## 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



#### Faculty



Francois-Clement Bidard, MD, PhD Medical Oncologist Institut Curie, Inserm CIC1428 Professor, Versailles/Paris-Saclay University Vice-Chair, Unicancer Breast Group (UCBG) Paris, France



#### Erika Hamilton, MD

Director, Breast Cancer Research Program Sarah Cannon Research Institute Nashville, Tennessee



#### Komal Jhaveri, MD, FACP

Patricia and James Cayne Chair for Junior Faculty Associate Attending Physician Breast Medicine Service and Early Drug Development Service Section Head, Endocrine Therapy Research Program Clinical Director, Early Drug Development Service Department of Medicine Memorial Sloan Kettering Cancer Center Associate Professor of Medicine Weill Cornell College of Medicine New York, New York



#### Virginia Kaklamani, MD, DSc Professor of Medicine Ruth McLean Bowman Bowers Chair in Breast Cancer Research and Treatment AB Alexander Distinguished Chair in Oncology Leader, Breast Oncology Program UT Health San Antonio MD Anderson Cancer Center San Antonio, Texas



#### Hope S Rugo, MD Professor of Medicine Winterhof Family Professor of Breast Cancer Director Breast Oncology and Clinical Trials Education Medical Director Cancer Infusion Services University of California, San Francisco Helen Diller Family Comprehensive Cancer Center San Francisco, California



#### Moderator

**Neil Love, MD** Research To Practice Miami, Florida



#### **Prof Bidard — Disclosures**

Consulting Agreements	AstraZeneca Pharmaceuticals LP, Caris Life Sciences, Exact Sciences Corporation, GE Healthcare, Gilead Sciences Inc, GSK, Lilly, Menarini Group, Novartis, Pfizer Inc, Rain Oncology, Sanofi	
Contracted Research	GE Healthcare, Menarini Silicon Biosystems, Merck KGaA, Novartis, Pfizer Inc, ProLynx Inc	
Speakers Bureau	AstraZeneca Pharmaceuticals LP, Daiichi Sankyo Inc, Lilly, Menarini Group, Novartis, Pfizer Inc, Rain Oncology, Roche Laboratories Inc, Stemline Therapeutics Inc	



#### **Dr Hamilton — Disclosures**

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#### **Dr Jhaveri — Disclosures**

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#### Dr Kaklamani — Disclosures

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Contracted Research	Eisai Inc	
Data and Safety Monitoring Board/Committee	Bristol Myers Squibb	
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#### **Dr Rugo — Disclosures**

Consultancy/Advisory Support	Daiichi Sankyo Inc, Napo Pharmaceuticals Inc, Puma Biotechnology Inc, Viatris	
Contracted Research	Astellas, AstraZeneca Pharmaceuticals LP, Daiichi Sankyo Inc, F Hoffmann-La Roche Ltd, Genentech, a member of the Roche Group, Gilead Sciences Inc, GSK, Lilly, Merck, Novartis, OBI Pharma Inc, Pfizer Inc, Pionyr Immunotherapeutics, Sermonix Pharmaceuticals, Stemline Therapeutics Inc, Taiho Oncology Inc, Veru Inc	
Travel Support to Academic Meetings	AstraZeneca Pharmaceuticals LP, Gilead Sciences Inc, Merck	



#### **Commercial Support**

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## Beyond the Guidelines: Clinical Investigator Perspectives on the Management of Localized HER2-Negative Breast Cancer

Part 2 of a 3-Part CME Satellite Symposium Series in Partnership with the 2023 San Antonio Breast Cancer Symposium®

#### Wednesday, December 6, 2023 7:15 PM – 9:15 PM CT (8:15 PM – 10:15 PM ET)

#### Faculty

#### Harold J Burstein, MD, PhD Matthew P Goetz, MD Sara A Hurvitz, MD, FACP

Joyce O'Shaughnessy, MD Lajos Pusztai, MD, DPhil, FASCO



## Beyond the Guidelines: Clinical Investigator Perspectives on the Management of HER2-Low Breast Cancer

Part 3 of a 3-Part CME Satellite Symposium Series in Partnership with the 2023 San Antonio Breast Cancer Symposium® Thursday, December 7, 2023 7:15 PM - 8:45 PM CT (8:15 PM - 9:45 PM ET) Faculty Aditya Bardia, MD, MPH Lisa A Carey, MD, ScM, FASCO Shanu Modi, MD **Professor Peter Schmid, FRCP, MD, PhD Moderator** Neil Love, MD



#### Beyond the Guidelines: Clinical Investigator Perspectives on the Management of Hematologic Cancers

A 4-Part CME Friday Satellite Symposium Series Preceding the 65<sup>th</sup> ASH Annual Meeting and Exposition

Friday, December 8, 2023

Follicular, Mantle Cell and Hodgkin Lymphoma 7:30 AM – 10:00 AM PT

Chronic Lymphocytic Leukemia 3:15 PM – 5:15 PM PT

Diffuse Large B-Cell Lymphoma 11:30 AM – 1:30 PM PT Multiple Myeloma 7:00 PM – 9:00 PM PT



Beyond the Guidelines: Clinical Investigator Perspectives on the Management of Follicular, Mantle Cell and Hodgkin Lymphoma (Part 1 of a 4-Part Series)

> A CME Friday Satellite Symposium and Virtual Event Preceding the 65<sup>th</sup> ASH Annual Meeting

> > Friday, December 8, 2023

7:30 AM - 10:00 AM PT (10:30 AM - 1:00 PM ET)

#### Faculty

Jeremy S Abramson, MD, MMSc Stephen M Ansell, MD, PhD Nancy L Bartlett, MD Jonathan W Friedberg, MD, MMSc Brad S Kahl, MD



## Beyond the Guidelines: Clinical Investigator Perspectives on the Management of Diffuse Large B-Cell Lymphoma (Part 2 of a 4-Part Series)

A CME Friday Satellite Symposium and Virtual Event Preceding the 65<sup>th</sup> ASH Annual Meeting

Friday, December 8, 2023 11:30 AM – 1:30 PM PT (2:30 PM – 4:30 PM ET)

#### Faculty

Michael Dickinson, MD Grzegorz S Nowakowski, MD Gilles Salles, MD, PhD Laurie H Sehn, MD, MPH Jason Westin, MD, MS



## Beyond the Guidelines: Clinical Investigator Perspectives on the Management of Chronic Lymphocytic Leukemia (Part 3 of a 4-Part Series)

A CME Friday Satellite Symposium and Virtual Event Preceding the 65<sup>th</sup> ASH Annual Meeting

Friday, December 8, 2023 3:15 PM – 5:15 PM PT (6:15 PM – 8:15 PM ET)

#### Faculty

Farrukh T Awan, MD Matthew S Davids, MD, MMSc Stephen J Schuster, MD William G Wierda, MD, PhD Jennifer Woyach, MD



#### Beyond the Guidelines: Clinical Investigator Perspectives on the Management of Multiple Myeloma (Part 4 of a 4-Part Series)

A CME Friday Satellite Symposium and Virtual Event Preceding the 65<sup>th</sup> ASH Annual Meeting

#### Friday, December 8, 2023 7:00 PM – 9:00 PM PT (10:00 PM – 12:00 AM ET)

#### Faculty

Amrita Krishnan, MD Sagar Lonial, MD Robert Z Orlowski, MD, PhD Noopur Raje, MD Paul G Richardson, MD



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|--|

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<u></u>	

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#### **About the Enduring Program**

- The live meeting is being video and audio recorded.
- The proceedings from today will be edited and developed into an enduring web-based video/PowerPoint program.



An email will be sent to all attendees when the activity is available.

 To learn more about our education programs, visit our website, <u>www.ResearchToPractice.com</u>



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#### Agenda

Module 1: Optimal Integration of CDK4/6 Inhibitors into the Management of ER-Positive Metastatic Breast Cancer (mBC) — Dr Kaklamani

Module 2: Novel Strategies to Overcome Resistance to Endocrine Therapy — Dr Jhaveri

Module 3: Current Role of Antibody-Drug Conjugates in the Management of ER-Positive mBC — Dr Rugo

Module 4: Current and Future Role of Selective Estrogen Receptor Degraders (SERDs) in the Management of ER-Positive mBC — Prof Bidard

Module 5: Novel Therapies Under Investigation for Patients with ER-Positive mBC — Dr Hamilton



#### **Breast Cancer Survey Respondents**

Aditya Bardia, MD, MPH François-Clément Bidard, MD, PhD Adam Brufsky, MD, PhD Harold J Burstein, MD, PhD Lisa A Carey, MD, ScM, FASCO Matthew P Goetz, MD Erika Hamilton, MD Sara A Hurvitz, MD, FACP Komal Jhaveri, MD, FACP Virginia Kaklamani, MD, DSc

Jane Lowe Meisel, MD Shanu Modi, MD Joyce O'Shaughnessy, MD Mark Pegram, MD Lajos Pusztai, MD, DPhil, FASCO Hope S Rugo, MD Paolo Tarantino, MD Prof Peter Schmid, FRCP, MD, PhD Priyanka Sharma, MD Eric P Winer, MD



#### **Consulting Faculty**



Adam M Brufsky, MD, PhD Professor of Medicine Co-Director, Comprehensive Breast Cancer Center UPMC Hillman Cancer Center Department of Medicine University of Pittsburgh Pittsburgh, Pennsylvania



Priyanka Sharma, MD Frank B Tyler Professor in Cancer Research Division of Medical Oncology Department of Internal Medicine The University of Kansas Cancer Center Westwood, Kansas



Jane Lowe Meisel, MD Associate Professor of Hematology and Medical Oncology Associate Vice Chair of Faculty Development and Promotions Winship Cancer Institute of Emory University Atlanta, Georgia



Paolo Tarantino, MD Medical Oncologist Advanced Research Fellow Dana-Farber Cancer Institute Harvard Medical School Boston, Massachusetts



Mark D Pegram, MD Susy Yuan-Huey Hung Endowed Professor of Oncology Director, Clinical and Translational Research Unit Associate Director for Clinical Research Stanford Comprehensive Cancer Institute Stanford, California



Eric P Winer, MD Alfred Gilman Professor of Medicine and Pharmacology Director, Yale Cancer Center President and Physician-in-Chief Smilow Cancer Hospital New Haven, Connecticut

## Analysis of Time to Recurrence in the ATAC (Arimidex, Tamoxifen, Alone or in Combination) Trial According to Estrogen Receptor and Progesterone Receptor Status

Dowsett M, on behalf of the ATAC Trialists' Group. SABCS 2003;Abstract 4.

#### GENERAL SESSION 1 | WEDNESDAY, DECEMBER 3 | 10:15 AM CT



#### Final Overall Survival Analysis from the MONARCH 3 Study of Abemaciclib to be Presented at the 2023 San Antonio Breast Cancer Symposium

#### Press Release – December 5, 2023

Results from the MONARCH 3 clinical trial will be presented in a late-breaking presentation during the 2023 San Antonio Breast Cancer Symposium (SABCS).

"MONARCH 3 evaluated abemaciclib in combination with an aromatase inhibitor (AI) compared to an AI alone as initial endocrine-based therapy for post-menopausal patients with hormone receptor positive (HR+), human epidermal growth factor receptor 2 negative (HER2-) advanced or metastatic breast cancer. At eight years of follow-up, MONARCH 3 showed women taking abemaciclib and an AI had a median overall survival (OS) of more than 5.5 years – an increase of 13.1 months compared to the control arm in the intent-to-treat (ITT) population (66.8 vs 53.7 months), although statistical significance for the OS outcome was not reached (HR, 0.804; 95% CI, 0.637-1.015; p = 0.0664).

For women with visceral organ metastases, data showed a median OS of more than five years, with an increase in median OS of 14.9 months in the abemaciclib arm compared to the control arm (63.7 vs 48.8 months). [...] Patients with visceral disease are at an increased risk of disease progression and death compared to metastatic breast cancer (MBC) patients without visceral metastases. The OS results for this subpopulation were also not statistically significant (HR, 0.758; 95% CI, 0.558-1.030; p = 0.0757)."

https://investor.lilly.com/news-releases/news-release-details/lilly-present-final-overall-survival-analysis-monarch-3-study



#### Positive Phase III Results for Inavolisib Combination in People with Advanced Hormone Receptor-Positive, HER2-Negative Breast Cancer with a PIK3CA Mutation Press Release – December 5, 2023

Positive results were announced from the Phase III INAVO120 study of the investigational therapy inavolisib in combination with palbociclib and fulvestrant as a potential first-line treatment option for people with PIK3CA-mutated, hormone receptor-positive, HER2-negative, endocrine-resistant, locally advanced or metastatic breast cancer.

"The study met its primary endpoint of progression-free survival (PFS), demonstrating a statistically significant and clinically meaningful improvement compared to palbociclib and fulvestrant alone. Overall survival data were immature at this time, but a clear positive trend has been observed. Follow-up will continue to the next analysis. [...]

The inavolisib combination was well tolerated and adverse events were consistent with the known safety profiles of the individual study treatments, with no new safety signals observed."



#### Agenda

Module 1: Optimal Integration of CDK4/6 Inhibitors into the Management of ER-Positive Metastatic Breast Cancer (mBC) — Dr Kaklamani

Module 2: Novel Strategies to Overcome Resistance to Endocrine Therapy — Dr Jhaveri

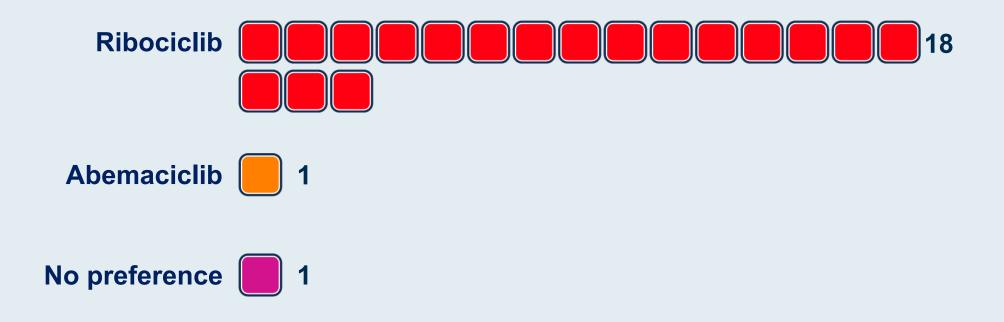
Module 3: Current Role of Antibody-Drug Conjugates in the Management of ER-Positive mBC — Dr Rugo

Module 4: Current and Future Role of Selective Estrogen Receptor Degraders (SERDs) in the Management of ER-Positive mBC — Prof Bidard

Module 5: Novel Therapies Under Investigation for Patients with ER-Positive mBC — Dr Hamilton

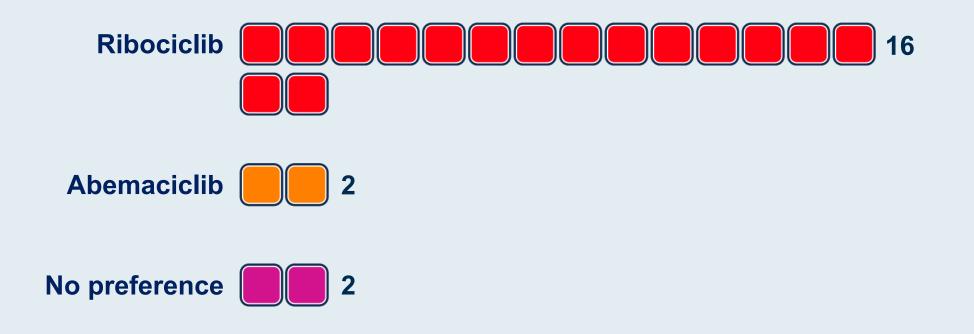


In general, which CDK4/6 inhibitor are you most likely to recommend in combination with endocrine therapy for a <u>premenopausal</u> patient with ER-positive, HER2-negative metastatic breast cancer?



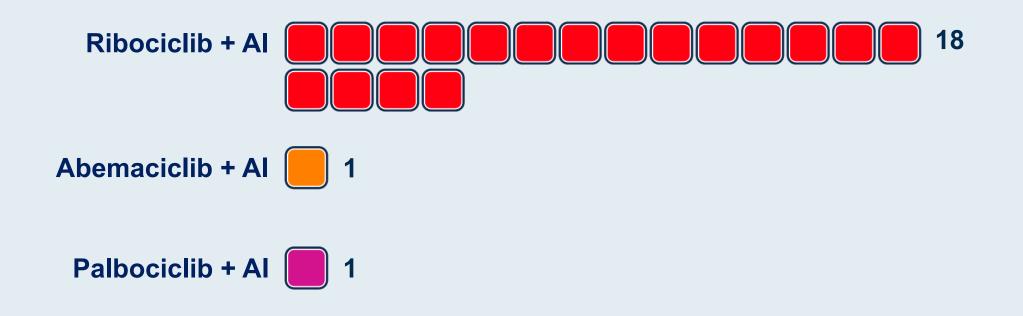


In general, which CDK4/6 inhibitor are you most likely to recommend in combination with endocrine therapy for a <u>postmenopausal</u> patient with ER-positive, HER2-negative metastatic breast cancer?





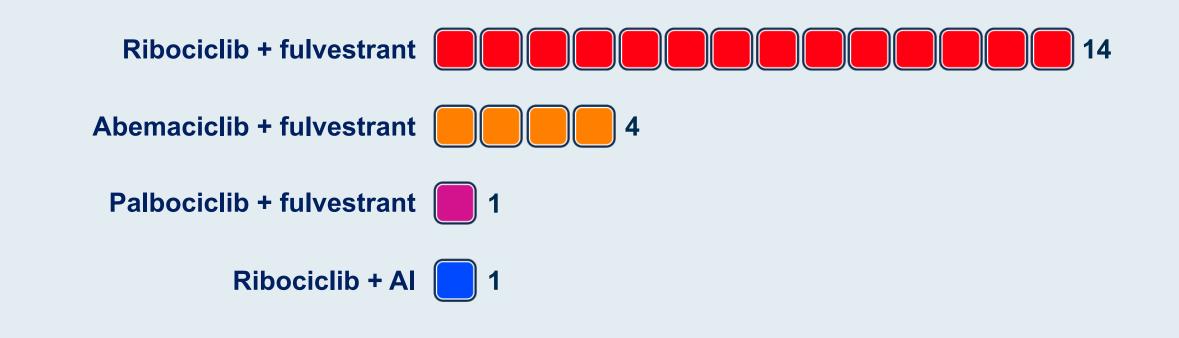
A 65-year-old woman presents with <u>de novo ER-positive, HER2-</u> <u>negative metastatic breast cancer</u>. Which endocrine-based treatment would you most likely recommend?



AI = aromatase inhibitor

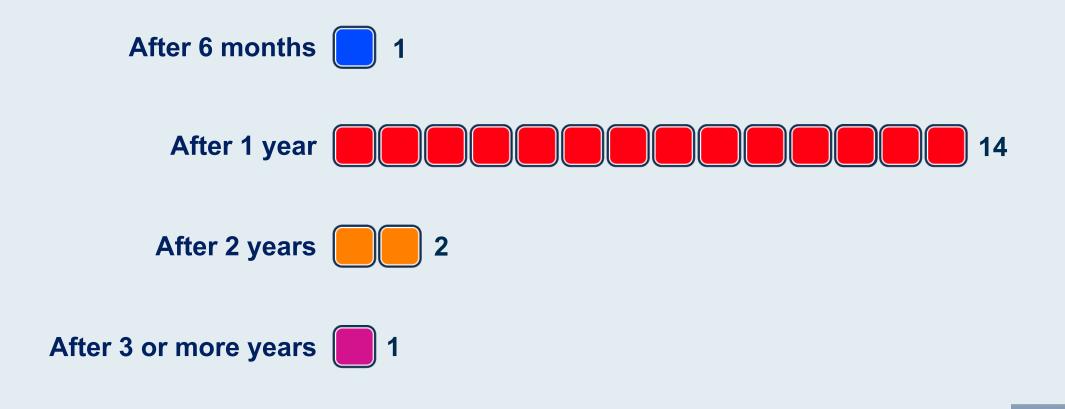


A 65-year-old woman with ER-positive, HER2-negative, node-negative breast cancer has developed multiple metastases <u>2 years after</u> starting adjuvant anastrozole. Which endocrine-based treatment would you most likely recommend?





For a patient with ER-positive, HER2-negative breast cancer who receives a CDK4/6 inhibitor in the adjuvant setting and responds, at what time point, if any, would you be comfortable rechallenging with a CDK4/6 inhibitor in the metastatic setting?





#### Choice of CDK4/6 inhibitor in the metastatic setting



Priyanka Sharma, MD



Jane Lowe Meisel, MD



Paolo Tarantino, MD



# Selection of therapy for ER-positive metastatic breast cancer progressing on a CDK4/6 inhibitor and endocrine treatment



Adam M Brufsky, MD, PhD



Jane Lowe Meisel, MD



## Optimal Integration of CDK4/6 Inhibitors into the Management of ER-Positive MBC

#### Virginia Kaklamani, MD DSc

Professor of Medicine Leader, Breast Oncology Program



San Antonio Cancer Center

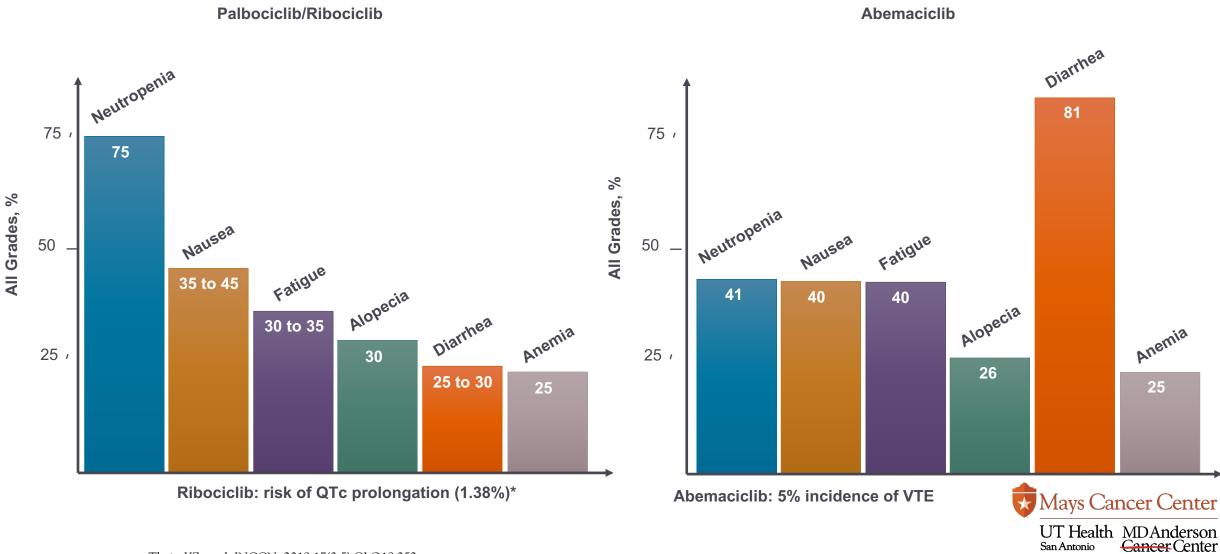
### **Overall Survival in patients treated with CDK4/6i for Metastatic Disease**

		Treatment arm: OS, median, mo	Placebo arm: OS, median, mo	Hazard ratio	Hazard ratio (95% CI)	P value	Significance reached vs placebo <sup>a</sup>
PAL	PALOMA-2 <sup>1</sup> Palbociclib + letrozole	53.9	51.2		0.956 (0.777-1.177)	0.3378	×
	PALOMA-3 <sup>2</sup> Palbociclib + fulvestrant	34.9	28.0		0.81 (0.64-1.03)	.09	×
ABE	MONARCH 2 <sup>3</sup> Abemaciclib + fulvestrant	46.7	37.3		0.76 (0.61-0.95)	.01	$\checkmark$
MONARCH 3 Abemaciclib + NSAI SABCS tomorrow							
	MONALEESA-2 <sup>4,5</sup> Ribociclib + letrozole	63.9	51.4	<b>⊢−−</b> ∎−−−−1	0.76 (0.63-0.93)	.008	$\checkmark$
RIBO	MONALEESA-7 <sup>6</sup> Ribociclib + goserelin + tamoxifen/NSAI	NR	40.9		0.71 (0.54-0.95)	.00973	$\checkmark$
	MONALEESA-3 <sup>7</sup> Ribociclib + fulvestrant	NR	40.0		0.72 (0.57-0.92)	.00455	$\checkmark$
			(	0.4 0.6 0.8 1.0 1.2 Favors CDK4/6i Favors PBO	*		

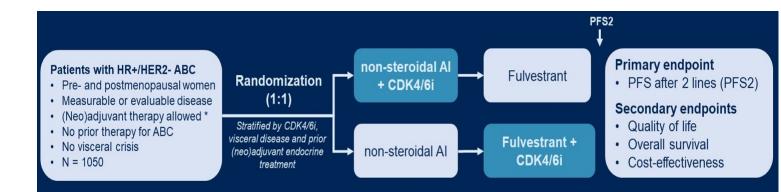
<sup>a</sup> The red × denotes trials that did not report significant median OS compared with placebo.

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. JAMA Oncol. 2020;6:116-124. 4. Hortobagyi GN, et al. N Engl J Med. 2022;386:942-950. 5. Hortobagyi GN, et al. ESMO 2021. Oral LBA17\_PR. 6. Im SA, et al. N Engl J Med. 2019;381:307-316. 7. Slamon DJ, et al. N Engl J Med. 2020;382:514-524.

