

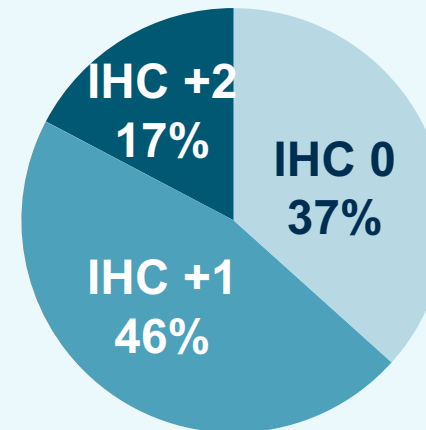


HER2-

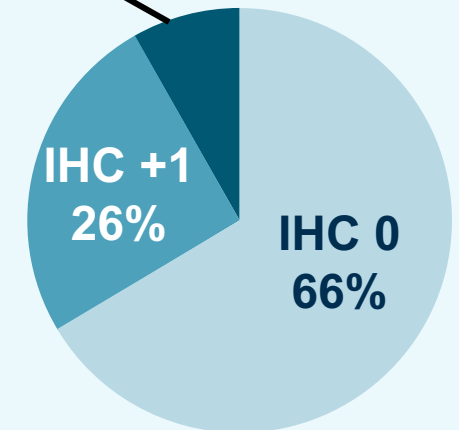


HER2-negative

HR+ Disease
N = 2,485



IHC +2 TNBC
8% N = 620



■ IHC 0 ■ IHC +1 ■ IHC +2

34% to 63% of breast cancer patients considered HER2-negative under current guidelines express low levels of HER2

DESTINY-Breast04: First Randomized Phase 3 Study of T-DXd for HER2-low mBC

An open-label, multicenter study (NCT03734029)

Patients^a

- HER2-low (IHC 1+ vs IHC 2+/ISH-), unresectable, and/or mBC treated with 1-2 prior lines of chemotherapy in the metastatic setting
- HR+ disease considered endocrine refractory

R
2:1

T-DXd
5.4 mg/kg Q3W
(n = 373)

HR+ ≈ 480
HR- ≈ 60

TPC
Capecitabine, eribulin,
gemcitabine, paclitaxel,
nab-paclitaxel^c
(n = 184)

Primary endpoint

- PFS by BICR (HR+)

Key secondary endpoints^b

- PFS by BICR (all patients)
- OS (HR+ and all patients)

Stratification factors

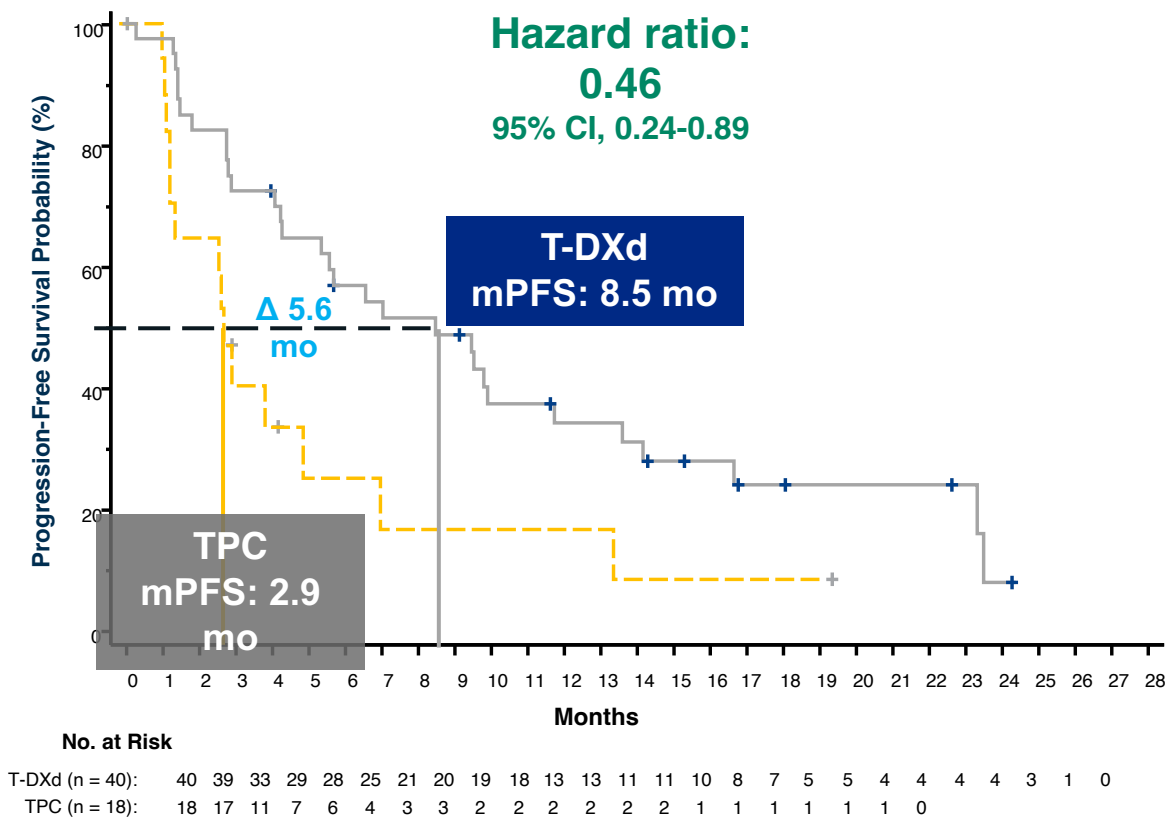
- Centrally assessed HER2 status^d (IHC 1+ vs IHC 2+/ISH-)
- 1 versus 2 prior lines of chemotherapy
- HR+ (with vs without prior treatment with CDK4/6 inhibitor) versus HR-

