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Camizestrant + CDK4/6i for  
Treatment of HR-positive,  
HER2-negative Advanced  
Breast Cancer Upon Emergence  
of *ESR1* Mutation During  
First-Line Endocrine-Based Therapy

United States Food and Drug Administration  
Oncologic Drugs Advisory Committee

April 30, 2026



# Introduction

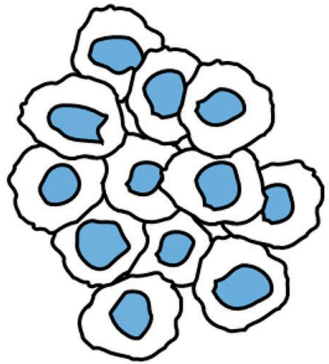
## **Ingrid Mayer, MD, MSCI**

VP, Global Clinical Strategy Head, Breast/GYN Cancers  
Late Development Oncology, Research & Development  
AstraZeneca



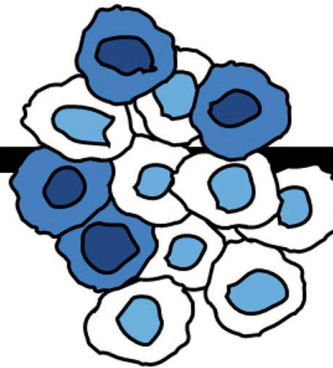
# *ESR1* Mutation Clonal Evolution Drives Clinical Progression During First-Line AI + CDK4/6i Therapy for HR+ aBC