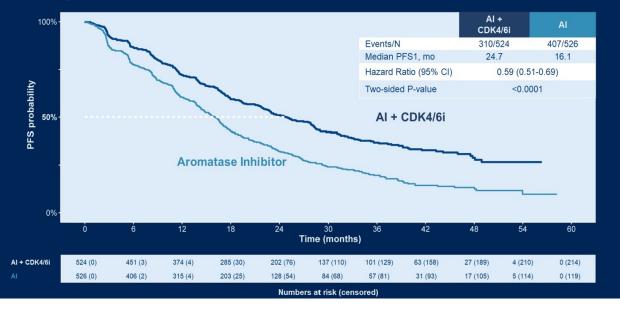
## Side Effect Profile of CDK 4/6i + ET



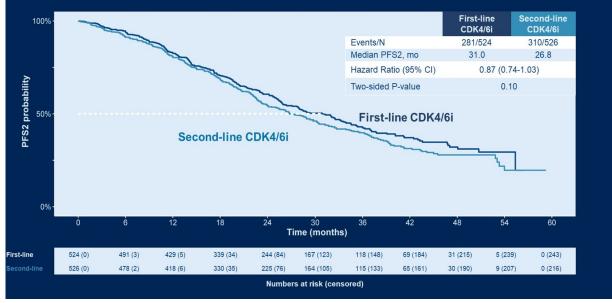
### SONIA TRIAL



### **Progression-free survival in first line**



### SONIA Primary endpoint: PFS2



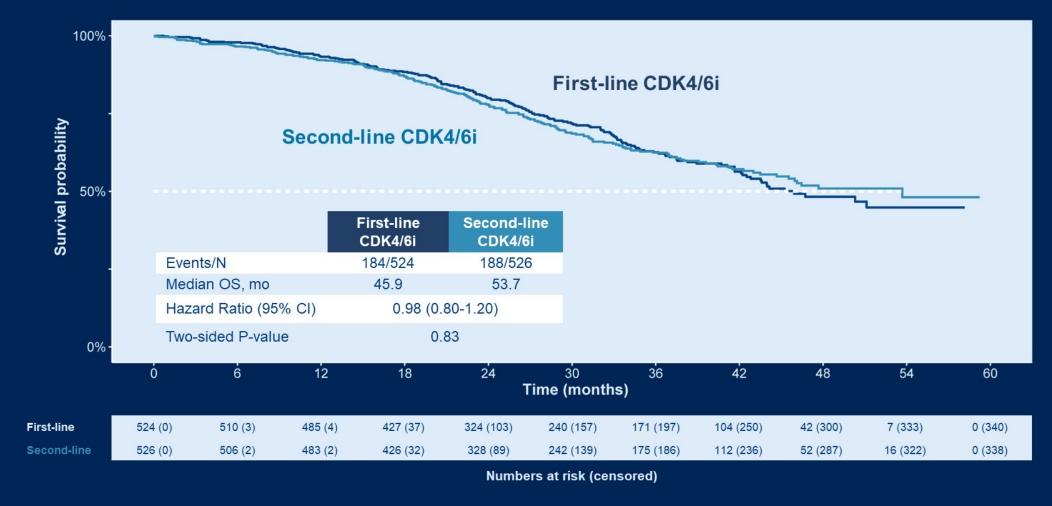


SONIA

Sonke et al ASCO 2023

## **Overall survival**

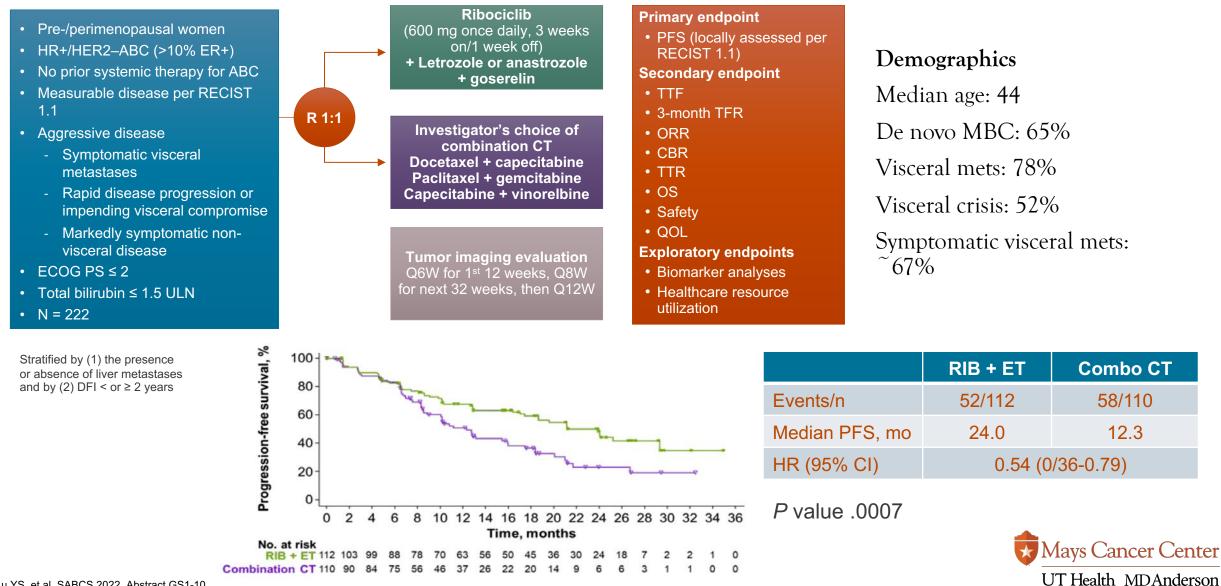




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## The Phase II RIGHT Choice Trial



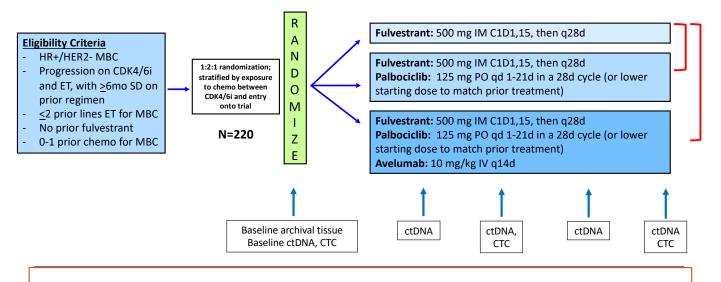
**Cancer** Center

San Antonio

Lu YS, et al. SABCS 2022. Abstract GS1-10.

ABC, advanced breast cancer; CBR, clinical benefit rate; CT, chemotherapy; ECOG, Eastern Cooperative Oncology Group; ET, endocrine therapy; HER2, human epidermal growth factor receptor 2; HR, hormone receptor; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; PS, performance status; QoL, quality of life; TFR, treatment-free remission; TTF, time to treatment failure: TTR. time to recurrence.

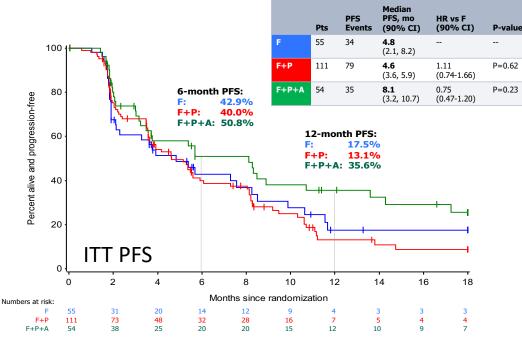
## Phase 2 PACE: Palbociclib After CDK Inhibitor and Endocrine Therapy



**Primary objective**: To compare PFS (RECIST-confirmed) for fulvestrant+palbociclib vs fulvestrant alone **Secondary objectives**: To compare PFS for fulvestrant+palbociclib+avelumab vs fulvestrant alone, response endpoints, Safety, outcomes in predefined molecular subgroups including ESR1, PIK3CA, and Rb

### Demographics

- 81% post menopausal
- 40% de novo MBC
- 60% visceral disease
- 68% measurable disease
- 90.9% prior palbociclib, 4.5% ribociclib, 4.1% abemaciclib
- 76% prior ET > 12 months
- 77% second line



### **Other endpoints**

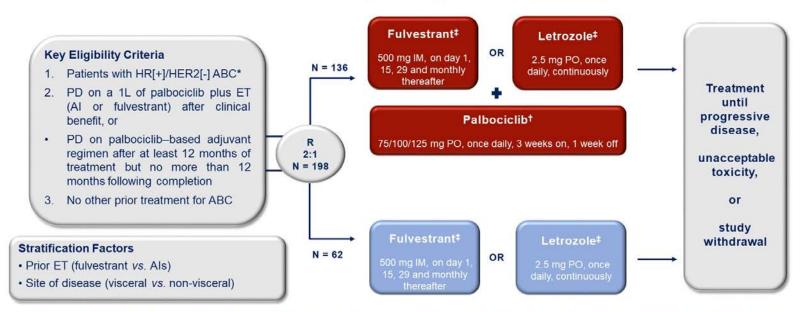
- ORR (n=149): 10.8 v 13.7 v 17.9%
- Med OS: 27.5 v 24.6 v 42.5 months
- Rare immune-related AEs
- Suggestion of improved efficacy of FP over F in ESR1 and PIK3CA mutations



Mayer et al. SABCS 2022. Abstract GS3-06.

AE, adverse event; CDK, cyclin-dependent kinase; CTC, circulating tumor cells; ctDNA, circulating tumor DNA; ET, endocrine therapy; HER2, human epidermal growth factor receptor; HR, hormone receptor; ITT, intent to treat; MBC, metastatic breast cancer; ORR, objective response rate; OS, overall survival; PFS, progression-free survival.

#### PALMIRA Study Design (NCT03809988)



1L. First-line; ABC: Advanced breast cancer, AL Aromatase inhibitors; ET. Endocrine therapy; HER2[-]. Human Epidermal Growth Factor Receptor 2-negative; HR[+]. Hormone receptor-positive; IM. Intramuscular injection; PO. oral administration;

PD: Progressive disease; R: Randomization.

"If pre-menopausal, ovarian function suppression method required.

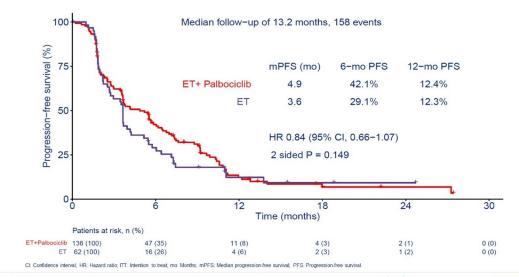
TPalbociclib dose could be reduced until 75 mg. If a dose reduction below 75 mg is required, treatment must be discontinued \*Administration of endocrine therapy was chosen depending on the prior administered agent.

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PRESENTED BY: Dr. ANTONIO LLOMBART CUSSAC, MD PhD

palmira

#### Primary Objective: Investigator-assessed PFS (ITT Population)

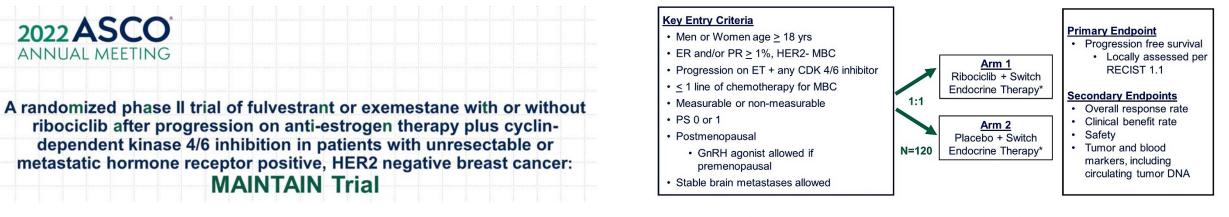


#ASCO23 PRESENTED BY: Dr. ANTONIO LLOMBART CUSSAC MD PhD

2023 ASCO



#### Schema



KNOWLEDGE CONOUERS CANCER

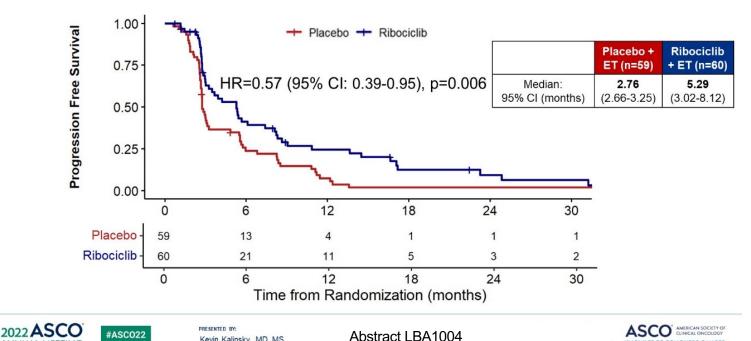
Fulvestrant as endocrine therapy in pts with progression on a prior aromatase inhibitor for MBC and no prior fulvestrant; Protocol amended to allow exemestance as endocrine therapy if progression on prior fulvestrant (September 2018); Ribociclib 600 mg administered 3 weeks on/1 week off

> PRESENTED BY: #ASC022 Kevin Kalinsky, MD, M

Abstract LBA1004

ASCO AMERICAN SOCIETY C ONQUERS CANCE

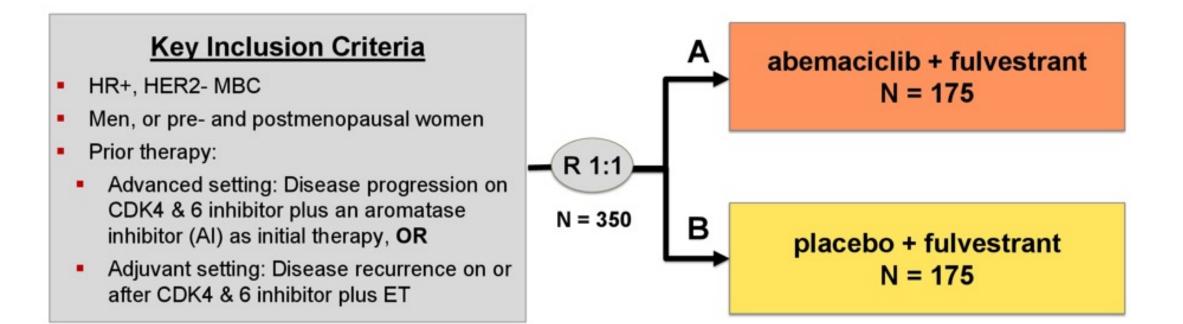
### Primary Endpoint: Progression Free Survival (PFS)



Kevin Kalinsky, MD, MS

ANNUAL MEETING

### Ongoing postMONARCH study (NCT05169567; PI: Kalinsky)





## Conclusions

# First line CDK4/6i should be considered SOC

## CDK after CDK: let's wait for more data



### Agenda

Module 1: Optimal Integration of CDK4/6 Inhibitors into the Management of ER-Positive Metastatic Breast Cancer (mBC) — Dr Kaklamani

Module 2: Novel Strategies to Overcome Resistance to Endocrine Therapy — Dr Jhaveri

Module 3: Current Role of Antibody-Drug Conjugates in the Management of ER-Positive mBC — Dr Rugo

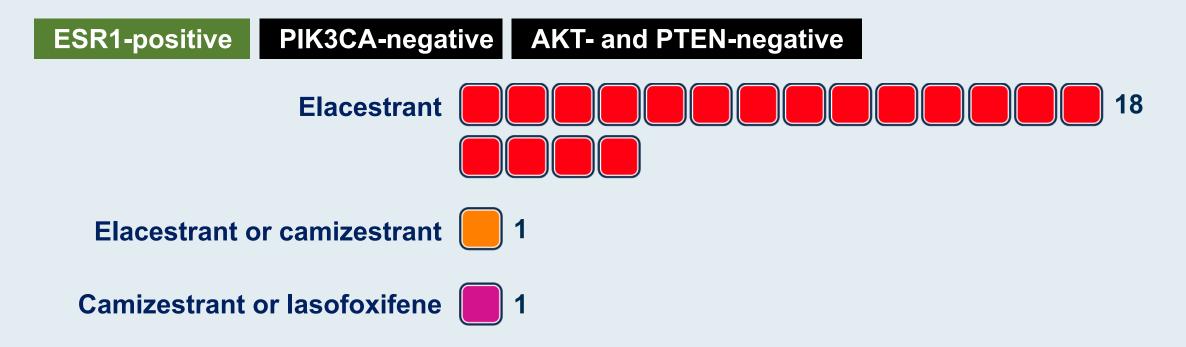
Module 4: Current and Future Role of Selective Estrogen Receptor Degraders (SERDs) in the Management of ER-Positive mBC — Prof Bidard

Module 5: Novel Therapies Under Investigation for Patients with ER-Positive mBC — Dr Hamilton

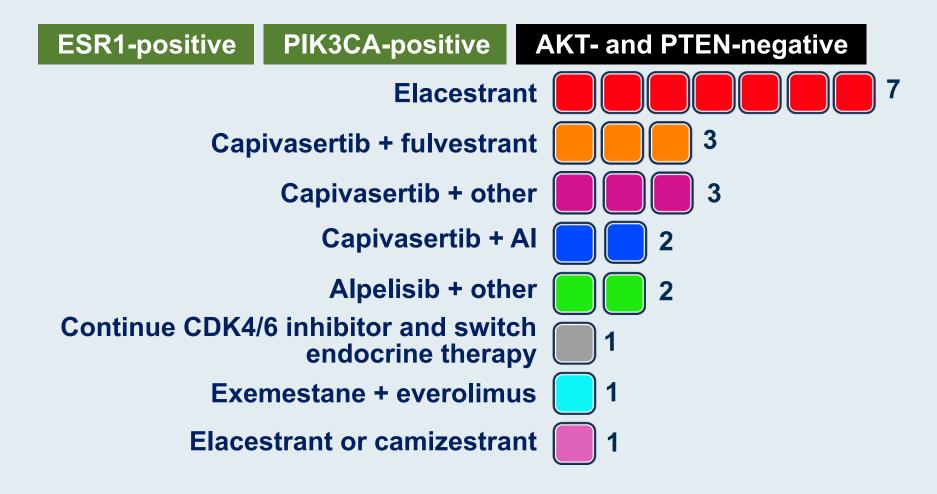


A 65-year-old woman with ER-positive, HER2-negative, node-negative breast cancer has developed multiple metastases <u>2 years after starting adjuvant anastrozole</u>. She receives a <u>CDK4/6 inhibitor with fulvestrant</u> and initially responds but then experiences disease progression 18 months later. Regulatory and reimbursement issues aside, what would be your most likely next treatment if biomarker evaluation results were as follows?

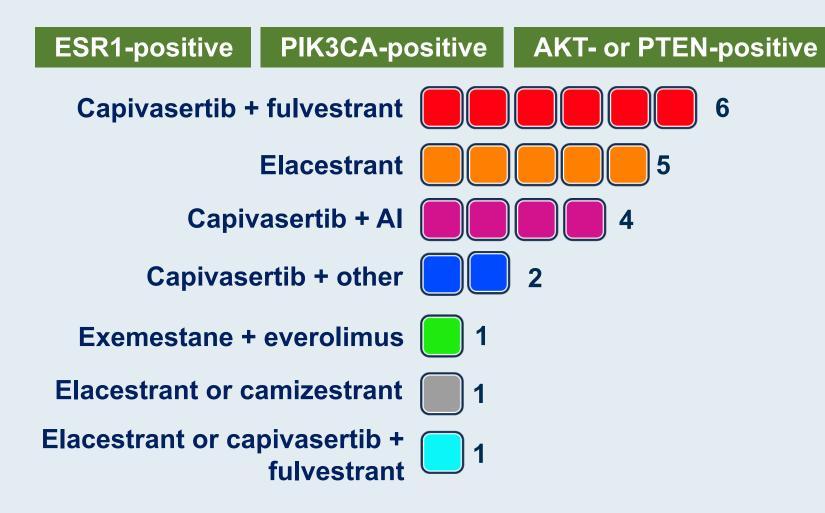




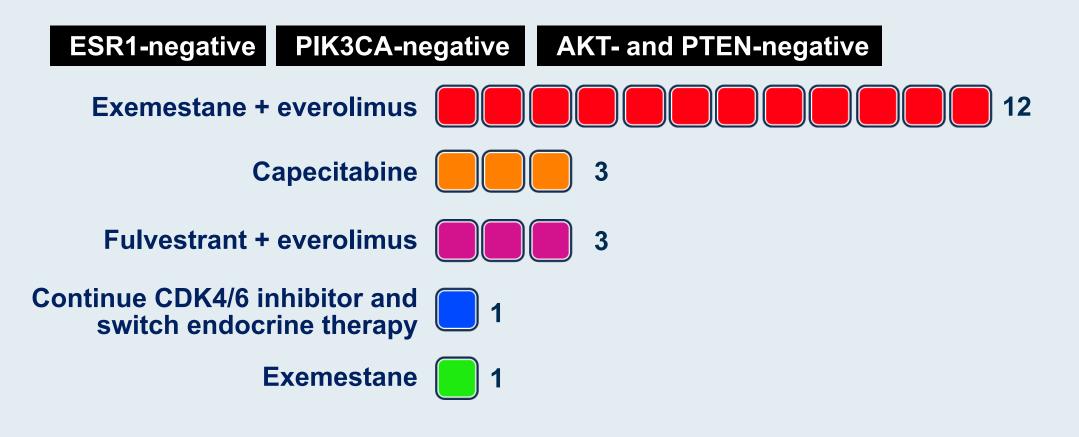




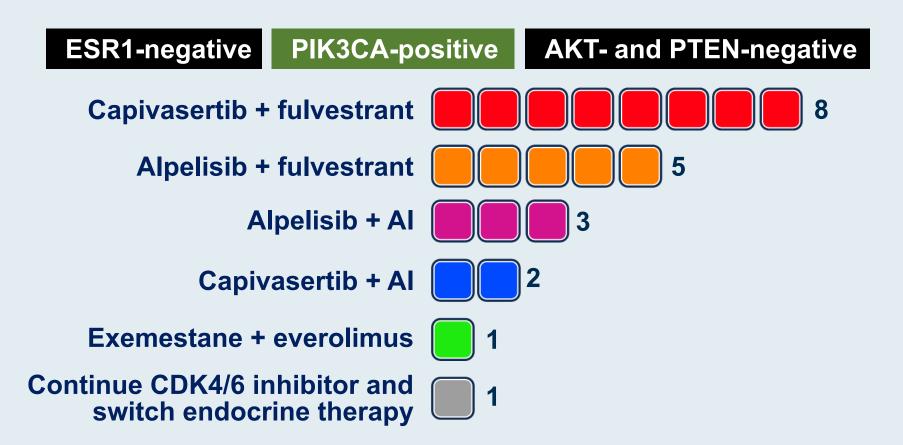




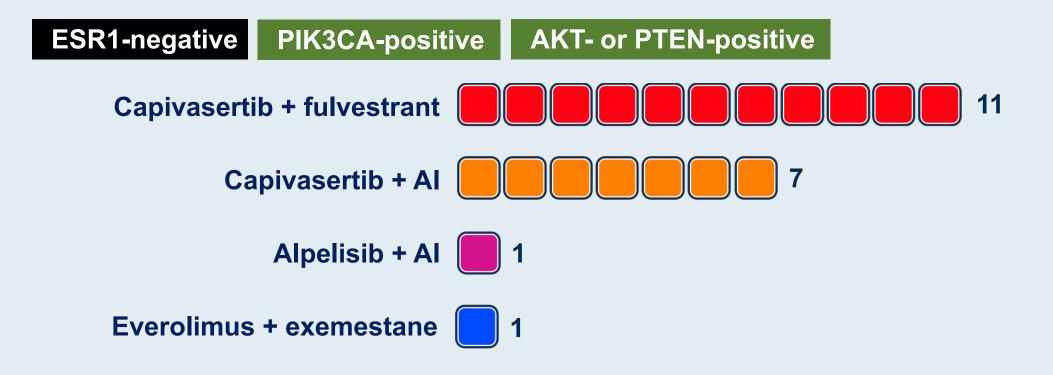




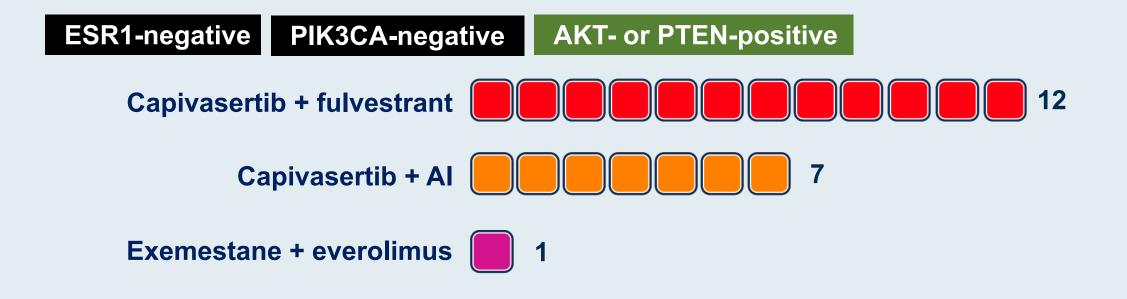




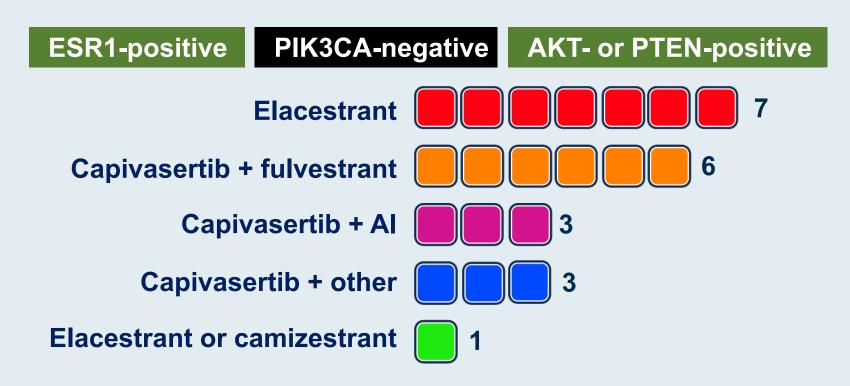














## Selection of second-line endocrine therapy for ER-positive metastatic breast cancer



Priyanka Sharma, MD



### Elacestrant, PI3K/AKT pathway inhibitors for the treatment of recurrent ER-positive metastatic breast cancer



Adam M Brufsky, MD, PhD



## Prevention and management of side effects associated with alpelisib



Priyanka Sharma, MD

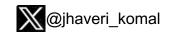


## Novel Strategies to Overcome Resistance to Endocrine Therapy

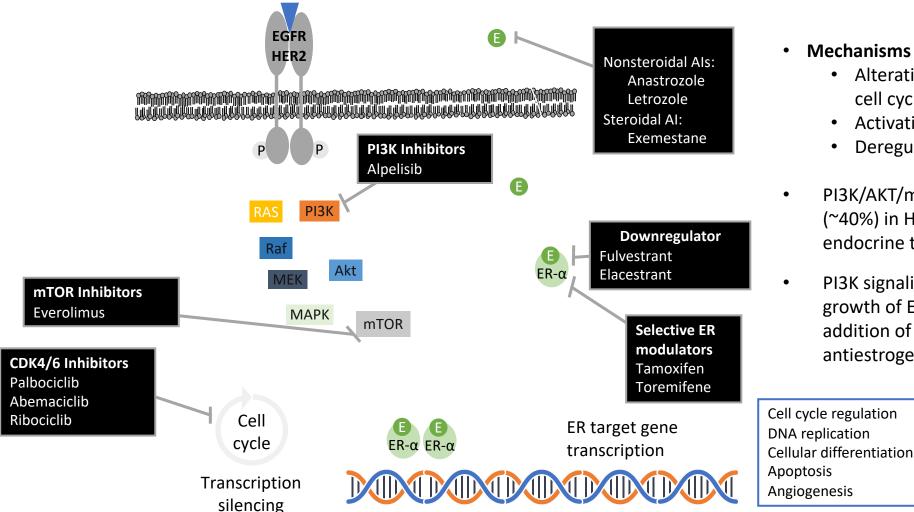
Komal Jhaveri, MD, FACP

Patricia and James Cayne Chair for Junior Faculty Associate Attending, Breast Medicine and Early Drug Development Service Section Head, Endocrine Therapy Research Program Clinical Director, Early Drug Development Service Memorial Sloan Kettering Cancer Center

> Associate Professor Weill Cornell Medical College New York, New York



## Targeted Strategies to Overcome Resistance in HR+/HER2- MBC



#### • Mechanisms of Endocrine Resistance

- Alteration of cell survival and cell cycle pathways
- Activation of growth factor signaling pathways
- Deregulation of the ER pathway
- PI3K/AKT/mTOR pathway is frequently altered (~40%) in HR+ BC, implicated in resistance to endocrine therapies
- PI3K signaling promotes estrogen-independent growth of ER+ BC, and can be inhibited by the addition of agents targeting PI3K pathway to antiestrogens

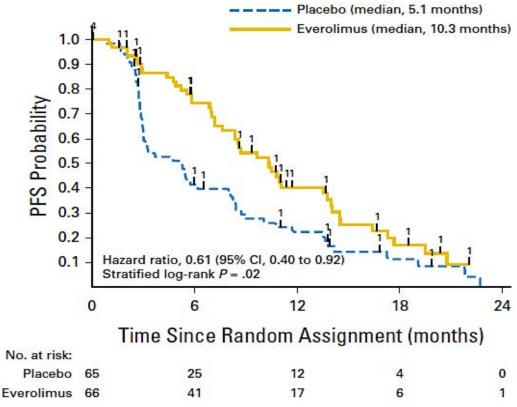
Miller TW et al. J Clin Oncol. 2011;29:4452-4461. Bosch A et al. Sci Transl Med. 2015;7283ra51. Mayer IA et al. Clin Cancer Res. 2017;23:26-34. Loi S et al. Proc Natl Acad Sci. 2010;107:10208-10213. Stemke-Hale K et al. Cancer Res. 2008;68:6084-6091. Miller TW et al. JCl. 2010;120:2406-2413. Crowder RJ et al. Cancer Res. 2009;69:3955-3962. Miller TW et al. Cancer Discovery. 2011;1:338-351. Hennessy BT et al. Nat Rev Drug Discov. 2005;4:988-1004. Brufsky. Oncologist. 2018;23:528. AlFakeeh. Curr Oncol. 2018;25:S18. Di Cosimo. Nat Rev Clin Oncol. 2010;7:139.