ASCO/CAP, American Society of Clinical Oncology/College of American Pathologists; BICR, blinded independent central review; CDK, cyclin-dependent kinase; DOR, duration of response; HER2, human epidermal growth factor receptor 2; HR, hormone receptor; IHC, immunohistochemistry; ISH, in situ hybridization; mBC, metastatic breast cancer; OS, overall survival; PFS, progression-free survival; Q3W, every 3 weeks; R, randomization; T-DXd, trastuzumab deruxtecan; TPC, treatment of physician's choice.

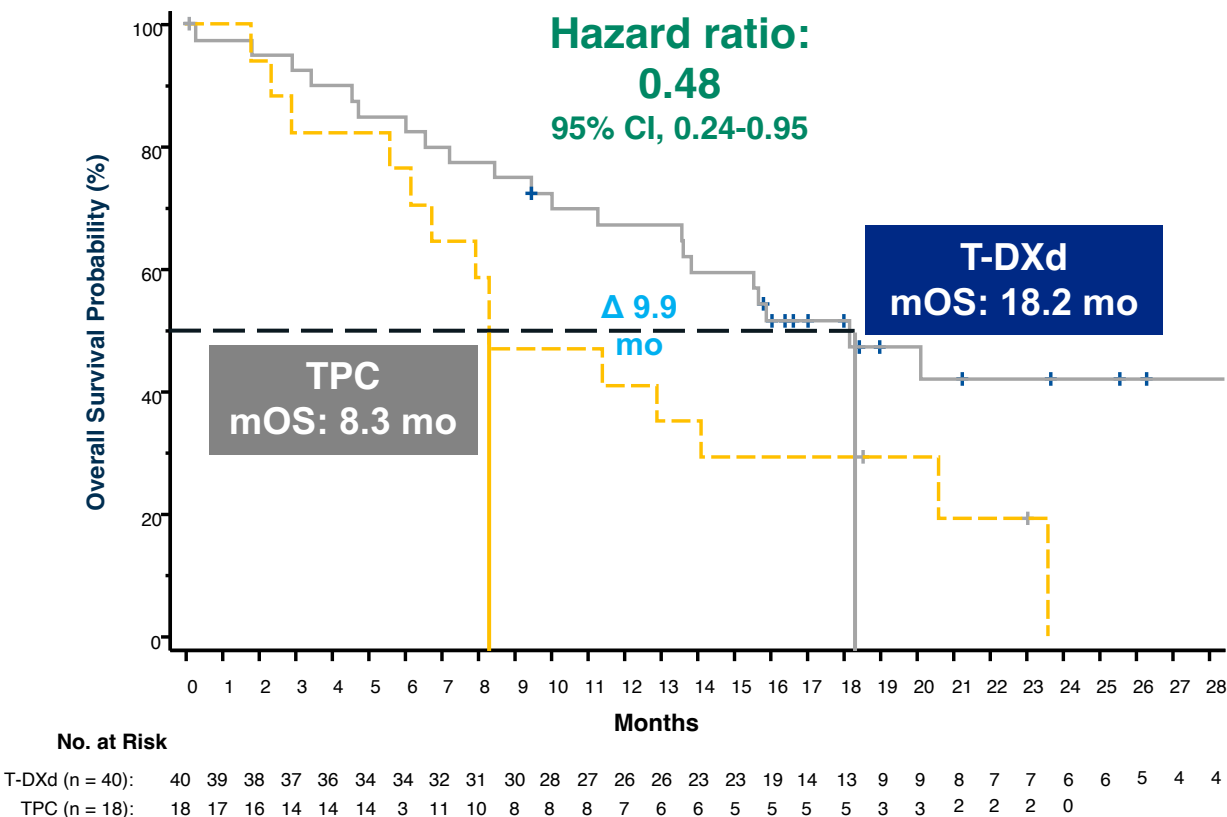
^aIf patients had HR+ mBC, prior endocrine therapy was required. ^bOther secondary endpoints included ORR (BICR and investigator), DOR (BICR), PFS (investigator), and safety; efficacy in the HR- cohort was an exploratory endpoint. ^cTPC was administered according to the label. ^dPerformed on adequate archived or recent tumor biopsy per ASCO/CAP guidelines using the VENTANA HER2/neu (4B5) investigational use only [IUO] Assay system.

