## Year in Review: Clinical Investigator Perspectives on the Most Relevant New Data Sets and Advances in Oncology

#### **Hormone Receptor-Positive Breast Cancer**

A Multitumor CME/MOC-Accredited Live Webinar Series

Thursday, January 11, 2024 5:00 PM - 6:00 PM ET

**Faculty** 

Stephanie L Graff, MD, FACP Erica Mayer, MD, MPH, FASCO

**Moderator Neil Love, MD** 



#### **Faculty**



Associate Professor of Medicine
Warren Alpert Medical School of Brown University
Director of Breast Oncology, Lifespan Cancer Institute
Co-Lead, Breast Cancer Translational Disease Research Group
Legorreta Cancer Center at Brown University
Medical Advisor, Dr Susan Love Foundation for Breast Cancer Research
Providence, Rhode Island



MODERATOR
Neil Love, MD
Research To Practice
Miami, Florida



Erica Mayer, MD, MPH, FASCO
Director of Breast Cancer Clinical Research
Breast Oncology Center
Dana-Farber Cancer Institute
Associate Professor of Medicine
Harvard Medical School
Boston, Massachusetts

#### **Commercial Support**

This activity is supported by educational grants from AstraZeneca Pharmaceuticals LP, Daiichi Sankyo Inc, Lilly, and Stemline Therapeutics Inc.



#### Dr Love — Disclosures

**Dr Love** is president and CEO of Research To Practice. Research To Practice receives funds in the form of educational grants to develop CME activities from the following companies: AbbVie Inc, Adaptive Biotechnologies Corporation, ADC Therapeutics, Agios Pharmaceuticals Inc, Alexion Pharmaceuticals, Amgen Inc, Array BioPharma Inc, a subsidiary of Pfizer Inc, Astellas, AstraZeneca Pharmaceuticals LP, Aveo Pharmaceuticals, Bayer HealthCare Pharmaceuticals, BeiGene Ltd, BeyondSpring Pharmaceuticals Inc, Blueprint Medicines, Boehringer Ingelheim Pharmaceuticals Inc, Bristol Myers Squibb, Celgene Corporation, Clovis Oncology, Coherus BioSciences, CTI Biopharma, a Sobi company, Daiichi Sankyo Inc, Eisai Inc, Elevation Oncology Inc, EMD Serono Inc, Epizyme Inc, Exact Sciences Corporation, Exelixis Inc, Five Prime Therapeutics Inc, Foundation Medicine, G1 Therapeutics Inc, Genentech, a member of the Roche Group, Genmab US Inc, Gilead Sciences Inc, Grail Inc, GSK, Halozyme Inc, Helsinn Healthcare SA, ImmunoGen Inc, Incyte Corporation, Ipsen Biopharmaceuticals Inc, Janssen Biotech Inc, administered by Janssen Scientific Affairs LLC, Jazz Pharmaceuticals Inc, Karyopharm Therapeutics, Kite, A Gilead Company, Kronos Bio Inc, Legend Biotech, Lilly, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, MEI Pharma Inc, Merck, Mersana Therapeutics Inc, Mirati Therapeutics Inc, Natera Inc, Novartis, Novartis Pharmaceuticals Corporation on behalf of Advanced Accelerator Applications, Novocure Inc, Oncopeptides, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Puma Biotechnology Inc, Regeneron Pharmaceuticals Inc, R-Pharm US, Sanofi, Seagen Inc, Servier Pharmaceuticals LLC, SpringWorks Therapeutics Inc, Stemline Therapeutics Inc, Sumitomo Dainippon Pharma Oncology Inc, Taiho Oncology Inc, Takeda Pharmaceuticals USA Inc, TerSera Therapeutics LLC, Tesaro, A GSK Company, TG Therapeutics Inc, Turning Point Therapeutics Inc, Verastem Inc, and Zymeworks Inc.

#### Research To Practice CME Planning Committee Members, Staff and Reviewers

Planners, scientific staff and independent reviewers for Research To Practice have no relevant conflicts of interest to disclose.



#### **Dr Graff** — **Disclosures**

Advisory Boards (All Relationships Ended, Self)	AstraZeneca Pharmaceuticals LP, Daiichi Sankyo Inc, Genentech, a member of the Roche Group, Gilead Sciences Inc, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, Menarini Group, Novartis, Pfizer Inc, Seagen Inc, Stemline Therapeutics Inc
Research Funding (All Funds to Institution)	AstraZeneca Pharmaceuticals LP, Daiichi Sankyo Inc, Novartis
Nonrelevant Financial Relationship	HCA Healthcare (stock ownership)



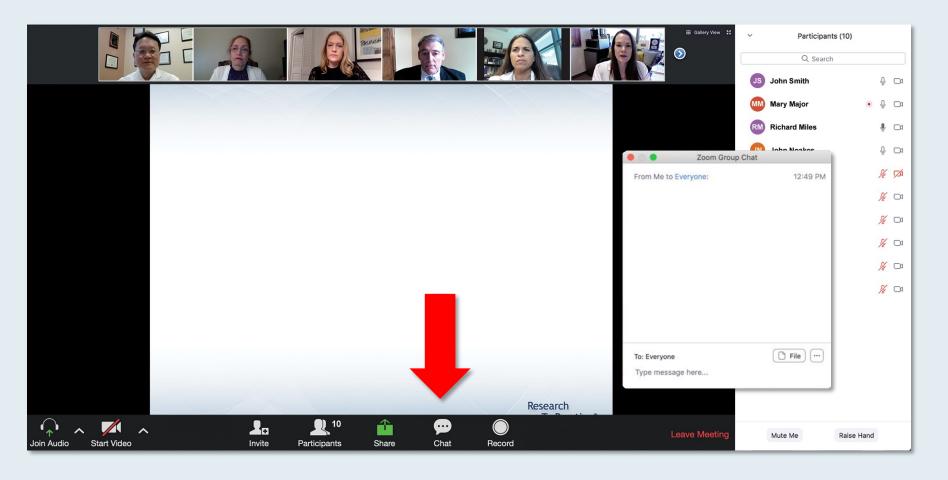
#### **Dr Mayer — Disclosures**

Consulting Agreements

AstraZeneca Pharmaceuticals LP, Lilly, Novartis



#### We Encourage Clinicians in Practice to Submit Questions



Feel free to submit questions now before the program begins and throughout the program.



### Clinicians in the Audience, Please Complete the Pre- and Postmeeting Surveys







#### ONCOLOGY TODAY

WITH DR NEIL LOVE

Implications of Recent Data Sets for the Current and Future Management of Breast Cancer



ADITYA BARDIA, MD, MPH MASSACHUSETTS GENERAL HOSPITAL



SARA M TOLANEY, MD, MPH DANA-FARBER CANCER INSTITUTE









#### Consensus or Controversy? Clinical Investigators Provide Perspectives on the Current and Future Management of Gastroesophageal Cancers

Part 1 of a 2-Part CME Symposium Series Held in Conjunction with the 2024 ASCO Gastrointestinal Cancers Symposium

Thursday, January 18, 2024 6:00 PM - 8:00 PM PT (9:00 PM - 11:00 PM ET)

**Faculty** 

David H Ilson, MD, PhD Rutika Mehta, MD, MPH Professor Markus Moehler, MD
Manish A Shah, MD

Moderator Harry H Yoon, MD, MHS



#### Consensus or Controversy? Clinical Investigators Provide Perspectives on Biomarker Assessment and Related Treatment Decision-Making for Patients with Colorectal Cancer

Part 2 of a 2-Part CME Symposium Series Held in Conjunction with the 2024 ASCO Gastrointestinal Cancers Symposium

Friday January 19, 2024 6:15 PM – 8:15 PM PT (9:15 PM – 11:15 PM ET)

**Faculty** 

Tanios Bekaii-Saab, MD
Cathy Eng, MD

John Strickler, MD

**Moderator Christopher Lieu, MD** 



# Consensus or Controversy? Investigator Perspectives on the Current and Future Role of Immune Checkpoint Inhibitors in the Management of Hepatobiliary Cancers

Saturday, January 20, 2024 8:30 AM – 9:30 AM ET

**Faculty** 

Ahmed Omar Kaseb, MD, CMQ Arndt Vogel, MD, PhD

**Moderator Neil Love, MD** 



## Consensus or Controversy? Clinical Investigators Provide Perspectives on the Current and Future Management of Prostate Cancer

Part 1 of a 2-Part CME Symposium Series Held in Conjunction with the 2024 ASCO Genitourinary Cancers Symposium

Thursday, January 25, 2024 6:15 PM – 8:15 PM PT (9:15 PM – 11:15 PM ET)

**Faculty** 

Rahul Aggarwal, MD Emmanuel S Antonarakis, MD Elisabeth I Heath, MD
A Oliver Sartor, MD

**Moderator Alan H Bryce, MD** 



#### Consensus or Controversy? Clinical Investigators Provide Perspectives on the Current and Future Management of Urothelial Bladder Cancer

Part 2 of a 2-Part CME Symposium Series Held in Conjunction with the 2024 ASCO Genitourinary Cancers Symposium

Friday, January 26, 2024

7:00 PM - 9:00 PM PT (10:00 PM - 12:00 AM ET)

**Faculty** 

Matthew Milowsky, MD Peter H O'Donnell, MD

Jonathan E Rosenberg, MD Arlene Siefker-Radtke, MD

**Moderator Evan Y Yu, MD** 



# Year in Review: Clinical Investigator Perspectives on the Most Relevant New Data Sets and Advances in Oncology

A Multitumor CME/MOC-Accredited Live Webinar Series

#### **HER2-Positive and Triple-Negative Breast Cancer**

Tuesday, January 30, 2024 5:00 PM - 6:00 PM ET

**Faculty** 

Ian E Krop, MD, PhD Priyanka Sharma, MD

**Moderator Neil Love, MD** 



#### JOIN US IN MARCH FOR THE RETURN OF

## The Annual National General Medical Oncology Summit

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

MARCH 22-24, 2024

JW Marriott Miami Turnberry

To Learn More or to Register, Visit www.ResearchToPractice.com/Meetings/GMO2024

#### **Agenda**

INTRODUCTION: Endocrinology and Pharmacology of Hormonal Therapy for Breast Cancer

MODULE 1: Current and Emerging Strategies for Localized Hormonal Receptor (HR)-Positive Breast Cancer — Dr Graff

MODULE 2: Advances in the Care of Patients with HR-Positive Metastatic Breast Cancer — Dr Mayer



#### Thank you for joining us!

CME and MOC credit information will be emailed to each participant within 5 business days.



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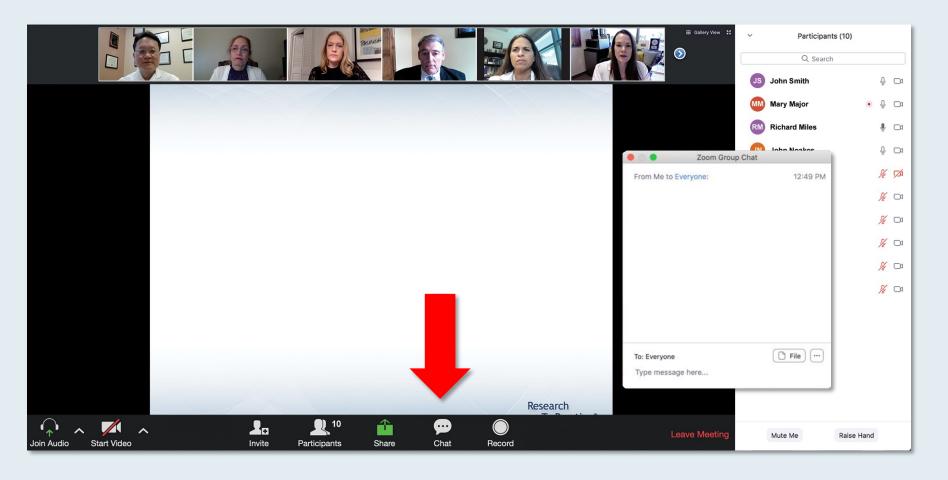


MODERATOR
Neil Love, MD
Research To Practice
Miami, Florida



Erica Mayer, MD, MPH, FASCO
Director of Breast Cancer Clinical Research
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Friday, March 22, 2024

6:00 PM - 6:30 PM

**Welcome Reception** 

6:30 PM - 8:30 PM

**Keynote Session: ER-Positive Metastatic Breast Cancer** 

Erika Hamilton, MD

Kevin Kalinsky, MD, MS

Joyce O'Shaughnessy, MD

Hope S Rugo, MD

#### Saturday, March 23, 2024

#### 7:30 AM - 9:10 AM

#### **Hodgkin and Non-Hodgkin Lymphoma**

Ann S LaCasce, MD, MMSc Matthew Lunning, DO Kami Maddocks, MD Andrew D Zelenetz, MD, PhD