*ESR1*wt  
cancer cells



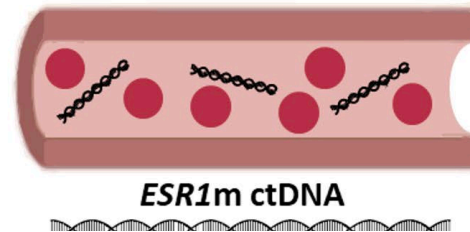
1L AI + CDK4/6i

*ESR1*m  
cancer cells



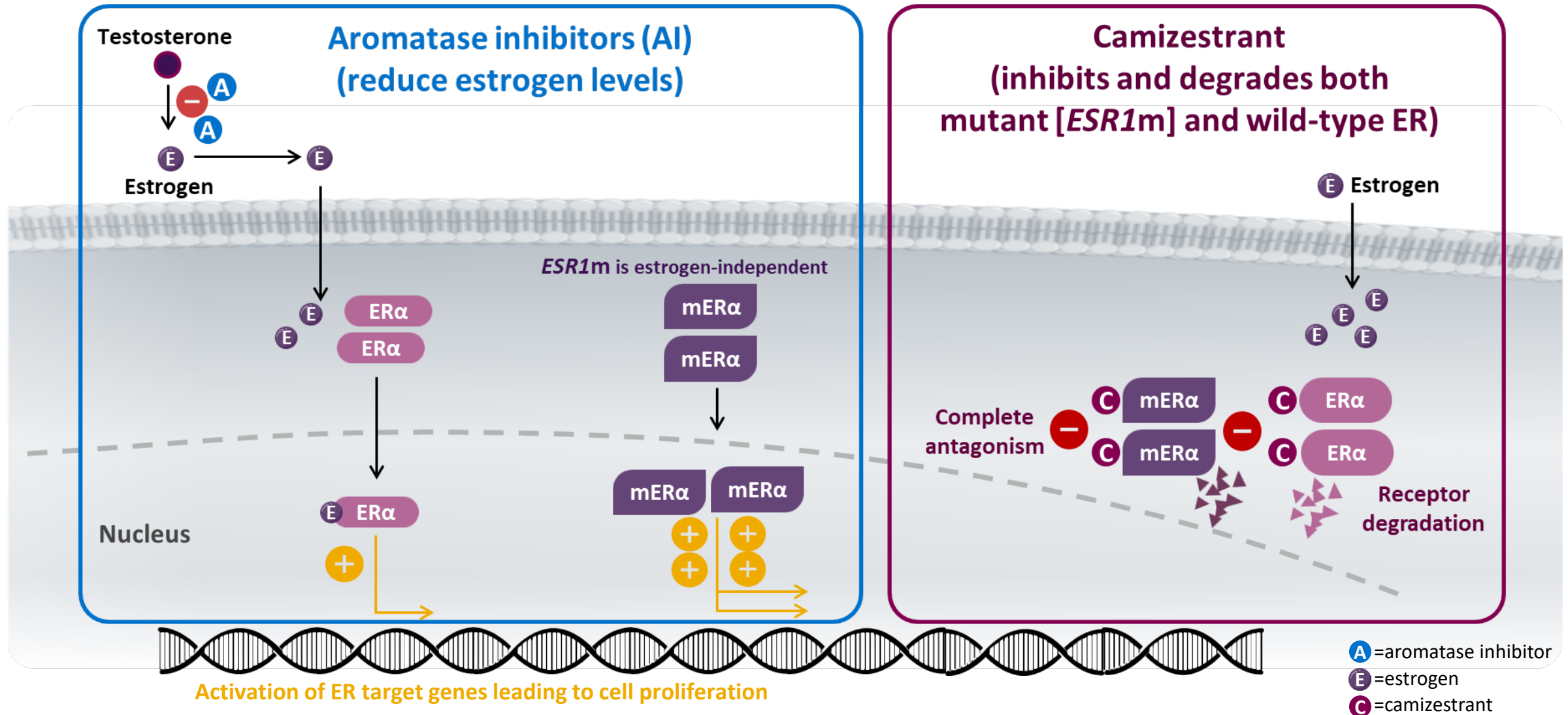
Key Resistance  
Mechanism to AI

Dynamic ctDNA biomarker



Poor  
outcomes

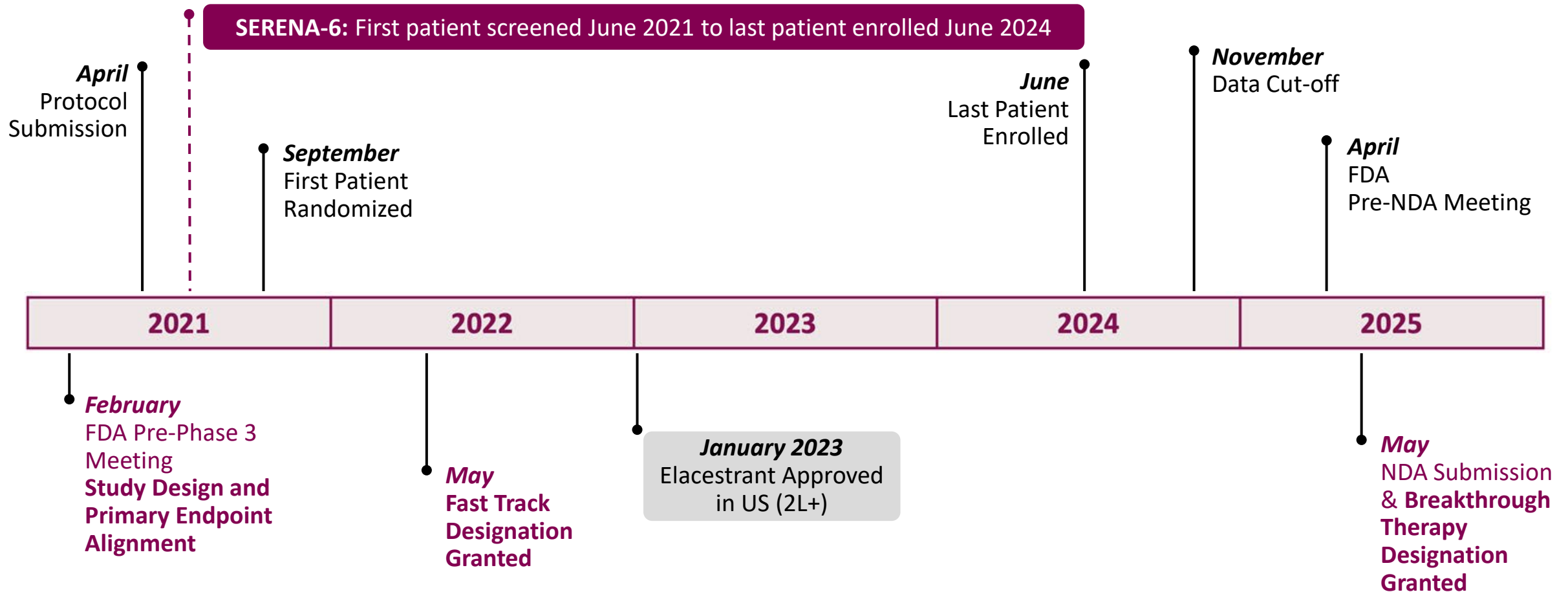
# Camizestrant Is a Potent Oral SERD and Complete ER Antagonist