PFS and OS in HR- (Exploratory Endpoints)

PFS



OS



HR, hormone receptor; mOS, median overall survival; mPFS, median progression-free survival; OS, overall survival; PFS, progression-free survival; T-DXd, trastuzumab deruxtecan; TPC, treatment of physician's choice.
For efficacy in the hormone receptor–negative cohort, hormone receptor status is based on data from the electronic data capture corrected for misstratification.

HER2 Ultralow?: DESTINY-Breast15

Patient Population

All Patients:

- mBC
- HER2 status
 - IHC 0
 - HER2-low: IHC 1+; IHC 2+/ISH–
- Up to 2 pLOT in metastatic setting
- Inclusion to ensure ethnic diverse population

HR+ (Early Progressors) = Cohort 3

- Recurrent disease <2 years from initiation of adjuvant endocrine therapy **OR**
- Progression within 12 months of completion of adjuvant CDK4/6i
- Progression within the first 12 months of CDK4/6i in the first line metastatic setting

HR–

- 2 pLOT capped at 25% of cohort and only allowed if one of the lines included SG

Cohort 1: HR-/HER2-low mBC
(n = 100)

Cohort 2: HR-/HER2 IHC0 mBC
(n = 50)

Cohort 3: HR+/HER2-low mBC
(n = 50)

Cohort 4: HR+/HER2 IHC0 mBC
(n = 50)

Primary Endpoint: TTNT

Key Secondary: rwPFS

Secondary Endpoints:

- TTD
- QoL/PROs
- Tolerability
- ORR

Exploratory Endpoints: pathology/
translational research plan

**Descriptive stats of primary endpoint
for FAS in subgroups:**

- Brain mets
- Prior IO use
- Prior sacituzumab govitecan
- Bone metastases only

T-DXd treatment, 5.4 mg/kg Q3W

2-year follow-up

Fresh/archival biopsy & ctDNA

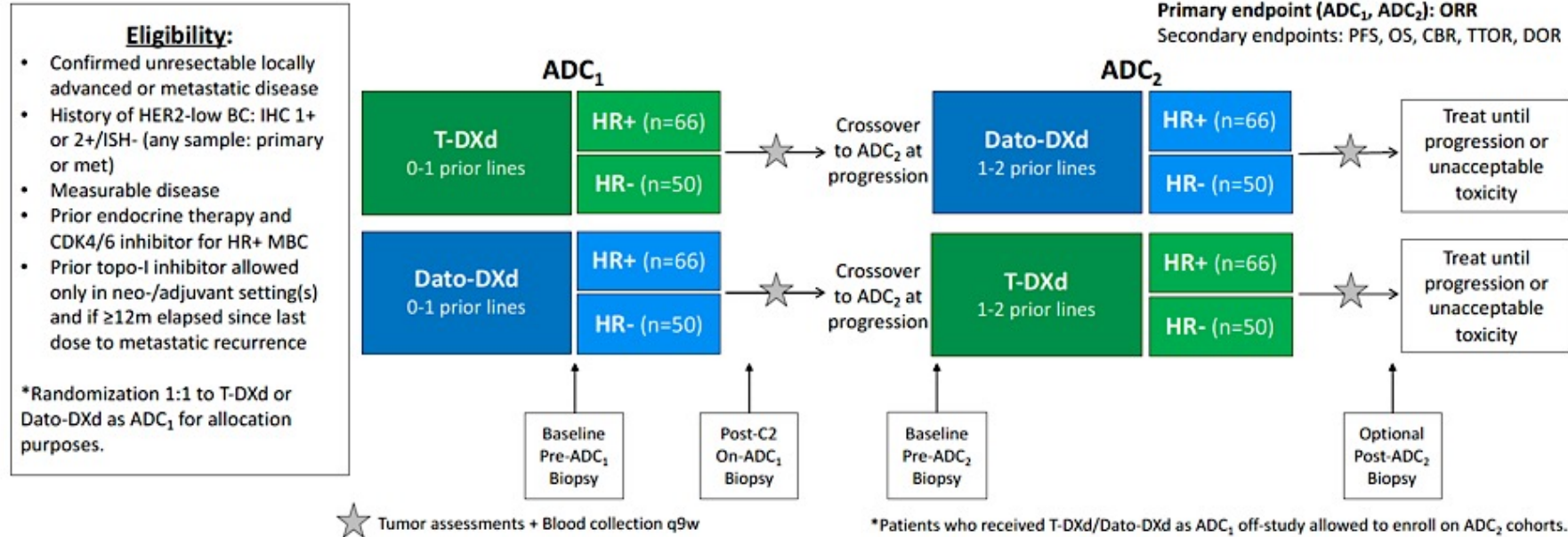
Biopsy (C2D1) & ctDNA

Progression biopsy (optional) & ctDNA

ctDNA, circulating tumor deoxyribonucleic acid; FAS, full analysis set; ISH, in situ hybridization; IO, immuno-oncology; ORR, objective response rate; pLOT, prior line of therapy; PROs, patient-reported outcomes; Q3W, every 3 weeks; QoL, quality of life; rwPFS, real-world progression-free survival; SG, sacituzumab govitecan; TTD, time to treatment discontinuation; TTNT, time to next treatment.

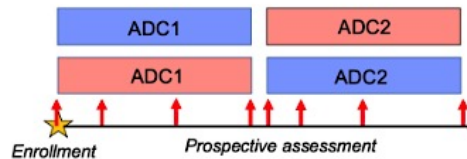
(NCT05950945)

TBCRC 064: Treatment of ADC-Refractory Breast Cancer with Dato-DXd or T-DXd (TRADE DXd). PI: Ana Garrido-Castro



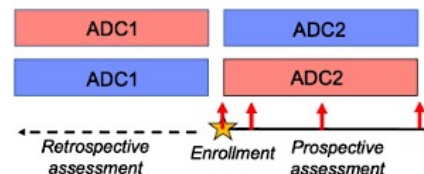
TBCRC-067 ENCORE: Multicenter Prospective Registry of Sequential ADCs in HER2- mBC PI: Laura Huppert

Cohorts 1 & 2: Enrollment Prior to ADC1



- Cohort 1: HR+/HER2- MBC (~35 patients)
- Cohort 2: mTNBC (~25 patients)

Cohorts 3 & 4: Enrollment Prior to ADC2



- Cohort 3: HR+/HER2- MBC (~25 patients)
- Cohort 4: mTNBC (~15 patients)

For all cohorts:

- ADCs and imaging at least q12wk per SOC
- PRO data collection
- Research blood collection: Prior to C1D1, C2D1, C5D1, q4 cycles, end of treatment
- Archival tissue collection and research biopsy if SOC biopsy planned
- Intervening therapies between ADCs is allowed

Primary Endpoints:

- Real-world progression free survival of ADC1 (rwPFS1)
- Real-world progression free survival of ADC2 (rwPFS2)

Secondary Endpoints (for each ADC):