#### 9:30 AM - 10:20 AM

#### **Gynecologic Cancers**

Bradley J Monk, MD
David M O'Malley, MD

#### 10:20 AM - 11:10 AM

#### **Localized Breast Cancer; SABCS 2023 Review**

Virginia Kaklamani, MD, DSc Kevin Kalinsky, MD, MS Joyce O'Shaughnessy, MD

#### 11:10 AM - 12:00 PM

#### Metastatic Breast Cancer, Triple-Negative Breast Cancer, HER2-Positive Breast Cancer; SABCS 2023 Review

Erika Hamilton, MD Virginia Kaklamani, MD, DSc Hope S Rugo, MD

#### Saturday, March 23, 2024

12:30 PM - 1:20 PM

**Prostate Cancer** 

Emanuel S Antonarakis, MD Rana R McKay, MD

1:20 PM - 2:10 PM

**Urothelial Bladder Cancer** 

Matthew D Galsky, MD Jonathan E Rosenberg, MD

2:10 PM - 3:00 PM

**Renal Cell Carcinoma** 

Eric Jonasch, MD Brian Rini, MD 3:20 PM - 4:10 PM

Targeted Therapy for Non-Small Cell Lung Cancer

Ibiayi Dagogo-Jack, MD Helena Yu, MD

4:10 PM - 5:00 PM

**Nontargeted Treatments for Lung Cancer** 

Edward B Garon, MD, MS Corey J Langer, MD

#### **Sunday, March 24, 2024**

7:30 AM - 8:20 AM

**Multiple Myeloma** 

Natalie S Callander, MD Paul G Richardson, MD

8:20 AM - 9:10 AM

**Gastroesophageal Cancers** 

Yelena Y Janjigian, MD Samuel J Klempner, MD

9:30 AM - 10:20 AM

**Hepatobiliary Cancers** 

Ghassan Abou-Alfa, MD, MBA Richard S Finn, MD

10:20 AM - 11:10 AM

**Colorectal Cancer** 

Kristen K Ciombor, MD, MSCI John Strickler, MD

11:10 AM - 12:00 PM

Topic and faculty to be announced

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# Research To Practice CME Planning Committee Members, Staff and Reviewers

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Nonrelevant Financial Relationship	HCA Healthcare (stock ownership)	



# **Dr Mayer — Disclosures**

Consulting Agreements

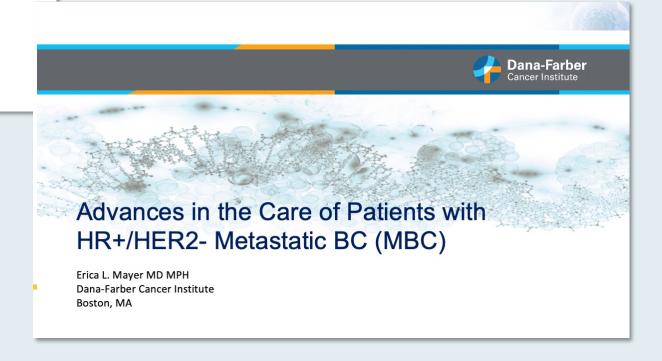
AstraZeneca Pharmaceuticals LP, Lilly, Novartis



# Current and Emerging Strategies for Early-Stage HR-Positive Breast Cancer

Stephanie L. Graff, MD FACP

Legoretta Cancer Center at Brown University
Lifespan Cancer Institute
Providence, Rhode Island





### **Stephanie L Graff, MD, FACP**

- Taylor C et al. Using Oncotype DX breast Recurrence Score® assay to define the role of neoadjuvant endocrine therapy in early-stage hormone receptor-positive breast cancer. Breast Cancer Res Treat 2023;199(1):91-8.
- Trapani D et al. Identifying **patterns** and **barriers** in **Oncotype DX** Recurrence Score testing in **older patients with early-stage**, estrogen receptor-positive breast cancer: Implications for guidance and reimbursement. *JCO Oncol Pract* 2023;19(8):560-70.
- Loi S et al. A randomized, double-blind trial of nivolumab (NIVO) vs placebo (PBO) with neoadjuvant chemotherapy (NACT) followed by adjuvant endocrine therapy (ET) ± NIVO in patients (pts) with high-risk, ER+ HER2- primary breast cancer (BC). ESMO 2023; Abstract LBA20.
- Cardoso F et al. KEYNOTE-756: Phase III study of neoadjuvant pembrolizumab (pembro) or placebo (pbo) + chemotherapy (chemo), followed by adjuvant pembro or pbo + endocrine therapy (ET) for early-stage high-risk ER+/HER2- breast cancer. ESMO 2023; Abstract LBA21.



### **Stephanie L Graff, MD, FACP (continued)**

- Hortobagyi G et al. Ribociclib (RIB) + nonsteroidal aromatase inhibitor (NSAI) as adjuvant treatment
  in patients with HR+/HER2- early breast cancer: Final invasive disease-free survival (iDFS) analysis
  from the NATALEE trial. San Antonio Breast Cancer Symposium 2023; Abstract GS03-03.
- Johnston SRD et al. **Abemaciclib** plus **endocrine therapy** for hormone receptor-positive, HER2-negative, node-positive, **high-risk early breast cancer (monarchE):** Results from a preplanned interim analysis of a randomised, open-label, phase 3 trial. *Lancet Oncol* 2023;24(1):77-90.
- Harbeck N et al. **Adjuvant abemaciclib** plus **endocrine therapy** for HR+, HER2-, **high-risk early breast cancer**: Results from a preplanned **monarchE overall survival interim analysis**, including 5-year efficacy outcomes. ESMO 2023;Abstract LBA17.
- Pagani O et al. **Adjuvant exemestane** with **ovarian suppression** in **premenopausal** breast cancer: Long-term follow-up of the **combined TEXT and SOFT** trials. *J Clin Oncol* 2023;41(7):1376-82.



### **Stephanie L Graff, MD, FACP (continued)**

- Gray RG et al. Effects of **ovarian ablation or suppression** on breast cancer **recurrence and survival**: Patient-level **meta-analysis** of 14,993 pre-menopausal women in 25 randomized trials. ASCO 2023; Abstract 503.
- Partridge AH et al. Interrupting endocrine therapy to attempt pregnancy after breast cancer. N Engl J Med 2023;388(18):1645-56.
- Robertson J et al. **SERENA-3**: A randomized pre-surgical window of opportunity study assessing dose and duration of **camizestrant** treatment in **post-menopausal** women with ER-positive, HER2-negative **primary breast cancer**. San Antonio Breast Cancer Symposium 2023; Abstract RF01-01.



### Erica Mayer, MD, MPH, FASCO

- Jhaveri K et al. Phase III study of inavolisib or placebo in combination with palbociclib and fulvestrant in patients with PIK3CA-mutant, hormone receptor-positive, HER2-negative locally advanced or metastatic breast cancer: INAVO120 primary analysis. San Antonio Breast Cancer Symposium 2023; Abstract GS03-13.
- Goetz M et al. **MONARCH 3: Final overall survival** results of **abemaciclib** plus a nonsteroidal aromatase inhibitor **as first-line therapy** for HR+, HER2- **advanced breast cancer**. San Antonio Breast Cancer Symposium 2023; Abstract GS01-12.
- Turner NC et al. **Capivasertib** in hormone receptor-positive **advanced breast cancer**. *N Engl J Med* 2023;388(22):2058-70.
- Howell S et al. Capivasertib and fulvestrant for patients with aromatase inhibitor-resistant HR positive/HER2-negative advanced breast cancer: Exploratory analysis of PFS by AKT pathway gene from the Phase 3 CAPItello-291 trial. San Antonio Breast Cancer Symposium 2023; Abstract PS17-03.
- Lu J et al. Elacestrant vs standard-of-care in ER+/HER2- advanced or metastatic breast cancer (mBC) with ESR1 mutation: Key biomarkers and clinical subgroup analyses from the phase 3 EMERALD trial.
   San Antonio Breast Cancer Symposium 2023; Abstract PS17-02.



### Erica Mayer, MD, MPH, FASCO (continued)

- Burstein HJ et al. **Testing** for **ESR1** mutations to guide therapy for hormone receptor-positive, human epidermal growth factor receptor 2-negative **metastatic breast cancer: ASCO guideline** Rapid Recommendation Update. *J Clin Oncol* 2023;41(18):3423-5.
- Oliveira M et al. Clinical activity of **camizestrant**, a next-generation SERD, versus **fulvestrant** in patients with a **detectable ESR1 mutation**: Exploratory analysis of the **SERENA-2** phase 2 trial. ASCO 2023; Abstract 1066.
- Jhaveri K et al. Imlunestrant monotherapy and in combination with abemaciclib, with or without an aromatase inhibitor, in estrogen receptor-positive (ER+), HER2-negative (HER2-) advanced breast cancer (aBC): Updated results from the EMBER study. San Antonio Breast Cancer Symposium 2023; Abstract PS15-09.
- Tolaney SM et al. **Final overall survival** (OS) analysis from the phase 3 **TROPICS-02** study of **sacituzumab govitecan** (SG) in patients (pts) with hormone receptor—positive/HER2-negative (HR+/HER2-) metastatic breast cancer **(mBC)**. ASCO 2023; Abstract 1003.



### **Erica Mayer, MD, MPH, FASCO (continued)**

- Bardia A et al. Randomized phase 3 study of **datopotamab deruxtecan vs chemotherapy** for patients with **previously-treated inoperable or metastatic** hormone receptor-positive, HER2-negative breast cancer: Results from **TROPION-Breast01**. San Antonio Breast Cancer Symposium 2023; Abstract GS02-01.
- Modi S et al. Trastuzumab deruxtecan (T-DXd) versus treatment of physician's choice (TPC) in patients (pts) with HER2-low unresectable and/or metastatic breast cancer (mBC): Updated survival results of the randomized, phase III DESTINY-Breast04 study. ESMO 2023; Abstract 3760.
- Modi S et al. Trastuzumab deruxtecan (T-DXd) vs treatment of physician's choice (TPC) in patients (pts) with HER2-low, hormone receptor-positive (HR+) unresectable and/or metastatic breast cancer (mBC): Exploratory biomarker analysis of DESTINY-Breast04. ASCO 2023; Abstract 1020.
- Hamilton EP et al. A phase 2 study of HER3-DXd in patients (pts) with metastatic breast cancer (MBC). ASCO 2023; Abstract 1004.
- Krop IE et al. **Patritumab deruxtecan (HER3-DXd),** a human epidermal growth factor receptor 3-directed antibody-drug conjugate, in patients with previously treated human epidermal growth factor receptor 3-expressing metastatic breast cancer: A multicenter, Phase I/II trial. *J Clin Oncol* 2023;41(36):5550-60.

### **Agenda**

INTRODUCTION: Endocrinology and Pharmacology of Hormonal Therapy for Breast Cancer

MODULE 1: Current and Emerging Strategies for Localized Hormonal Receptor (HR)-Positive Breast Cancer — Dr Graff

MODULE 2: Advances in the Care of Patients with HR-Positive Metastatic Breast Cancer — Dr Mayer



### **Agenda**

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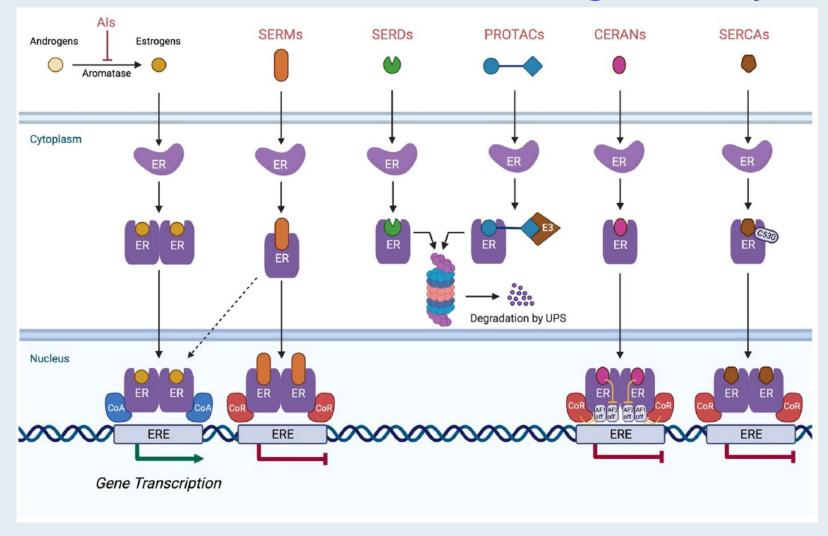
MODULE 2: Advances in the Care of Patients with HR-Positive Metastatic Breast Cancer — Dr Mayer



# 2023: What a year!

- Mirroring the rest of oncology, breast cancer remains an incredibly fast paced field with multiple new agents and evolving data
- New drug approvals and new results continue to modify treatment paradigms
- Toxicity and tolerability are key and may be differentiators
- New findings hopefully result in better and longer outcomes for our patients

### **Mechanisms of Action of Antiestrogen Therapies**



AI = aromatase inhibitor; SERM = selective estrogen receptor modulator; SERD = selective estrogen receptor downregulator; PROTAC = proteolysis-targeting chimera; CERAN = complete estrogen receptor antagonist; SERCA = selective estrogen receptor covalent antagonist; ERE = estrogen-responsive element



# For patients who experience disease progression on a CDK4/6 inhibitor with endocrine therapy for ER-positive metastatic breast cancer, testing is indicated for alterations in which of the following?