## Improved PFS With mTOR Inhibition BOLERO-2 and PrE0102 Trials

#### Median PFS, Events, n/N mo 310/485 7.8 Eve + exe Probability of PFS 0.8 Placebo + eve 200/239 3.2 Hazard ratio (95% CI) = 0.45 (0.38, 0.54); 0.6 P < .0001 0.4 0.2 + Censored 0 10 12 14 16 18 20 22 24 26 28 8 0 2 6 4 Time (months) No. at Risk 485 394 318 236 194 147 99 57 42 23 Eve + exe 13 Placebo + eve 239 146 103 61 42 27 0

Local Assessment<sup>[a,b]</sup>

### Investigator-Assessed PFS<sup>[c]</sup>



Improved PFS with mTOR inhibition regardless of *PIK3CA* mutation<sup>[a-c]</sup>; similar results with tamoxifen + everolimus<sup>[d]</sup>; no OS benefit

a. Yardley DA, et al. Adv Ther. 2013;30:870-884; b. Baselga J, et al. N Engl J Med. 2012;366:520-529; c. Kornblum N, et al. J Clin Oncol. 2018;36:1556-1563; d. Bachelot T, et al. J Clin Oncol. 2012;30:2718-2724.

## **BOLERO-2** Toxicity

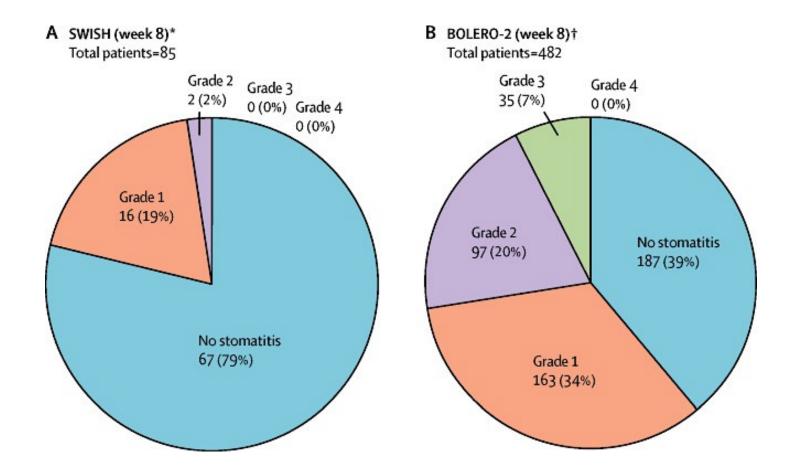
Table 2. Adverse Events Irrespective of Relationship to Study Treatment (with at Least 10% Incidence in the Everolimus–Exemestane Group).

Adverse Event	Everolir	erolimus and Exemestane Placebo and Ex (N=482) (N=232			oo and Exeme (N=238)		
	Any Event	Grade 3 Event	Grade 4 Event	Any Event	Grade 3 Event	Grade 4 Event	
			per	cent			
Stomatitis	56	8	0	11	1	0	
Rash	36	1	0	6	0	0	
Fatigue	33	3	<1	26	1	0	
Diarrhea	30	2	<1	16	1	0	
Decreased appetite	29	1	0	10	0	0	
Nausea	27	<1	<1	27	1	0	
Cough	22	1	0	11	0	0	
Dysgeusia	21	<1	0	5	0	0	
Headache	19	<1	0	13	0	0	
Decreased weight	19	1	0	5	0	0	
Dyspnea	18	4	0	9	1	<1	
Arthralgia	16	1	0	16	0	0	
Anemia	16	5	1	4	<1	<1	
Epistaxis	15	0	0	1	0	0	
Vomiting	14	<1	<1	11	<1	0	
Peripheral edema	14	1	0	6	<1	0	
Pyrexia	14	<1	0	6	<1	0	
Aspartate aminotransferase level increased	13	3	<1	6	1	0	
Constipation	13	<1	0	11	<1	0	
Hyperglycemia	13	4	<1	2	<1	0	
Pneumonitis	12	3	0	0	0	0	
Thrombocytopenia	12	2	1	<1	0	<1	
Asthenia	12	2	0	3	0	0	
Alanine aminotransferase level increased	11	3	<1	3	2	0	
Pruritus	11	<1	0	3	0	0	
Insomnia	11	<1	0	8	0	0	
Back pain	11	0	0	8	1	0	

### **Discontinuation rate**: 19% vs 4%

## **SWISH:** Phase 2 Trial to Prevent Everolimus Related Stomatitis

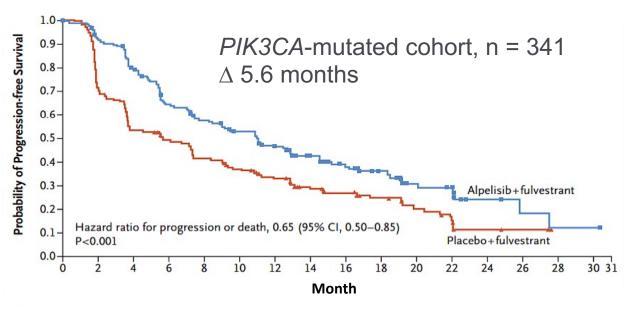
Prophylactic use of dexamethasone oral solution substantially reduced the incidence and severity of stomatitis in patients receiving everolimus and exemestane



## **Option for Patients Whose Tumors Harbor** *PIK3CA* **Mutations** *Fulvestrant* + *Alpelisib*

SOLAR-1 (Phase 3): Fulvestrant ± Alpelisib

(Progression on or after AI)



- Numerical improvement in median OS of 7.9 months in the mutated cohort<sup>[b]</sup>
- Discontinuation rate was 25% in FUL + ALP arm vs 4.2% in the FUL arm<sup>[a]</sup>
- Most common side effects (grade 3): hyperglycemia (36%), rash (10%), and diarrhea (7%)<sup>[a]</sup>
  - 6% had prior CDK4/6 inhibitor

#### Median PFS<sup>[a]</sup>

- 11.0 months (ALP + FUL) vs 5.7 months (FUL)
- HR = 0.65 (95% CI: 0.50, 0.85); P < .001</p>

<sup>•</sup> ALP, alpelisib; FUL, fulvestrant.

## **SOLAR-1: Adverse Events of Alpelisib**

AEs ≥20% in Either Arm, n (%)	Alpelis	sib + Fulvestrant (n =	= 284)	Placebo + Fulvestrant (n = 287)		
	All	Grade 3	Grade 4	All	Grade 3	Grade 4
Any AE	282 (99.3)	183 <del>(6</del> 4 4)	33 (11.6)	264 (92.0)	87 (30.3)	15 (5.2)
Hyperglycemia	181 (63.7)	93 (32.7)	11 (3.9)	28 (9.8)	1 (0.3)	1 (0.3)
Diarrhea	164 (57.7)	19 (6.7)	0	45 (15.7)	1 (0.3)	0
Nausea	127 (44.7)	7 (2.5)	0	64 (22.3)	1 (0.3)	0
Decreased appetite	101 (35.6)	2 (0.7)	0	30 (10.5)	1 (0.3)	0
Rash <sup>a</sup>	101 (35.6)	28 (9.9)	0	17 (5.9)	1 (0.3)	0
Vomiting	77 (27.1)	2 (0.7)	0	28 (9.8)	1 (0.3)	0
Decreased weight	76 (26.8)	11 (3.9)	0	6 (2.1)	0	0
Stomatitis	70 (24.6)	7 (2.5)	0	18 (6.3)	0	0
Fatigue	69 (24.3)	10 (3.5)	0	49 (17.1)	3 (1.0)	0
Asthenia	58 (20.4)	5 (1.8)	0	37 (12.9)	0	0

• 25% of patients discontinued alpelisib: 18 patients (6.3%) for hyperglycemia, 9 patients (3.2%) for rash; no patients discontinued placebo due to either hyperglycemia or rash

- Maculopapular rash, all grade (grade 3): 14.1% (8.8%) with alpelisib vs 1.7% (0.3%) with placebo
- Safety similar in PIK3CA-mutant and PIK3CA-nonmutant cohorts

## **Activity With PI3K Inhibitors and Various Endocrine Partners**

PFS benefit in 2L metastatic setting after progression on CDK4/6i is ~ 5 to 7 months

	BYLieve: PI3Ki + ET in HR+/HER2– BC With <i>PIK3CA</i> Mutation and PD on CDK4/6 Inhibition			
	Cohort A <sup>[a]</sup> (n = 121)	Cohort B <sup>[b]</sup> (n = 115)	Cohort C <sup>[c]</sup> (n = 115)	
Cohort population	CDK4/6i + AI as immediate prior tx	CDK4/6i + fulvestrant as immediate prior tx	Chemo or ET as immediate prior tx	
Endocrine partner	Fulvestrant	Letrozole	Fulvestrant	
PI3Ki	Alpelisib	Alpelisib	Alpelisib	
Median PFS, mo	7.3	5.7	5.6	
HR (PI3Ki vs control)	NA	NA	NA	

• PD, progressive disease; tx, treatment.

a. Rugo HS, et al. Lancet Oncol. 2021;22:489-498; b. Rugo HS, et al. Presented at: San Antonio Breast Cancer Symposium (SABCS) 2020; December 8-11, 2020; Virtual. Presentation PD2-07; c. Rugo HS, et al. Presented at: San Antonio Breast Cancer Symposium (SABCS) 2020; December 8-11, 2020; Virtual. Presentation PD2-07; c. Rugo HS, et al. Presented at: San Antonio Breast Cancer Symposium (SABCS) 2020; December 8-11, 2020; Virtual. Presentation PD2-07; c. Rugo HS, et al. Presented at: San Antonio Breast Cancer Symposium (SABCS) 2020; December 8-11, 2020; Virtual. Presentation PD2-07; c. Rugo HS, et al. Presented at: San Antonio Breast Cancer Symposium (SABCS) 2020; December 8-11, 2020; Virtual. Presentation PD2-07; c. Rugo HS, et al. Presented at: San Antonio Breast Cancer Symposium (SABCS) 2020; December 8-11, 2020; Virtual. Presentation PD2-07; c. Rugo HS, et al. Presented at: San Antonio Breast Cancer Symposium (SABCS) 2020; December 8-11, 2020; Virtual. Presentation PD2-07; c. Rugo HS, et al. Presented at: San Antonio Breast Cancer Symposium (SABCS) 2020; December 8-11, 2020; Virtual. Presentation PD2-07; c. Rugo HS, et al. Presented at: San Antonio Breast Cancer Symposium (SABCS) 2020; December 8-11, 2020; Virtual. Presentation PD2-07; c. Rugo HS, et al. Presented at: San Antonio Breast Cancer Symposium (SABCS) 2020; December 8-11, 2020; Virtual. Presentation PD2-07; c. Rugo HS, et al. Presented at: San Antonio Breast Cancer Symposium (SABCS) 2020; December 8-11, 2020; Virtual. Presentation PD2-07; c. Rugo HS, et al. Presented at: San

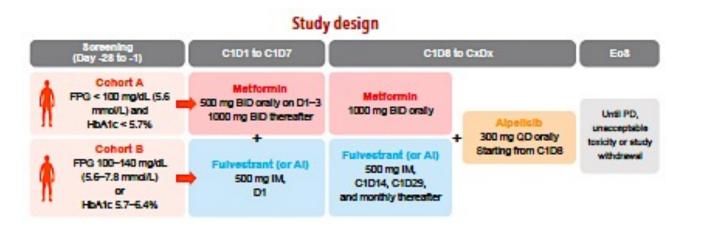
## **Lessons Learned From SOLAR-1 and BYLieve Trials**

	SOLAR-1 <sup>[a]</sup> Fulvestrant + Alpelisib	BYLieve Cohort A <sup>[b]</sup> Fulvestrant + Alpelisib	BYLieve Cohort B <sup>[c]</sup> Letrozole + Alpelisib
Prior Rx in metastatic setting, % First line Second line Third line	52 47 -	70.1 16.5 1.6	52.4 44.4 1.6
Prior CDK4/6i, %	5.3	100	100
Median PFS, months	11.0	7.3	5.7
ORR, % (measurable disease)	36	21	18
CBR, % (measurable disease)	57	42	32
Decrease in best % change from baseline	75.9	70.1	66.3
Median relative dose intensity, %	82.7	89.9	87.6
AEs leading to discontinuation (≥ 1.5%), %	25	20.5	14.3
Hyperglycemia	6.3	1.6	0.8
Rash	3.2	3.9	3.2

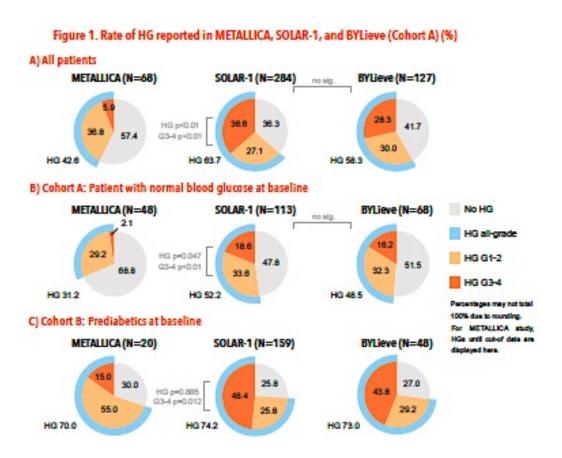
• AE, adverse event; CBR, clinical benefit rate; ORR, overall response rate.

a. André F, et al. N Engl J Med. 2019;380:1929-1940; b. Rugo H, et al. Presented at: 2020 ASCO Annual Meeting; May 29 to May 31, 2020; Virtual. Abstract 1006; c. Rugo H, et al. Presented at: San Antonio Breast Cancer Symposium (SABCS) 2020; December 8-11, 2020; Virtual. Presentation PD2-07.

### METALLICA Study: Metformin prophylaxis to prevent hyperglycemia with alpelisib

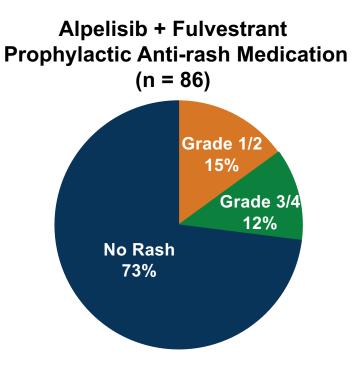


- Use of prophylactic metformin substantially reduced incidence of severe hyperglycemia with alpelisib exposure
- G3 hyperglycemia 5.9% (METALLICA) versus 36.6% (SOLAR-1)



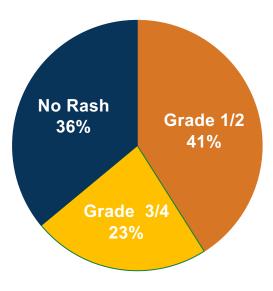
## **Understanding and Modifying Toxicity Associated With Alpelisib**

- In SOLAR-1, median time to onset for grade ≥3 rash: 13 days
- Discontinuation rate due to any grade rash: 3.2%
- For patients who received alpelisib + fulvestrant, antihistamine prophylaxis reduced rash
  - Of patients who received anti-rash prophylaxis
    - 69.8% received antihistamines
    - Rash occurred in 26.7% with prophylaxis and 64.1% without
    - Grade 3/4 incidence reduced by 50%





Alpelisib + Fulvestrant No Prophylactic Anti-rash Medication (n = 198)



## How can we harness the power of PIK3CA inhibition with improved tolerability?

 WT PI3Kα inhibition leads to dose-limiting toxicities, which may limit efficacy

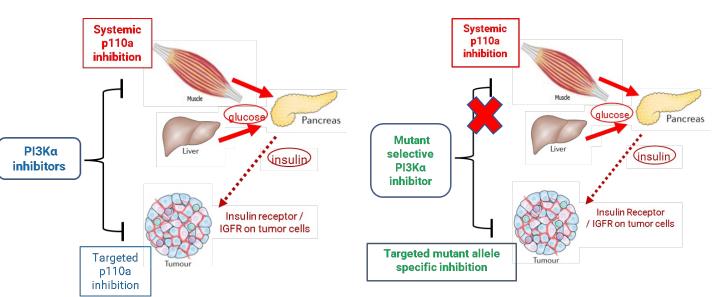
-Hyperglycemia (65% all gr)

-Diarrhea (60% all gr)

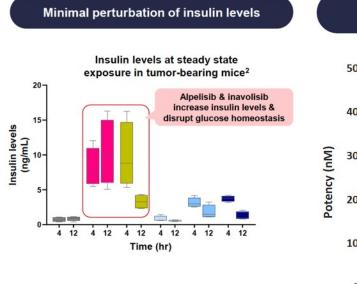
-Rash (36% all gr)

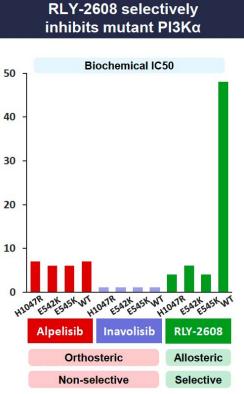
 Selective targeting of oncogenic PI3K activation without inhibiting normal PI3K function in host tissues may improve therapeutic index

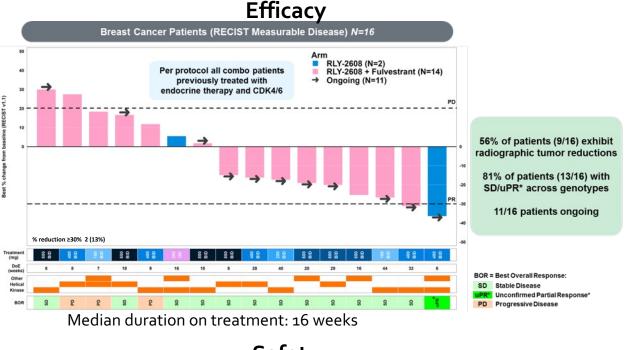
Agent	Trial
LOXO-783	Phase 1 trial LOXO-783 for <i>PIK3CA</i> 1047R mutant cancer: PIKASSO-01 NCT05307705
RLY-2608	ReDiscover: First-in-Human Study of RLY-2608; NCT05216432
STX-478	Study of STX-478 as Monotherapy and in Combination With Other Antineoplastic Agents in Patients With Advanced Solid Tumors NCT05768139



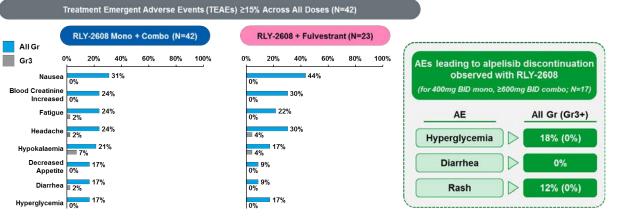
## **ReDiscover: First-in-Human Study of RLY-2608**







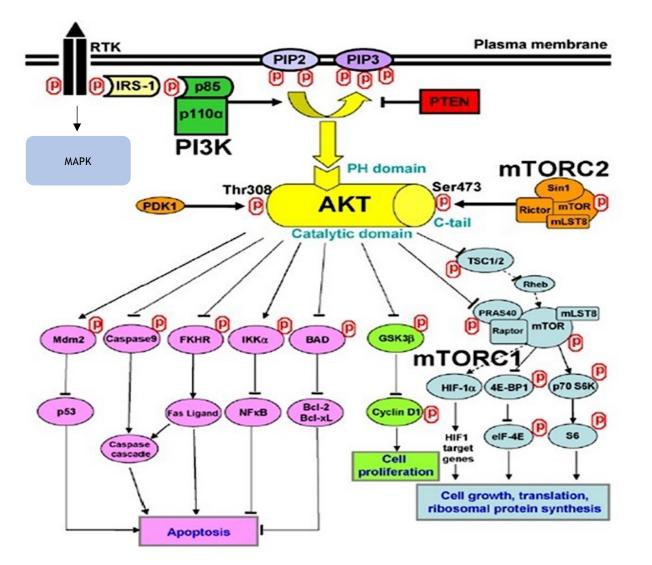




Most AEs low grade, manageable, reversible Grade 3 TEAEs 10/42 (24%); No Grade 4-5 AEs Dose modifications due to AE: Interruptions 31%; Reductions 2%; Discontinuations 0% Median Relative Dose Intensity: 98%

NCT05216432

## AKT is a central node in PI3K/Akt/mTOR pathway



	Source data: TCGA; except *SU23/PCF Dream Team								
Tumour type	PIK3CA mutation (%)	PTEN mutation or loss (%)	AKT1 mutation (%)						
Breast	35	11	3						
Prostate (metastatic)*	5	40	1						
Bladder	22	9	1						
Endometrial	53	66	2						
Glioblastoma	9	30	<1						
Head and Neck	18	2	<1						
Lung: squamous	11	18	<1						
Gastric- esophageal	5	9	1						
Ovarian	<1	6	<1						

- AKT is a central node in the PI3K-AKT-mTOR pathway
- Pathway activated by multiple mechanisms (tumourdependent),
  - activating mutations in *PIK3CA* (PI3K catalytic sub-unit) and *AKT1*;
  - loss of function alterations in PTEN
- AKT activation mediates resistance to inhibitors of RTKs, anti-hormonal agents and chemotherapy

### **Capivasertib in Advanced ER+ Breast Cancer: Phase 2 FAKTION Trial**

- >50% of ER+ MBC tumours have activated PI3K/AKT/PTEN pathway
- Capivasertib is a potent and selective inhibitor of all 3 isoforms of AKT
- In Phase II FAKTION trial, addition of capivasertib to fulvestrant doubled median PFS (10.3 vs 4.8 mo, HR 0.58)

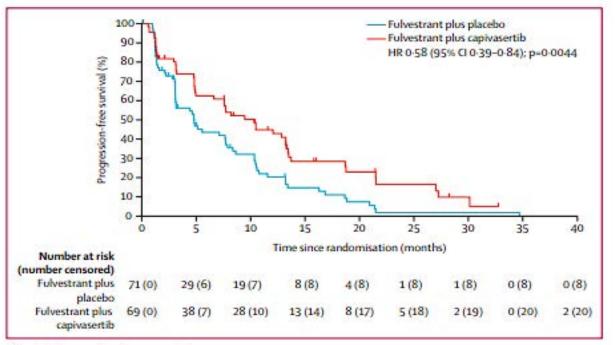
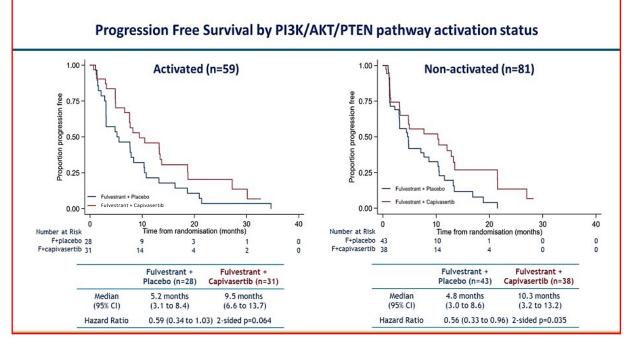


Figure 2: Progression-free survival HR=hazard ratio.

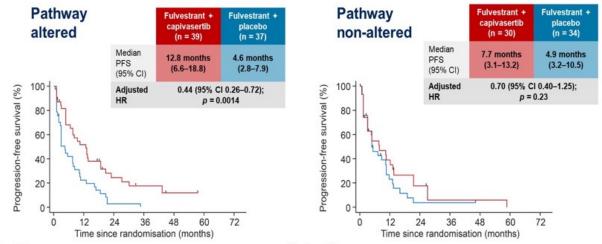


- Benefit appeared independent of activated pathway, albeit only tested for limited *PIK3CA* mutations by ddPCR and PTEN protein loss by IHC
- AKT1 not examined

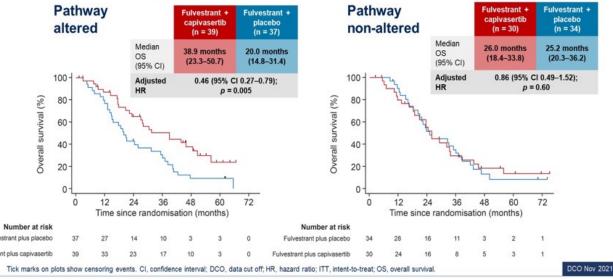
### Capivasertib in Advanced ER+ Breast Cancer: Phase 2 FAKTION Trial

- Updated efficacy data after median 60 mo follow-up
- Expanded NGS testing used to identify AKT1 E17K mutation, additional activating *PIK3CA* mutations, and PTEN alterations predicted to result in loss of function
- PI3K/AKT/PTEN alterations found in 54% of • participants in ITT population (vs 42% using original ddPCR / IHC methods)
- PFS and OS data indicated that capivasertib mainly benefited the pathway altered subgroup
  - Median PFS 12.8 mo vs 4.6 mo (HR 0.44; p = 0.0014) •
  - Median OS 39.8 mo vs 20.0 mo (HR 0.46; p = 0.005) •

#### FAKTION: PFS in the expanded pathway altered and pathway non-altered subgroups



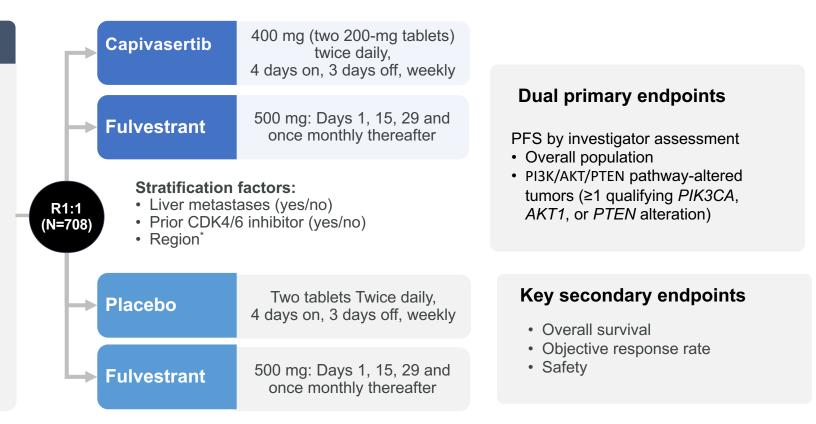
#### FAKTION: OS in the expanded pathway altered and pathway non-altered subgroups



# CAPItello-291: A Global Phase 3 Randomized, Double-Blind, Placebo-Controlled Trial of Patients with HR+/HER2– aBC or mBC Following Recurrence or Progression On or After AI-based Regimen<sup>1,2</sup>

#### Patients with HR+/HER2- aBC or mBC

- · 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 or mBC
- ≤2 lines of prior endocrine therapy for aBC or mBC
- ≤1 line of chemotherapy for aBC or mBC
- 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 tumor sample from the primary/recurrent cancer available for retrospective central molecular testing



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. Pre- or peri-menopausal women also received a luteinizing hormone-releasing hormone agonist for the duration of the study treatment.