- Overall response rate (ORR), duration of response (DOR), best overall response (BOR), disease control rate (DCR)
- Real-world overall survival (rwOS)
- Safety

Exploratory Endpoints:

- Translational correlates of ADC response/resistance (see below)

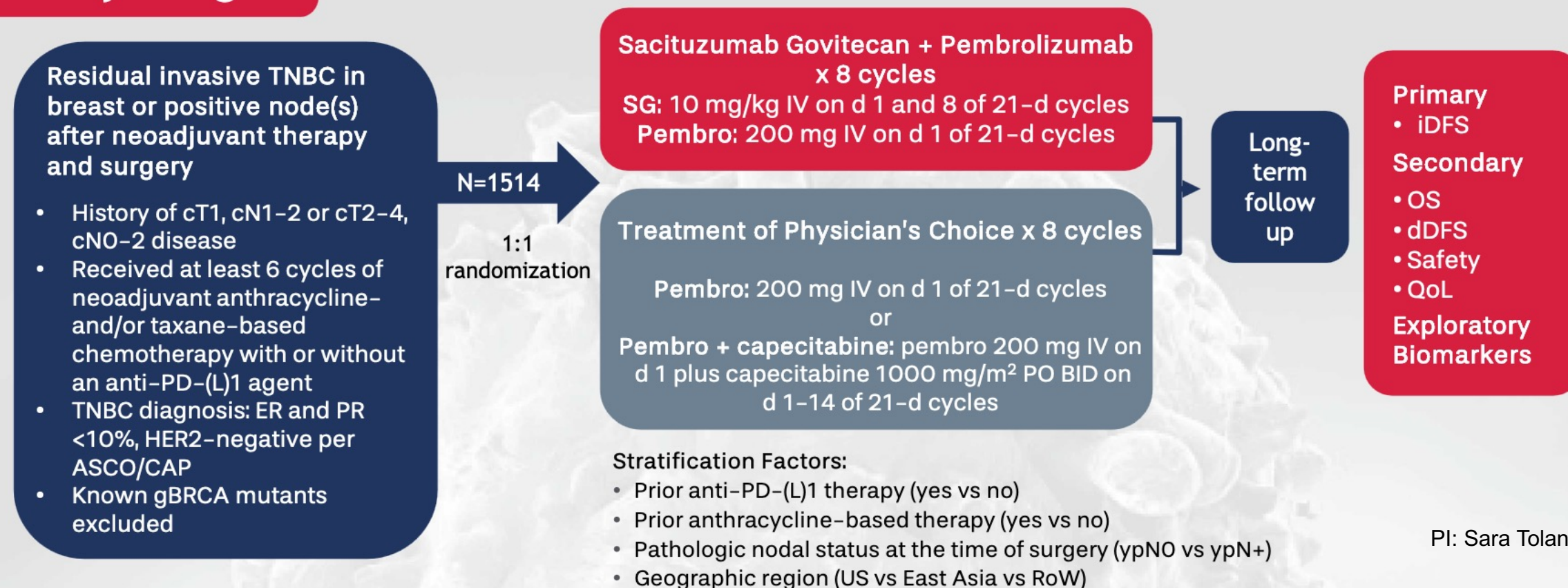
↑ = Study Blood Draw (20ml)

A Randomized, Open-label, Phase 3 Study of Adjuvant Sacituzumab Govitecan + Pembrolizumab Versus Treatment of Physician's Choice in Patients With TNBC Who Have Residual Disease After Neoadjuvant Therapy and Surgery (ASCENT-05 / OptimICE-RD)



Study Design^{1,2}

Trial registration number: NCT05633654



Study Diagram

A Phase 3, Randomized, Open-label, Study to Compare the Efficacy and Safety of Adjuvant MK-2870 in Combination with Pembrolizumab (MK-3475) Versus Treatment of Physician's Choice in Participants With Triple Negative Breast Cancer (TNBC) Who Received Neoadjuvant Therapy and Did Not Achieve a Pathological Complete Response (pCR) At Surgery

- Centrally confirmed TNBC (ER<1%, PR<1%, HER2-)
- Non-pCR after at least 5 cycles of pembrolizumab and chemotherapy, including 1 cycle of anthracycline-based neoadjuvant therapy
- Randomization within 12 weeks of definitive surgery
- Adjuvant RT if indicated, completed before randomization