## Proposed Indication

Camizestrant in combination with a CDK4/6 inhibitor (palbociclib, ribociclib, or abemaciclib) for the treatment of adult patients with HR-positive, HER2-negative, locally advanced or metastatic breast cancer, **upon emergence of *ESR1* mutation during first-line endocrine-based therapy**, based on an FDA approved test.

# SERENA-6 Key Regulatory Milestones: Breakthrough Therapy Designation in May 2025



# Current Treatment Paradigm for *ESR1m* HR+ aBC



## DELAY 1L PROGRESSION (2017+)

Approved 1L ET-Based Therapy	HR	Δ PFS (months)
ET Replacement <sup>1</sup> (AI → fulvestrant)	0.8	2-3
Add-On <sup>2-5</sup> (AI + CDK4/6i)	0.54-0.57	9-13

## REACT AFTER 1L PROGRESSION (2023+)

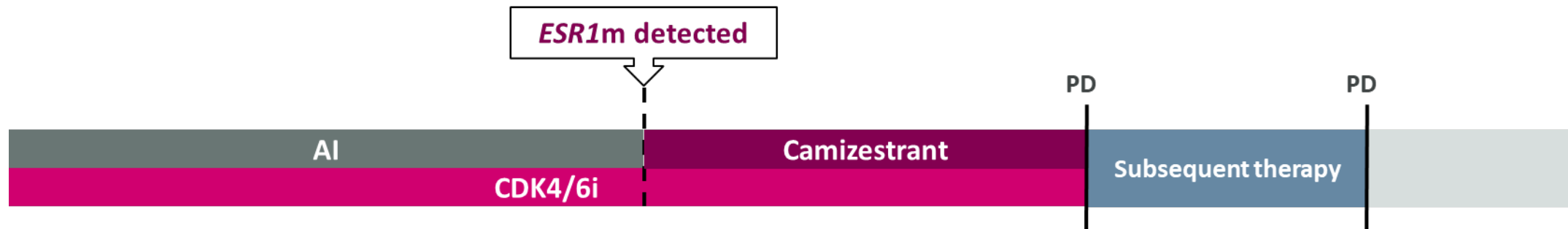
Approved 2L ET-Based Therapy	HR	Δ PFS (months)
ET Replacement <sup>6-9</sup> (elacestrant, imlunestrant)	0.55-0.72	<2
Add-On <sup>10-12</sup> (fulv/exe + targeted Tx)	0.43-0.62	3-5

PD=clinical/radiological disease progression.

- Robertson JFR, et al. *Lancet*. 2016;388:2997-3005;
- Finn RS, et al. *N Engl J Med*. 2016;375:1925-1936;
- Hortobagyi GN, et al. *Ann Oncol*. 2018;29:1541-1547;
- Tripathy D, et al. *Lancet Oncol*. 2018;19(7):904-915;
- Johnston S, et al. *NPJ Breast Cancer*. 2019;5:5;
- Bidard F-C, et al. *J Clin Oncol*. 2022;40(28):3246-3256;
- Jhaveri KL, et al. *N Engl J Med*. 2025;392(12):1189-1202;
- Jhaveri KL, et al. *Ann Oncol*. 2026;37(4):532-543;
- [Inluriyo EMA Summary of Product Characteristics](#);
- Oliveira M, et al. *ESMO Open*. 2024; Abstract 1870;
- De Laurentiis M, et al. *Clin Cancer Res*. 2026;32(4 suppl). Abstract RF7-02;
- Baselga J, et al. *N Engl J Med*. 2012;366:520-529.