- 1. PIK3CA
- 2. ESR1
- 3. AKT/PTEN
- 4. All of the above
- 5. PIK3CA and ESR1 only
- 6. PIK3CA and AKT/PTEN only
- 7. ESR1 and AKT/PTEN only
- 8. I'm not sure



# Beyond the Guidelines: Clinical Investigator Perspectives on the Management of ER-Positive Metastatic Breast Cancer

Part 1 of a 3-Part CME Satellite Symposium Series in Partnership with the 2023 San Antonio Breast Cancer Symposium®

Tuesday, December 5, 2023 7:15 PM – 9:15 PM CT (8:15 PM – 10:15 PM ET)

**Faculty** 

Francois-Clement Bidard, MD, PhD
Erika Hamilton, MD
Komal Jhaveri, MD, FACP

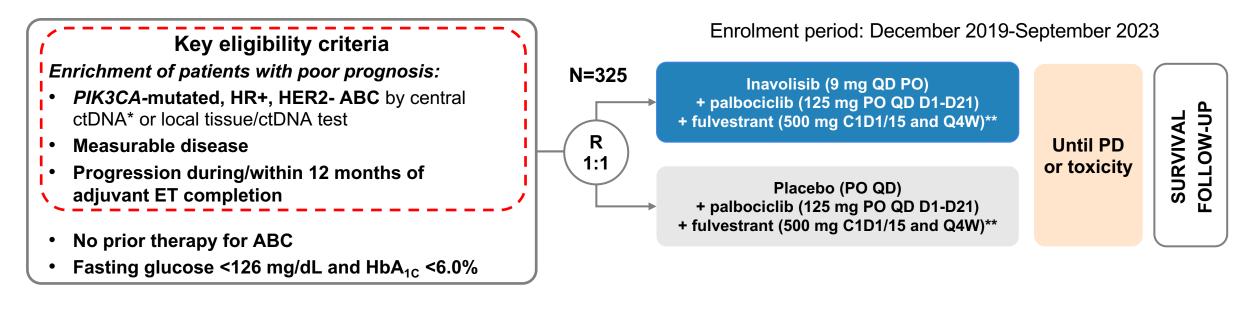
Virginia Kaklamani, MD, DSc Hope S Rugo, MD

**Moderator Neil Love, MD** 





# INAVO120: Phase III study of inavolisib (GDC-0077) or placebo in combination with palbociclib and fulvestrant in PIK3CA-mutant, HR+/HER2- MBC: Study Design



#### **Stratification factors:**

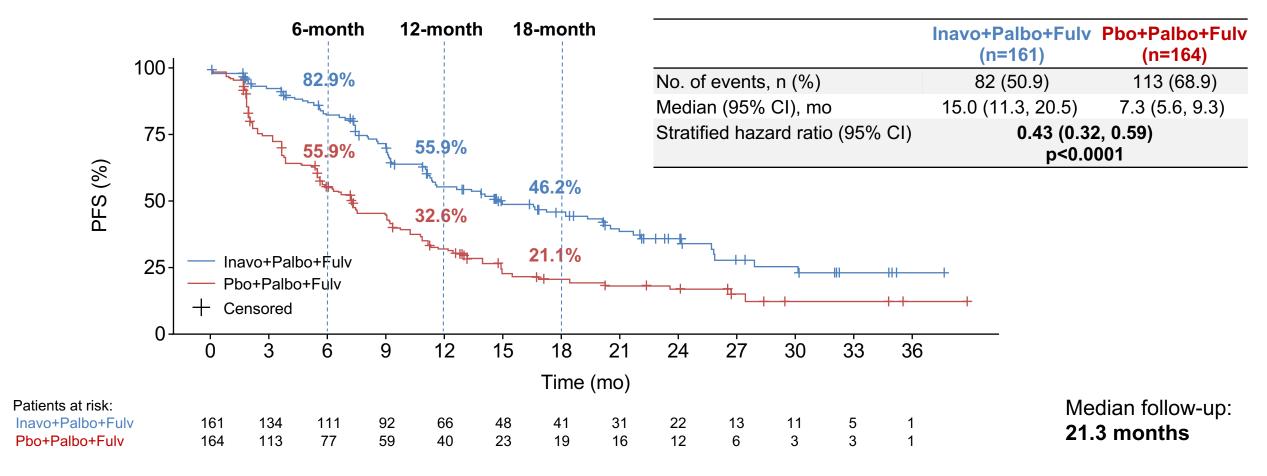
- Visceral Disease (Yes vs. No)
- Endocrine Resistance (Primary vs. Secondary)<sup>†</sup>
- Region (North America/Western Europe; Asia; Other)

#### **Endpoints**

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

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

### INAVO120: Primary endpoint: PFS (investigator assessed)



CCOD: 29th September 2023

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

# INAVO120: Adverse events with any grade AEs ≥20% incidence in either treatment group

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

Key AEs are shown in **bold**. AES were assessed per CTCAE V5. Neutropenia, thrombous assessed as medical concepts using grouped terms

No toxicity prophylaxis used in this trial

AE, adverse event; ALT, alanine aminotransferase; AST, aspartate aminotransferase; Fuiv, Tuivestrant; Inavo, Inavoiisib; Paibo, paibociciib; Pbo, piacebo.

ash were

### INAVO120: Inavolisib

- Reassuring to see improved outcomes in a very high-risk cohort of patients with HR+ MBC.
- Supports need to know PIK3CA mutation status from time of diagnosis of MBC, in 1L setting.
- Palbociclib remains a CDK4/6i option for MBC; may be best tolerated of the agents and easiest to combine in a triplet.
- Population had low BMI and was not diverse; toxicity profile including hyperglycemia and mucositis, may be different in a more "real world" group of patients.
- Next generation mutant specific PIK3CA inhibitors may offer efficacy with minimal hyperglycemia

### **Agenda**

INTRODUCTION: Endocrinology and Pharmacology of Hormonal Therapy for Breast Cancer

**MODULE 1: Current and Emerging Strategies for Localized Hormonal Receptor (HR)-Positive Breast Cancer — Dr Graff** 

MODULE 2: Advances in the Care of Patients with HR-Positive Metastatic Breast Cancer — Dr Mayer

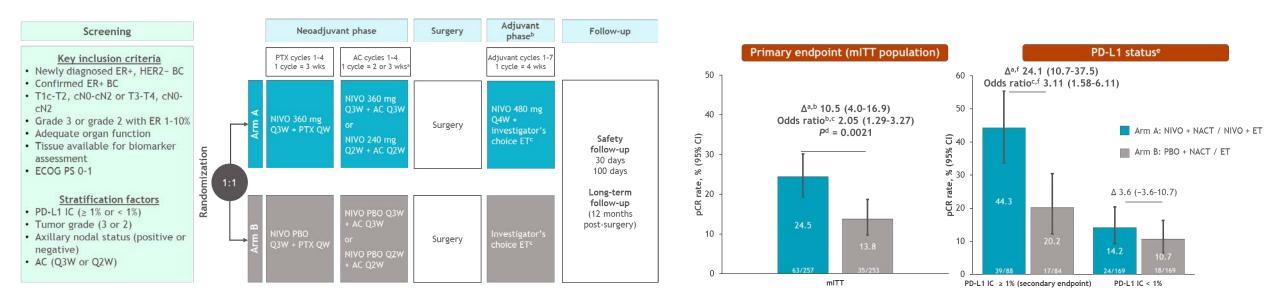


### **Neoadjuvant Immunotherapy**

- Loi S et al. A randomized, double-blind trial of nivolumab (NIVO) vs placebo (PBO) with neoadjuvant chemotherapy (NACT) followed by adjuvant endocrine therapy (ET) ± NIVO in patients (pts) with high-risk, ER+ HER2- primary breast cancer (BC). ESMO 2023; Abstract LBA20.
- Cardoso F et al. KEYNOTE-756: Phase III study of neoadjuvant pembrolizumab (pembro) or placebo (pbo) + chemotherapy (chemo), followed by adjuvant pembro or pbo + endocrine therapy (ET) for early-stage high-risk ER+/HER2- breast cancer. ESMO 2023; Abstract LBA21.



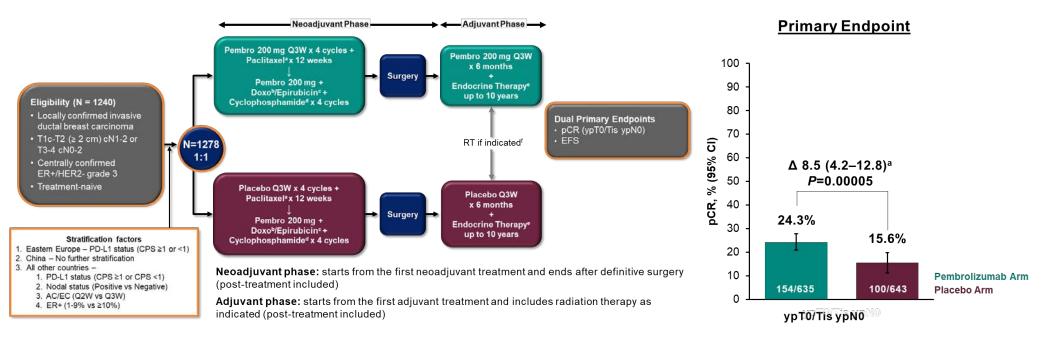
CheckMate 7FL: A randomized, double-blind trial of nivolumab vs placebo with neoadjuvant chemotherapy followed by adjuvant endocrine therapy ± NIVO in patients with high-risk, ER+ HER2- primary breast cancer



- Study population: median age 50, 98% G3, ~45% Stage III, AC dosing 50/50 Q3 vs DD
- The addition of NIVO to NACT/ET increased pCR by 10.5% (24.5% in arm A and 13.8% in arm B)
- The benefit from NIVO was more pronounced in patients with PD-L1 IC ≥ 1% (SP142)
  - Δ pCR of **24.1%** (44.3% in arm A and 20.2% in arm B)
  - Δ RCB 0-1 of **28.5%** (54.5% in arm A and 26.2% in arm B)

### KEYNOTE-756: Phase 3 Study of Neoadjuvant Pembrolizumab or Placebo

- + Chemotherapy Followed by Adjuvant Pembrolizumab or Placebo
- + Endocrine Therapy for Early-Stage High-Risk ER+/HER2- Breast Cancer



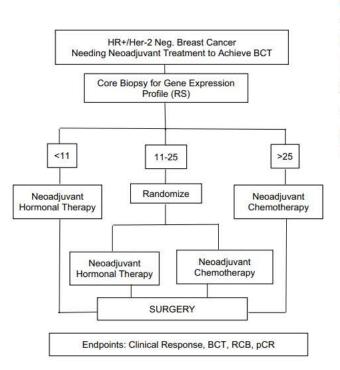
- Study population: median age 49, 100% G3, 90% node positive, 35% T3/T4, AC dosing ~65 Q3 weeks
- The addition of PEMBRO to NACT/ET increased pCR by 8.5%
- Presenter's conclusion: Pembro benefit was "regardless of PD-L1 status"; but magnitude of benefit smaller in PD-L1 negative population ( $\Delta$  4.5% vs 9.8%)
- Rate of Grade 3-5 TRAE Δ 6.1%, and serious TRAE Δ 8.2% in pembro arm
- Will await Event Free Survival before KEYNOTE-756 informs practice

## Use of Oncotype DX® to Define the Role of Neoadjuvant Therapy

- Taylor C et al. Using Oncotype DX breast Recurrence Score® assay to define the **role of neoadjuvant endocrine therapy** in **early-stage** hormone receptor-positive breast cancer. *Breast Cancer Res Treat* 2023;199(1):91-8.
- Trapani D et al. Identifying **patterns** and **barriers** in **Oncotype DX** Recurrence Score testing in **older patients with early-stage**, estrogen receptor-positive breast cancer: Implications for guidance and reimbursement. *JCO Oncol Pract* 2023;19(8):560-70.



# Using Oncotype DX breast Recurrence Score® assay to define the role of neoadjuvant endocrine therapy in early-stage hormone receptor-positive breast cancer



Variable	Group A ( <i>N</i> =21)	Group B $(N=23)$	Group C $(N=22)$	Group D $(N=37)$	P value (a)
pCR Breast	1 (4.8%)	0 (0.0%)	0 (0.0%)	8 (21.6%)	0.0059
pCR Nodes	0 (0.0%)	1 (4.3%)	3 (13.6%)	2 (5.6%)	0.2977
pCR Breast + Nodes	1 (4.8%)	0 (0.0%)	0 (0.0%)	7 (18.9%)	0.0143

<sup>(</sup>a) Fisher's exact test was used for categorical variables with cell counts < 5

Group A=Recurrence Score < 11, Group B=Recurrence Score 11–24 (Emory) or 11–25 (VCU) receiving NET, Group C=Recurrence Score 11–24 (Emory) or 11–25 (VCU) receiving NCT, and Group D=Recurrence Score > 24 (Emory) or > 25 (VCU)

- Further supports TAILORx and RxPONDER
- Two cohorts received significantly different lengths of neoadjuvant endocrine therapy (median 10 months versus 5.5), with no significant differences in pCR across RS result groups between the two institutions

Identifying Patterns & Barriers in Onco*type* DX Recurrence Score Testing in Older Patients With Early-Stage, Estrogen Receptor—Positive Breast Cancer: Implications for Guidance, Reimbursement, Trapani JCO-OP

TABLE A1. Updated Consensus Statements for Surgeon-Triggered OncotypeDX Reflex Testing

Reflex Testing Criteria		
2019-2021	2022-2024	
Age ≤65 years, AND pT1c G2-3 pN0 tumors grade II-III pT2 pN0 tumors of any grade pT1-T2 pN1 tumors of any grade pT3 pN0-N1 tumors any grade Pre- and postmenopausal status	Patient's age ≤65 years, AND pT1c-T3, G1-3, pN0-1 tumors Pre- and postmenopausal status	
Additional settings to consider RS tes	sting	
Per physician's choice	Recurrent scenarios Patients aged 66-72 years pT1b pN0 G2-3 Per physician's choice	

- Authors created cohort of patients >65 years who did not have RS testing for comparison
  - Were older (median age 73 v 69 years)
  - More likely G1 tumors (43.9% v 15.1%)
  - More likely to have not undergone SLNB/ALND (48% v 9.3%)