N=1530

RANDOMIZATION 1:1

Arm 1

Pembrolizumab 400 mg q6w x 5 doses
+
sac-TMT 4 mg/kg q2w x 12 doses

Arm 2

Treatment of Physician's Choice (TPC)

Pembrolizumab 400 mg q6w x 5 doses
or
Pembrolizumab 400 mg q6w x 5 doses and
capecitabine 1000 mg/m² to 1250 mg/m² BID on Days
1-14 and Days 22-35 every 42 days x 4 (2 weeks on, 1
week off)

Stratification factors

1. Residual tumor and lymph node status:
 - a. [Tumor < 1 cm (ypT1mi – T1b), ypN0] (capped at ~15%)
vs
 - b. [Tumor ≥ 1 cm (ypT1c+), ypN0] or [No tumor or tumor < 1 cm (ypT0 – T1b), ypN1]
vs
 - c. [Tumor ≥ 1 cm (ypT1c+), ypN1] or [No tumor or any tumor size (ypT0+), ypN2+]
2. TROP2 expression per IHC (low vs medium vs high).
3. Intention to use capecitabine (yes [capped at ~60%] vs no)

TROPION-Breast03

Study of Dato-DXd With or Without Durvalumab Versus ICT Without Pathological CR Following Neoadjuvant Therapy^{1,2}

A Phase 3, Open-Label, Randomized Study of Dato-DXd With or Without Durvalumab Versus ICT in Patients With Stage I-III TNBC Who Have Residual Invasive Disease in the Breast and/or Axillary Lymph Nodes at Surgical Resection Following Neoadjuvant Systemic Therapy

Study Design

Patients with Stage I-III TNBC without pathological CR (N≈1075)

- Histologically confirmed invasive TNBC (ER <1%, PR <1%, HER2 negative)^{3,4,a}
- Completed at least 6 cycles of neoadjuvant therapy containing an anthracycline and/or a taxane with or without carboplatin, with or without pembrolizumab
- Residual invasive disease after neoadjuvant therapy
- No evidence of locoregional or distant relapse
- Radiotherapy delivered before the start of study treatment
- No adjuvant systemic therapy
- ECOG PS 0–1
- Adequate bone marrow reserve and organ function
- No known germline BRCA1 or BRCA2 mutation

Randomization
(2:1:2)²

Dato-DXd 6 mg/kg IV Q3W × 8 cycles
+
Durvalumab 1120 mg IV Q3W × 9 cycles

Dato-DXd
6 mg/kg IV Q3W × 8 cycles

Investigator's Choice of Therapy^c
(capecitabine, pembrolizumab, or
capecitabine + pembrolizumab)

Primary Endpoint

- **Dato-DXd + durvalumab vs ICT:** iDFS

Secondary Endpoints

- **Dato-DXd + durvalumab vs ICT:** DDFS, OS
- **Dato-DXd vs ICT:** iDFS, DDFS, OS
- **Dato-DXd + durvalumab vs Dato-DXd:** iDFS, DDFS
- PROs, PK, immunogenicity, safety

Stratification Factors²:

- Prior neoadjuvant pembrolizumab (yes vs no); cap no at 40%
- Residual disease (<1 cm vs ≥1 cm)^d; cap <1 cm at 20%
- Prior neoadjuvant platinum CT (yes vs no)

Locations: North America, South America, Asia, Europe
ClinicalTrials.gov Identifier: [NCT05629585](https://clinicaltrials.gov/ct2/show/study/NCT05629585)

If ADCs are more effective in the NEOADJUVANT setting will the post K522 question be relevant?