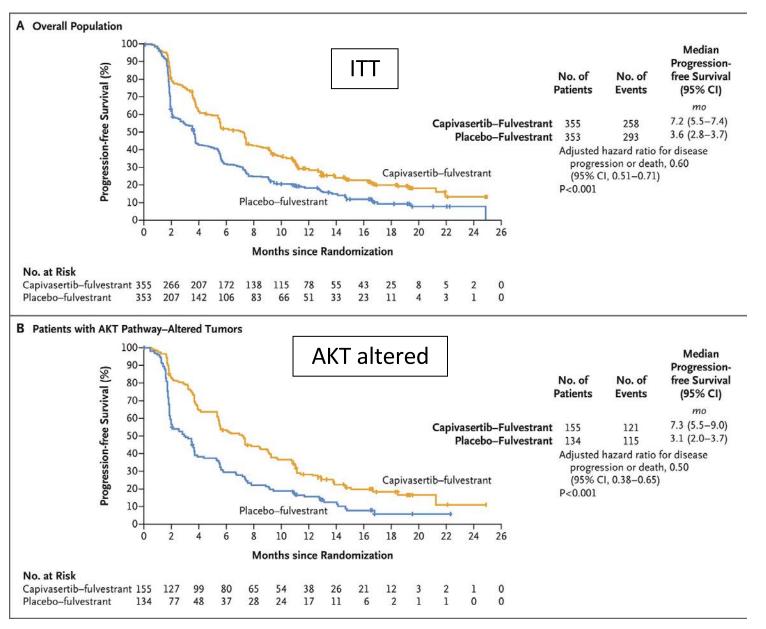
aBC, locally advanced breast cancer; AI, aromatase inhibitor; AKT, serine/threonine protein kinase; CDK4/6, cyclin-dependent kinase 4/6; FFPE, formalin-fixed, paraffin-embedded; HER2–, human epidermal growth factor receptor 2 negative; HR+, hormone receptor positive; mBC, metastatic breast cancer; mTOR, mammalian target of rapamycin; PI3K, phosphoinositide 3-kinase; PTEN, Phosphatase and tensin homolog; PFS, progression-free survival; SERD, selective estrogen receptor degrader.

## CAPItello-291:

- 69% prior CDK4/6i
- 18% prior chemotherapy
- Study met dual primary endpoints, showing significantly prolonged PFS with capivasertib + FULV vs placebo + FULV in overall and AKT pathway–altered populations (41% AKT altered)

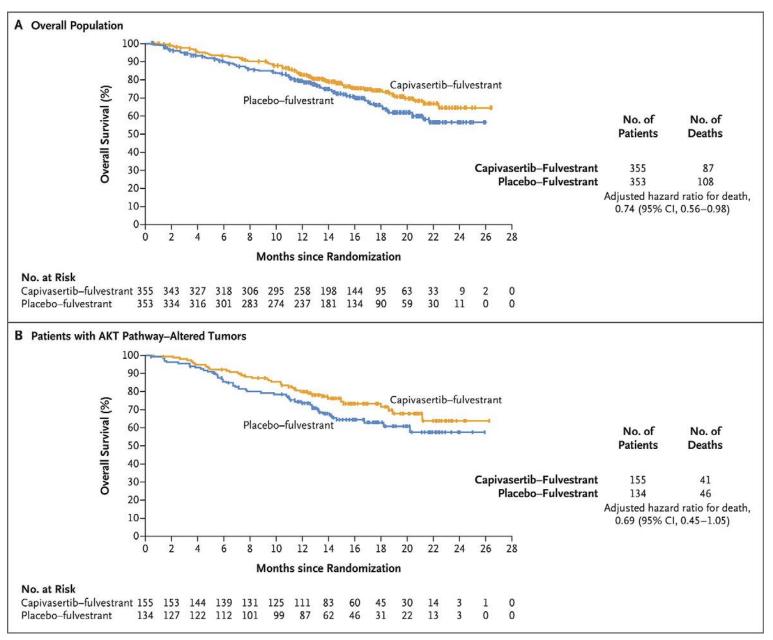
-HR 0.60 (ITT)

-HR 0.50 (AKT altered)



## **OS in Overall Population and AKT-Pathway Altered**

- OS is immature
- OS at 18 months:
  - Overall population: 73.9% capi vs. 65% placebo
  - AKT-pathway altered: 73.2% capi vs. 62.9% placebo



## **CAPItello-291: Summary of PFS by subgroups**

Consistent benefit with capivasertib + fulvestrant was observed across clinically relevant subgroups in both the overall population and AKT pathway-altered population

			0	verall populati	on		AK	T pathway-alte	red population	
			Median PF	S, months			Median PF	S, months		
		n	Capivasertib + fulvestrant	Placebo + fulvestrant		n	Capivasertib + fulvestrant	Placebo + fulvestrant		
Overall <sup>a</sup>		708	7.2	3.6	<b>⊢</b>	289	7.3	3.1	<b>⊢</b>	
Prior CDK4/6	Yes	496	5.5	2.6	⊢_♦1	208	5.5	2.0	<b>⊢</b> ;	
inhibitor <sup>b</sup>	No	212	10.9	7.2	<b>⊢</b>	81	11.0	7.4	<b>↓</b>	
Prior	Yes	129	3.8	2.1	<b>↓</b>	53	4.0	2.0	· · · · · · · · · · · · · · · · · · ·	
chemotherapy for ABC <sup>b</sup>	No	579	7.3	3.7	<b>⊢</b>	236	7.4	3.5	<b>⊢</b>	
Liver	Yes	306	3.8	1.9	<b>⊢</b>	123	5.5	1.8	<b>⊢</b> i	
metastases at baseline <sup>b</sup>	No	402	9.2	5.5	<b>⊢</b> →	166	9.1	3.7	<b>⊢</b> I	
				0.25 Favours ca + fulve	pivasertib Hazard ra	00 2.00 atio I) Favours placebo + fulvestrant			25 0.50 1.0 avours capivasertib + fulvestrant (95% (	ratio 🔪 Favours placebo

<sup>a</sup>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. <sup>b</sup>HR was estimated using the Cox proportional hazard model stratified by the presence of liver metastases and geographic region (prior CDK4/6 inhibitor subgroup), the presence of liver metastases and prior use of CDK4/6 inhibitor (prior chemotherapy for ABC subgroup [overall population]) and prior use of CDK4/6 inhibitor only (prior chemotherapy for ABC subgroup [AKT pathway-altered population] and liver metastases subgroup).

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

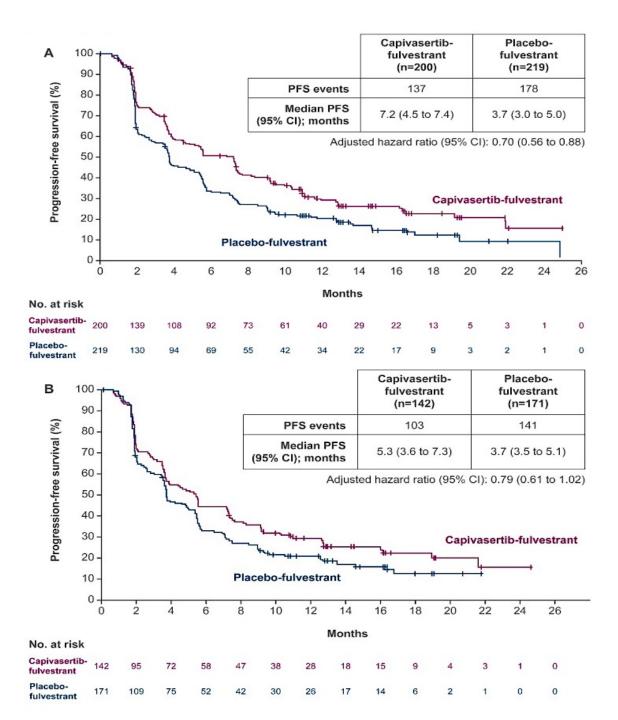
## **CAPItello-291: Efficacy** *Exploratory Analyses*

- 44% had alterations in PIK3CA/PTEN/AKT
- 16% unknown

PFS in patients with AKT pathway non-altered tumors, including unknown NGS result (per protocol)

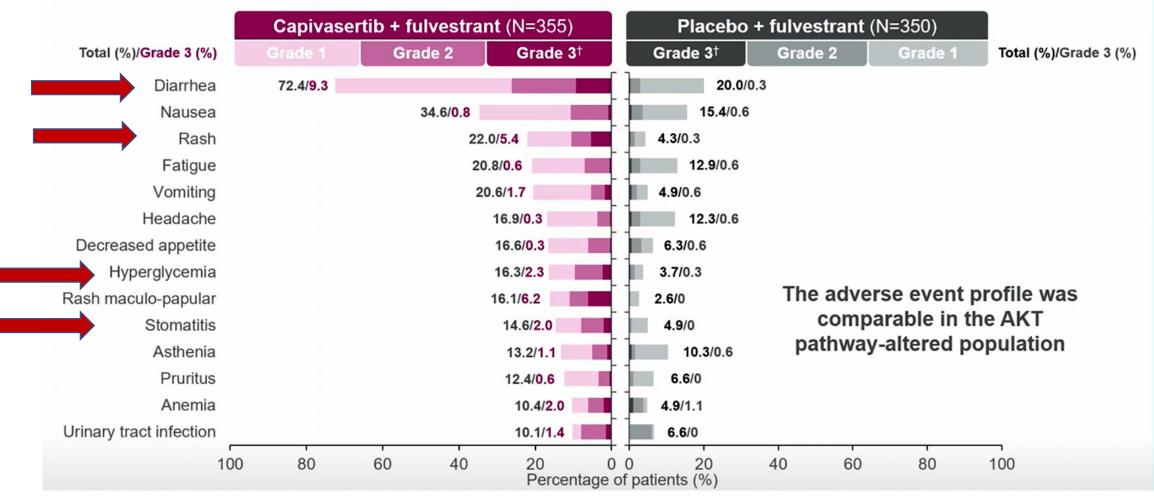
US FDA approval is for PI3K/AKT1/PTEN pathway altered group FoundationOne<sup>®</sup>CDx: companion diagnostic assay

PFS in patients with AKT pathway non-altered tumors, excluding unknown NGS result (exploratory analysis)



## CAPItello-291: Capivasertib, AKT inhibitor Adverse Events

AEs in > 10% of Patients



35% dose interruption; 20% dose reduction and Discontinuation rate 13%; 9% due to capivasertib

## **Toxicity Summary: Everolimus, Capivasertib, Alpelisib**

	Alpelisib (PI3Ki)		Capivase	rtib (AKTi)	Everolimus (mTORi)		
Toxicity	All grades	Grade 3+	All grades	Grade 3+	All grades	Grade 3+	
Diarrhea %	57.7	6.7	72.4	9.3	30	2	
Rash %	35.6	9.9	38	12.1	36	1	
Hyperglycemia %	63.7	36.6	16.9	2	13	4	
Stomatitis %	24.6	2.5	14.6	2	56	8	
Discontinuation rate	25%		13	3%	19%		

## Agenda

Module 1: Optimal Integration of CDK4/6 Inhibitors into the Management of ER-Positive Metastatic Breast Cancer (mBC) — Dr Kaklamani

Module 2: Novel Strategies to Overcome Resistance to Endocrine Therapy — Dr Jhaveri

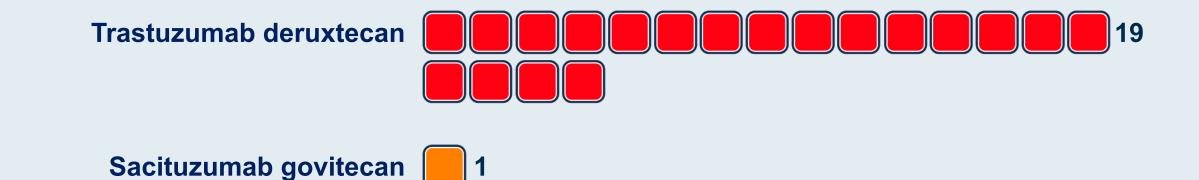
Module 3: Current Role of Antibody-Drug Conjugates in the Management of ER-Positive mBC — Dr Rugo

Module 4: Current and Future Role of Selective Estrogen Receptor Degraders (SERDs) in the Management of ER-Positive mBC — Prof Bidard

Module 5: Novel Therapies Under Investigation for Patients with ER-Positive mBC — Dr Hamilton



A 65-year-old woman with ER-positive, <u>HER2-low (IHC = 2)</u> metastatic breast cancer <u>has exhausted all available endocrine</u> therapy options and experienced disease progression on <u>capecitabine</u>. Regulatory and reimbursement issues aside, would you most likely use trastuzumab deruxtecan or sacituzumab govitecan as the next line of treatment?





Survey of 20 US-based clinical investigators November 2023

How do you generally sequence the following agents for a patient with HER2-low metastatic breast cancer who is eligible to receive both?

### **ER-Positive**

Trastuzumab deruxtecan → sacituzumab govitecan

Sacituzumab govitecan → trastuzumab deruxtecan

#### **ER-Negative**

Sacituzumab govitecan → trastuzumab deruxtecan

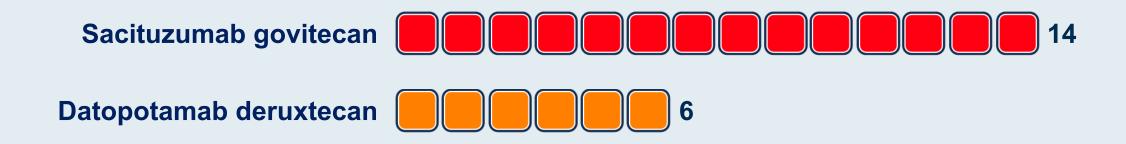
Trastuzumab deruxtecan → sacituzumab govitecan

Survey of 20 US-based clinical investigators November 2023



19

A 65-year-old woman with ER-positive, <u>HER2-negative (IHC = 0)</u> metastatic breast cancer <u>has exhausted all available endocrine</u> therapy options and experienced disease progression on <u>capecitabine</u>. Regulatory and reimbursement issues aside, would you most likely use sacituzumab govitecan or datopotamab deruxtecan as the next line of treatment?





Survey of 20 US-based clinical investigators November 2023

Based on your personal clinical experience and knowledge of available data, for each of the following agents please estimate the chance that a patient will experience toxicity during treatment that will require withholding administration. What is the primary toxicity patients experience that leads to withholding the drug?

	Chance of withholding*	Primary toxicity
Trastuzumab deruxtecan	15% (10% - 50%)	Pneumonitis/ILD
Sacituzumab govitecan	20% (5% - 50%)	Neutropenia, diarrhea

ILD = interstitial lung disease
\* Median (Range)

Survey of 20 US-based clinical investigators November 2023



Antibody-drug conjugates in the management of recurrent hormone receptor-positive, HER2-low or HER2-negative metastatic breast cancer



Paolo Tarantino, MD



Therapy options for patients with HER2-low metastatic breast cancer after capecitabine; ILD associated with trastuzumab deruxtecan



Eric P Winer, MD



Tolerability profile of sacituzumab govitecan; datopotamab deruxtecan, sacituzumab govitecan for hormone receptor-positive, HER2-low or HER2-negative metastatic breast cancer



Priyanka Sharma, MD





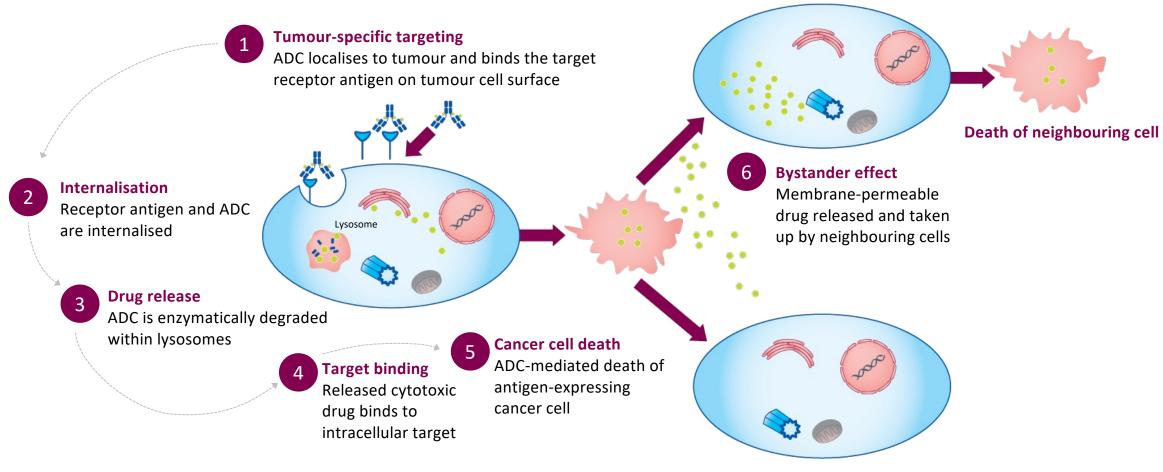


## Current Role of Antibody-Drug Conjugates in the Management of HR-Positive mBC

Hope S. Rugo, MD

Professor of Medicine and Winterhof Famly Professor of Breast Oncology Director, Breast Oncology and Clinical Trials Education University of California San Francisco Comprehensive Cancer Center

### ADC technology enables tumour-specific targeting

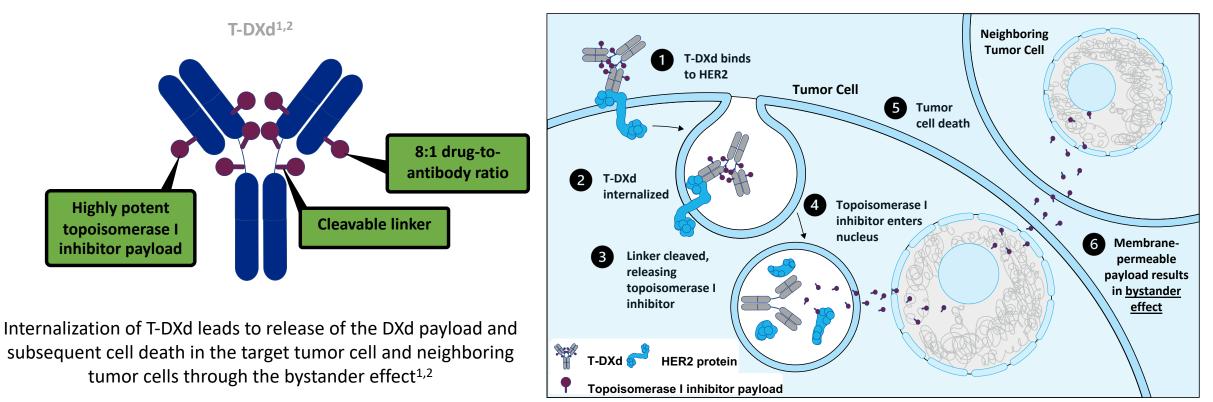


Membrane-impermeable drug

## **Current Clinical Evidence: Antibody Drug Conjugates**

- An exciting and effective drug delivery system for the treatment of multiple subtypes of mBC – it's still chemotherapy!
- Remarkable efficacy and established role in HER2+ disease
- Established role in TNBC
  - Sacituzumab govitecan is a new standard of care for mTNBC
- Established role in HER2 low and HR+ disease
  - T-DXd is a new standard of care for HER2 'low' disease
  - Sacituzumab govitecan is an effective treatment option for pre-treated HR+ disease
- Ongoing trials in earlier lines, early-stage disease, and new ADCs in phase III trials
- Many questions remain!
  - Defining HER2 low
  - Sequencing of ADCs
  - Mechanisms of resistance
- Toxicity management is critical

### T-DXd MOA, Bystander Effect, and Rationale for Targeting HER2-low mBC

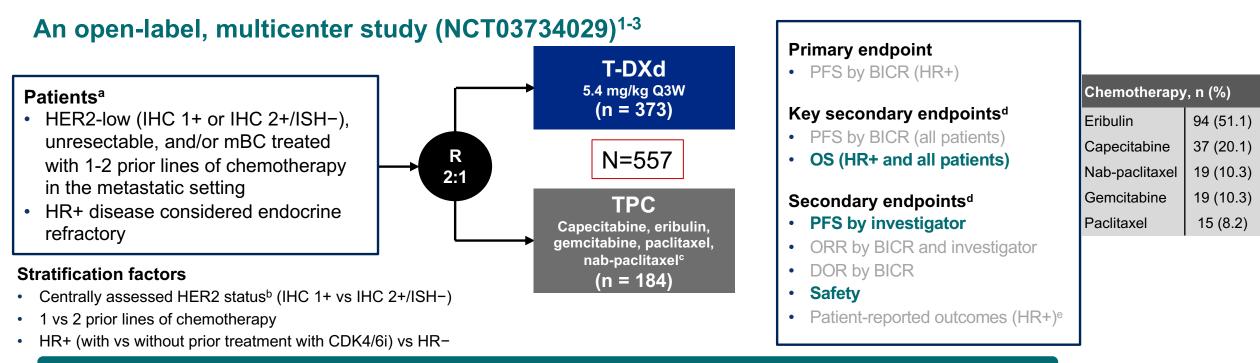


Adapted with permission from Modi S, et al. J Clin Oncol 2020;38:1887-96. CC BY ND 4.0.

• Results from a phase 1b study have reported efficacy of T-DXd in heavily pretreated patients (N = 54) with HER2-low mBC, with a mPFS of 11.1 months and an ORR of 37.0%<sup>3</sup>

HER2, human epidermal growth factor receptor 2; MOA, mechanism of action; mBC, metastatic breast cancer; mPFS, median progression-free survival; ORR, objective response rate; T-DXd, trastuzumab deruxtecan. 1. Nakada T, et al. Chem Pharm Bull. 2019;67:173-185. 2. Ogitani Y, et al. Clin Cancer Res. 2016;22:5097-5108. 3. Modi S, et al. J Clin Oncol. 2020;38:1887-1896.

## DESTINY-Breast04: Updated Survival Results of T-DXd in HER2-low Metastatic Breast Cancer

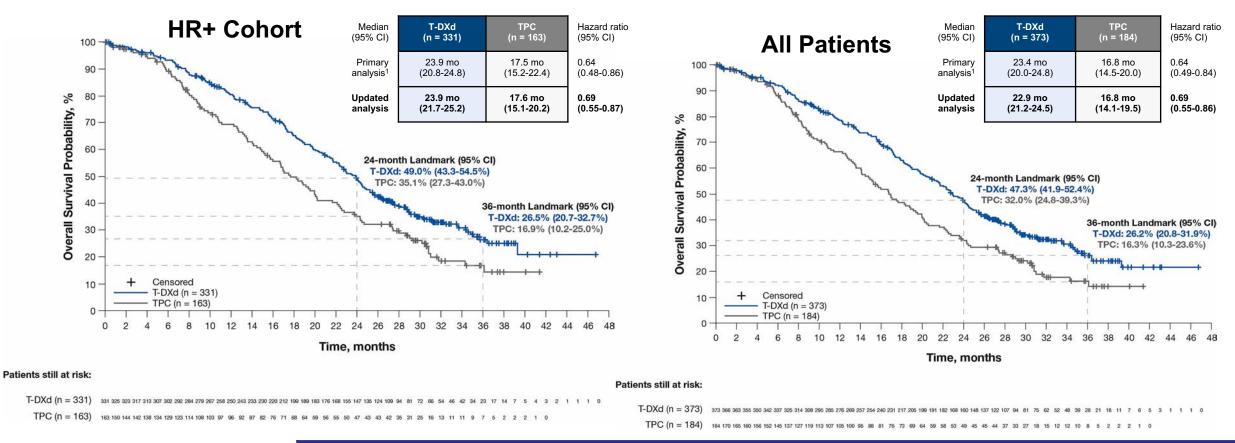


#### At the updated data cutoff (March 1, 2023), median follow-up was 32.0 months (95% Cl, 31.0-32.8 months)

- At the primary analysis (data cutoff, January 11, 2022), median follow-up was 18.4 months
- The primary analysis of PFS was by BICR; this is comparing investigator assessment
- Patient population: Median one line of chemotherapy for mBC, 65-70% prior CDKi, 70% liver mets

Modi et al, NEJM 2022; ESMO 2023

## **Updated Overall Survival**

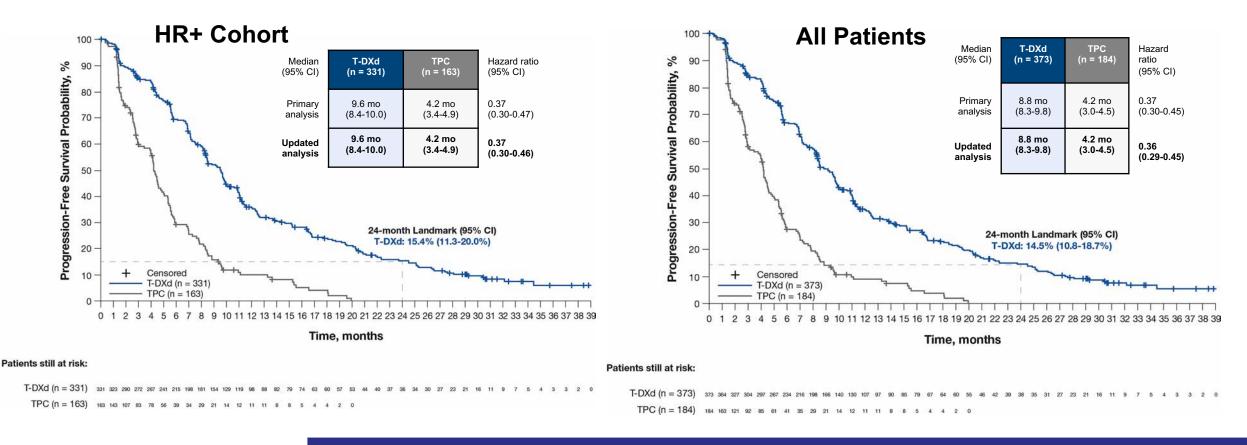


		HR+		HF	۲-	All Patients	
(Analysia (PICP)	OS	T-DXd (n=331)	TPC (n=163)	T-DXd (n=40)	TPC (n=18)	T-DXd (n=373)	TPC (n=184)
/ Analysis (BICR)	Median OS, months	23.9	17.5	18.2	8.3	23.4	16.8
M 2022: ESMO 2022	HR (95% CI); <i>P</i> value	HR 0.64 (0.48-	-0.86); 0.0028	0.48 (0.2	24-0.95)	HR 0.64 (0.49-	0.84); 0.0010

Modi et al, NEJM 2022; ESMO 2023

Primary

## Updated Progression-Free Survival (Investigator Assessed)



		HR+		HR-		All Patients	
	PFS	T-DXd (n=331)	TPC (n=163)	T-DXd (n=40)	TPC (n=18)	T-DXd (n=373)	TPC (n=184)
Primary Analysis (BICR)	Median PFS, months	10.1	5.4	8.5	2.9	9.9	5.1
Modi et al, NEJM 2022; ESMO 2023	HR (95% CI); <i>P</i> value	0.51 (0.40-	0.64); <0.0001	0.46 (0.2	24-0.89)	HR 0.50 (0 <0.00	<i>/·</i>