	Cohort A (Reflex) n=1087 (64.4%)	Cohort B (Case-by- Case) n=600 (35.6%)	Cohort B + Age>65 n=279 (46.5% of Cohort B)
RS Range	0-74 (median 16)	0-62 (median 17)	NR
Low	205 (18.9%)	130 (21.7%)	70 (25.1%)
Intermediate	711 (67.5%)	357 (59.7%)	156 (55.9%)
High	167 (15.4%)	111 (18.6%)	52 (18.6%)
Received Chemotherapy	20.5%	21.8%	15.4%

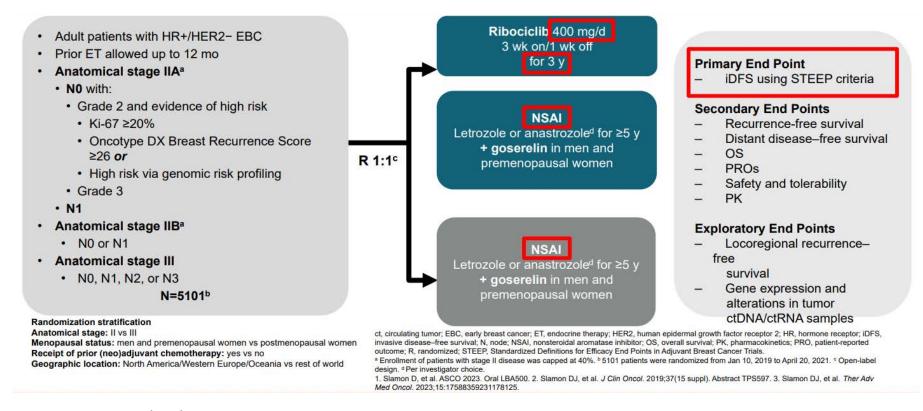
Trapani D et al. Identifying patterns and barriers in OncotypeDX Recurrence Score testing in older patients with early-stage, estrogen receptor-positive breast cancer: Implications for guidance and reimbursement. JCO Oncol Pract 2023;19(8):560-70.

### **Adjuvant CDK4/6 Inhibition**

- Hortobagyi G et al. Ribociclib (RIB) + nonsteroidal aromatase inhibitor (NSAI) as adjuvant treatment in patients with HR+/HER2- early breast cancer: Final invasive disease-free survival (iDFS) analysis from the NATALEE trial. San Antonio Breast Cancer Symposium 2023; Abstract GS03-03.
- Johnston SRD et al. **Abemaciclib** plus **endocrine therapy** for hormone receptor-positive, HER2-negative, node-positive, **high-risk early breast cancer (monarchE):** Results from a preplanned interim analysis of a randomised, open-label, phase 3 trial. *Lancet Oncol* 2023;24(1):77-90.
- Harbeck N et al. **Adjuvant abemaciclib** plus **endocrine therapy** for HR+, HER2-, **high-risk early breast cancer**: Results from a preplanned **monarchE overall survival interim analysis**, including 5-year efficacy outcomes. ESMO 2023;Abstract LBA17.
- Robertson J et al. SERENA-3: A randomized pre-surgical window of opportunity study assessing dose
  and duration of camizestrant treatment in post-menopausal women with ER-positive, HER2negative primary breast cancer. San Antonio Breast Cancer Symposium 2023; Abstract RF01-01.



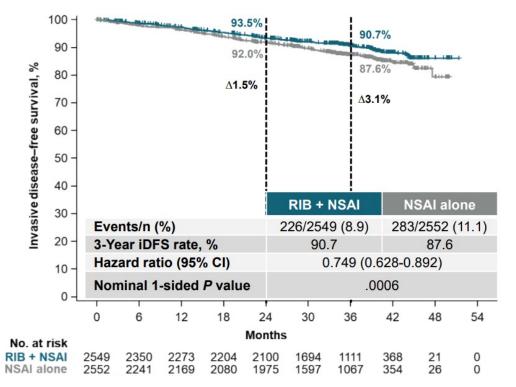
# Ribociclib + Nonsteroidal Aromatase Inhibitor as Adjuvant Treatment in Patients With HR+/HER2- Early Breast Cancer: Final Invasive Disease—Free Survival Analysis From the NATALEE Trial



- <u>Second IE Analysis 1/11/23</u> = 426 iDFS events, 54% stopped Ribo including 20% completing 3 years and 33% stopping early vs <u>Final IDFS Analysis 7/21/23</u> = 509 iDFS events, 78.3% stopped Ribo including 42.8% completing 3 years and 35.5% stopping early
- Median follow-up for IDFS was 33.3 mos (max 51 mos)—5.6 mos more than second IE analysis

Ribociclib + Nonsteroidal Aromatase Inhibitor as Adjuvant Treatment in Patients With HR+/HER2- Early Breast Cancer: Final Invasive Disease—Free Survival Analysis From the NATALEE Trial

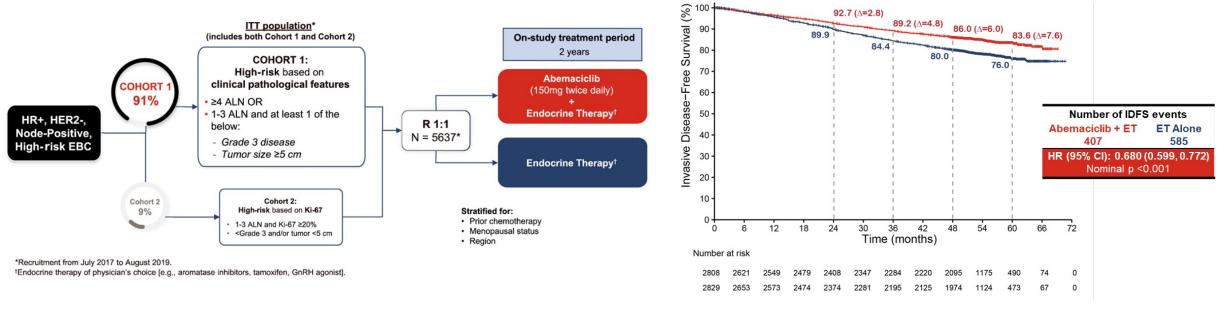
#### Invasive Disease-Free Survival



	RIBO + NSAI	NSAI Alone	
STAGE II			
Events/n (%)	55/1011 (5.44)	80/1034 (7.74)	
3-year IDFS rate, %	94.2	92.6	
Hazard ratio (95% CI)	0.700 (0.496-0.986)		
STAGE III			
Events/n (%)	170/1528 (11.1)	203/1512 (13.4)	
3-year IDFS rate, %	88.1	83.8	
Hazard ratio (95% CI)	0.755 (0.616-0.926)		
	N0		
Events/n (%)	20/285 (7.0)	31/328 (9.5)	
3-year IDFS rate, %	93.2	90.6	
Hazard ratio (95% CI)	0.723 (0.412-1.268)		
N1- N3			
Events/n (%)	206/2261 (9.1)	251/2219 (11.3)	
3-year IDFS rate, %	90.3	87.1	
Hazard ratio (95% CI)	0.759 (0.631-0.912)		

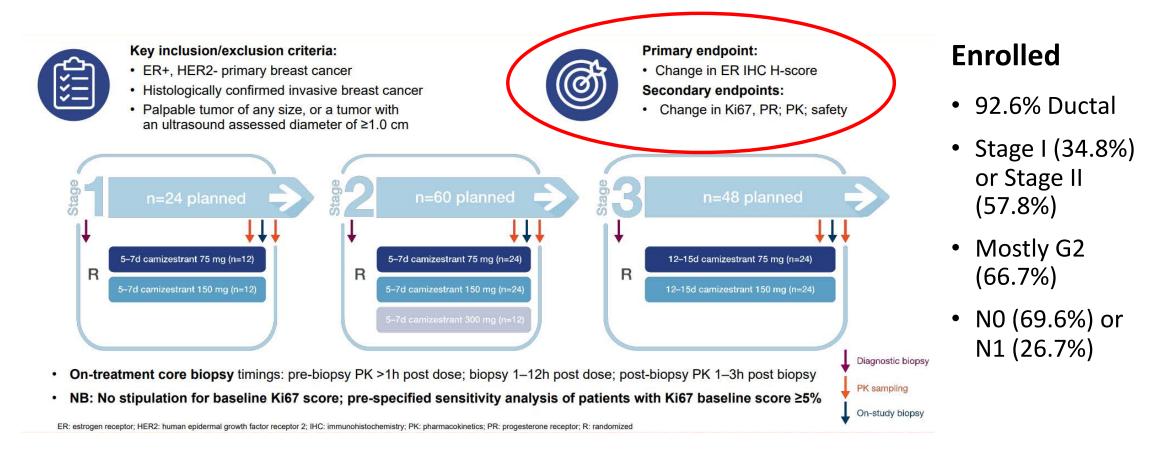
- Absolute iDFS benefit with Ribo plus NSAI was 3.1% at 3 years, a 25.1% relative risk reduction
- iDFS benefit consistent across prespecified subgroups, including patients with stage II, III, nodenegative, and node-positive disease

Adjuvant abemaciclib plus endocrine therapy for HR+, HER2-, high-risk early breast cancer: results from a preplanned monarchE overall survival interim analysis, including 5-year efficacy outcomes



- Overall Survival Interim Analysis 3 (OS IA3) 7/3/2023 = Median follow up 4.5 years (54 mos); all patients completed abemaciclib, with 80% followed 2 years since completion
- 32% risk reduction in IDFS, absolute difference of 7.6% at 5 years
  - 48 mos (Lancet, Jan 2023): 4-year IDFS rate abema + ET 85.8% (95% CI 84.2–87.3) vs. ET alone 79.4% (77.5–81.1), absolute Δ 6.4%
- 32.5% risk reduction in DRFS, absolute difference of 6.7% at 5 years (not shown)

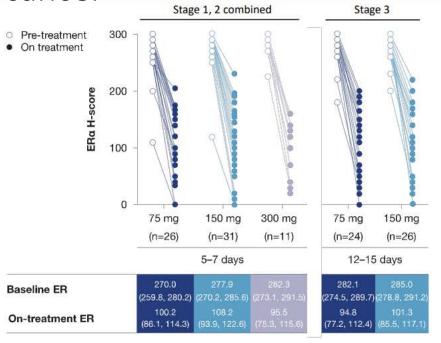
SERENA-3: A randomized pre-surgical window of opportunity study assessing dose and duration of camizestrant treatment in postmenopausal women with ER-positive, HER2-negative primary breast cancer



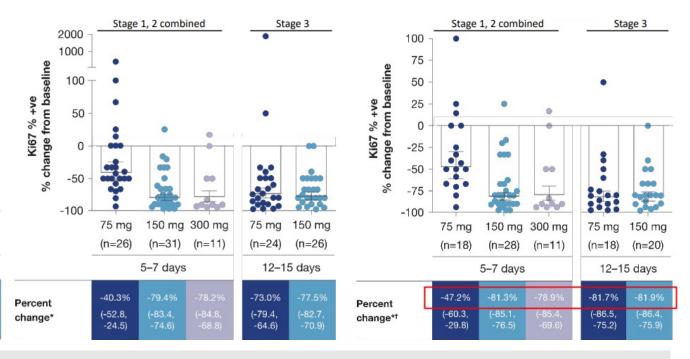
Robertson J et al. SERENA-3: A randomized pre-surgical window of opportunity study assessing dose and duration of camizestrant treatment in post-menopausal women with ER-positive, HER2-negative primary breast cancer. San Antonio Breast Cancer Symposium 2023; Abstract RF01-01.

SERENA-3: A randomized pre-surgical window of opportunity study assessing dose and duration of camizestrant treatment in postmenopausal women with ER-positive, HER2-negative primary breast

cancer



Camizestrant effectively degrades  $\text{ER}\alpha$  on treatment across stages, treatment doses & duration of exposure



After 5-7 days of exposure, ki-67 is reduced; more effectively at 150 and 300 mg than at 75 mg. After 12-15 days of exposure, ki-67 reduced ~82% for both 75 and 150 mg doses

### **Agenda**

INTRODUCTION: Endocrinology and Pharmacology of Hormonal Therapy for Breast Cancer

MODULE 1: Current and Emerging Strategies for Localized Hormonal Receptor (HR)-Positive Breast Cancer — Dr Graff

MODULE 2: Advances in the Care of Patients with HR-Positive Metastatic Breast Cancer — Dr Mayer



### **Choice of First-Line CDK4/6 Inhibitor**

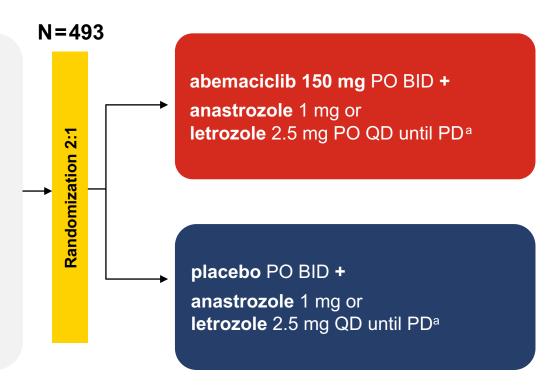
• Goetz M et al. **MONARCH 3: Final overall survival** results of **abemaciclib** plus a nonsteroidal aromatase inhibitor **as first-line therapy** for HR+, HER2- **advanced breast cancer**. San Antonio Breast Cancer Symposium 2023; Abstract GS01-12.