TB04 Study Design: Ph3 Dato-DXd + Durva in Neoadjuvant/Adjuvant TNBC

Neoadjuvant

Surgery

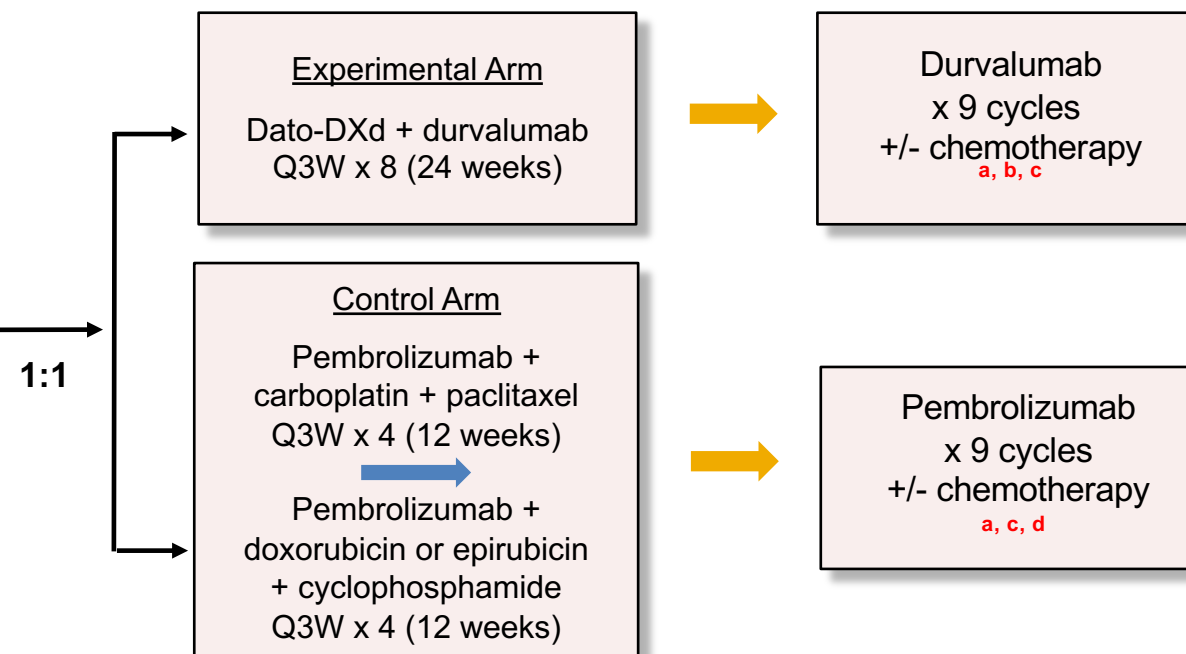
Adjuvant

Key Eligibility Criteria

- Histologically confirmed Stage II or III unilateral or bilateral primary invasive breast cancer.
- TNBC (ER and PR < 1%) or hormone receptor-low breast cancer (ER and/or PR 1% to < 10%, neither hormone receptor may be ≥ 10%), and HER2-negative.
- No evidence of distant disease.
- No prior surgery, radiation, or systemic anticancer therapy.
- ECOG PS 0 or 1.
- Adequate hematologic and organ function.

Stratification factors:

- Lymph node status (positive versus negative)
- Tumour stage (cT1 to cT2 versus cT3 to cT4)
- Hormone receptor status (hormone receptor-negative [ER and PR < 1%] versus hormone receptor-low (ER and/or PR 1% to < 10%, neither hormone receptor may be ≥ 10%])
- Geographic region (US/Canada/Europe/Australia versus Rest of World).



Dual primary endpoints:
pCR and EFS

Secondary endpoints:
OS, DDFS, safety and tolerability, PROs, PK, immunogenicity

Exploratory endpoints include but are not limited to:
TROP2, PD-L1

a. Endocrine therapy is permitted for participants with hormone receptor-low tumours. No adjuvant CDK4/6 inhibitor (eg, abemaciclib, ribociclib).

b. Adjuvant chemotherapy may be given in combination with durvalumab for participants with residual disease.

Chemotherapy options at discretion of investigator, either: doxorubicin/epirubicin + cyclophosphamide, followed by paclitaxel + carboplatin; doxorubicin/epirubicin + cyclophosphamide followed by paclitaxel; carboplatin + paclitaxel; capecitabine.

c. Olaparib may be administered to participants who are gBRCA-positive with residual disease.

d. Adjuvant capecitabine may be given in combination with pembrolizumab for participants with residual disease, at the discretion of investigator.