### Subgroup analyses: OS in the HR+ Cohort

#### **OS in all Patients**

	No. of Events/	No. of Patients	OS, median	(95% CI), mo		0.5% ( 0)		No. of Events/N	No. of Patients	OS median	(95% CI), mo		
	T-DXd	TPC	T-DXd	TPC	Hazard Ratio for Death (	95% CI)		T-DXd	TPC	T-DXd	TPC	Hazard Ratio for Death (	(95% CI)
Prior CDK4/6 inhibitors							Prior CDK4/6 inhibitors	1 DAG		1 BAG			
Yes No	156/233 53/96	78/115 31/47	22.3 (19.8-24.3) 30.3 (23.0-35.1)	16.8 (13.6-19.5) 22.4 (15.6-27.2)		0.71 (0.54-0.94) 0.63 (0.41-0.99)	Yes	158/235	81/118 32/48	22.3 (19.7-24.2)	16.7 (14.0-19.4)		0.71 (0.54-0.92)
IHC status	00/00	01111	00.0 (20.0 00.1)	22.1 (10.0 27.2)		0.00 (0.11 0.00)	No	55/98	32/48	29.6 (22.9-35.1)	22.4 (15.6-27.2)	<b>•</b>	0.64 (0.41-0.99)
IHC 1+ IHC 2+/ISH–	121/192 90/139	67/96 43/67	22.9 (20.8-25.2) 24.2 (20.8-26.5)	16.9 (13.5-22.4) 19.1 (15.1-22.3)		0.67 (0.50-0.91) 0.73 (0.51-1.05)	IHC status IHC 1+ IHC 2+/ISH-	137/214 105/159	77/107 51/77	22.7 (20.3-24.7) 23.6 (20.0-26.0)	15.7 (13.5-19.9) 17.1 (13.1-21.7)		0.65 (0.49-0.86) 0.72 (0.51-1.01)
Prior lines of chemotherapy						× /	Prior lines of chemotherapy	100/100	0111	20.0 (20.0 20.0)	17.1 (10.1 21.7)	•	0.72 (0.01 1.01)
1 ≥2	118/203 93/127	63/93 47/69	25.5 (23.9-28.8) 19.0 (16.7-22.7)	19.4 (16.7-23.9) 14.0 (10.8-20.0)		0.66 (0.48-0.89) 0.76 (0.53-1.08)	1 ≥2	129/221 113/151	69/100 59/83	25.5 (23.4-28.9) 18.1 (16.1-21.5)	18.2 (15.6-22.5) 14.0 (10.8-19.1)		0.62 (0.46-0.83) 0.78 (0.57-1.07)
Age							Age			. ,	. ,		. ,
<65 years ≥65 years	164/260 47/71	81/120 29/43	23.0 (20.8-24.8) 25.5 (21.0-28.8)	17.6 (14.8-20.0) 19.5 (9.2-30.6)		0.67 (0.52-0.88) 0.72 (0.45-1.15)	<65 years ≥65 years	185/290 57/83	95/136 33/48	22.7 (20.3-24.4) 24.4 (18.4-28.0)			0.64 (0.50-0.82) 0.77 (0.50-1.19)
Race							Race			(			· (· · · · · /
White	104/156	51/78	23.9 (19.8-24.8)	15.1 (12.3-19.9)		0.65 (0.47-0.91)	White	123/176	62/91	22.0 (18.2-24.2)	14.5 (10.7-19.4)	<b></b>	0.68 (0.50-0.93)
Asian	80/131	46/66	23.9 (21.7-28.7)	19.9 (16.7-27.2)		0.75 (0.52-1.07)	Asian	90/151	51/72	25.2 (21.7-29.6)	19.1 (15.7-24.3)		0.68 (0.48-0.96)
Other	25/37	12/16	21.5 (15.0-30.4)	15.2 (6.2-23.9)		0.56 (0.28-1.12)	Other	26/38	13/17	21.2 (17.0-28.9)	15.2 (6.2-23.9)		0.55 (0.28-1.07)
Region	80/128	42/60	00 4 (01 0 07 4)	19.9 (16.7-27.2)	<b>⊢</b>	0.70 (0.50.1.11)	Region		17/00			<b></b> 1	
Asia Europe and Israel	102/149	42/60	23.4 (21.0-27.4) 23.9 (20.8-25.7)	17.6 (12.3-20.2)	<b>⊢</b>	0.76 (0.53-1.11) 0.66 (0.47-0.93)	Asia Europe and Israel	90/147 118/166	47/66 59/85	24.0 (21.7-29.3) 22.3 (19.0-24.2)	19.1 (15.7-24.3) 14.8 (10.7-19.9)	i i i i i i i i i i i i i i i i i i i	0.69 (0.49-0.98)
North America	29/54	19/30	24.5 (15.8-28.9)	16.0 (8.8-22.3)	<b>⊢</b>	0.59 (0.33-1.06)	North America	34/60	22/33	20.6 (13.6-25.9)	14.9 (10.5-19.5)	<b>⊢</b>	0.67 (0.49-0.91) 0.66 (0.38-1.13)
ECOG performance status							ECOG performance status						
0	109/187	59/95	26.0 (23.0-29.6)	20.2 (16.7-24.4)		0.68 (0.49-0.93)	0	117/200	68/105	25.9 (23.0-29.3)	19.4 (15.1-22.8)		0.62 (0.46-0.83)
1	102/44	51/68	21.4 (17.9-23.9)	14.9 (12.6-18.4)		0.70 (0.50-0.99)	1	125/173	60/79	20.6 (17.2-22.7)	14.5 (12.3-18.4)	· • · · ·	0.74 (0.54-1.01)
Visceral disease at baseline	001/000	00/14.40	00.0 (01.4.04.5)		<b></b>	0 70 (0 57 0 00)	Visceral disease at baseline	007/000				<b></b>	0.74 (0.57.0.00)
Yes No	201/298 10/33	99/146 11/17	22.9 (21.4-24.5) NE (20.4-NE)	17.5 (14.8-20.2) 18.4 (13.5-NE)	· • • • • • • • • • • • • • • • • • • •	0.73 (0.57-0.93) 0.34 (0.14-0.81)	Yes No	227/332 15/41	109/157 19/27	22.4 (20.0-24.0) NE (28.0-NE)	16.9 (14.0-20.0) 15.7 (12.9-20.6)	<b>⊢</b> ♠i	0.71 (0.57-0.90) 0.35 (0.18-0.70)
INU	10/33	11/17	NE (20.4-INE)	10.4 (13.5-INE)	· · · · · · · · · · · · · · · · · · ·		INU	15/41	19/27	INE (20.0-INE)	13.7 (12.9-20.0)		

0.00 0.25 0.50 0.75 1.00 1.25 1.50 1.75 2.00

44

42 53

40

0.00 0.25 0.50 0.75 1.00 1.25 1.50 1.75 2.00

#### **Adverse Events**

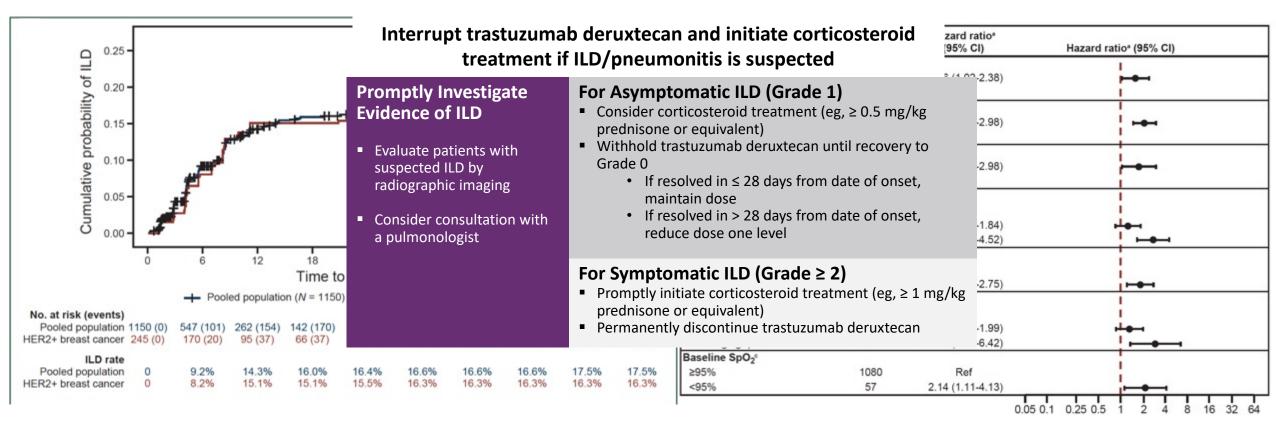
Nausea	73		5	0	24
Fatigue <sup>a</sup>	52		8	5	
Transaminases increased <sup>b</sup>	42		4	11	
Alopecia	38		(	þ	33
Neutropenia <sup>c</sup>	35	5	14		
Anemiad	3	4	9	5	24
Vomiting	34	ŧ.	1	0 10	
Decreased appetite		29	2	1 16	
Thrombocytopenia <sup>e</sup>	T-DXd, any grade	25	6	19	
Leukopenia <sup>f</sup>	■ T-DXd, grade ≥3	24	7	19	31
Diarrhea	■ TPC, grade ≥3	22	1	2 18	
Constipation	■ TPC, any grade	22	2	0 13	

	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Any Grade		
ILD/pneumonitis (adjudicated,	, drug-related), n	(%)						
T-DXd (n = 371)	13 (3.5)	24 (6.5)	4 (1.1)ª	0	4 (1.1) <sup>a</sup>	45 (12.1)		
TPC (n = 172)	1 (0.6)	0	0	0	0	1 (0.6)		
Left ventricular dysfunction								
Ejection fraction decreased,	, n (%)							
T-DXd (n = 371)	2 (0.5)	15 (4.0)	1 (0.3)	0	0	18 (4.9)		
TPC (n = 172)	0	0	0	0	0	0		
Cardiac failure, n (%)								
T-DXd (n = 371)	0	1 (0.3)	1 (0.3)	0	0	2 (0.5)		
TPC (n = 172)	0	0	0	0	0	0		

Percent of Patients Experiencing Drug-Related TEAE

Modi et al, NEJM 2022; ESMO 2023

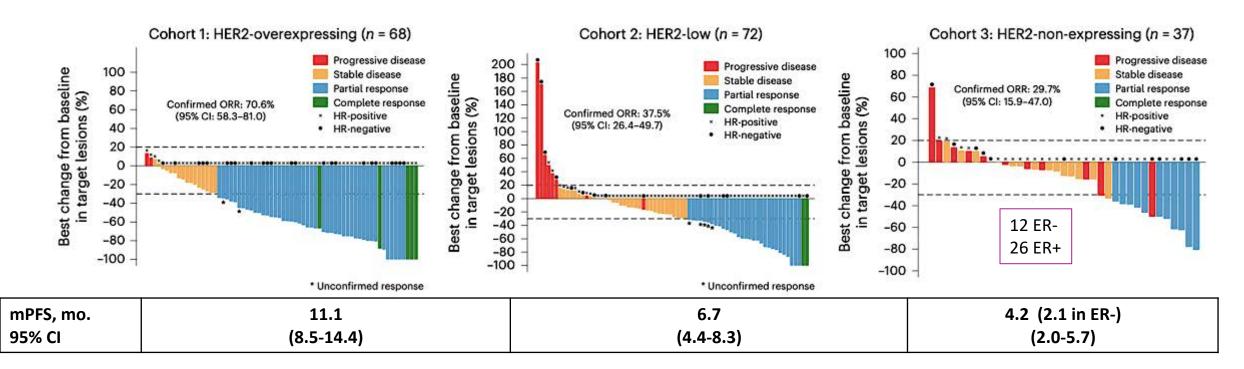
## Pooled Analysis of ILD/Pneumonitis in 9 Trastuzumab deruxtecan Monotherapy Studies



- 1150 pts (44.3% breast cancer) with a median treatment duration 5.8 mo (0.7-56.3)
- Overall incidence: 15.4% (grade 5: 2.2%); grade 1-2: 77.4%
- 87% had their first event within 12 months of their first dose

Powell et al, ESMO Open 2022

## Can Use of T-DXd be Expanded? The DAISY Trial



PFS was longer in cohort 1 (adj HR: 0.53, 95% CI 0.34–0.84, *P* = 0.007) and shorter in cohort 3 (adj HR: 1.96 95% CI 1.21–3.15, *P* = 0.006) comp to cohort 2.

Mosele et al, Nature Med 2023; 29:2110-2120

## **Testing Trastuzumab Deruxtecan in HER2 'Ultralow' DESTINY-Breast06**

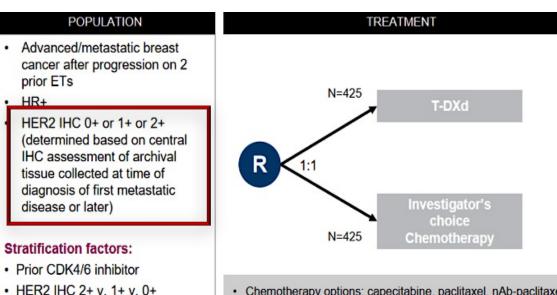
· Prior taxane in non-metastatic

setting

### **Key differences with DB-04:**

- Includes IHC0 (ultralow, n=150)
- Larger (n=850)
- Restricted to HR+ disease
- Chemo-naïve patients

### **Status: Completed accrual**



- Chemotherapy options: capecitabine, paclitaxel, nAb-paclitaxel
- Treatment continues until progressive disease or toxicity
- · HER2 IHC 0+ defined by any IHC staining up to 10% of tumor cells
- Futility analysis in HER2 IHC 0+ cohort will be done

#### **ENDPOINTS**

#### Primary:

 PFS (BICR) in HER2 IHC 1+/2+ population

#### Key Secondary:

- OS in HER2 IHC 1+/2+ population
- PFS in ITT population
- OS in ITT population

#### Secondary:

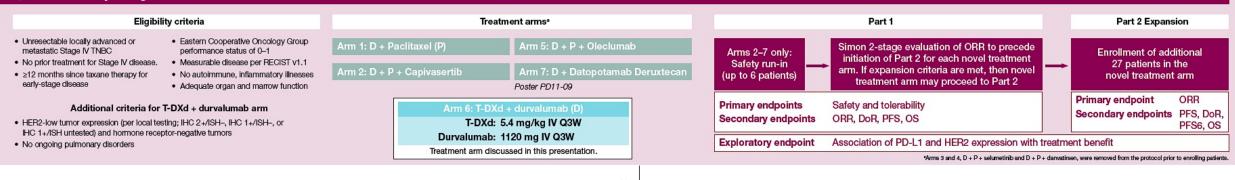
- · PFS (investigator assessed) in HER2 IHC 1+/2+
- ORR and DOR of HER2 IHC 1+/2+ and ITT populations
- Safety and tolerability
- Symptoms, functioning and HRQoL

#### Exploratory:

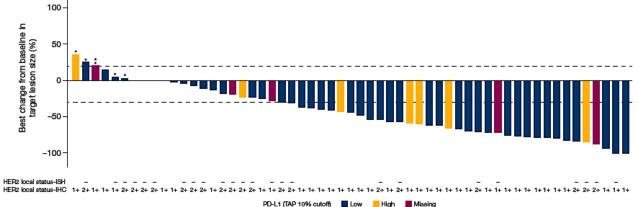
- PRO
- Pharmacodynamic biomarkers

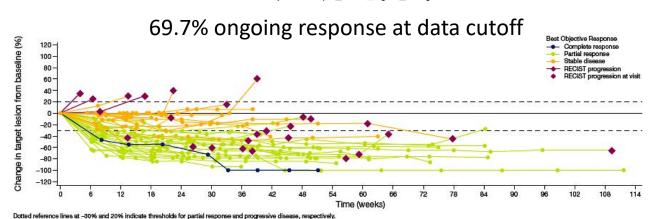
## T-DXd + Durvalumab: The BEGONIA Trial

#### **BEGONIA Study Design**



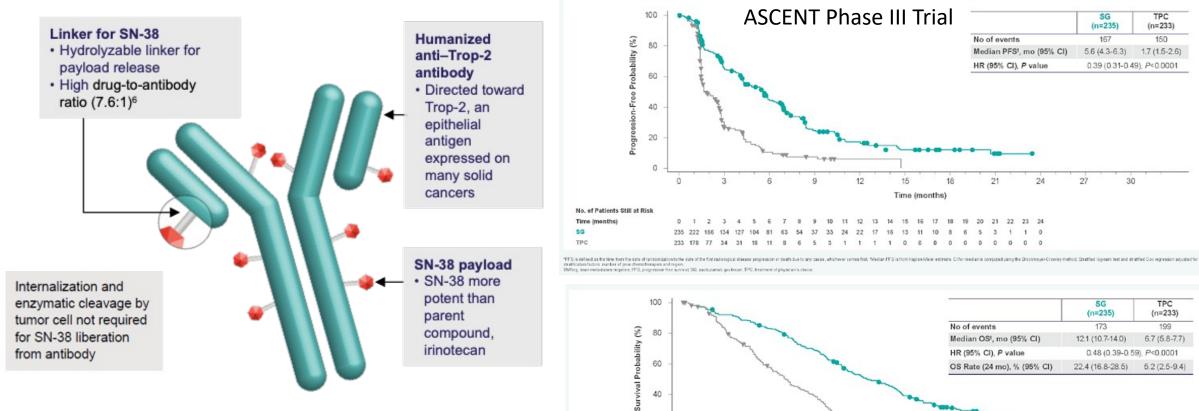
- First-line basket trial for HER2-low mTNBC
  - Arm 6 (n=58)
    - PD-L1 testing using SP263
    - ORR 56.9% (n=33)
    - PFS 12.6 mo (8.3-NC)
  - Safety
    - 8 cases of adjudicated ILD, 2 more pending review
      - Grade 1 (3), grade 2 (2), grade 3 (1), grade 5 (1, Covid related)
      - 17% stopped rx due to AEs





Schmid et al, SABCS 2022; PD11-08

### Sacituzumab Govitecan (SG): First-in-Class Trop-2–Directed ADC



Dverall 0

\*0Sis defined as the time from date of randomization to the date of death from any cause. Patients without do Conregension adjusted for analytication factors, number of prior chemothespices and region. BMMsg. beam restatuses experience, OS event animate (SS sectazamed portexion. IPC, instrument of physic

No. of Patients Still at Risk Time (months)

SG

- Trop-2 is expressed in all subtypes of breast cancer and linked to poor prognosis
- Key grade ≥3 TRAEs (SG vs TPC): neutropenia (51% vs 33%), diarrhea (10% vs <1%), leukopenia (10% vs 5%), anemia (8% vs 5%), FN (6% vs 2%)</li>
- G-CSF: 49% in the SG arm vs 23% in the TPC arm
- Dose reductions due to TRAEs were similar (22% SG vs 26% TPC)
- No severe CV toxicity, no grade >2 neuropathy or grade >3 ILD with SG

Bardia et al. NEJM, 2021.

30

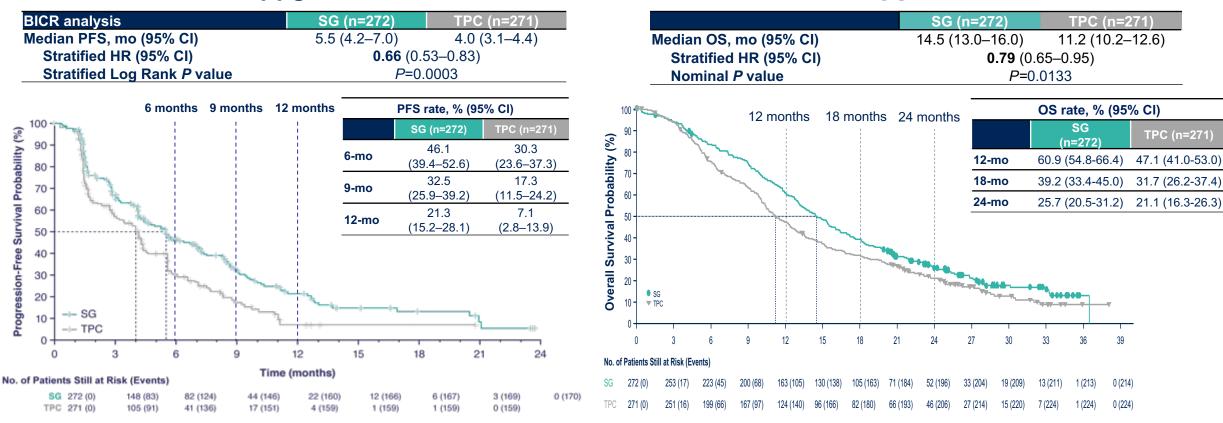
12

Time (month

### TROPiCS-02 for HR+/HER2- Disease: PFS & OS in the ITT Population

PFS<sup>1</sup>

**OS**<sup>2,3</sup>



SG demonstrated a statistically significant improvement in PFS and OS vs TPC

Median follow-up was 10.2 months.

BICR, blinded independent central review; ITT, intent-to-treat; OS, overall survival; PFS, progression-free survival; SG, sacituzumab govitecan; TPC, treatment of physician's choice.

1. Rugo HS, et al. J Clin Oncol. 2022;40:3365-3376. Adapted from Rugo HS, et al. Sacituzumab govitecan in hormone receptor-positive/human epidermal growth factor receptor 2-negative metastatic breast cancer. J Clin Oncol. 2022. doi: 10.1200/JCO.22.01002. Reprinted with permission from American Society of Clinical Oncology. 2. Rugo H, et al. ESMO 2022. Oral LBA76. 3. Tolaney et al, ASCO Abstract 1003; Rugo et al, Lancet 2023

No new toxicity signals compared to ASCENT

### TROPiCS-02: PFS and OS by Trop-2 Expression Level and HER2 IHC Status

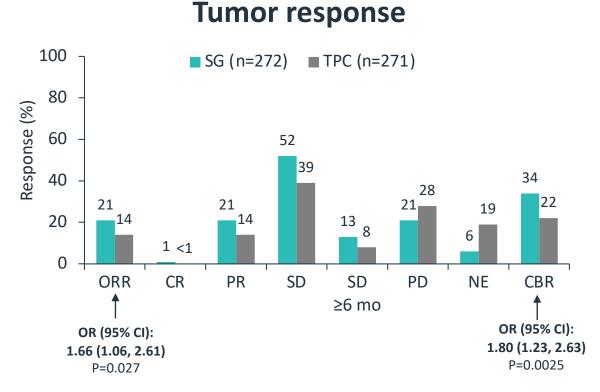
OS

	Status	Median PFS, m	onths (95% CI)	HR (95% CI)		Status	Median OS, m	onths (95% CI)	HR (95% CI)
		SG	ТРС				SG	ТРС	
Trop 3	H-score <100	5.0 (4.1 <i>,</i> 6.0) n=96	4.0 (2.7, 5.6) n=96	<b>0.79</b> (0.56, 1.12)		H-score <100	14.9 (12.7, 18.1) n=96	11.3 (10.0, 13.3) n=96	<b>0.78</b> (0.57, 1.06)
Trop-2	H-score ≥100	5.8 (4.0, 8.3) n=142	4.1 (2.3, 4.5) n=128	<b>0.61</b> (0.45, 0.83)	Trop-2	H-score ≥100	14.4 (12.7, 17.0) n=142	11.2 (9.9, 12.7) n=128	<b>0.82</b> (0.63, 1.08)
	IHC1+, IHC2+/ISH–	5.8 (4.1, 8.4) n=149	4.2 (2.8, 5.5) n=134	<b>0.60</b> (0.44, 0.62)		IHC1+, IHC2+/ISH–	15.4 (13.5, 19.1) n=149	11.5 (10.1, 12.9) n=134	<b>0.75</b> (0.57, 0.97)
HER2	IHC0	5.0 (3.9, 7.2) n=101	3.4 (1.8, 4.2) n=116	<b>0.70</b> (0.51, 0.98)	HER2	IHC0	13.6 (12.1, 16.0) n=101	10.8 (9.2, 14.2) n=116	<b>0.85</b> (0.63, 1.14)

PFS

Tolaney et al. ASCO 2023. Abstract 1003; updated from Rugo et al, ESMO 2022 and Rugo et al, SABCS 2022; Rugo et al, Lancet 2023

### **TROPiCS-02: Responses and Safety Summary**



Median DoR, months (95% Cl): 8.1 (6.7, 8.9) vs 5.6 (3.8, 7.9)

#### Safety summary

	,					
n (%)		S		TP		
		(n=2	-	(n=249)		
AE Grade ≥3		199	(74)	149 (60)		
AEs $\rightarrow$ disconti	nuation	17	(6)	11	(4)	
AEs $\rightarrow$ dose de	lay	178	(66)	109	(44)	
AEs $\rightarrow$ dose red	ductions	91 (	34)	82 (	33)	
SAEs		74 (	28)	48 (	19)	
AEs $\rightarrow$ death <sup>a</sup>		6 (	2)	C	)	
		Any grade	Grade ≥3	Any grade	Grade ≥3	
Hematologic	Neutropenia Anemia Thrombocytopenia	189 (71) 98 (37) 17 (6)	140 (52) 20 (7) 1 (<1)	136 (55) 69 (28) 41 (16)	97 (39) 8 (3) 9 (4)	
GI	Diarrhea Nausea Constipation Vomiting Abdominal pain	166 (62) 157 (59) 93 (35) 64 (24) 53 (20)	27 (10) 3 (1) 1 (<1) 3 (1) 10 (4)	57 (23) 87 (35) 61 (24) 39 (16) 34 (14)	3 (1) 7 (3) 0 4 (2) 2 (1)	
Other	Alopecia Fatigue Asthenia Decreased appetite Dyspnea Headache Pyrexia AST increased	128 (48) 105 (39) 62 (23) 57 (21) 49 (18) 44 (16) 39 (15) 33 (12)	0 16 (6) 6 (2) 4 (1) 5 (2) 1 (<1) 2 (1) 4 (1)	46 (18) 82 (33) 50 (20) 52 (21) 39 (16) 36 (14) 45 (18) 44 (18)	0 9 (4) 5 (2) 2 (1) 11 (4) 2 (1) 0 8 (3)	

<sup>a</sup>Of 6 AEs leading to death, 1 (septic shock due to neutropenic colitis) was considered treatment related by investigator

Rugo et al, JCO 2022; Rugo et al, ESMO 2022; Rugo et al, SABCS 2022; Tolaney et al. ASCO 2023. Abstract 1003; Rugo et al, Lancet 2023

## ASCENT and TROPiCS-02: Safety Outcomes by UGT1A1 Status

#### UGT1A1

- Variants affect enzymatic function, causing reduced metabolic capacity
- ✓ Over 50% of individuals may harbor an UTG1A1 polymorphism, dependent on genetic ancestry

Grade ≥3 TEAEs	SG
Overall (%)	(n=268)
Neutropenia	52
Diarrhea	10
Anemia	8
Febrile neutropenia	6

	ASCI	ENT	TROPiCS-02		
SG patients (n=250)	UGT1A1 Status n(%)	Dose Intensity (%)	UGT1A1 Status n(%)	Dose Intensity (%)	
*1/*1 (wt)	113 (44)	99.8	104 (38)	99	
*1/*28	96 (37)	99.5	119 (44)	98	
*28/*28	34 (13)	99.8	25 (9)	94	

	ASCENT			TROPICS-02					
Grade ≥3 TEAEs By UGT1A1 Status (%)	*1/*1 (wt)	*1/*28	*28/*28	*1/*1 (wt)	*1/*28	*28/*28			
Neutropenia	53	47	59	45	57	64			
Diarrhea	10	9	15	6	13	24			
Anemia	4	6	15	6	8	8			
Febrile neutropenia	3	5	18	6	7	4			
Growth factor for neutropenia (initiated on/after first dose) overall 54%									
				33	49	11			

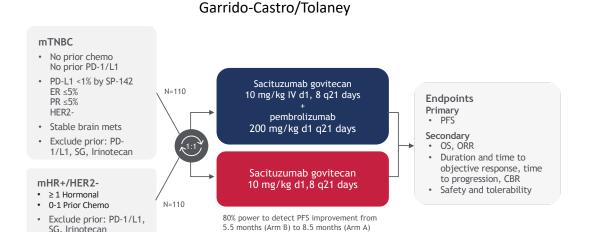
ASCENT: Treatment discontinuation due to TRAEs more common in \*28 homozygous genotype

Nelson, RS, et al. *Cancers.* 2021;13:1566. Rugo, HS, et al. *npj Breast Cancer.* 2022;8:98. Marmé, F, et al. *Annals of Oncol.* 2023;8(1suppl\_4):101223-101223. Rugo et al. *Lancet* 2023

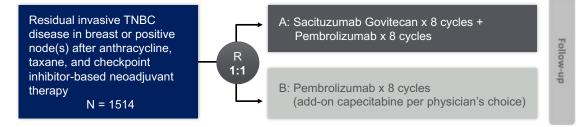
### ASCENT-03 (NCT05382299): PD-L1 negative