## **MONARCH 3 Study Design**

#### **Eligibility Criteria:**

- HR+, HER2- ABC
- Postmenopausal
- Metastatic or locoregionally recurrent disease with no prior systemic therapy in this setting
- If (neo)adjuvant ET administered, a disease-free interval of >12 months since completion of ET
- ECOG PS ≤1



#### Primary Endpoint<sup>5</sup>

Investigator-assessed PFS

#### **Key Secondary Endpoints**

**Overall survival**, response rates, safety

#### **Exploratory Endpoint**

Chemotherapy-free survival

#### **Stratification Factors**

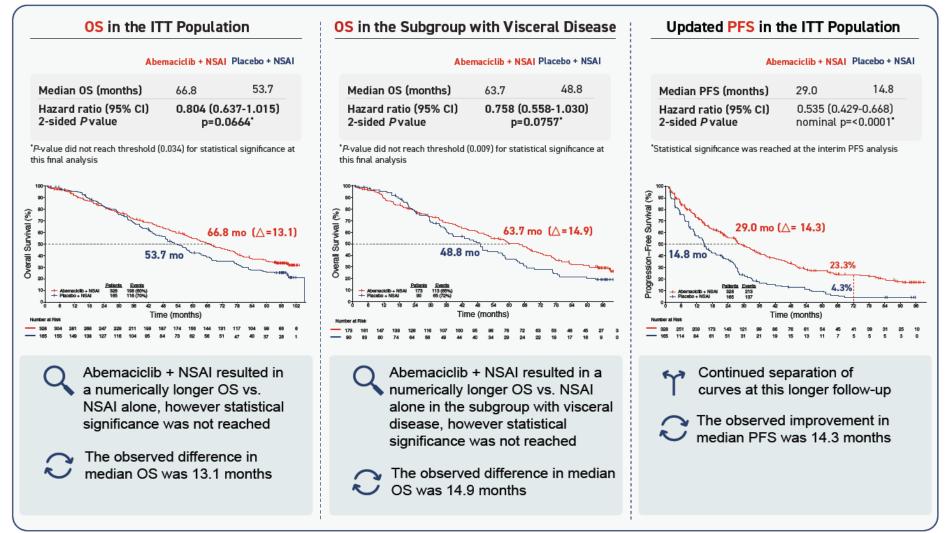
- Metastatic site (visceral, bone only, or other)
- Prior ET (AI, no ET, or other)

MONARCH 3 enrolled from November 2014 to November 2015 in 158 centers from 22 countries

<sup>a</sup>per physician's choice: 79.1% received letrozole, 19.9% received anastrozole <sup>5</sup>Goetz MP, et al. *J Clin Oncol.* 2017;35(32):3638-3646

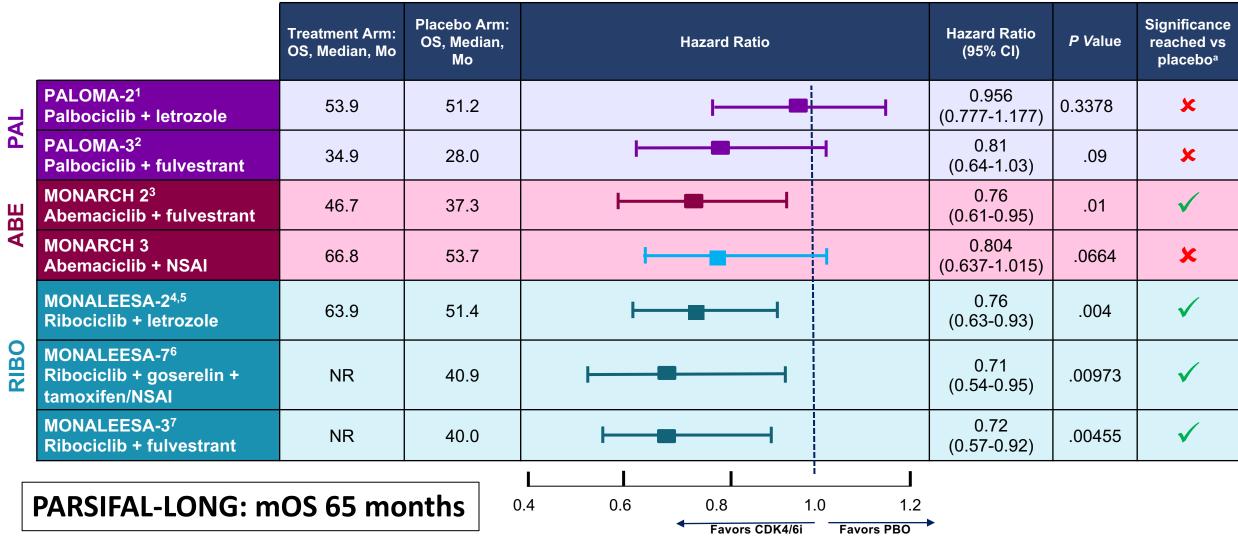
Courtesy of Erica Mayer, MD, MPH, FASCO

# **MONARCH 3** Final OS results of abemaciclib plus AI as first-line therapy for HR+, HER2- advanced breast cancer



Courtesy of Erica Mayer, MD, MPH, FASCO

# Overall Survival in Patients Treated with CDK4/6i for Metastatic Disease



<sup>&</sup>lt;sup>a</sup> The red × denotes trials that did not report significant median OS compared with placebo. ABC, advanced breast cancer; ABE, abemaciclib; NR, not reached; NSAI, non-steroidal aromatase inhibitor; OS, overall survival; RIBO, ribociclib; PAL, palbociclib. 1. Finn RS, et al. J Clin Oncol. 2022; 40 (suppl 17; abstr LBA1003). 2. Turner NC, et al. N Engl J Med. 2018;379:1926-1936. 3. Sledge GW, et al. N Engl J Med. 2022;386:942-950. 5. Hortobagyi GN, et al. N Engl J Med. 2020;382:514-524.

### MONARCH 3 OS

- Smaller trial than other 1L CDK4/6i trials: 2:1 randomization and split alpha create statistical challenges versus the other larger trials
- OS benefits are somewhat washed out with subsequent therapies
- 1 in 5 patients without progression at 8 years
- PARSIFAL-LONG 65-month median OS for palbociclib, may revive interest in the agent
- For now, tend to select ribociclib, but abemaciclib is a reasonable alternative, especially if ribociclib not feasible

## **Capivasertib**

- Turner NC et al. **Capivasertib** in hormone receptor-positive **advanced breast cancer**. *N Engl J Med* 2023;388(22):2058-70.
- Howell S et al. Capivasertib and fulvestrant for patients with aromatase inhibitor-resistant HR
  positive/HER2-negative advanced breast cancer: Exploratory analysis of PFS by AKT pathway gene
  from the Phase 3 CAPItello-291 trial. San Antonio Breast Cancer Symposium 2023; Abstract PS17-03.

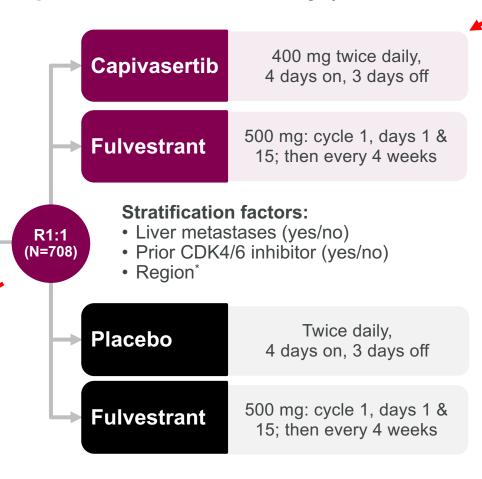


## **CAPItello-291: Study overview**

Phase III, randomized, double-blind, placebo-controlled study (NCT04305496)

#### Patients with HR+/HER2- ABC

- Men and pre-/post-menopausal women
- Recurrence or progression while on or <12 months from end of adjuvant AI, or progression while on prior AI for ABC
- ≤2 lines of prior endocrine therapy for ABC
- ≤1 line of chemotherapy for ABC
- Prior CDK4/6 inhibitors allowed (at least 51% required)
- No prior SERD, mTOR inhibitor, PI3K inhibitor, or AKT inhibitor
- HbA1c <8.0% (63.9 mmol/mol) and diabetes not requiring insulin allowed
- FFPE sample from the primary/recurrent cancer available for retrospective central molecular testing



#### **Dual primary endpoints**

PFS by investigator assessment

- Overall
- AKT pathway–altered s (≥1 qualifying PIK3CA, AKT1, or PTEN alteration)

#### **Key secondary endpoints**

#### **Overall survival**

- Overall
- AKT pathway—altered s

#### Objective response rate

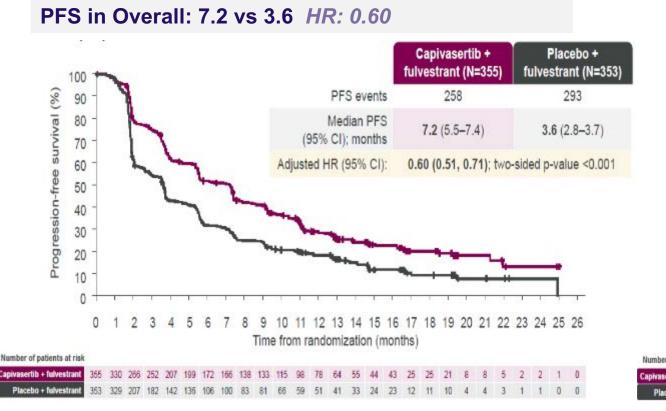
- Overall
- AKT pathway–altered s

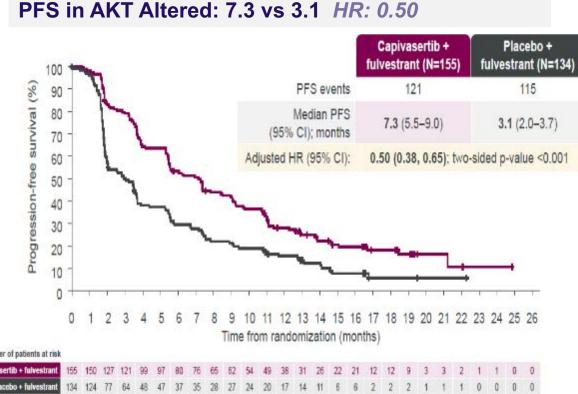
HER2- was defined as IHC 0 or 1+, or IHC 2+/ISH-. \*Region 1: United States, Canada, Western Europe, Australia, and Israel, Region 2: Latin America, Eastern Europe and Russia vs Region 3: Asia. ABC, advanced (locally advanced [inoperable] or metastatic) breast cancer.

Pre- or peri-menopausal women also received a luteinizing hormone-releasing hormone agonist for the duration of the study treatment Turner NC, et al. SABCS 2022. Abstract GS3-04.

# CAPItello-291 Dual Primary Endpoints: PFS in Overall and AKT Pathway-altered Populations

Capivasertib plus fulvestrant provides a statistically significant and clinically meaningful improvement in PFS in the overall and the AKT pathway-altered populations

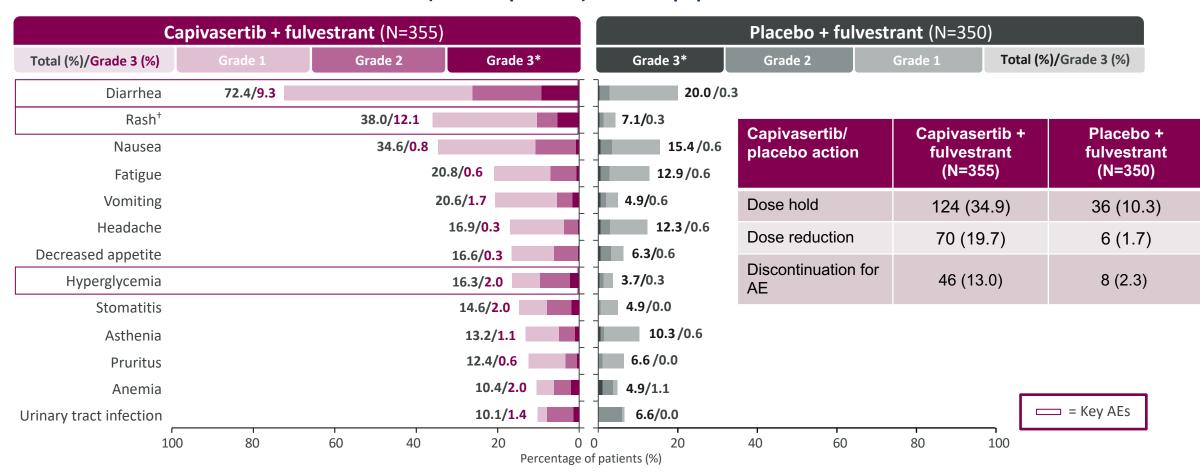




<sup>+</sup> indicates a censored observation. HR was estimated using the Cox proportional hazard model stratified by the presence of liver metastases, prior use of CDK4/6 inhibitor, and geographic region. Turner NC, et al. SABCS 2022. Abstract GS3-04.

### **CAPItello-291 Adverse Event Profile**

AEs (>10% of patients) – overall population



Turner NC, et al. N Engl J Med. 2023;388(22):2058-2070.

<sup>\*</sup>All events shown were Grade 3 except 1 case of Grade 4 hyperglycemia in the capivasertib + fulvestrant arm.