# SERENA-6: A New Treatment Paradigm for *ESR1m* HR+ aBC

**Hypothesis: Replacing AI with camizestrant at emergence of *ESR1m* suppresses resistant clones, maximizing the benefit of first-line ET + CDK4/6i by delaying disease progression**



## INTERCEPT 1L RESISTANCE

AI → Camizestrant	HR	Δ PFS (months)
ET Replacement <sup>1</sup> ( <i>ESR1m</i> )	0.44	7

# Camizestrant at *ESR1m* Emergence in 1L: Positive Benefit/Risk

<b>Benefit for Camizestrant + CDK4/6i Replacement Strategy</b>	
<b>PFS<sup>a</sup></b>	Delays disease progression (HR=0.44; primary endpoint) Allows patients to get subsequent endocrine-based therapy
<b>PFS2<sup>b</sup></b>	Positive benefit is preserved through subsequent line of therapy (HR=0.63)
<b>OS<sup>b</sup></b>	No detriment (HR=0.87)
<b>Chemotherapy/ADC-free survival<sup>b</sup></b>	Prolongs chemotherapy/ADC-free survival (HR=0.64) and time on ET
<b>Camizestrant + CDK4/6i Is Patient-Centric</b>	
<b>PRO</b>	Maintains QoL
<b>Risk for Camizestrant + CDK4/6i</b>	
<b>Adverse event rate</b>	Well-tolerated
<b>Discontinuation rate</b>	1%
<b>Impact on activities of daily living</b>	None or minimal impact

a. Data cut-off 1 (DCO1).

b. DCO3.

# What You Will Hear Today



## Disease Background & Unmet Need

**Massimo Cristofanilli, MD, FACP**

Scientific Director of the Englander Institute of Precision Medicine  
Weill-Cornell Medicine and NY Presbyterian



## SERENA-6 Efficacy and PROs

**Cynthia Huang-Bartlett, MD**

Global Clinical Head – Camizestrant  
AstraZeneca



## SERENA-6 Clinical Safety

**Andrew Walding, MSc**

Global Safety Head – Camizestrant  
AstraZeneca



## Clinical Perspective

**Kevin Kalinsky, MD, MS, FASCO**

Emory University School of Medicine  
Director of the Glenn Family Breast Center at Winship Cancer Center



## Concluding Remarks

**Ingrid Mayer, MD, MSCI**

VP, Global Clinical Strategy Head, Breast/GYN Cancers Late Development Oncology, Research & Development  
AstraZeneca

# External Experts Available to Address Your Questions



## Patient-Reported Outcomes

### David Cella, PhD

Associate Director for Cancer Prevention, Control, and Survivorship  
Robert H. Lurie Comprehensive Cancer Center  
Northwestern University



## Ophthalmology

### Ranya Habash, MD

Board Certified Ophthalmologist  
Bascom Palmer Eye Institute  
University of Miami