First-line therapy Sacituzumab govitecan PD-L1 neg TNBC TNBC Rxd with IO TPC: paclitaxel, nabin early stage paclitaxel, gem/carbo ASCENT-04 (NCT05382286): PD-L1 positive N=570 SG + pembrolizumab (SG: 10 mg/kg IV on days 1L mTNBC PD-L1+ 1 and 8 of 21-day cycles; Previously untreated, Pembro: 200 mg IV on day inoperable, locally advanced, 1 of 21-day cycles) OR metastatic TNBC • PD-L1+ (CPS ≥10, IHC 22C3 assay) PD-L1 and TNBC status TPC chemotherapy + centrally confirmed pembrolizumab • Prior anti-PD-(L)1 allowed in (Pembro dosed as above. TPC: gem 1000 mg/m<sup>2</sup> N=570 with carbo AUC 2 IV on days 1 and 8 of 21-day the curative setting • ≥6 months since treatment in (≤25% de novo) cycles OR paclitaxel 90 mg/m<sup>2</sup> IV on days 1, 8, and 15 of 28-day cycles OR nab-paclitaxel: curative setting 100 mg/m2 IV on days 1, 8, and 15 of 28-day cycles)

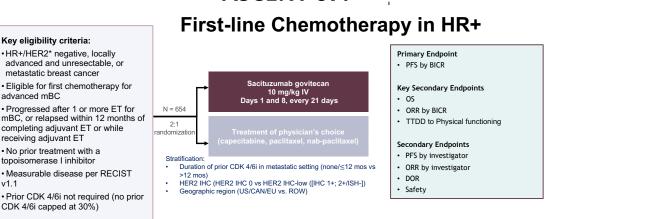
#### SACI-IO TNBC and HR+: Sacituzumab govitecan +/- pembrolizumab in 1L PD-L1- mTNBC and HR+



### Phase III Trial: OptimICE-RD/ASCENT-05 **Residual disease in TNBC**



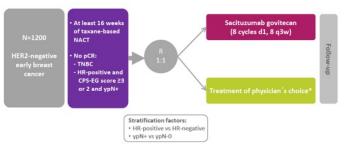
#### PI: Sara Tolaney; Alliance Foundation Trial



#### **GBG: SASCIA Post-Neoadjuvant Trial** NCT04595565

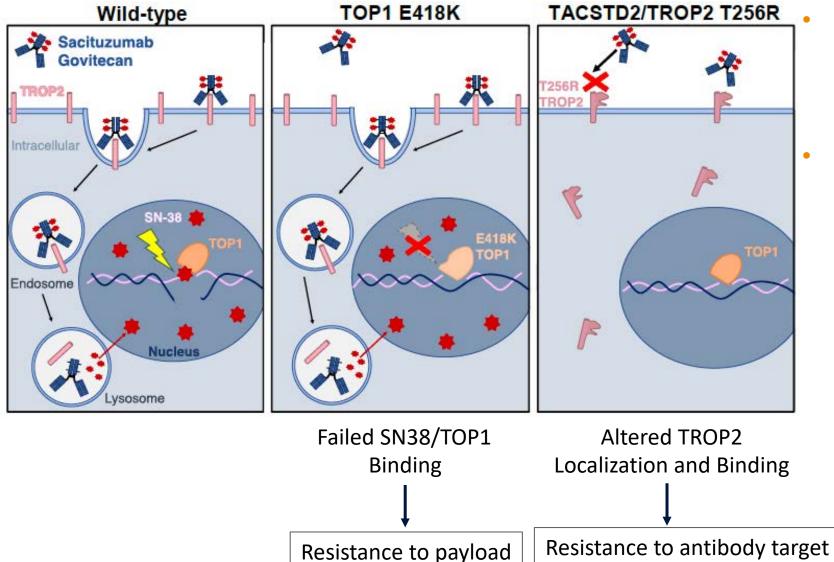
v1.1

ASCENT-07:



#### N=540

## **Mechanisms of Resistance to TROP2 ADC**



Analysis of tumor tissue from 3 patients pre- and post-Sacituzumab treatment

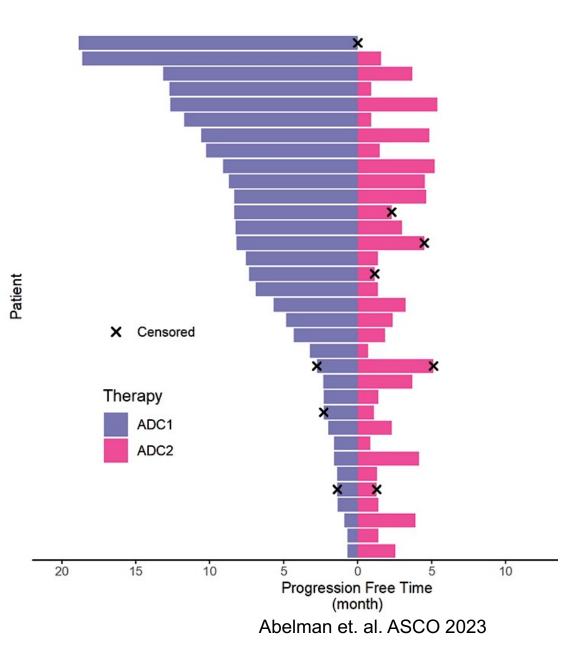
- Two acquired resistance mechanisms identified
  - Mutations in TOP1 leading to decreased binding of SN38 with topoisomerase I
  - Mutation in TROP2 leading to decreased binding of SG and decreased cell surface expression

## Single center study of sequential use of ADC after ADC for patients with MBC

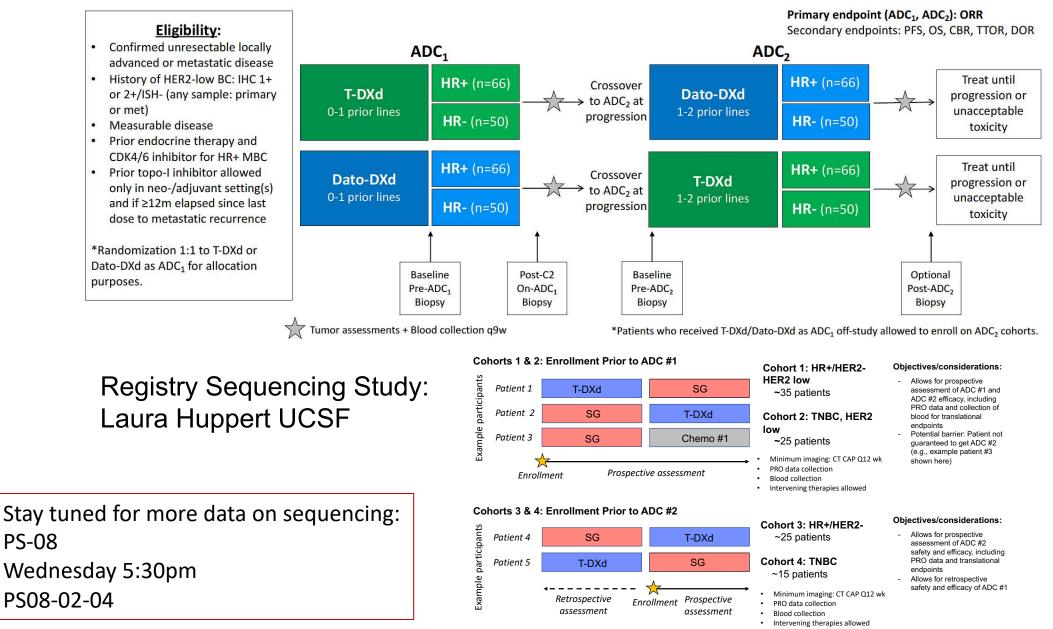
#### **Key Eligibility Criteria**

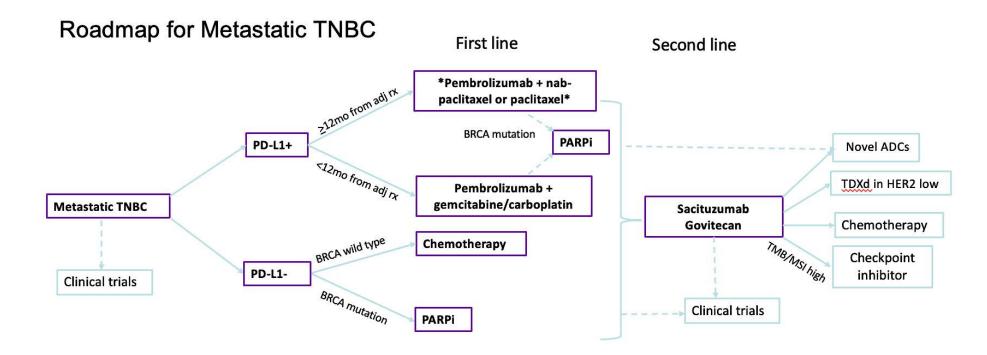
- HER2– MBC (HR+/HER2– or TNBC)
- Treated with 2+ ADCs for MBC at a single institution

Patient Characteristics	n=35	
	HR+/HER2-	15 (42.9)
Breast cancer subtype, n (%)	TNBC	20 (57.1)
11 (70)	HER2-low	24 (68.6)
Median age at second Al	DC, years	56
Median prior lines of	HR+/HER2-	7
treatment, n	TNBC	3
	HER2	8 (22.9)
Antibody target of ADC1, n (%)	Trop-2	26 (74.3)
11 (70)	Other	1 (2.9)
	HER2	14 (40.0)
Antibody target of ADC2, n (%)	Trop-2	19 (54.3)
11 (70)	Other	2 (5.7)
Payload of ADC1	TOP-1 inhibitor	35 (100)
	TOP-1 inhibitor	31 (88.6)
Payload of ADC2	Microtubule inhibitor	2 (5.7)
	Other	2 (5.7)

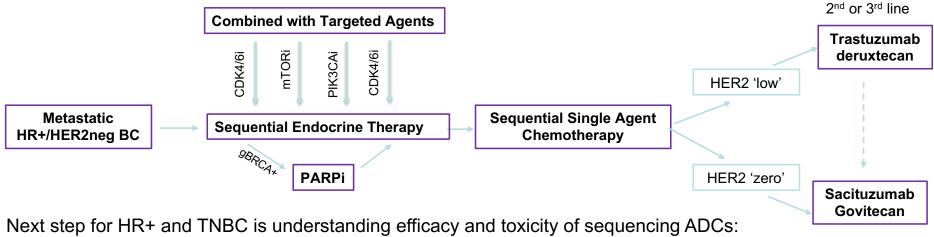


#### TBCRC 064: TReatment of ADC-Refractory Breast CancEr with Dato-DXd or T-DXd (TRADE-DXd). PI: Ana Garrido-Castro





#### Roadmap for HR+/HER2- Metastatic Breast Cancer



- TRADE-DXd (DFCI): DATO-Dxd and TDXd
- Sacituzumab sequenced registry trial (UCSF): SG and TDXd

## Agenda

Module 1: Optimal Integration of CDK4/6 Inhibitors into the Management of ER-Positive Metastatic Breast Cancer (mBC) — Dr Kaklamani

Module 2: Novel Strategies to Overcome Resistance to Endocrine Therapy — Dr Jhaveri

Module 3: Current Role of Antibody-Drug Conjugates in the Management of ER-Positive mBC — Dr Rugo

Module 4: Current and Future Role of Selective Estrogen Receptor Degraders (SERDs) in the Management of ER-Positive mBC — Prof Bidard

Module 5: Novel Therapies Under Investigation for Patients with ER-Positive mBC — Dr Hamilton



Based on your personal clinical experience and knowledge of available data, for each of the following agents please estimate the chance that a patient will experience toxicity during treatment that will require withholding administration. What is the primary toxicity patients experience that leads to withholding the drug?

	Chance of withholding*	Primary toxicity
Elacestrant	5% (5% - 25%)	Nausea/GI toxicity
Camizestrant	7% (2% - 20%)	Photopsia, bradycardia
Imlunestrant	5% (2% - 20%)	Nausea/GI toxicity
Capivasertib	13% (5% - 40%)	Rash, GI toxicity

\* Median (Range)

Survey of 20 US-based clinical investigators November 2023

## If <u>camizestrant</u> were to become available, for which patients with ER-positive, HER2-negative metastatic breast cancer would you prioritize its use?

- Certainly for patients with metastatic ER+ breast cancer who had ESR1 mutations and had progressed on prior endocrine therapy but were still felt to be endocrine sensitive
- <u>ESR1-mutant pts toss up between camizestrant and elacestrant they could be</u> <u>sequenced</u>
- Patients with ESR1 mutation being detected while on 1st line AI+CDK4/6i
- The SERENA-2 patient population: post-menopausal patients with estrogen receptor (ER)-positive locally advanced or metastatic breast cancer, previously treated with endocrine therapy for advanced disease
- Depends on whether it is restricted to only ESR1, if it isn't I would use for all pts post AI + CDK4/6
- Patients with ESR1 mutant disease and indolent pace of progression

Survey of 20 US-based clinical investigators November 2023



## If <u>camizestrant</u> were to become available, for which patients with ER-positive, HER2-negative metastatic breast cancer would you prioritize its use?

- <u>ESR1mt tumors esp if had >12m PFS on ET + CDK4/6i although might be harder drug</u> <u>than Elacestrant</u>
- Depends on if label extends beyond ESR1 mutation. Probably would be alternative to fulvestrant.
- We need more data to make this decision as we do not have phase III data yet. So we dont know if it will work for all or only those with ESR1 mutations.
- Not sure
- ESR1 mutant after fulvestrant



Elacestrant for recurrent ER-positive metastatic breast cancer harboring an ESR1 mutation; management of recurrent ER-positive metastatic breast cancer





## Current and Future Role of Selective Estrogen Receptor Degraders (SERDs) in the Management of ER-Positive mBC



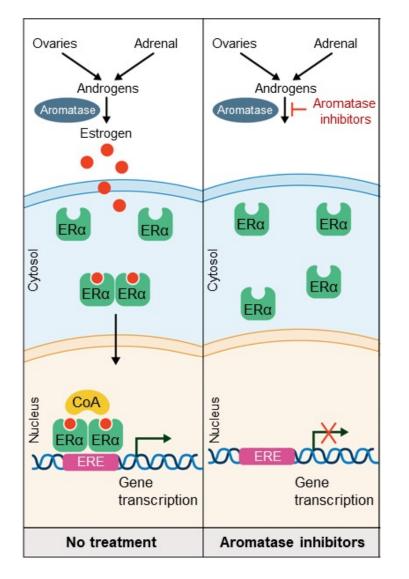


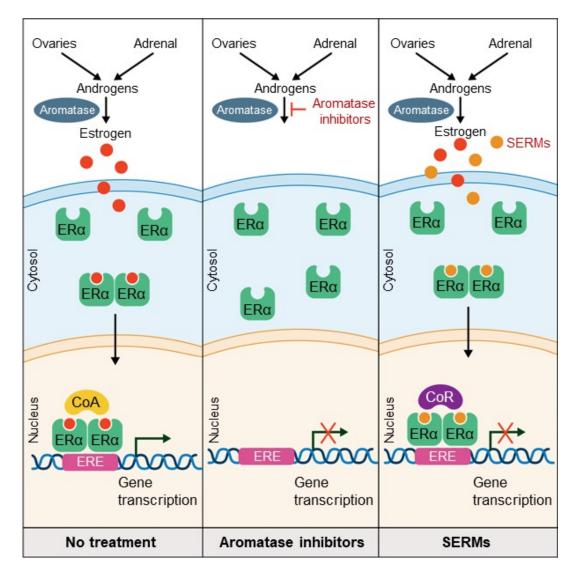
Francois-Clement Bidard, MD PhD

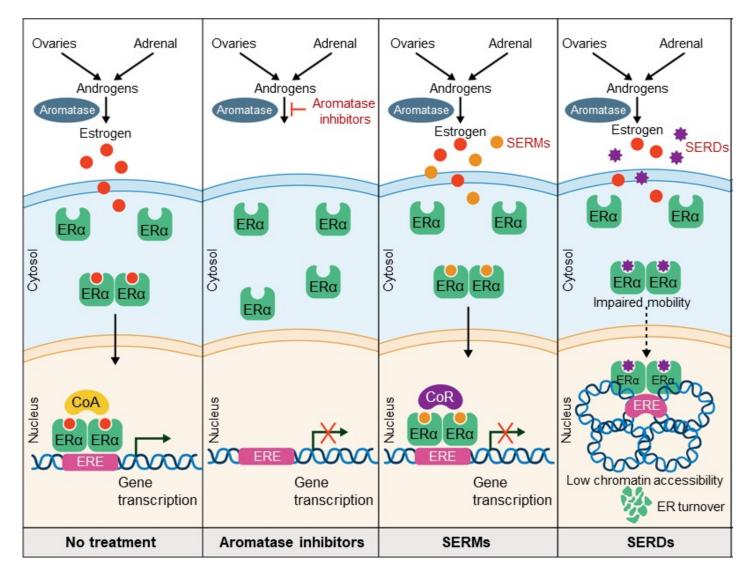
Institut Curie & Université de Versailles / Paris-Saclay

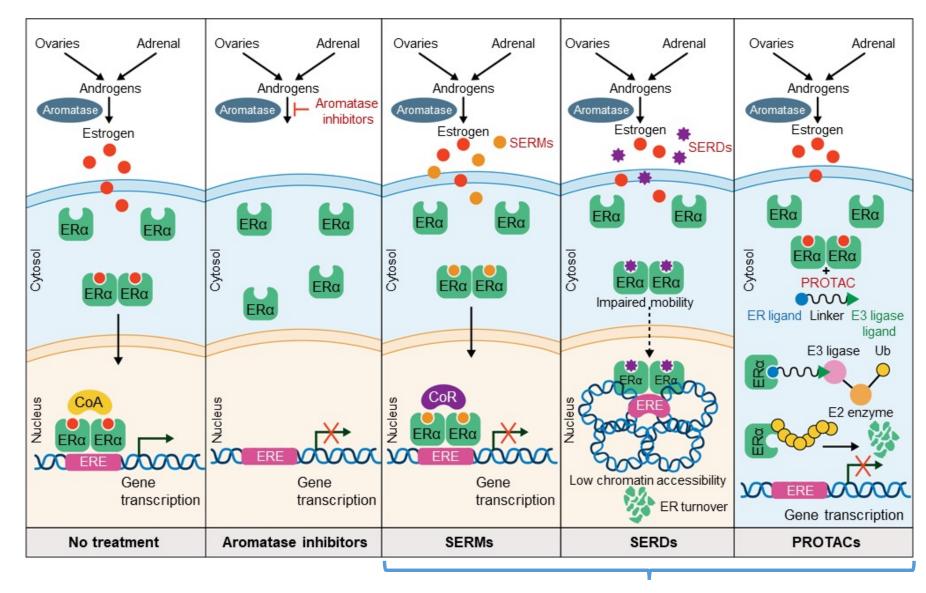












All these drugs target ERdependent tumor growth

### Different MoA can have implications on:

- Clinical efficacy
- Safety
- Predictive biomarkers

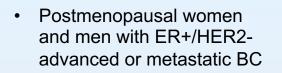
Estrogen Receptor therapeutic ligands Estrogen Receptor therapeutic ligands

## **Current landscape of registrational trials with next generation SERDs & PROTAC**

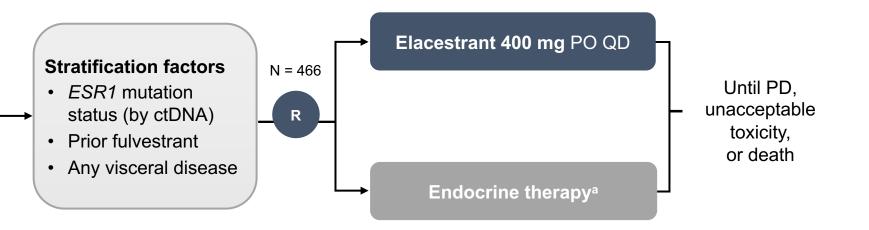
	2 <sup>nd</sup> -3 <sup>rd</sup> line	2 <sup>nd</sup> line	1 <sup>st</sup> line <u>HER2+</u> ER+	ESR1 <sub>mut</sub> + 1.5 <sup>th</sup> line	1 <sup>st</sup> line	Adjuvant late switch	Adjuvant frontline
	Single agent	Combo	Combo with trastu/pertu.	Combo with CDK4/6i	Combo with CDK4/6i	Single agent	Single agent
Elacestrant	EMERALD					Treat ctDNA	
Giredestrant	acelERA	<b>evERA</b> (everolimus)	heredERA		perservERA		lidERA
Camizestrant	SERENA-2 <sup>(*)</sup>			SERENA-6	SERENA-4	CAMBRIA-1	CAMBRIA-2
Imlunestrant	EMBE (+/- abem					EMBER-4	
Vepdegestrant (PROTAC)	VERITAC-2				VERITAC-3		

## **EMERALD trial: study design**

#### Randomized, Open-Label Phase 3 Study



- ≤1 lines prior chemo for mBC
- 1-2 lines of ET, and documented PD on CDK4 and 6 inhibitor
- Measurable disease (RECIST v1.1) or bone-only disease eligible



- Primary endpoint: PFS by BICR in all patients and in patients with mutant ESR1
  - Overall population (power ≥90% for HR of 0.667) or ESR1-mutated subset (power ≥80% for HR of 0.610) at an overall α level of 5%
- Secondary endpoints: OS, PFS by BICR in patients with WT *ESR1*, PFS by investigator review, ORR, DOR, CBR, safety, PK, and QoL

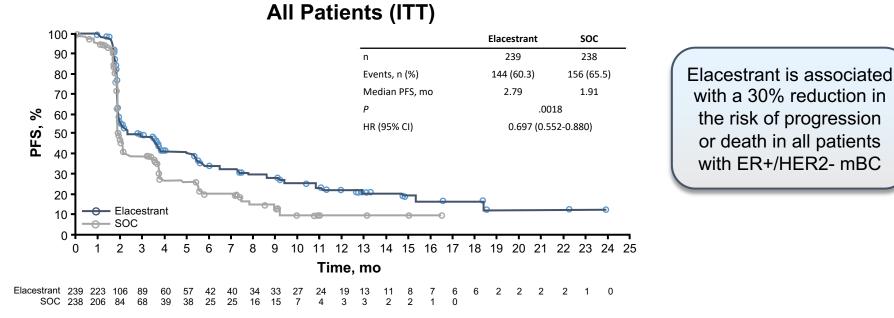
<sup>a</sup> Investigator's choice of fulvestrant 500 mg IM on days 1 and 15 of cycle 1 and then on day 1 of 28-day cycles or an AI (continuous dosing of anastrozole 1 mg/day, letrozole 2.5 mg/day, or exemestane 25 mg/day).
1. Bardia A et al. ASCO 2019. Abstract TPS1104.

## **EMERALD trial: population**

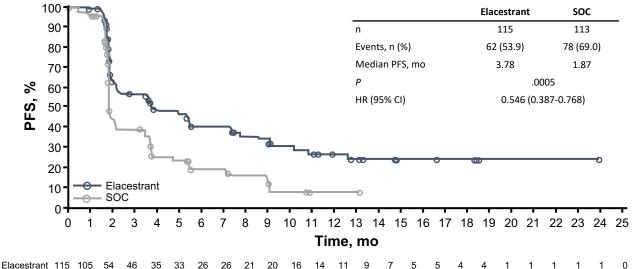
Parameter	Elace	strant	SOC		
	All (n = 239)	<i>ESR1</i> mut (n = 115)	All (n = 238)	<i>ESR1</i> mut (n = 113)	
Median age, years (range)	63.0 (24-89)	64.0 (28-89)	63.5 (32-83)	63.0 (32-83)	
Gender, n % Female Male	233 (97.5) 6 (2.5)	115 (100) 0	237 (99.6) 1 (0.4)	113 (100) 0	
ECOG PS, n (%) 0 1 >1	143 (59.8) 96 (40.2) 0	67 (58.3) 48 (41.7) 0	135 (56.7) 102 (42.9) 1 (0.4)	62 (54.9) 51 (45.1) 0	
Visceral metastasis <sup>a</sup> , n (%)	163 (68.2)	81 (70.4)	168 (70.6)	83 (73.5)	
Bone-only disease, n (%)	38 (15.9)	14 (12.2)	29 (12.2)	14 (12.4)	
Prior adjuvant therapy, n (%)	158 (66.1)	62 (53.9)	141 (59.2)	65 (57.5)	
Number of prior lines of endocrine therapy <sup>b</sup> , n (%) 1 2	129 (54.0) 110 (46.0)	73 (63.5) 42 (36.5)	141 (59.2) 97 (40.8)	69 (61.1) 44 (38.9)	
Number of prior lines of chemotherapy <sup>b</sup> , n (%)					
0 1	191 (79.9) 48 (20.1)	89 (77.4) 26 (22.6)	180 (75.6) 58 (24.4)	81 (71.7) 32 (28.3)	

<sup>a</sup> Includes lung, liver, brain, pleural, and peritoneal involvement. <sup>b</sup> In the advanced/metastatic setting. 1. Bardia A et al. SABCS 2021. Abstract GS2-02.

## **EMERALD trial: results**



#### Patients With Tumors Harboring ESR1mut



Elacestrant is associated with a 45% reduction in the risk of progression or death in patients harboring *ESR1*mut

#### Bidard FC et al .J Clin Oncol 2022

cestrant 115 105 54 46 35 33 26 26 21 20 16 14 11 9 7 5 5 4 4 1 1 1 1 1 ( SOC 113 99 39 34 19 18 12 12 9 9 4 1 1 1 0

## Subgroup analysis of EMERALD

### Patients with *ESR1*-mut Tumors: PFS by Duration of CDK4/6i

#### Magnitude of Benefit is Greater With Longer Exposure to CDK4/6i

#### Duration on CDK4/6i in the metastatic setting

	At Least 6 Months (92.3%)			l2 Months 6%)	At Least 18 Months (50.0%)	
	Elacestrant (n=103)	SOC Hormonal Therapy (n=102)	Elacestrant (n=78)	SOC Hormonal Therapy (n=81)	Elacestrant (n=55)	SOC Hormonal Therapy (n=56)
Median PFS, months	4.14	1.87	8.61	1.91	8.61	2.10
(95% CI)	(2.20 - 7.79)	(1.87 - 3.29)	(4.14 - 10.84)	(1.87 - 3.68)	(5.45 - 16.89)	(1.87 - 3.75)
PFS rate at 6 months, %	42.43	19.15	55.81	22.66	58.57	27.06
(95% CI)	(31.15 - 53.71)	(9.95 - 28.35)	(42.69 - 68.94)	(11.63 - 33.69)	(43.02 - 74.12)	(13.05 - 41.07)
PFS rate at 12 months, %	26.02	6.45	35.81	8.39	35.79	7.73
(95% CI)	(15.12 - 36.92)	(0.00 - 13.65)	(21.84 - 49.78)	(0.00 - 17.66)	(19.54 - 52.05)	(0.00 - 20.20)
PFS rate at 18 months, %	20.70	0.00	28.49	0.00	30.68	0.00
(95% CI)	(9.77 - 31.63)	( )	(14.08 - 42.89)	( )	(13.94 - 47.42)	( )
Hazard ratio (95% CI)	<b>0.517</b> (0.361 - 0.738)		<b>0.410</b> (0.262 - 0.634)		<b>0.466</b> (0.270 - 0.791)	

Kaklamani et al, SABCS 2022, Abstract GS3-01.

## **EMERALD trial: Toxicity**

- Most adverse events (AEs), including nausea, were grade 1 and 2, and no grade 4 treatment-related AEs (TRAEs) were reported.
- Only 3.4% of patients receiving elacestrant and 0.9% receiving SOC discontinued therapy due to any TRAE.
- No deaths assessed as treatment-related were reported in either arm.
- No hematologic safety signal was observed, and none of the patients in either treatment arm had sinus bradycardia.
- Dyslipidemia was infrequent, mostly grade 1, there were no discontinuations, and it was similar to SoC.