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

## CAPItello-291 - capivasertib

- The combination of capivasertib and fulvestrant is now an approved therapy for pretreated HR+/HER2- MBC with a PIK3CA/AKT1/PTEN-alteration.
- Supports need for tumor genomic profiling; ctDNA may be preferred
- Toxicity profile may be a differentiator:
  - Notable for diarrhea and rash; nausea and fatigue also observed.
  - Less hyperglycemia than seen with alpelisib in a population including diabetics, although glucose monitoring is necessary.
  - Consider prophylactic antihistamine for rash; educate patients about antidiarrheal use.
  - May be a preferred choice compared to alpelisib, especially if concerned about hyperglycemia.

### **Oral SERDs**

- Lu J et al. **Elacestrant** vs standard-of-care in ER+/HER2- advanced or metastatic breast cancer **(mBC)** with **ESR1 mutation**: Key biomarkers and clinical subgroup analyses from the phase 3 **EMERALD** trial. San Antonio Breast Cancer Symposium 2023; Abstract PS17-02.
- Burstein HJ et al. **Testing** for **ESR1** mutations to guide therapy for hormone receptor-positive, human epidermal growth factor receptor 2-negative **metastatic breast cancer: ASCO guideline** Rapid Recommendation Update. *J Clin Oncol* 2023;41(18):3423-5.
- Oliveira M et al. Clinical activity of **camizestrant**, a next-generation SERD, versus **fulvestrant** in patients with a **detectable ESR1 mutation**: Exploratory analysis of the **SERENA-2** phase 2 trial. ASCO 2023; Abstract 1066.
- Jhaveri K et al. Imlunestrant monotherapy and in combination with abemaciclib, with or without an aromatase inhibitor, in estrogen receptor-positive (ER+), HER2-negative (HER2-) advanced breast cancer (aBC): Updated results from the EMBER study. San Antonio Breast Cancer Symposium 2023; Abstract PS15-09.



# EMERALD Phase 3 Trial of Elacestrant vs SOC in ER+/HER2-MBC: Study Design and Patients<sup>1,2</sup>

#### **Key Eligibility Criteria**

- ER+/HER2- MBC
- 1-2 prior lines of ET, one of which in combination with CDK4/6i
- ≤1 line of chemotherapy for advanced disease
- ECOG PS 0-1



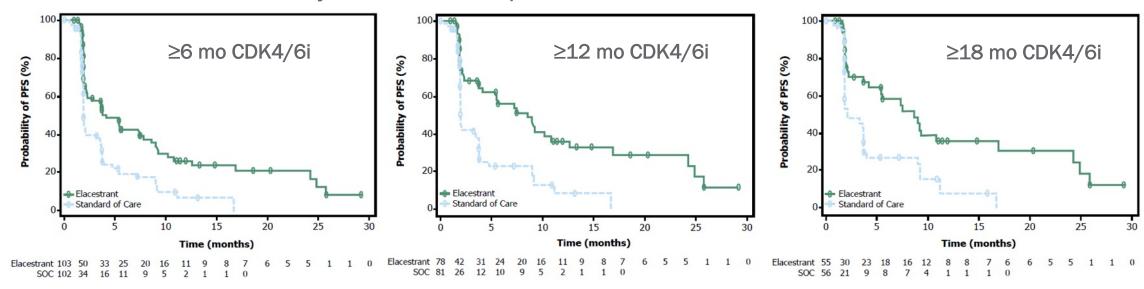
**Primary endpoints**°: PFS in all, PFS in *ESR1*mut patients **Secondary endpoints**: OS, safety

Dationt Obou		Elace	strant	SC	OC	
Patient Characteristics, n (%)		All <i>ESR1</i> mut (n=239) (n=115)		All (n=239)	<i>ESR1</i> mut (n=115)	
Median age	(range), years	63 (24-89)	64 (28-89)	63 (32-83)	63 (32-83)	
FOOC DC	0	143 (59.8)	67 (58.3)	135 (56.5)	61 (54.9)	
ECOG PS	1	96 (40.2)	48 (41.7)	103 (43.1)	51 (45.1)	
Visceral met	Visceral metastasis, %		81 (70.4)	170 (71.1)	84 (74.3)	
Prior CDK4/	6i	239 (100)	0) 115 (100) 239 (100)		113 (100)	
Prior lines	1	129 (54.0)	73 (63.5)	142 (59.4)	69 (61.1)	
of ET	2	110 (46.0)	42 (36.5)	97 (40.6)	44 (38.9)	
	Fulvestrant	70 (29.3)	27 (23.5)	75 (31.4)	28 (24.8)	
Type of prior ET	Al	193 (80.8)	101 (87.8)	194 (81.2)	96 (85.0)	
Tamoxifen		19 (7.9)	9 (7.8)	15 (6.3)	9 (8.0)	
Prior lines	0	191 (79.9)	89 (77.4)	180 (75.3)	81 (71.7)	
of Chemo	1	48 (20.1)	26 (22.6)	59 (24.7)	32 (28.3)	

<sup>&</sup>lt;sup>a</sup> Protocol-defined dose reductions permitted. <sup>b</sup> Restaging CT scans every 8 weeks. <sup>c</sup> By BICR.

# EMERALD: PFS in *ESR1*mut Population by Duration of Prior CDK4/6i

PFS by Duration of CDK4/6i in Patients With ESR1mut Tumors



PFS by Duration of	Duration of ≥6 Months			lonths	≥18 Months		
CDK4/6i	Elacestrant (n=103) SOC (n=102) Elacestrant (n=78) SOC (n=81)		SOC (n=81)	Elacestrant (n=55)	SOC (n=56)		
mPFS, mo (95% CI)	4.14 (2.20-7.79)	1.87 (1.87-3.29)	8.61 (4.14-10.84)	1.91 (1.87-3.68)	8.61 (5.45-16.89)	2.10 (1.87-3.75)	
12-mo PFS rate, % (95% CI)	26.02 (15.12-36.92)	6.45 (0.00-13.65)	35.81 (21.84-49.78)	8.39 (0.00-17.66)	35.79 (19.54-52.05)	7.73 (0.00-20.20)	
HR (95% CI)	<b>0.517</b> (0.361-0.738)		0.410 (0.262-0.634)		0.466 (0.270-0.791)		

## Phase 3 EMERALD Biomarker & Subgroup Analysis

Subgroup analysis (by sites of metastases, common coexisting mutations [PIK3CA, TP53], and HER2-low status) of patients with endocrine sensitive (CDK4/6i for ≥12 mos) HR+ MBC with ESR1 mutations, revealed clinically meaningful improvement in PFS favoring elacestrant vs SOC was consistent across all relevant subgroups

# Improvement in PFS Favoring Elacestrant Compared With SOC Was Consistent Across All Relevant Subgroups in Patients With ESR1-mut

#### PFS Summary in ESR1-mut Patients With ≥12 Months of Prior CDK4/6 Inhibitor

		Median PFS, months (95% CI)					
Patients	% (n)	Elacestrant	soc	HR (95% CI)			
All ESR1-mut patients9	<b>100</b> (159)	<b>8.61</b> (4.14–10.84)	<b>1.91</b> (1.87–3.68)	0.410 (0.262-0.634)			
ESR1-mut and bone metastases <sup>a</sup>	<b>86</b> (136)	<b>9.13</b> (5.49–16.89)	<b>1.91</b> (1.87–3.71)	0.381 (0.230-0.623)			
ESR1-mut and liver and/or lung metastases <sup>b</sup>	<b>71</b> (113)	<b>7.26</b> (2.20–10.84)	<b>1.87</b> (1.84–1.94)	0.354 (0.209-0.589)			
ESR1-mut and PIK3CA-mut°	<b>39</b> (62)	<b>5.45</b> (2.14–10.84)	<b>1.94</b> (1.84–3.94)	<b>0.423</b> (0.176-0.941)			
ESR1-mut and HER2-low expression <sup>d</sup>	48 (77)	<b>9.03</b> (5.49–16.89)	<b>1.87</b> (1.84–3.75)	<b>0.301</b> (0.142–0.604)			
ESR1-mut and TP53-mut	38 (61)	8.61 (3.65-24.25)	<b>1.87</b> (1.84–3.52)	0.300 (0.132-0.643)			

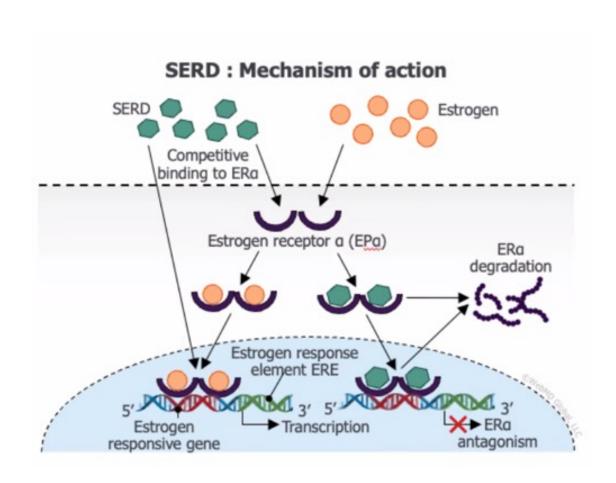
\*85% of patients had bone and other sites of metastases (30% of these patients had no liver or lung involvement); \*55% of patients had liver and other sites of metastases (10% of these patients had no lung or bone involvement); 25% of patients had lung and other sites of metastases (2% of these patients had no liver or bone involvement); \*Includes E545K, H1047R, E542K amongst others; \*HER2 IHC 1+, and 2+ with no ISH amplification. Data not available for all patients

## **EMERALD Subgroup Analysis**

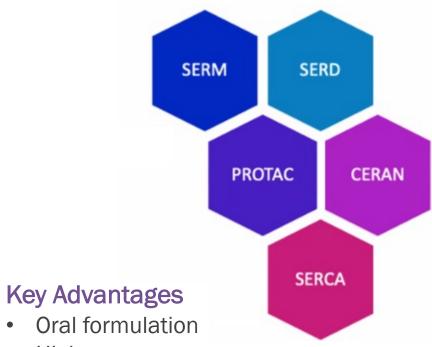
- Elacestrant monotherapy is an option in MBC with ESR1 mutation and retained endocrine sensitivity (eg, prior CDK4/6 inhibitor duration ≥12 months)
- In that situation, the ER pathway could be the main driver of disease, regardless of the metastatic site or coexistence of PIK3CA-mut, TP53-mut, or HER2-low expression.
- If there are both ESR1 and PIK3CA mutations or HER2-low, could prioritize elacestrant as a well tolerated option before moving to capivasertib, alpelisib, or T-DXd.
- Await results of studies of elacestrant combinations.
- ESR1 is a kinetic mutation that develops over time; supports need to check ESR1 status at time of PD.



### **Novel Endocrine Therapies May Address Endocrine Resistance in MBC**



Hernando et al. Int J Mol Sci. 2021; slide adapted from Erika Hamilton.

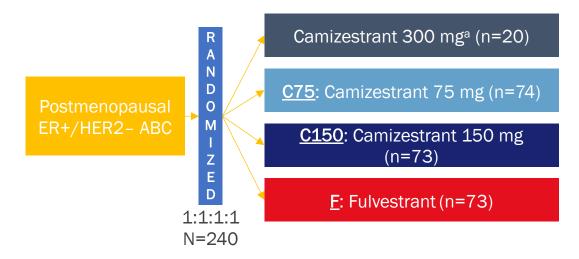


- Higher potency
- Activity in ESR1mut MBC
- Activity in post-ET and CDK4/6i treated pts
- Can be well tolerated

# SERENA-2: Phase 2 Trial of Camizestrant vs Fulvestrant in ER+/HER2- MBC: Study Design and Patients

#### **Key Eligibility Criteria**

- Recurrence or progression on ≥1 line of ET
- No prior fulvestrant or oral SERD in ABC
- ≤1 line of ET in ABC setting
- ≤1 line chemotherapy in ABC setting
- Measurable and nonmeasurable disease



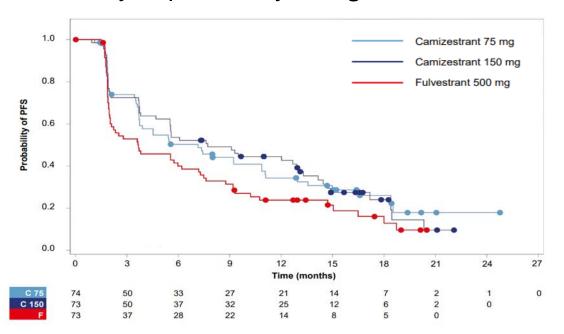
Primary endpoint: PFS by investigator<sup>b</sup>
Secondary endpoints: CBR24, ORR, OS, safety
Translational endpoints: Serial CTC and ctDNA (*ESR1*mut) analyses

Patient Characteristics, %		C75 (n=74)	C150 (n=73)	F (n=73)	
Median age (range), years		61 (37-79)	60 (42-84)	60 (35-84)	
ER+		100	100	100	
ECOG PS 0		62.2	57.5	58.9	
Lung/liver meta	stasis	58.1	58.9	58.9	
Liver metasta	isis	31.1	41.1	47.9	
ESR1mut detect	table <sup>c</sup>	29.7	35.6	47.9	
Chemotherapy	in ABC	21.6	12.3	26.0	
ET adjuvant	Al	40.5	35.6	31.5	
ET adjuvant	SERM	32.4	45.2	43.8	
	0 lines	37.8	28.8	26.0	
ET in ABC	1 line	62.2	71.2	74.0	
ET III ABC	Al	55.4	67.1	67.1	
	SERM	6.8	2.7	6.8	
Prior CDK4/6id		51.4	50.7	50.7	
Palbociclib		21.6	31.5	30.1	
Ribociclib		23.0	19.2	16.4	
Abemaciclib		5.4	1.4	4.1	

<sup>&</sup>lt;sup>a</sup> CSP v5 amendment: December 16, 2020. <sup>b</sup> Disease progression defined using RECIST v1.1. <sup>c</sup> ESR1mut assessed in plasma samples at screening and C1D1; ESR1mut defined as E380Q, V422del, S463P, L536H/P/R, Y537C/D/N/S, D538G, individual mutations present in >2% total cases reported. <sup>d</sup> Missing or not specified in 3 patients.