## Cardiology

### Anju Nohria, MD, MSc

Cardio-Oncology Site-Director  
New York University Langone Medical Center

# Disease Background & Unmet Need

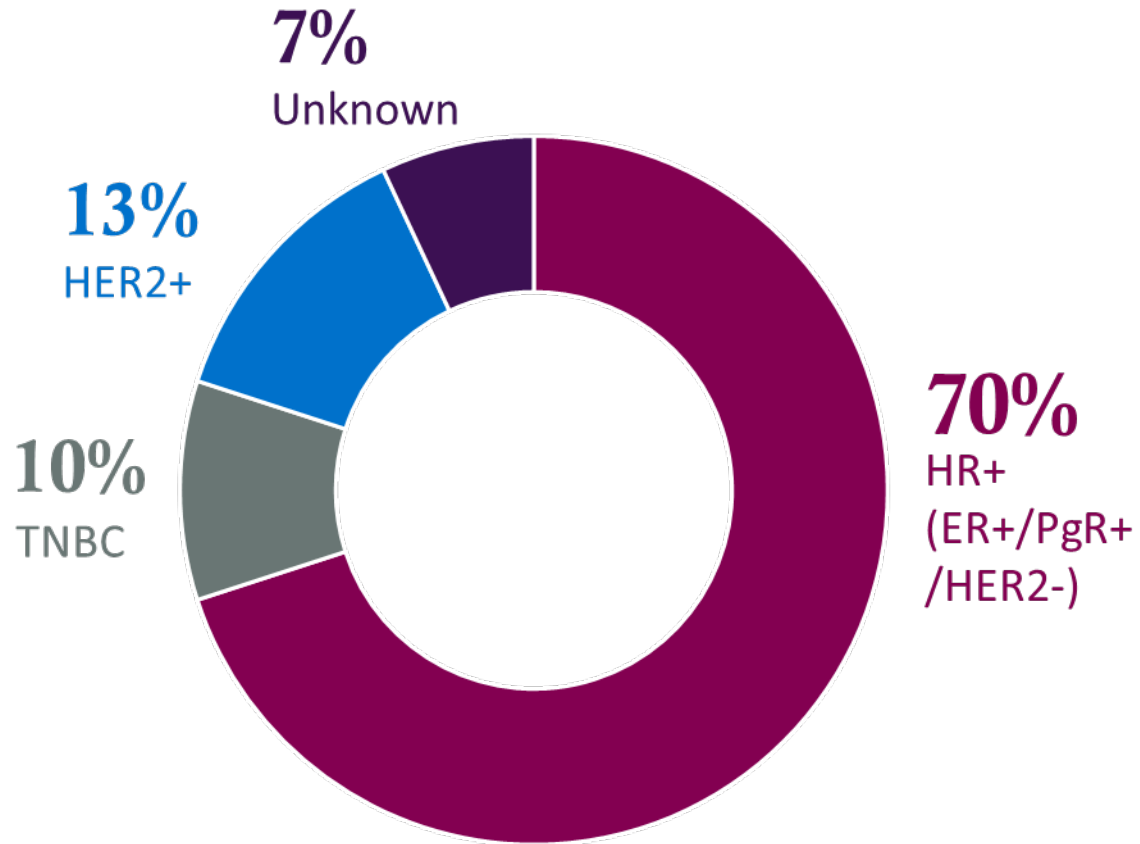
**Massimo Cristofanilli, MD, FACP**

Scientific Director of the Englander Institute of Precision Medicine

Weill-Cornell Medicine and NY Presbyterian



# Hormone-Receptor Positive Advanced Breast Cancer Is Incurable



In the US, >150,000 people living with metastatic breast cancer (mBC)<sup>1</sup>

- >105,000 living with HR+ mBC
- ~29,000 die from HR+ mBC annually<sup>2</sup>

**Goal of systemic treatment:**

- **Extend disease control**
- **Improve symptoms**
- **Maintain quality of life**

ER=estrogen receptor; HER2=human epidermal growth factor receptor-2; HR=hormone receptor; PgR=progesterone receptor; TNBC=triple-negative breast cancer.

Advanced breast cancer includes locally advanced breast cancer treated without curative intent and metastatic breast cancer.