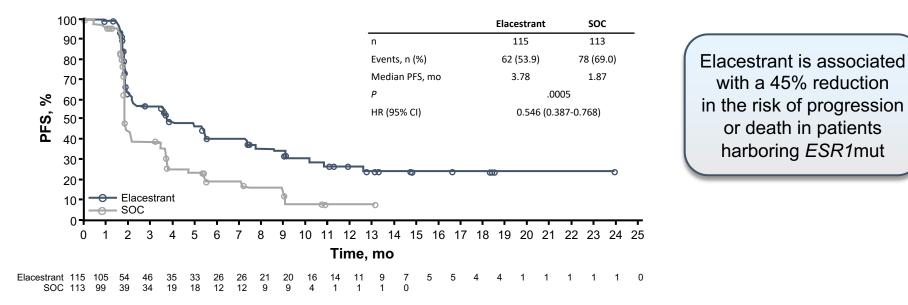
Nausea Summary	Elacestrant (n=237)	SOC (n=230)
Grade 3 nausea, n (%)	6 (2.5%)	2 (0.9%)
Dose-reduction rate due to nausea, n (%)	3 (1.3%)	Not applicable
Discontinuation rate due to nausea, n (%)	3 (1.3%)	0 (0%)
Antiemetic use	8%	10.3% (AI)
	0.70	1.3% (Ful)

## **EMERALD trial results led to FDA and EMA approvals in 2023**

FDA label postmenopausal women or adult men with ER+, HER2-, ESR1-mutated

advanced or metastatic breast cancer with disease progression following at least one line of endocrine therapy.

**EMA label:** Elacestrant monotherapy is indicated for the treatment of postmenopausal women, and men, with ER+, HER2-locally advanced or metastatic breast cancer with an **activating ESR1 mutation** who have disease progression following at least one line of endocrine therapy including a CDK4/6 inhibitor



#### Patients With Tumors Harboring ESR1mut

# Phase 2 trials with other ngSERD confirmed the exquisite sensitivity of ESR1mut+ mBC

	PFS HR ngSERD vs SoC in mBC pts (all comers)	PFS HR ngSERD vs SoC in ESR1 <sub>mut</sub> not detected mBC pts	PFS HR ngSERD vs SoC in ESR1 <sub>mut</sub> + mBC pts
AcelERA	0.81	N/A	0.60
(giredestrant) <sup>[1]</sup>	95%CI [0.60, 1.10]		95%CI [0.35, 1.03]
SERENA-2	0.58 *	0.76 *	0.33 *
(camizestrant) <sup>[2]</sup>	90%CI [0.41, 0.81]	90%CI [0.50, 1.22]	90%CI [0.18, 0.58]

Grade 3-4 adverse events were observed in 17% and 12% of patients receiving ngSERD in the acelERA and SERENA-2 trials, respectively.

\* 75mg cohort

<sup>[1]</sup> Martin Jimenez, ESMO 2022<sup>[2]</sup> Oliveira, SABCS 2022

#### Elacestrant is approved in 2+ line

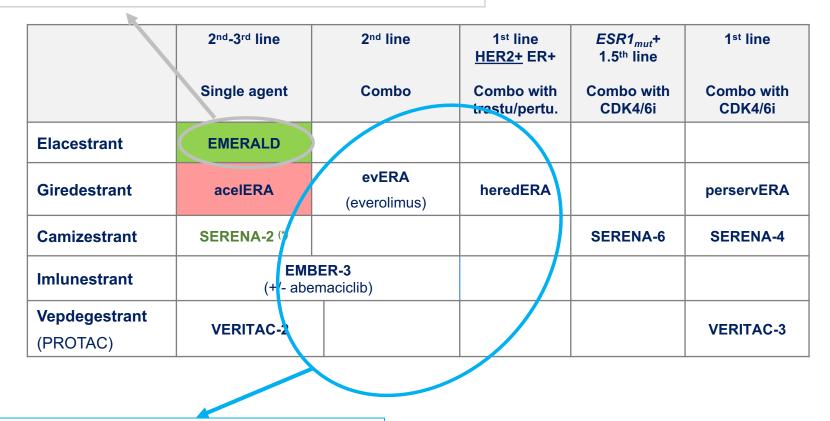
- Implementing *ESR1<sub>mut</sub>* testing on ctDNA in routine
- (bio)markers to predict long PFS ?

	2 <sup>nd</sup> -3 <sup>rd</sup> line	2 <sup>nd</sup> line	1 <sup>st</sup> line <u>HER2+</u> ER+	<i>ESR1<sub>mut</sub>+</i> 1.5 <sup>th</sup> line	1 <sup>st</sup> line
	Single agent	Combo	Combo with trastu/pertu.	Combo with CDK4/6i	Combo with CDK4/6i
Elacestrant	EMERALD				
Giredestrant	acelERA	evERA (everolimus)	heredERA		perservERA
Camizestrant	SERENA-2 <sup>(*)</sup>			SERENA-6	SERENA-4
Imlunestrant		<b>BER-3</b> maciclib)			
Vepdegestrant (PROTAC)	VERITAC-2				VERITAC-3

## **Future + HER2- mBCchallenges in ER**

Elacestrant is approved in 2+ line

- Implementing *ESR1<sub>mut</sub>* testing on ctDNA in routine
- (bio)markers to predict long PFS ?



#### **Combination with targeted therapies**

- Can it expand further the survival benefit ?
- Only in *ESR1<sub>mut</sub>*+ or in all comers ?



# Imlunestrant, with or without everolimus or alpelisib, in ER+, HER2- advanced breast cancer (aBC): Results from the phase 1a/b EMBER study

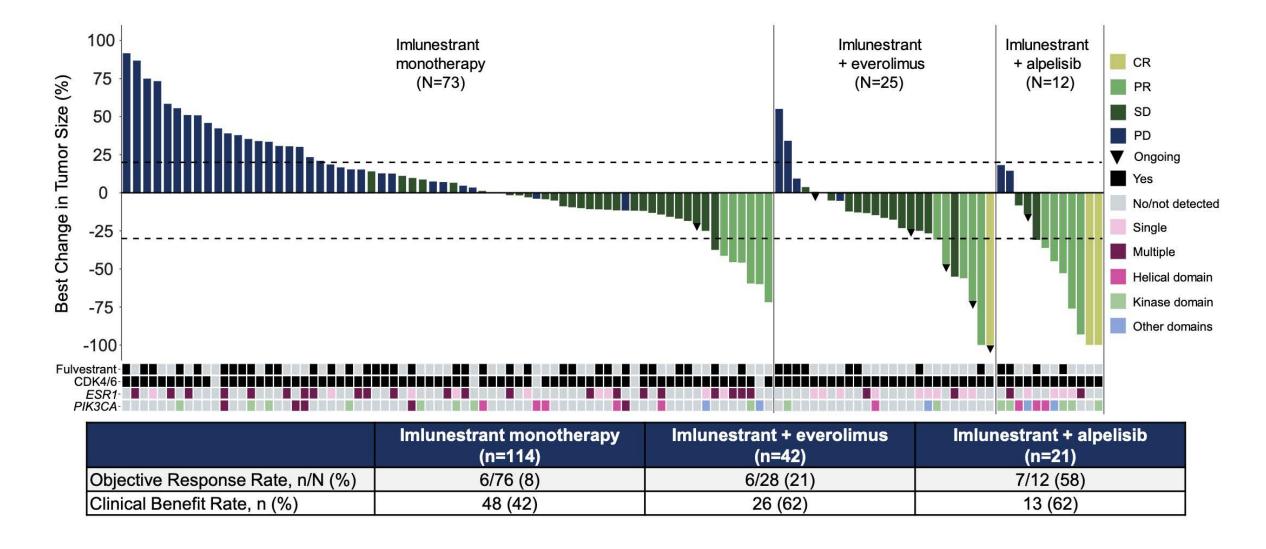
Komal L. Jhaveri, Rinath Jeselsohn, Cynthia X. Ma, Elgene Lim, Kan Yonemori, Erika P. Hamilton, Kathleen Harnden, Seock-Ah Im, J. Thaddeus Beck, Sarah Sammons, Manali Bhave, Peter A. Kaufman, Cristina Saura, Tarek Meniawy, Francesca Bacchion, Roohi Ismail-Khan, Yujia Li, Shawn T. Estrem, Bastien Nguyen, Muralidhar Beeram.

#### Komal L. Jhaveri

New York, USA. 22<sup>nd</sup> October 2023



## **EMBER: Tumor Response in Patients with Measurable Disease**



Jhaveri K et al. ESMO 2023; Abstract 383MO.

## **EMBER: Safety**

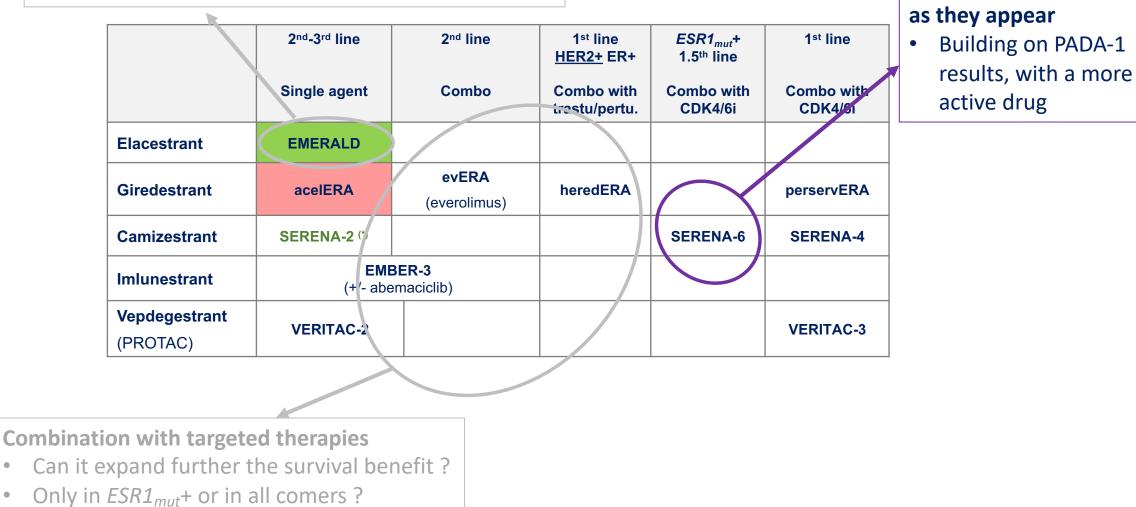
AE Term % ª	Imlunestrant (n=114)		Imlunestrant + everolimus (n=42)		Imlunestrant + alpelisib (n=21)	
	Grade		Grade		Grade	
	All	≥3	All	≥3	All	≥3
Patients with ≥1 TEAE	93	21	100	43	100	81
Nausea	41	1	26	2	57	5
Fatigue	33	2	48	0	57	5
Diarrhea	31	2	57	2	86	10
AST increased	11	0	38	10	5	0
Decreased appetite	11	0	12	0	43	5
Vomiting	11	0	14	2	33	0
Rash	9	0	24	0	67	48
Hyperglycemia	5	0	19	0	62	10
Stomatitis	1	0	31	0	33	0
Hypercholesterolemia	1	0	33	0	0	0
Discontinuations due to TRAE, %	0		7 b		34 °	

<sup>a</sup> TEAEs occurring in ≥30% of at least one treatment cohort; <sup>b</sup> 5% everolimus alone; 2% everolimus and imlunestrant; 0% imlunestrant alone

° 29% alpelisib alone; 5% alpelisib and imlunestrant; 0% imlunestrant alone

Elacestrant is approved in 2+ line

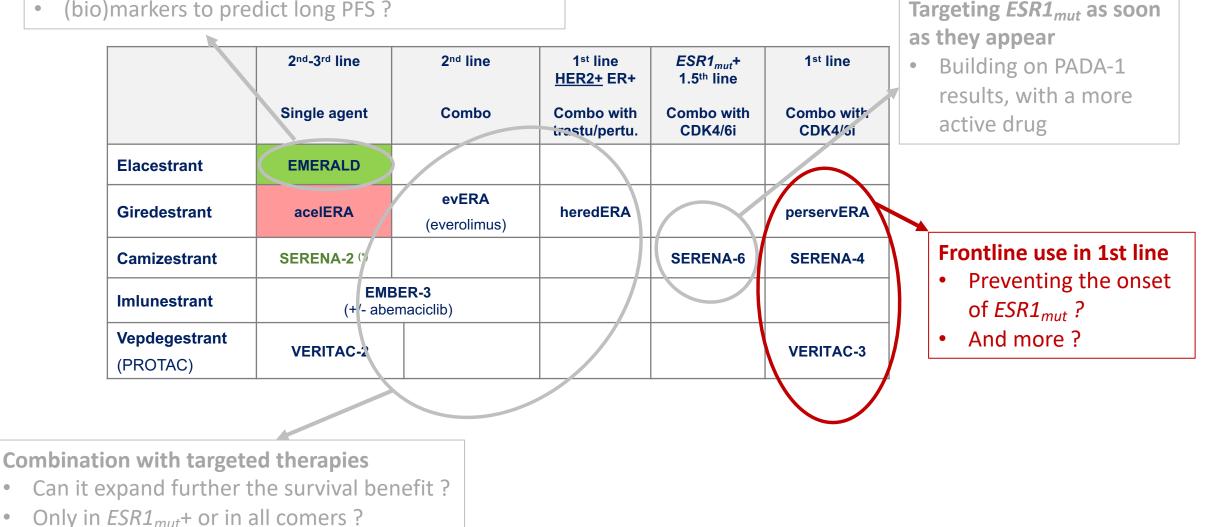
- Implementing *ESR1<sub>mut</sub>* testing on ctDNA in routine
- (bio)markers to predict long PFS?



Targeting *ESR1<sub>mut</sub>* as soon

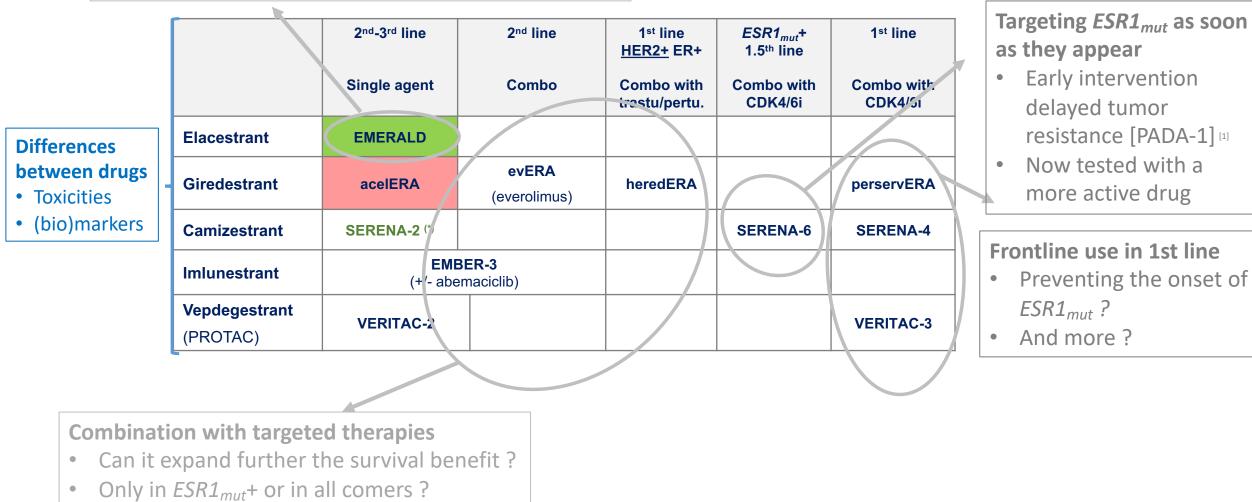
Elacestrant is approved in 2+ line

- Implementing *ESR1<sub>mut</sub>* testing on ctDNA in routine
- (bio)markers to predict long PFS?



Elacestrant is approved in 2+ line

- Implementing *ESR1<sub>mut</sub>* testing on ctDNA in routine
- (bio)markers to predict long PFS ?



## 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



## Camizestrant, a next-generation oral SERD vs fulvestrant in post-menopausal women with advanced ER-positive HER2-negative breast cancer: Results of the randomized, multi-dose Phase 2 SERENA-2 trial

Mafalda Oliveira, MD, PhD<sup>1</sup>, Denys Pominchuk, PhD<sup>2</sup>, Zbigniew Nowecki MD<sup>3</sup>, Erika Hamilton, MD<sup>4</sup>, Yaroslav Kulyaba, MD<sup>5</sup>, Timur Andabekov, PhD<sup>6</sup>, Yevhen Hotko, MD<sup>7</sup>, Tamar Melkadze, MD<sup>8</sup>, Gia Nemsadze, MD, PhD<sup>9</sup>, Patrick Neven, MD<sup>10</sup>, Yuriy Semegen, MD<sup>11</sup>, Vladimir Vladimirov, MD<sup>12</sup>, Claudio Zamagni, MD<sup>13</sup>, Hannelore Denys, MD, PhD<sup>14</sup>, Frédéric Forget, MD<sup>15</sup>, Zsolt Horvath, MD, PhD<sup>16</sup>, Alfiya Nesterova, MD, PhD<sup>17</sup>, Maxine Bennett, PhD<sup>18</sup>, Bistra Kirova, MBChB, MSc<sup>19</sup>, Teresa Klinowska, PhD<sup>20</sup>, Justin P O Lindemann, MBChB, MB<sup>18</sup>, Delphine Lissa, PharmD, PhD<sup>18</sup>, Alastair Mathewson, PhD<sup>18</sup>, Christopher J Morrow, PhD<sup>18</sup>, Zuzana Traugottova, MD<sup>21</sup>, Ruaan van Zyl, PhD<sup>22</sup>, Ekaterine Arkania, MD<sup>23</sup>

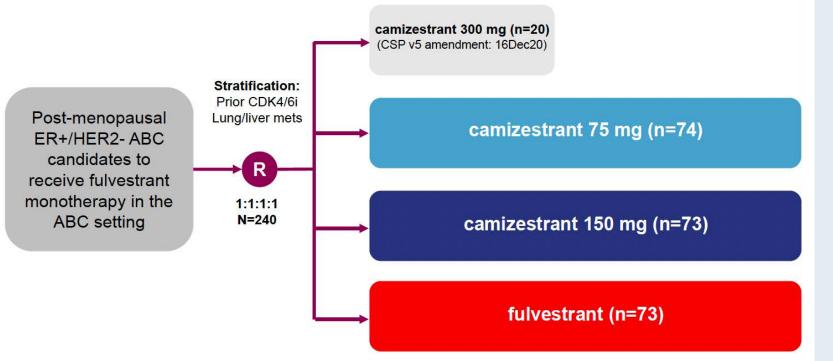
<sup>1</sup>Medical Oncology Department, Vall d'Hebron University Hospital and Breast Cancer Group, Vall d'Hebron Institute of Oncology, Barcelona, Spain; <sup>2</sup>Medical Center Verum, Kyiv, Ukraine; <sup>3</sup>The Maria Sklodowska Curie Memorial Cancer Center and Institute of Oncology, Warsaw, Poland; <sup>4</sup>Sarah Cannon Research Institute/Tennessee Oncology, Nashville, TN, USA; <sup>5</sup>Makiivka City Hospital of Donetsk Region, Makiivka, Ukraine; <sup>6</sup>AV Medical Group, St Petersburg, Russian Federation; <sup>7</sup>Central City Hospital, Uzhgorod National University, Uzhgorod, Ukraine; <sup>8</sup>Oncology and Hematology Department, Academician Fridon Todua Medical Center – Research Institute of Clinical Medicine Tbilisi, Georgia; <sup>9</sup>The Institute of Clinical Oncology, Tbilisi, Georgia; <sup>10</sup>Multidisciplinary Breast Center, University Hospitals Leuven – Campus Gasthuisberg, Leuven, Belgium; <sup>11</sup>Bukovynsky Clinical Oncology Center, Chernivtsi, Ukraine; <sup>12</sup>Pyatigorsky Oncology Dispensary, Pyatigorsk, Russia; <sup>13</sup>IRCCS Azienda Ospedaliero-Universitaria di Bologna, Bologna, Italy; <sup>14</sup>Department of Medical Oncology, Ghent University Hospital, Belgium; <sup>15</sup>Centre Hospitalier de l'Ardenne-Site de Libramont, Libramont-Chevigny, Belgium; <sup>16</sup>Center of Oncoradiology, Bács-Kiskun County Teaching Hospital, Kecskemét, Hungary; <sup>17</sup>Republican Clinical Oncology Patient Safety, Oncology R&D, AstraZeneca, Cambridge, UK; <sup>19</sup>Oncology Patient Safety, Oncology R&D, AstraZeneca, Cambridge, UK; <sup>20</sup>Late Development, Oncology R&D, AstraZeneca, Cambridge, UK; <sup>21</sup>Parexel International, Prague, Czech Republic; <sup>22</sup>Parexel International, Bloemfontein, South Africa; <sup>23</sup>Helsicore Israeli Georgian Medical Research Clinic, Tbilisi, Georgia.



## **SERENA-2: Study Overview**

#### Key inclusion/exclusion criteria:

- Recurrence or progression on at least one line of ET
- No prior fulvestrant or oral SERD in ABC
- No more than one line of ET in ABC setting
- No more than one line CT in ABC setting
- Measurable and non-measurable disease



- Primary endpoint: PFS (investigator assessment\*)
- Secondary endpoints: CBR24, ORR, OS, safety
- Translational endpoints: serial ctDNA analysis including ESR1m, serial CTCs analysis

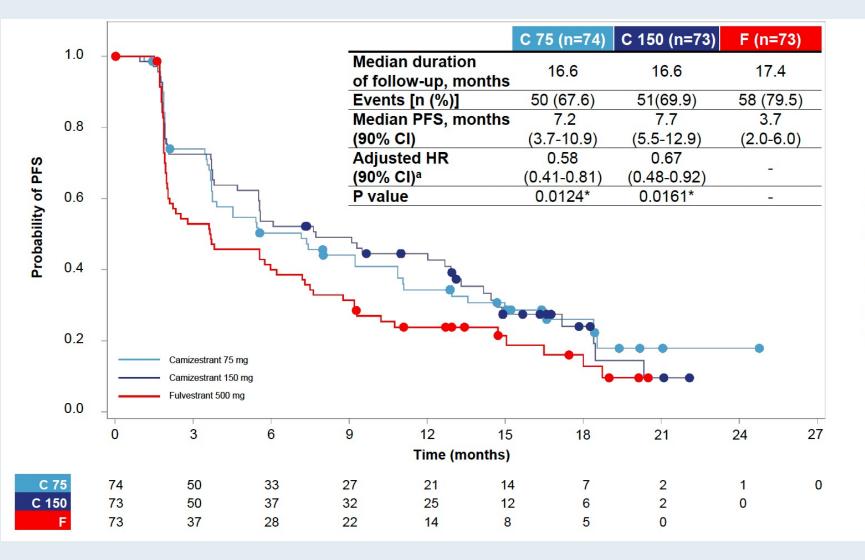
\*disease progression assessed by the Investigator and defined using RECIST, version 1.1

ABC: advanced breast cancer; CBR24: clinical benefit rate at 24 weeks; CDK4/6i: CDK4/6 inhibitor; CT: chemotherapy; CTC: circulating tumor cells; ctDNA: circulating tumor DNA; ER: estrogen receptor; ESR1m: mutation in estrogen receptor 1 gene; ET: endocrine therapy; HER2: human epidermal growth factor; PFS: progression-free survival; R: randomization; RECIST: Response Evaluation Criteria for Solid Tumors; SERD: selective estrogen receptor degrader



Oliveira M et al. SABCS 2022; Abstract GS3-02.

## **SERENA-2: PFS by Investigator Assessment**



In the overall population, camizestrant produces a statistically significant and clinically meaningful improvement in PFS for both 75 and 150 mg camizestrant doses over fulvestrant

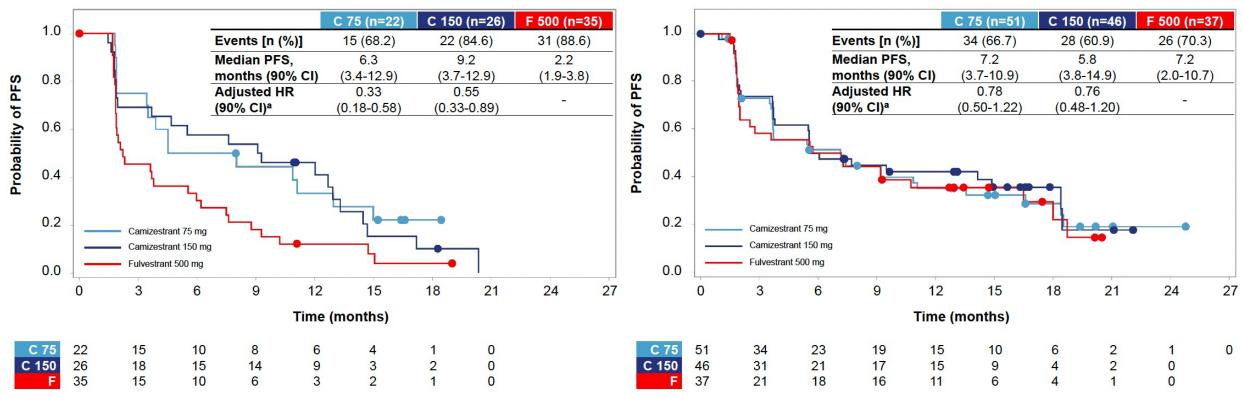


Oliveira M et al. SABCS 2022; Abstract GS3-02.

## SERENA-2: PFS in Patients by Detectable ESR1m

#### ESR1m detectable at baseline

#### ESR1m not detectable at baseline



 In the sub-population of patients with detectable ESR1m at baseline, camizestrant at both doses produces a clinically meaningful improvement in PFS over fulvestrant



## Agenda

Module 1: Optimal Integration of CDK4/6 Inhibitors into the Management of ER-Positive Metastatic Breast Cancer (mBC) — Dr Kaklamani

Module 2: Novel Strategies to Overcome Resistance to Endocrine Therapy — Dr Jhaveri

Module 3: Current Role of Antibody-Drug Conjugates in the Management of ER-Positive mBC — Dr Rugo

Module 4: Current and Future Role of Selective Estrogen Receptor Degraders (SERDs) in the Management of ER-Positive mBC — Prof Bidard

Module 5: Novel Therapies Under Investigation for Patients with ER-Positive mBC — Dr Hamilton



Based on your personal clinical experience and knowledge of available data, for each of the following agents please estimate the chance that a patient will experience toxicity during treatment that will require withholding administration. What is the primary toxicity patients experience that leads to withholding the drug?

	Chance of withholding*	Primary toxicity
Datopotamab deruxtecan	15% (5% - 30%)	Stomatitis, neutropenia
Patritumab deruxtecan	13% (2% - 30%)	Cytopenias

\* Median (Range)



Survey of 20 US-based clinical investigators November 2023

### If <u>datopotamab deruxtecan</u> were to become available, for which patients with ER-positive, HER2-negative metastatic breast cancer would you prioritize its use?

- Patients with HER2-0 MBC that have progressed already on chemotherapy
- Would likely pick between saci and dato based on side effect profile, efficacy, and dosing schedule
- After all endocrine options, HER2 IHC=0; or salvage setting after TDX-d in ER+/HER2low.
- Vs other Trop2 ADC (SG): less pretreated setting, similar PFS delta, but SG has OS advantage. Vs other deruxtecan ADC (TDXd): not need HER2-low, less ILD. Not clearly advantageous over either SG or T-DXd.
- <u>2 or 3L line IHC 0; would discuss Sacituzumab vs Datopotamab- schedule and toxicity</u> profile
- Patients with ER+ disease who had exhausted endocrine therapy



### If <u>datopotamab deruxtecan</u> were to become available, for which patients with ER-positive, HER2-negative metastatic breast cancer would you prioritize its use?

- After exhaustion of endocrine therapy options, after 1 or 2 lines of chemotherapy, after T-DXd if HER2-low, and after SG unless there is a good reason not to use SG first (contra-indication, tumor biomarker landscape, etc)
- <u>Those that progress on sacituzumab govitecan</u>
- Unclear that it is better than TDXd or SG
- Not sure
- 2L after capecitabine

### If <u>patritumab deruxtecan</u> were to become available, for which patients with ER-positive, HER2-negative metastatic breast cancer would you prioritize its use?