## SERENA-2: PFS in ITT

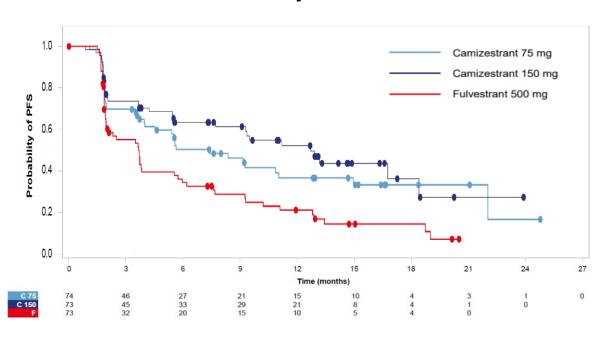
#### Primary Endpoint: PFS by Investigator Assessment



	C75 (n=74)	C150 (n=73)	F (n=73)
Median follow-up, mo	16.6	16.6	17.4
Events, n (%)	50 (67.6)	51 (69.9)	58 (79.5)
mPFS, mo (90% CI)	7.2 (3.7-10.9)	7.7 (5.5-12.9)	3.7 (2.0-6.0)
Adjusted HR <sup>a</sup> (90% CI)	0.58 (0.41-0.81)	0.67 (0.48-0.92)	-
P value	0.0124 <sup>b</sup>	0.0161 <sup>b</sup>	-

<sup>&</sup>lt;sup>a</sup> HR adjusted for prior use of CDK4/6i and liver/lung metastases. <sup>b</sup> Statistically significant.

#### PFS by BICR



	C75 (n=74)	C150 (n=73)	F (n=73)
Events, n (%)	39 (52.7)	33 (45.2)	53 (72.6)
mPFS, mo (90% CI)	7.4 (4.5-10.9)	12.7 (9.3-18.4)	3.7 (2.0-3.8)
Adjusted HR <sup>a</sup> (90% CI)	0.56 (0.39-0.80)	0.47 (0.33-0.68)	-
P value	0.0079 <sup>b</sup>	0.0004 <sup>b</sup>	-

## SERENA-2: Exploratory Analysis

- Camizestrant monotherapy has shown promising data over fulvestrant in patients with HR+/HER2- MBC and an ESR1 mutation
- The agent retains activity regardless of number or type of ESR1 mutations
- Ongoing studies are looking at:
  - Camizestrant combinations
  - Other oral SERDs in combinations: giredestrant, imlunestrant
  - ARV-471 (vepdegestrant, PROTAC), OP-1250 (CERAN)
- Likely will be a rapidly expanding space in the next 1-2 years

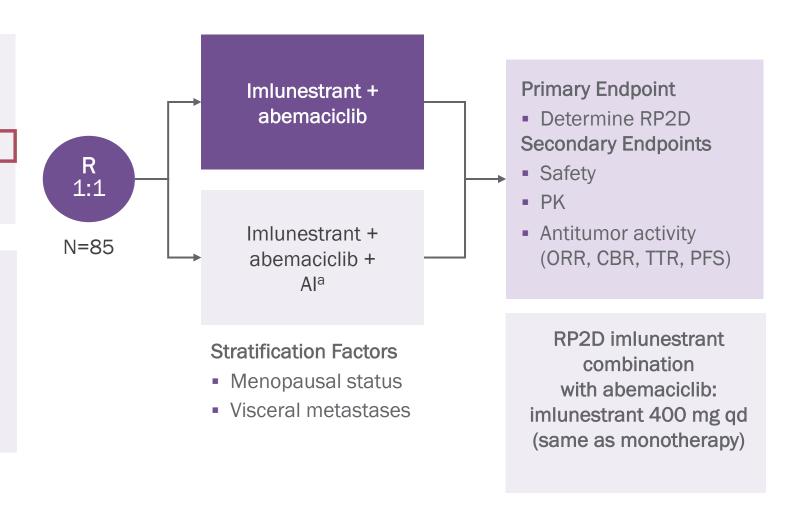
## **Novel Oral Endocrine Therapies: SERD, CERAN, PROTAC**

Agent	Disease setting	Select ongoing trials		
	ORAL SERDs			
Elacestrant (RAD1901)	Advanced/Metastatic	EMERALD, ELEVATE		
Giredestrant (GDC-9545)	Advanced/Metastatic	persevERA, acelERA, evERA. pionERA		
•	Neoadjuvant	coopERA		
	Adjuvant	lidERA		
Camizestrant (AZD9833)	Advanced/Metastatic	SERENA-1,-2,-4, -6		
,	Neoadjuvant	SERENA-3		
	Adjuvant	CAMBRIA, CAMBRIA-2		
	Advanced/Metastatic	EMBER		
Imlunestrant (LY3484356)	Neoadjuvant	EMBER-2		
	Adjuvant	EMBER-4		
	Other novel agents			
ARV-471	Advanced/Metastatic	NCT04072952		
OP-1250	Advanced/Metastatic	NCT04505826		

# EMBER: Phase 1a/b Study of Imlunestrant With Abemaciclib ± AI in ER+ ABC: Study Design

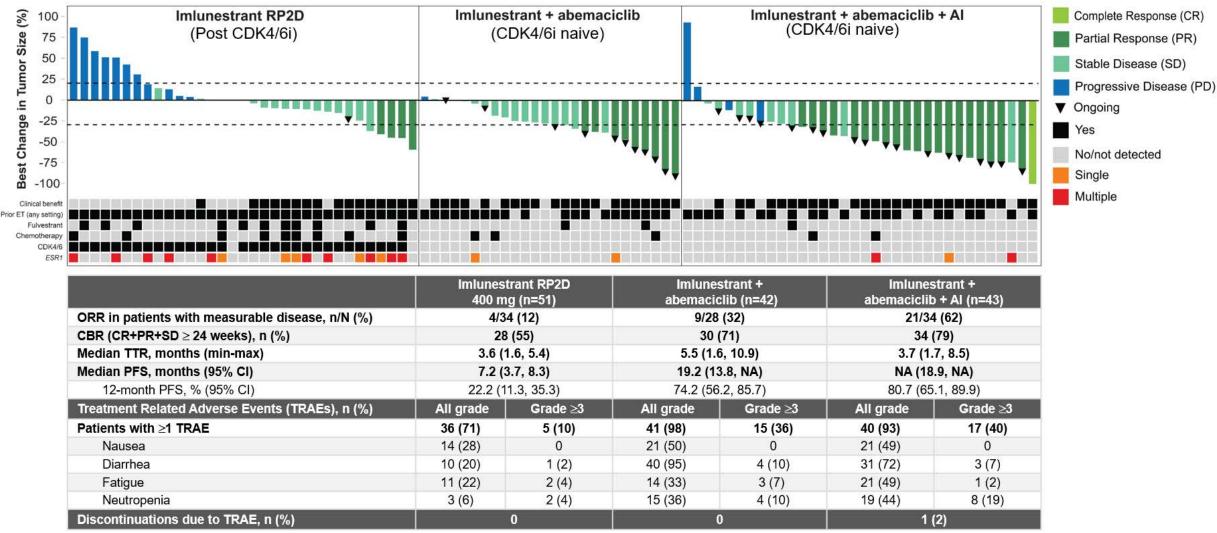
#### **Key Eligibility Criteria**

- ER+/HER2- ABC
- ≤1 line of prior therapy of ABC
- No prior CDK4/6i
- Demonstrated prior sensitivity to ET or have untreated de novo ABC
- Imlunestrant PO qd with abemaciclib (150 mg bid) ± Al in 28-day cycles
- Men and premenopausal women received concomitant GnRH agonist
- Cutoff date Oct 6, 2022



<sup>&</sup>lt;sup>a</sup> Al was physician's choice of anastrozole, letrozole, or exemestane at standard doses. Jhaveri KL. et al SABCS 2023, Abstract PS15-09.

# EMBER: Imlunestrant With Abemaciclib ± Al: Efficacy & Safety Summary



CBR, clinical benefit rate; NA, not available; ORR, objective response rate; PFS, progression free-survival; TTR, time to response

## EMBER: Imlunestrant With Abemaciclib ± AI: Summary

- Imlunestrant monotherapy was well tolerated; no new safety signals observed
  - RP2D was determined as 400mg QD
- ullet Combination with abemaciclib  $\pm$  AI revealed no new safety signals and no drug-drug interactions
- Clinical activity is encouraging with imlunestrant monotherapy, especially at the RP2D and particularly in the 2L post-CDK4/6i setting. Robust efficacy is observed with imlunestrant in combination with abemaciclib ± AI
- Pivotal Phase 3, randomized, open-label registration trials of imlunestrant are ongoing:
  - EMBER-3 (NCT04975308): Imlunestrant, investigator's choice ET (fulvestrant or AI), and imlunestrant + abemaciclib in ER+/HER2- ABC previously treated with ET
  - EMBER-4 (NCT05514054): Adjuvant imlunestrant vs. adjuvant ET in patients who have previously received 2 to 5 years of adjuvant ET for ER+/HER2- early BC with an increased risk of recurrence

### **Antibody-Drug Conjugates**

- Modi S et al. **Trastuzumab deruxtecan (T-DXd)** versus treatment of physician's choice (TPC) in patients (pts) with **HER2-low** unresectable and/or metastatic breast cancer (mBC): **Updated survival** results of the randomized, phase III **DESTINY-Breast04 study.** ESMO 2023; Abstract 376O.
- Bardia A et al. Randomized phase 3 study of datopotamab deruxtecan vs chemotherapy for patients with previously-treated inoperable or metastatic hormone receptor-positive, HER2-negative breast cancer: Results from TROPION-Breast01. San Antonio Breast Cancer Symposium 2023; Abstract GS02-01.
- Hamilton EP et al. A phase 2 study of HER3-DXd in patients (pts) with metastatic breast cancer (MBC). ASCO 2023; Abstract 1004.
- Krop IE et al. **Patritumab deruxtecan (HER3-DXd),** a human epidermal growth factor receptor 3-directed antibody-drug conjugate, in patients with previously treated human epidermal growth factor receptor 3-expressing metastatic breast cancer: A multicenter, Phase I/II trial. *J Clin Oncol* 2023;41(36):5550-60.



## Antibody-drug conjugates in breast cancer

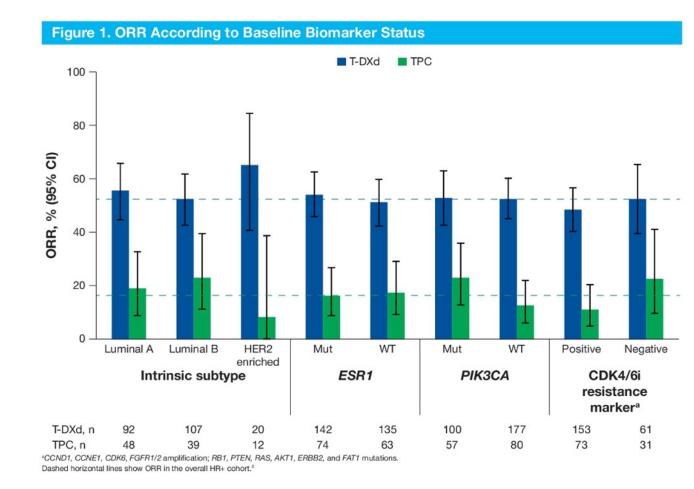
	Trastuzumab emtansine (T-DM1)	Trastuzumab deruxtecan (T-DXd)	Trastuzumab duocarmazine (SYD985)	Disitamab vedotin (RC48-ADC)	Sacituzumab govitecan	Datopotamab deruxtecan (Dato-DXd)	Patritumab deruxtecan (U3-1402)	Ladiratuzumab vedotin (SGN-LIV1A)
Target	HER2	HER2	HER2	HER2	TROP2	TROP2	HER3	LIV1A
Payload	Microtubule inhibitor (DM1)	Topoisomerase I inhibitor (DXd)	DNA alkylation (duocarmazine)	Microtubule inhibitor (MMAE)	Topoisomerase I inhibitor (SN38)	Topoisomerase I inhibitor (DXd)	Topoisomerase I inhibitor (DXd)	Microtubule inhibitor (MMAE)
Linker cleavage	No	Enzymatic (peptidase)	Enzymatic (peptidase)	Enzymatic (peptidase)	Enzymatic and pH-dependent	Enzymatic (peptidase)	Enzymatic (peptidase)	Enzymatic (peptidase)
Bystander effect	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DAR	3.5	~8	~2.8	4	7.6	4	7.8	4
Dosing	D1 (Q3W)	D1 (Q3W)	D1 (Q3W)	D1 (Q2W)	D1, D8 (Q3W)	D1 (Q3W)	D1 (Q3W)	D1 (Q1W or Q3W)

# T-DXd versus TPC in HER2-low MBC: Updated survival results of the Phase III DESTINY-Breast04 study.

• Preserved clinical benefit for T-DXd over TPC therapy was observed regardless of biomarker status including intrinsic subtype, ESR1 mutation, PIK3CA mutation, or CDK4/6i resistance marker status