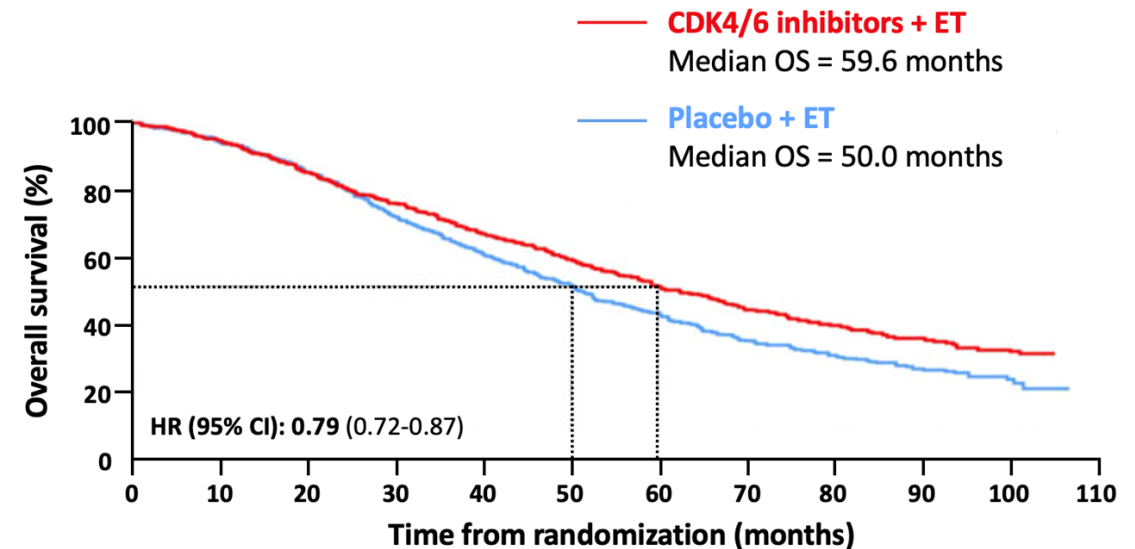
[American Cancer Society Cancer, Breast Cancer Facts & Figures 2024-2025](#). 1. Gallicchio L, et al. *J Natl Cancer Inst*. 2022;114(11):1476-1483. 2. [National Cancer Institute SEER statistics](#).

# First-line Treatment With ET + CDK4/6i Is Highly Effective for ER-Signaling–Dependent Disease and Is Well-Tolerated

**1L SoC AI + CDK4/6i**  
**mPFS: ~25-34 months**

- Longest PFS in the HR+ aBC treatment journey<sup>1-4</sup>
- Prolonged QoL with good tolerability<sup>1-5</sup>
- Dependency on ER-signaling is greatest in this setting<sup>6</sup>

**1L ET + CDK4/6i prolongs OS<sup>7</sup>**



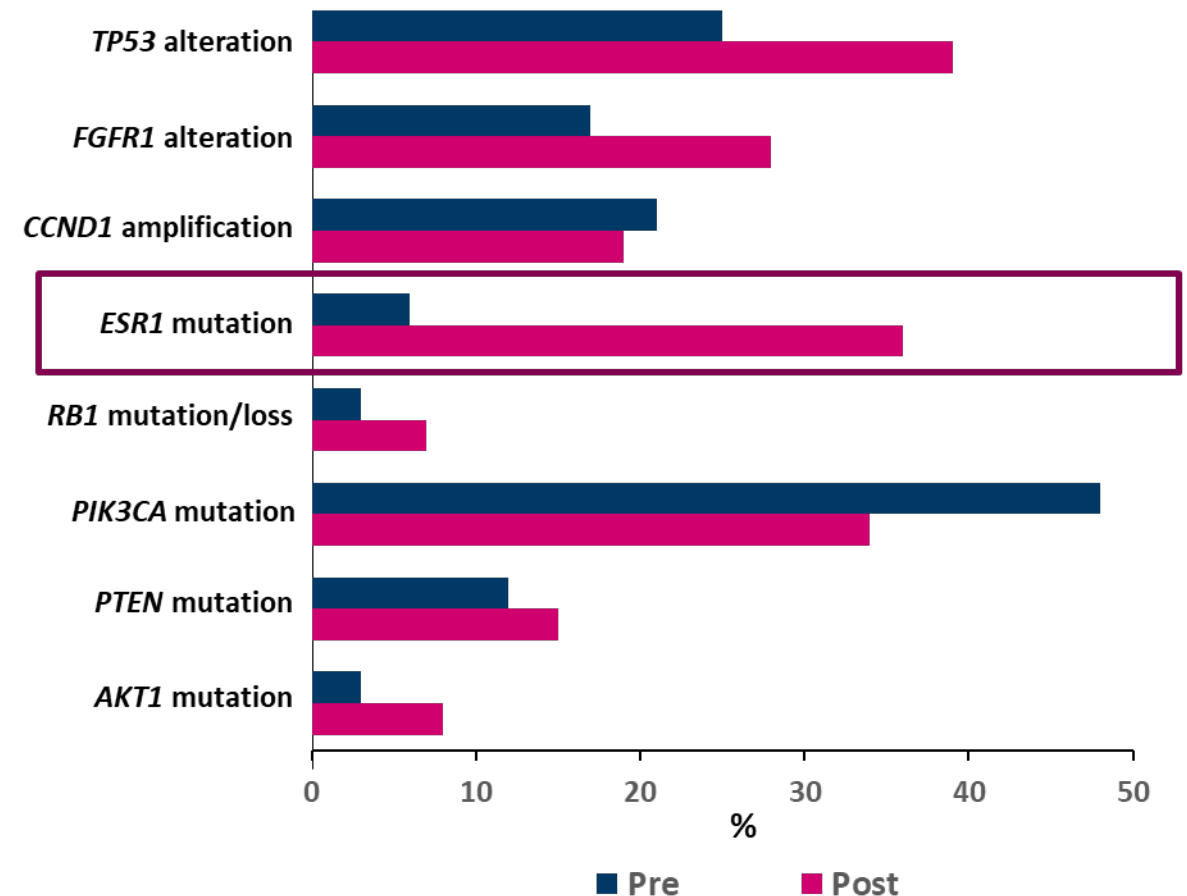
Patients at risk (n):		0	10	20	30	40	50	60	70	80	90	100	110
<b>CDK4/6 inhibitors + ET</b>		1747	1586	1399	1205	1030	840	610	462	295	167	34	0
<b>Placebo + ET</b>		1251	1163	1025	829	675	483	315	226	135	63	11	0