- <u>At this point, HER3+ after T-DXd and SG, or after SG if high risk of ILD. How much HER3 expression is unknown (in lung cancer doesn't seem to matter).</u>
- Highly pretreated patients with progression on several chemotherapies
- After exhaustion of endocrine therapy options, after 1 or 2 lines of chemotherapy, after T-DXd if HER2-low, and I would consider the tumor biomarker landscape (HER3 expression on most recent tissue ?)
- Likely post TDXd and TROP-2
- After all endocrine options, after TDX-d (if HER2 low); and after sacituzumab govitecan.



### If <u>patritumab deruxtecan</u> were to become available, for which patients with ER-positive, HER2-negative metastatic breast cancer would you prioritize its use?

- If HER2 low then post TDXD; if HER2 0 then post sacituzumab
- After exhaustion of all ET options and one line of chemotherapy and HER3 +
- Unclear that it is better than TDXd or SG
- Not sure I would use, would need to see phase III data to try to gauge relative benefits and would only use for those not a candidate of T-DXd.
- We just do not have enough data as yet. Likely later line given lack of current data except in the pre-treated setting.
- Probably 3rd line unless good data emerges for earlier lines



Tolerability profile of datopotamab deruxtecan and potential integration into the treatment algorithm for ER-positive metastatic breast cancer



Paolo Tarantino, MD



Adam M Brufsky, MD, PhD



Patritumab deruxtecan; HER3 as a cellular signaling intermediate; zanidatamab and other promising investigational agents under clinical development



Mark D Pegram, MD



# Novel therapies under investigation for patients with ER-Positive mBC

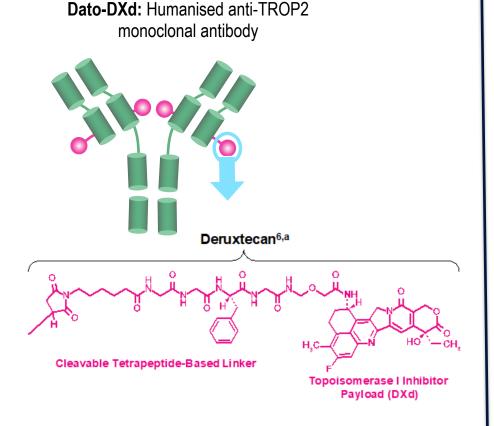
Erika Hamilton, MD Director, Breast Cancer Research Program Sarah Cannon Research Institute Nashville, TN



## Datopotamab deruxtecan (Dato-DXd)

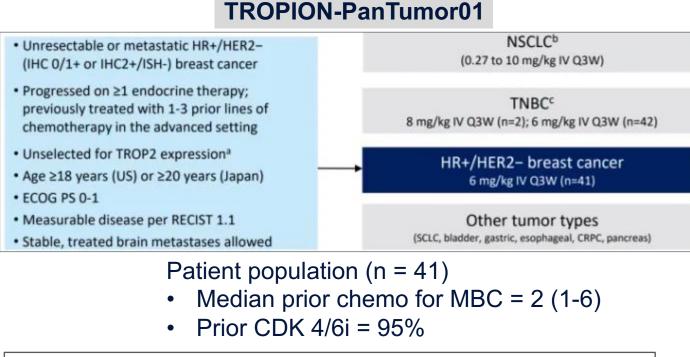


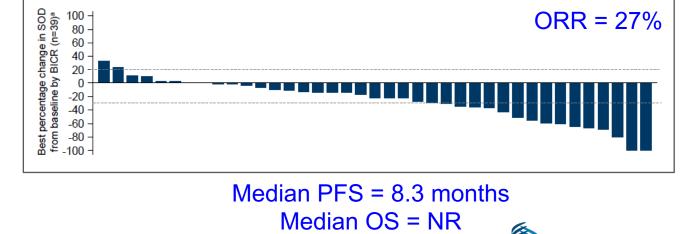
### Datopotamab deruxtecan (Dato-DXd): Trop-2 directed ADC



- High-potency TOPO1 payload
- Payload with short systemic half-life
- Optimised DAR ~4
- Tumour-selective cleavable linker
- Bystander anti-tumour effect





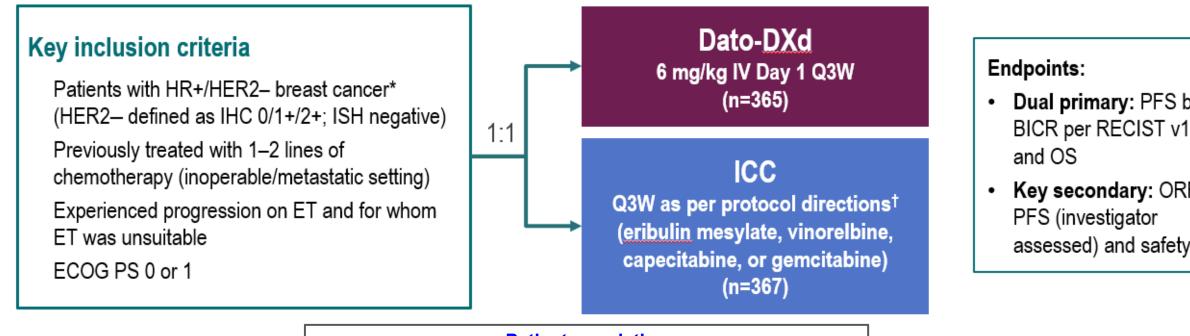


Meric-Bernstram F et al. SABCS 2022

Research Institute

AH CANNON

### **TROPION-Breast01:** Phase 3 trial of Dato-DXd in HR+/HER2- MBC



Patient population				
	Dato-DXd	ICC		
Prior CDK 4/6 inhibitor	82%	78%		
1 prior line of chemo	<b>63%</b>	<b>61%</b>		
2 prior lines of chemo	37%	38%		
Prior taxane alone	22%	19%		
Prior taxane and anthracycli	nes 65%	<b>67%</b>		

NCT05104866

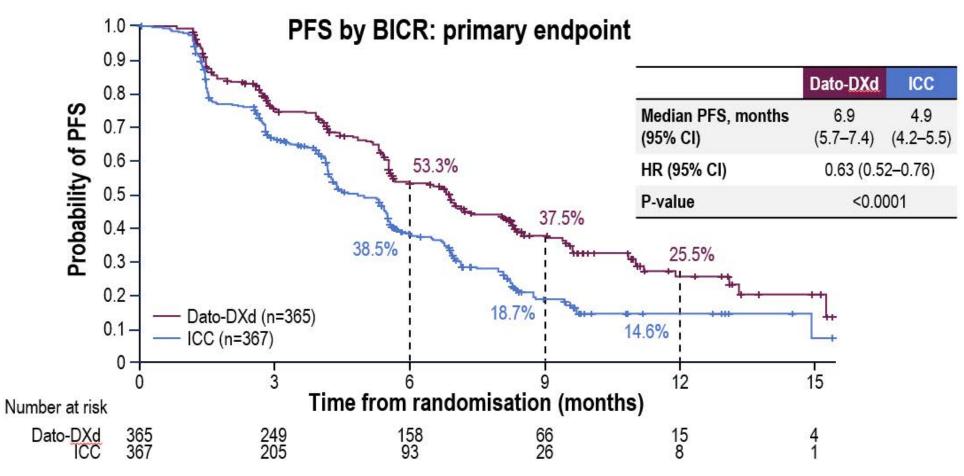
- **Dual primary:** PFS by BICR per RECIST v1.1,
- Key secondary: ORR, assessed) and safety



Bardia A et al. ESMO 2023, LBA11

@ErikaHamilton9

### **TROPION-Breast01: Progression-free survival**

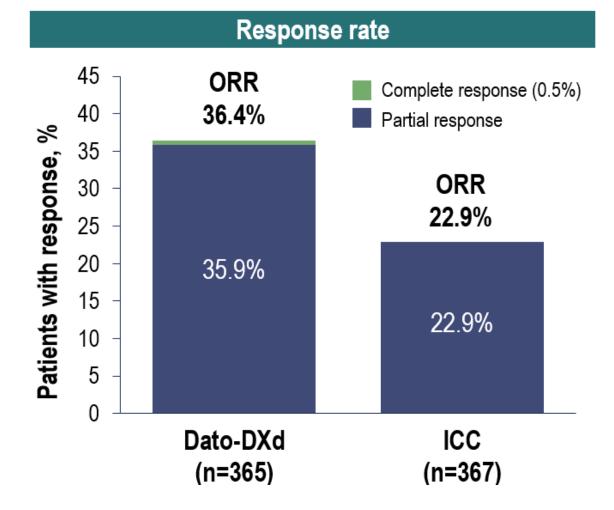


**PFS by investigator assessment:** Median 6.9 vs 4.5 months; HR 0.64 (95% Cl 0.53–0.76) **Subgroup analysis:** Consistent benefit across all subgroups with Dato-DXd



@ErikaHamilton9

### **TROPION-Breast01: ORR and interim OS**



#### OS: dual primary endpoint

- OS data were not mature:\*
  - Median follow-up 9.7 months
- A trend favouring Dato-DXd was observed:
   HR 0.84 (95% CI 0.62–1.14)
- The study is continuing to the next planned analysis for OS



### **TROPION-Breast01: Safety and summary**

- Most frequent TRAEs with Dato-DXd were nausea (51%) and stomatitis (50%)
- Most common TRAEs with ICC were neutropenia (42%) and nausea (24%)

#### Adverse events of special interest

All-cause events, n (%)	Dato-DXd (n=360)	ICC (n=351)	
Oral mucositis/stomatitis*			
All grades	211 (59)	61 (17)	
Grade 3 <sup>†</sup>	25 (7)	9 (3)	
Ocular events‡			
All grades	175 (49)	81 (23)	
Grade 3 <sup>†</sup>	3 (1)	0	
Adjudicated drug-related ILD§			
All grades	9 (3)	0	
Grade ≥3	2 (1)	0	
Infusion-related reactions			
All grades	32 (9)	12 (3)	
Grade 3†	1 (0.3)	0	

- Median treatment duration: 6.7 (Dato-DXd) and 4.1 months (ICC)
- Rate of grade ≥3 TRAEs in the Dato-DXd group was less than half that in the ICC group
- Fewer TRAEs leading to dose reductions or interruptions with Dato-DXd compared with ICC @ErikaHamilton9

- Significant improvement in PFS with Dato-DXd in pre-treated HR+/HER2- MBC
- Trend towards OS benefit with Dato-DXd at interim analysis
- ✓ No new safety signals observed with Dato-DXd
- ✓ Data suggest promise of a new treatment option for pts with HR+/HER2- MBC who have been treated with prior chemo



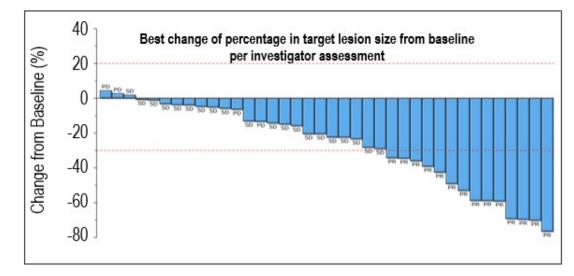
### SKB264 (MK-2870): another novel TROP2 ADC

- SKB264 (MK-2870) comprises
  - a TROP2 antibody
  - a belotecan-derivative topo I inhibitor
  - a sulfonyl pyrimidine-CL2A-carbonate linker

to achieve an average DAR of 7.4

- The design was to achieve a more effective balance between stability in circulation and release of the ADC payload in tumor cells
- Phase 1/ 2 basket study in adv solid tumors included Pts with HR+/HER2- MBC, 66% treated with prior CDK 4/6i and a median of 2 prior chemo received SKB264 5mg/kg every 2weeks

**Safety:** Mainly heme tox, mostly within first 2 months of tx and pts recovered following G-CSF tx No neuropathy, ocular toxicity, or drug-related ILD/pneumonitis reported



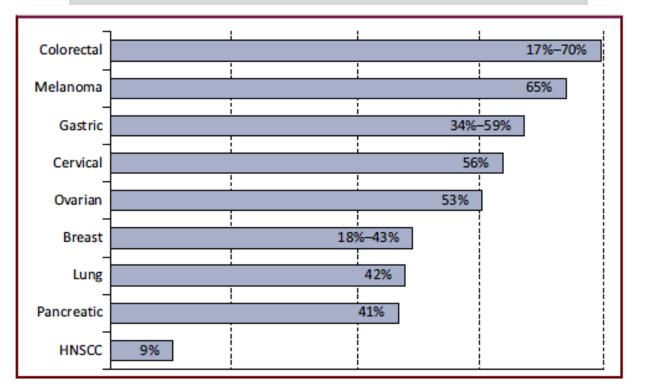
	All patients (N=38) <sup>a</sup>
ORR, n (%)	14 (36.8)
Confirmed PR	12
DCR, n (%)	34 (89.5)
DoR	
Median (Range), mo	7.4 (4.2~14.9+)
6-mon <u>DoR</u> rate, % (95% Cl)	80.0 (40.9, 94.6)
PFS	
Median (95% CI), mo	11.1 (5.4, 13.1)
6-mon PFS rate, % (95% Cl)	61.2 (41.3, 76.1)
OS	
Median (95% CI), mo	NE (10.71, NE)
9-mon OS rate (95% Cl), %	81.4 (57.1, 92.7)

a. Of patients enrolled, 38 patients were evaluable for response assessment (defined as ≥1 on-study scan). Yin Y et al. ESMO 2023

# Patritumab deruxtecan (HER3-DXd)



### HER3 - role in cancer



#### Rate of HER3 expression in different tumor types

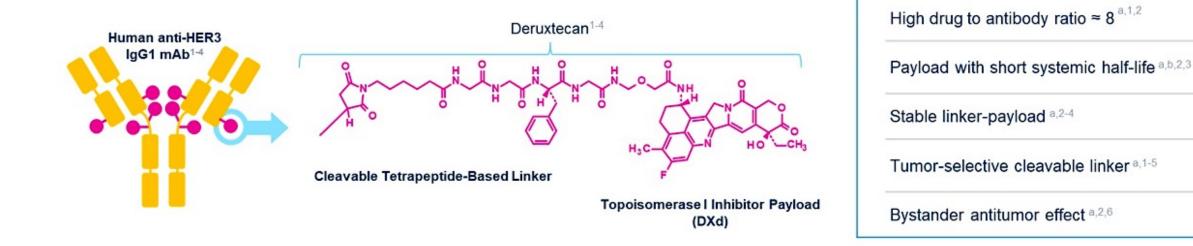
- HER3 is a tyrosine kinase receptor belonging to the HER family of receptors
  - has poor if no intracellular kinase activity
  - forms heterodimers preferentially with HER2 and/or EGFR leading to activation of the downstream signaling pathways promoting oncogenesis
  - is overexpressed in many types of cancers including ~20-50% of breast cancers
  - Overexpression of HER3 in breast cancer is associated with poor prognosis



Uliano J et al. 2023; Weng W et al. 2023

### Patritumab deruxtecan (HER3-DXd)

- HER3-DXd is an ADC with 3 components<sup>1-6</sup>:
  - A fully human anti-HER3 IgG1 mAb (patritumab), covalently linked to
  - · A topoisomerase I inhibitor payload, an exatecan derivative, via
  - · A tetrapeptide-based cleavable linker



HER, human epidermal growth factor receptor; IgG1, immunoglobulin G1; mAb, monoclonal antibody.

<sup>a</sup> The clinical relevance of these features is under investigation. <sup>b</sup> Based on animal data.

1. Hashimoto Y, et al. Clin Cancer Res. 2019;25:7151-7161. 2. Nakada T, et al. Chem Pharm Bull (Tokyo). 2019;67(3):173-185. 3. Ogitani Y, et al. Clin Cancer Res. 2016;22(20):5097-5108. 4. Koganemaru S, et al. Mol Cancer Ther. 2019;18:2043-2050. 5. Haratani K, et al. J Clin Invest. 2020;130(1):374-388. 6. Ogitani Y, et al. Cancer Sci. 2016;107(7):1039-1046.



2

7 Key Attributes of HER3-DXd

Payload mechanism of action:

topoisomerase | inhibitor a,1-4

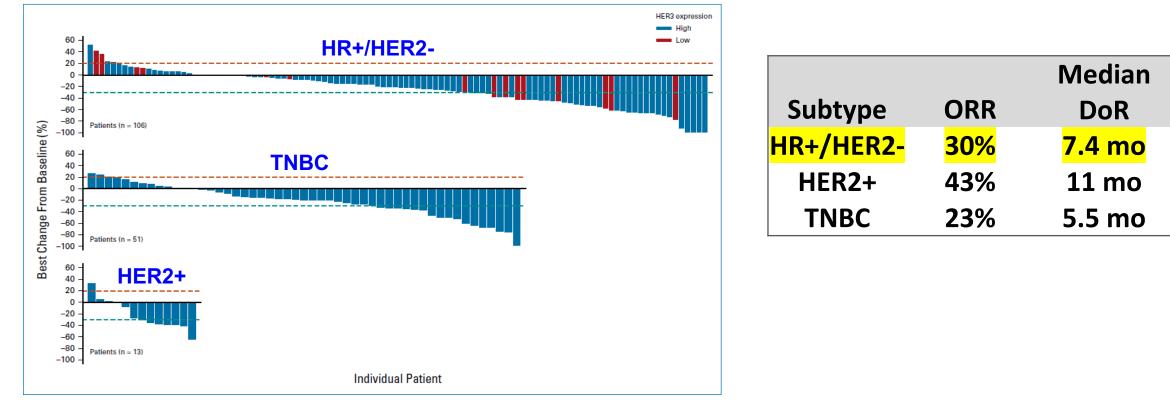
High potency of payload a,1-4

@ErikaHamilton9

#### Krop I et al. ASCO 2022, Abstract 1002

### Patritumab deruxtecan: Activity in HER3-expressing MBC

- Phase 1/ 2 trial (expansion) in HER3-expressing MBC:
  - Heavily pretreated patient population with median priors ranging from 2-6 depending on subtype



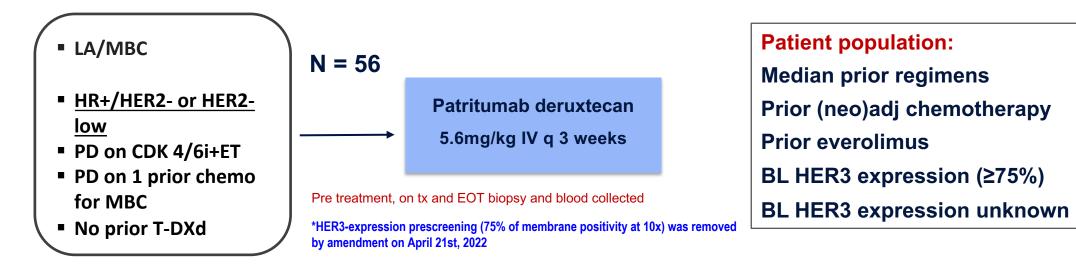
#### Change in tumor size from baseline

- ✓ Durable antitumor activity in all BC subtypes across the range of HER3 expression
- ✓ Manageable safety profile with low rates of treatment discontinuation
- Treatment related ILD (6.6%), mostly G1/2; one G5 event @ErikaHamilton9



# ICARUS-BREAST01: Phase 2 trial of HER3-DXd (Patritumab deruxtecan) in HR+/HER2- MBC

Prospective, multicenter, single-arm study with multiple biomarker analyses



Tumor response by 3 months from treatment initiation, n (%)		
16 (28.6)*		
30 (53.6)		
10 (17.8)		



2

65%

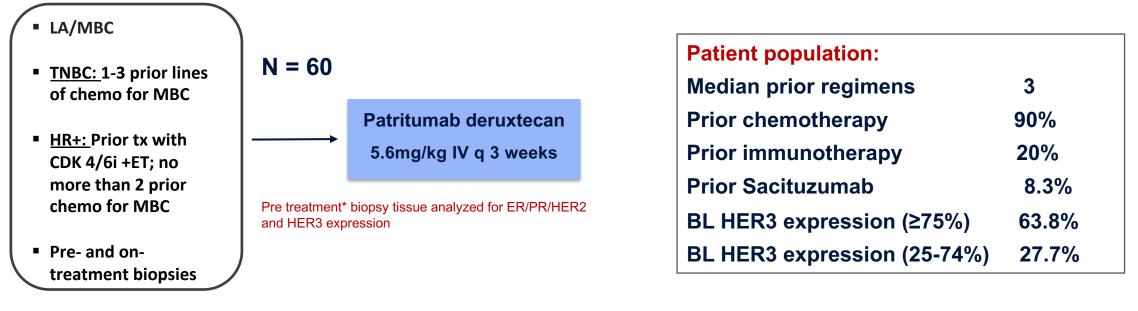
32%

51.8%

48.2%

@ErikaHamilton9

### Phase 2 trial of HER3-DXd in HER2- MBC



Membrane HER3 expression	≥75% (N=30)	25%-74% (N=13)	<25% (N=4)	Unknown * (N=13)	Total (N=60) N (%)
ORR, n (%)	10 (33.3)	6 (46.2)	2 (50.0)	3 (23.1)	21 (35.0)
CBR, n (%)**	12 (40.0)	7 (53.8)	2 (50.0)	5 (38.5)	26 (43.3)
DoR ≥6 months, n (%) <sup>†</sup>	4 (40.0)	2 (33.3)	2 (100)	2 (66.7)	10 (47.6)

\*HER3 results available for 47 pts. Remaining 13 pts had tissue not available/testing result unevaluable

### All-comer ORR was 35%, overall CBR was 43%, and DoR was at least 6 months in nearly half of all patients who responded



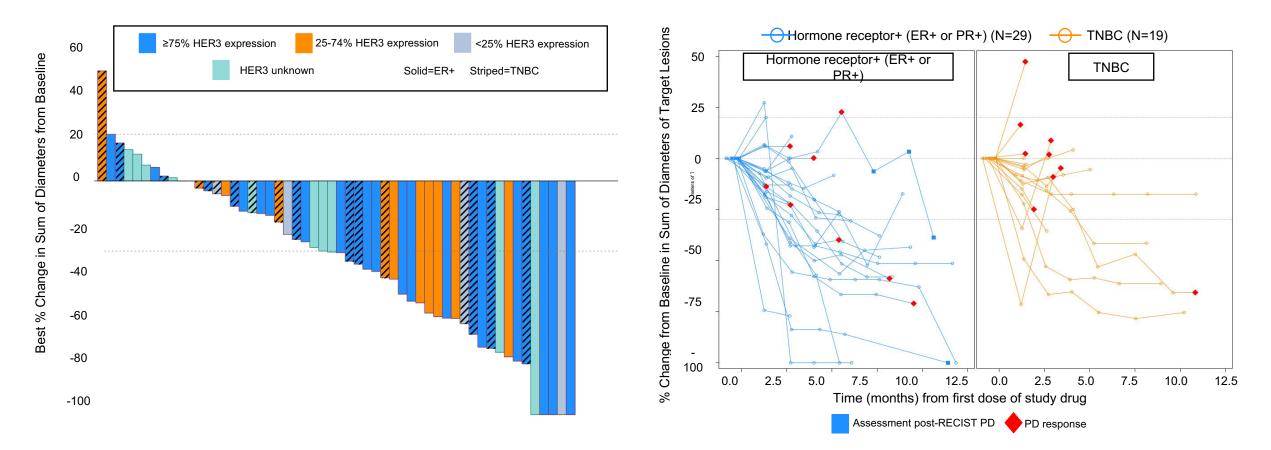
@ErikaHamilton9

Hamilton E et al. ASCO 2023

### Tumor shrinkage with HER3-DXd (Patritumab deruxtecan)

Best Percent Change in Sum of Diameters from Baseline in Target Lesions

Percent Change from Baseline in Sum of Diameters of Target Lesions HR+ vs TNBC



Majority of the patients had tumor shrinkage with HER3-DXd treatment



### HER3-DXd (Patritumab deruxtecan) for HR+/HER2- MBC: Key takeaways

- ✓ HER3-DXd is active in HR+/HER2- MBC, irrespective of level of HER3 expression
  - ORR 30-35% across both trials
- ✓ Biomarker analyses (ICARUS-BREAST01):
  - clinical activity seen regardless of most frequent genomic alterations
  - RNAseq showed a higher modulation of gene expression in early responders as compared to non-responders: is primary resistance more related to reduced ADC internalization/binding?
- ✓ Fatigue and GI toxicity were the most common AEs
- ✓ Rate of ILD was low (1.8%)
- ✓ These data warrant further exploration of HER3-DXD in HR+/HER2- MBC



### SHR-A2009: Another novel HER3 ADC

**SHR-A2009:** novel ADC composed of fully human anti-HER3 IgG1 mAb, covalently linked to a DNA topoisomerase I inhibitor via a cleavable peptide linker (DAR=4)

FIH trial in patients with advanced solid tumors (NCT05114759) Majority of pts enrolled had NSCLC (36/42) No DLTs reported (up to dose level 10.5mg/kg q 3 weeks Most common toxicities: anemia, neutropenia and nausea ORR: 25% (all tumors); 30% (NSCLC) Median DoR: 7 months

Trial ongoing to assess higher doses of SHR-A2009



# Other novel agents for HR+/HER2-MBC



### Novel agents under evaluation in ER+/HER2- MBC

**ER-PROTAC:** heterobifunctional molecules that degrade ER via the ubiquitin proteasome system

Catalytic in their MOA; can promote target degradation at low concentrations; less toxicity & higher therapeutic index

ARV-471 (Vepdegestrant) single agent in phase 3 trials in ER+/HER2- MBC NCT05654623; NCT05909397

AC0699 : Chimeric ER degrader in phase 1 trials NCT05654532

**CERAN:** shuts down both activation functions (AF1 and AF2) of the ER OP-1250 (Palazestrant) in phase 3 trial in ER+/HER2- MBC NCT06016738

**Novel SERM:** Modulate ER by altering its conformation and thus its interaction with ER coactivators and co-repressors Lasofoxifene: Phase 3 trial in combination with abemaciclib NCT05696626

 SARM: Selective AR modulator. AR is expressed in 70-95% of ER+ BC it is a tumor suppressor & its expression is associated with improved prognosis in ER+ BC
 RAD140: oral breast-tissue selective AR agonist; preliminary activity in phase 1 trial in ER+/HER2- MBC NCT03088527
 EP0062 (Vosilasarm- AR agonist): Phase 1 trial ongoing in AR+/ER+/HER2- MBC NCT05573126
 Enobosarm: (AR agonist) Phase 3 trial in AR+/ER+/HER2- MBC NCT04869943

**CDK4 inhibitor:** Selective inhibition of CDK4 with significant sparing of CDK6 reduces neutropenia and enables higher doses to be administered **PF-07220060**: Phase 3 trial in combination with fulvestrant planned **NCT06105632** 

**CDK2 inhibitor**: CDK2 inhibition effective in tumors with cyclinE overexpression/amplification, a key CDK4/6i resistance mechanism BLU-222: Phase 1/ 2 trial ongoing with preliminary antitumor activity in heavily pretreated ER+/HER2- MBC reported recently NCT05252416 ARTS-021: First-in-human study ongoing in CCNE1 altered malignancies including ER+/HER2- MBC NCT05867251



@ErikaHamilton9

### 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



### Beyond the Guidelines: Clinical Investigator Perspectives on the Management of Localized HER2-Negative Breast Cancer

Part 2 of a 3-Part CME Satellite Symposium Series in Partnership with the 2023 San Antonio Breast Cancer Symposium®

### Wednesday, December 6, 2023 7:15 PM – 9:15 PM CT (8:15 PM – 10:15 PM ET)

### Faculty

### Harold J Burstein, MD, PhD Matthew P Goetz, MD Sara A Hurvitz, MD, FACP

Joyce O'Shaughnessy, MD Lajos Pusztai, MD, DPhil, FASCO

Moderator Neil Love, MD



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