#### PFS according to baseline biomarker status

Biomarker	Status	Median PF	Median PFS (95% CI)		
		T-DXd	TPC		
DIV2CA	WT	10.0 (8.5–12.2) n=177	4.8 (2.9–8.3) n=80	<b>0.50</b> (0.35–0.70)	
PIK3CA	Mut	9.7 (7.5–12.3) n=100	6.2 (5.3–7.8) n=57	<b>0.60</b> (0.40–0.91)	
ESR1	WT	10.0 (8.3–12.6) n=135	5.3 (4.0–7.8) n=63	<b>0.43</b> (0.29–0.62)	
	Mut	9.8 (8.2–12.0) n=142	6.9 (4.3–10.7) n=74	0.67 (0.47–0.97)	
	HER2	11.0 (6.6–NA) n=20	2.7 (1.4–5.9) n=12	<b>0.15</b> (0.05–0.40)	
Intrinsic subtype	Luminal A	13.0 (10.1–16.4) n=92	7.8 (5.4–12.4) n=48	<b>0.57</b> (0.36–0.89)	
	Luminal B	8.7 (6.9–11.1) n=107	4.8 (2.7–8.3) n=39	<b>0.60</b> (0.40–0.92)	

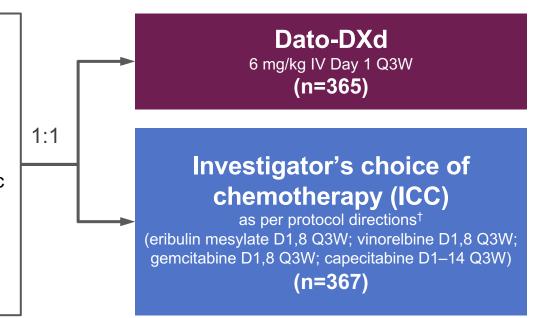


## TROPION-Breast01 Study Design<sup>1</sup>

### Randomized, phase 3, open-label, global study (NCT05104866)

#### **Key inclusion criteria:**

- Patients with HR+/HER2- breast cancer\* (HER2- defined as IHC 0/1+/2+; ISH negative)
- Previously treated with 1–2 lines of chemotherapy (inoperable/metastatic setting)
- Experienced progression on ET and for whom ET was unsuitable
- ECOG PS 0 or 1



#### **Endpoints:**

- Dual primary: PFS by BICR per RECIST v1.1, and OS
- Secondary endpoints included: ORR, PFS (investigator assessed), TFST, safety, PROs

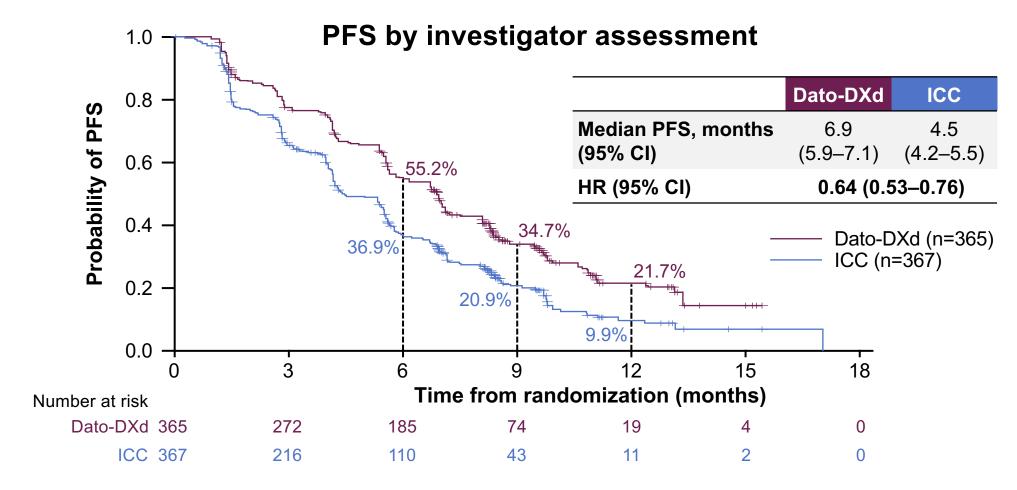
#### Randomization stratified by:

- Lines of chemotherapy in unresectable/metastatic setting (1 vs 2)
- Geographic location (US/Canada/Europe vs ROW)
- Previous CDK4/6 inhibitor (yes vs no)

 Treatment continued until PD, unacceptable tolerability, or other discontinuation criteria

1. Bardia A, et al. Future Oncol 2023; doi: 10.2217/fon-2023-0188.

## **TROPION-Breast01: Progression-Free Survival**



**PFS by BICR (primary endpoint)**<sup>1</sup>: Median 6.9 vs 4.9 months; HR 0.63 (95% CI 0.52–0.76); P<0.0001

Data cut-off: 17 July 2023.

1. Bardia A, et al. Oral Presentation at ESMO 2023; Abstract LBA11.

### **TROPION-Breast01: Adverse Events of Clinical Interest**

Neutropenia*	Dato-DXd (n=360)	ICC (n=351)	Stomatitis <sup>‡</sup>	Dato-DXd (n=360)	
Treatment-related neutropenia <sup>*</sup>	ʻ, n (%)		Treatment-related stomatitis <sup>‡</sup> , r	າ (%)	
Any grade	39 (11)	149 (42)	<b>,</b>	- (1-)	
Grade ≥3	4 (1)	108 (31)	Any grade	180 (50)	
Leading to dose interruption	0	60 (17)	Grade 3	23 (6)	
Leading to dose reduction	1 (0.3)	45 (13)	Grado o	20 (0)	
Leading to dose discontinuation	0	1 (0.3)	Leading to dose interruption	5 (1)	
G-CSF usage, n (%)			Leading to dose reduction	44 (12)	
On treatment	10 (3)	81 (22)	Leading to dose reduction	77 (12)	
Post-treatment <sup>†</sup>	1 (0.3)	30 (8)	Leading to dose discontinuation	1 (0.3)	

<sup>\*</sup>Neutropenia includes the preferred terms neutropenia and neutrophil count decreased. Treatment-related febrile neutropenia occurred in 0 patients in the Dato-DXd arm and 8 patients (2.3%; all grade ≥3) in the ICC arm.

†Administered after discontinuation of study treatment.

<sup>&</sup>lt;sup>‡</sup>As part of the Oral Care Protocol specified in the study protocol, daily use of prophylaxis with a steroid-containing mouthwash (e.g., dexamethasone oral solution or a similar mouthwash regimen using an alternative steroid advocated by institutional/local guidelines) was highly recommended.

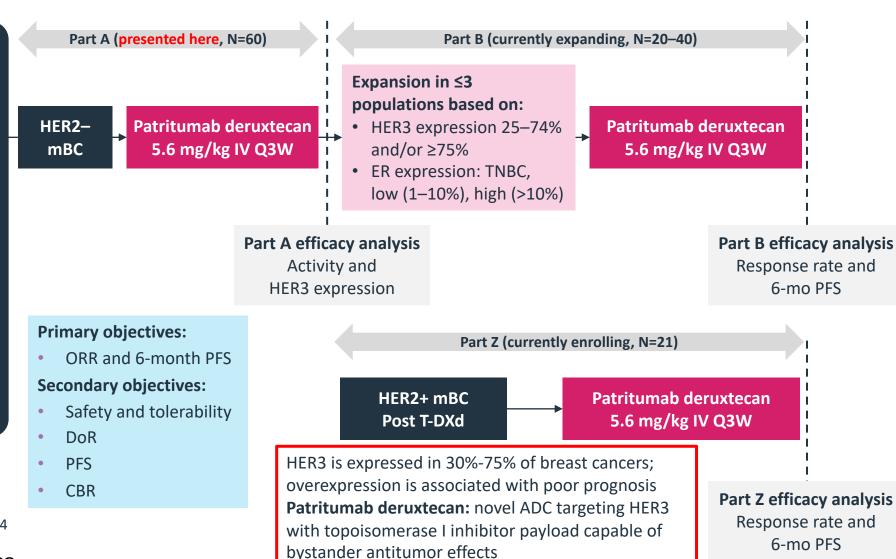
G-CSF, granulocyte colony stimulating factor.

### Phase 2 trial of HER3-DXd in patients with metastatic breast cancer

#### **Key inclusion criteria**

- ECOG 0/1
- Locally advanced/mBC with ≥1 measurable lesion
- HER2- per ASCO-CAP guidelines by IHC (includes 0 and low expression)
- HR+ or HR-
  - HR+: Unlimited lines of ET;
     prior CDK4/6 inhibitor
     required; ≤2 prior CT lines in
     metastatic setting
  - HR-TNBC: 1-3 prior CT lines in metastatic setting
- No prior treatment with any HER3-targeting agent or any ADC that contains an exatecan derivative

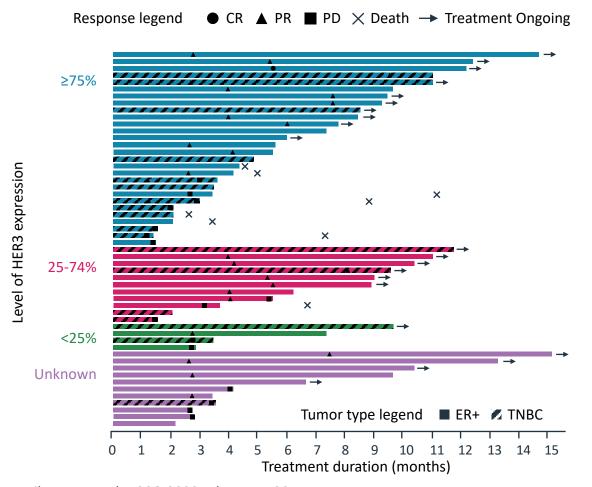
CBR, clinical benefit rate Hamilton EP, et al. ASCO 2023. Abstract 1004



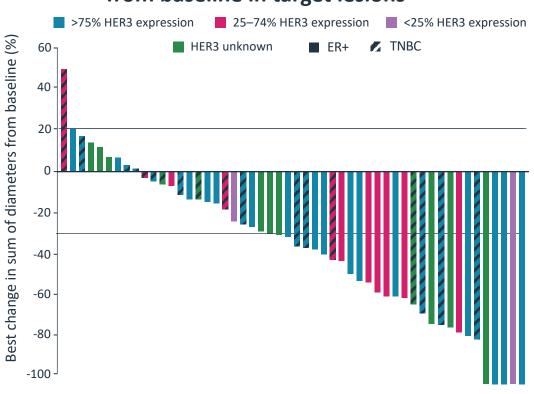
Courtesy of Erica Mayer, MD, MPH, FASCO

### Phase 2 trial of HER3-DXd: Efficacy

#### **Duration on study treatment by HER3 membrane expression**



# Best percentage change in sum of diameters from baseline in target lesions



### Phase 2 trial of HER3-DXd: Safety and Conclusions

#### Safety summary

TRAEs occurring in ≥10% of patients	Any grade	Grade 3/4			
by highest reported grade <sup>a</sup>	(N=60)	(N=60)			
Any AE	56 (93.3)	19 (31.7)			
Nausea	30 (50.0)	2 (3.3)			
Fatigue	27 (45.0)	4 (6.7)			
Diarrhea	22 (36.7)	3 (5.0)			
Vomiting	19 (31.7)	1 (1.7)			
Anemia	18 (30.0)	0			
Alopecia	17 (28.3)	N/A			
Hypokalemia	9 (15.0)	1 (1.7)			
Decreased appetite	8 (13.3)	0			
Neutrophil count decreased	7 (11.7)	3 (5.0)			
WBC count decreased	7 (11.7)	1 (1.7)			
Treatment-related SAEs	N=	N=60			
Interstitial lung disease	1 (1.7)				
Nausea/vomiting	1 (1.7)				
Dearmanitia	1 /	4 (4 7)			

- Interstitial lung disease 1 (1.7)

  Nausea/vomiting 1 (1.7)

  Pneumonitis 1 (1.7)

  Thrombocytopenia 1 (1.7)

  Unrelated SAEs

  Dyspnea 1 (1.7)

  Pneumocystis jirovecii pneumonia 1 (1.7)

  Pneumothorax 1 (1.7)
- <sup>a</sup>No Grade 5 AEs recorded prior to data cutoff Hamilton EP, et al. ASCO 2023. Abstract 1004

- Patritumab is active, regardless of level of HER3 expression in HER2-non-amplified MBC, more so in HR+ than in TNBC pts
- Responses are durable in most patients. Safety is also reasonable with nausea, diarrhea, and fatigue the main toxicities and very little ILD to date
- Unclear how patients will respond to patritumab following treatment and progression on T-DXd with shared payload
- Should patritumab be developed to follow T-DXd, or in patients with HER2 ultralow or 0 IHC pts, instead of T-DXd?

## Consensus or Controversy? Clinical Investigators Provide Perspectives on the Current and Future Management of Gastroesophageal Cancers

Part 1 of a 2-Part CME Symposium Series Held in Conjunction with the 2024 ASCO Gastrointestinal Cancers Symposium

Thursday, January 18, 2024 6:00 PM - 8:00 PM PT (9:00 PM - 11:00 PM ET)

**Faculty** 

David H Ilson, MD, PhD Rutika Mehta, MD, MPH Professor Markus Moehler, MD
Manish A Shah, MD

**Moderator Harry H Yoon, MD, MHS** 



## Thank you for joining us!

CME and MOC credit information will be emailed to each participant within 5 business days.