TroFuse-032 Study Design

N≈2400

Key Eligibility

- Centrally confirmed TN or HR-low positive/HER2 negative breast cancer
- cT1c N1-2 or cT2-4 N0-2
- No metastases
- No previous systemic therapy
- No previous excision of primary tumor
- ECOG 0 or 1

1:1



Neoadjuvant Treatment Phase (cycle length – 6weeks)	
Neoadjuvant Treatment 1 Cycle 1-2	Neoadjuvant Treatment 2 Cycle 3-4
sac-TMT (4.0 mg/kg q2w) + Pembrolizumab (200 mg q3w)	Carboplatin (AUC 1.5 qw) + Paclitaxel (80 mg/m² qw) + Pembrolizumab (200 mg q3q)
Carboplatin (AUC 1.5 qw) + Paclitaxel (80 mg/m² qw) + Pembrolizumab (200 mg q3w)	Doxorubicin (60 mg/m² q3w) or epirubicin (90 mg/m² q3w) + Cyclophosphamide (600 mg/m² q3w) + Pembrolizumab (200 mg q3w)

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Adjuvant Treatment
30 weeks (5xQ6W)*

Participants without residual disease:

- **Pembrolizumab** (400 mg q6w or 200 mg q3w)

Participants with residual disease:

- **Pembrolizumab** (400 mg q6w or 200 mg q3w)

±
Optional additional treatment per physicians' choice:

- **Capecitabine**
- **Olaparib** (if gBRCAm)
- **AC/EC** (only in Treatment Arm A)

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Primary Endpoints

- pCR rate (ypT0/Tis ypN0)
- EFS

Secondary Endpoints

- OS
- pCR no-DCIS (ypT0 ypN0)
- DPDRFS
- ePROS
 - EORTC QLQ-C30
- Safety and tolerability

Adjuvant radiotherapy is permitted after surgery concurrently with pembrolizumab.
XRT must be completed before optional additional TPC (if used).

Data + Perspectives: Clinical Investigators Explore the Application of Recent Datasets in Current Oncology Care

CME/MOC, NCPD and ACPE Accredited

**Saturday, October 11, 2025
7:15 AM – 12:30 PM ET**

Primary Results from ASCENT-03: A Randomized Phase 3 Study of Sacituzumab Govitecan (SG) vs Chemotherapy (Chemo) in Patients (pts) with Previously Untreated Advanced Triple-Negative Breast Cancer (TNBC) Who Are Unable to Receive PD-(L)1 Inhibitors (PD-[L]1i)

Cortés JC et al.

ESMO 2025;Abstract LBA20.

PROFFERED PAPER | SUNDAY, OCTOBER 19 | 9:15 CEST

First-Line (1L) Datopotamab Deruxtecan (Dato-DXd) vs Chemotherapy in Patients with Locally Recurrent Inoperable or Metastatic Triple-Negative Breast Cancer (mTNBC) for Whom Immunotherapy Was Not an Option: Primary Results from the Randomised, Phase 3 TROPION-Breast02 Trial

Dent RA et al.

ESMO 2025;Abstract LBA21.

PROFFERED PAPER | SUNDAY, OCTOBER 19 | 9:25 CEST

Questions from General Medical Oncologists

- **Is sacituzumab in combination with pembrolizumab the new standard of care first-line treatment for PD-L1-positive mTNBC?**
- **If a patient received pembrolizumab in the early TNBC setting, would you use it in combination with sacituzumab if they progress?**
- **Is a TROP2-directed ADC now standard of care first-line treatment for patients with mTNBC not eligible for I/O? How will you select between sacituzumab and Dato-DXd for these patients?**

Questions from General Medical Oncologists

- **How do you manage the toxicities (diarrhea, neutropenia) associated with sacituzumab/pembrolizumab? Do you generally use prophylactic growth factors?**

Questions from General Medical Oncologists

- **To which patients with localized TNBC and a BRCA mutation do you give olaparib and pembrolizumab?**

Questions from General Medical Oncologists

- **What's your approach to prevention and management of anemia associated with olaparib? How about GI side effects? Is there an update on the incidence of AML/MDS with PARPi?**

Questions from General Medical Oncologists

- **Are there any data on using PARP inhibitors in combination with any of the available antibody-drug conjugates?**
- **Is there evidence of intracranial efficacy with either sacituzumab or Dato-DXd in patients with brain metastases?**

Questions from General Medical Oncologists

- **Case: 60F treated with KN-522 for Stage IIIC TNBC with pCR. Approximately 1 year into follow-up she developed neuro symptoms and underwent surgical debulking and XRT for a 3-cm brain lesion. No other evidence of disease. HER2 1+ — what would you recommend as systemic management?**

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