# After Progression on AI + CDK4/6i, Disease Becomes Harder to Treat Due to Endocrine Resistance

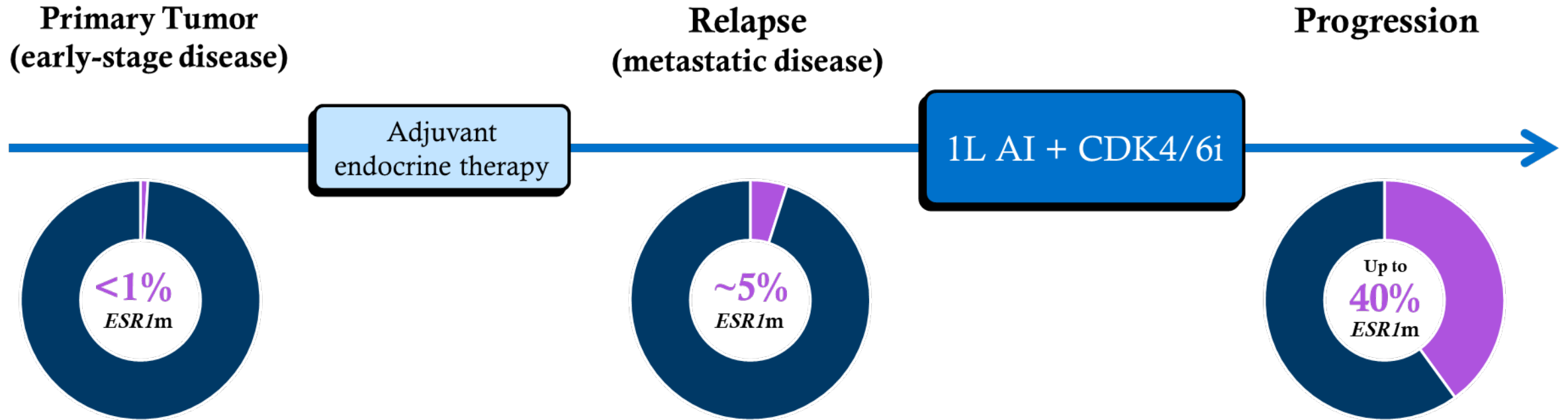
## Progression is associated with

- Increased disease burden
- Worsening symptoms
- Deterioration in QoL
- Greater tumor heterogeneity

Prevalence (%) of genomic alterations pre- and post-treatment with 1L AI + CDK4/6i in a cohort of 508 patients<sup>1</sup>

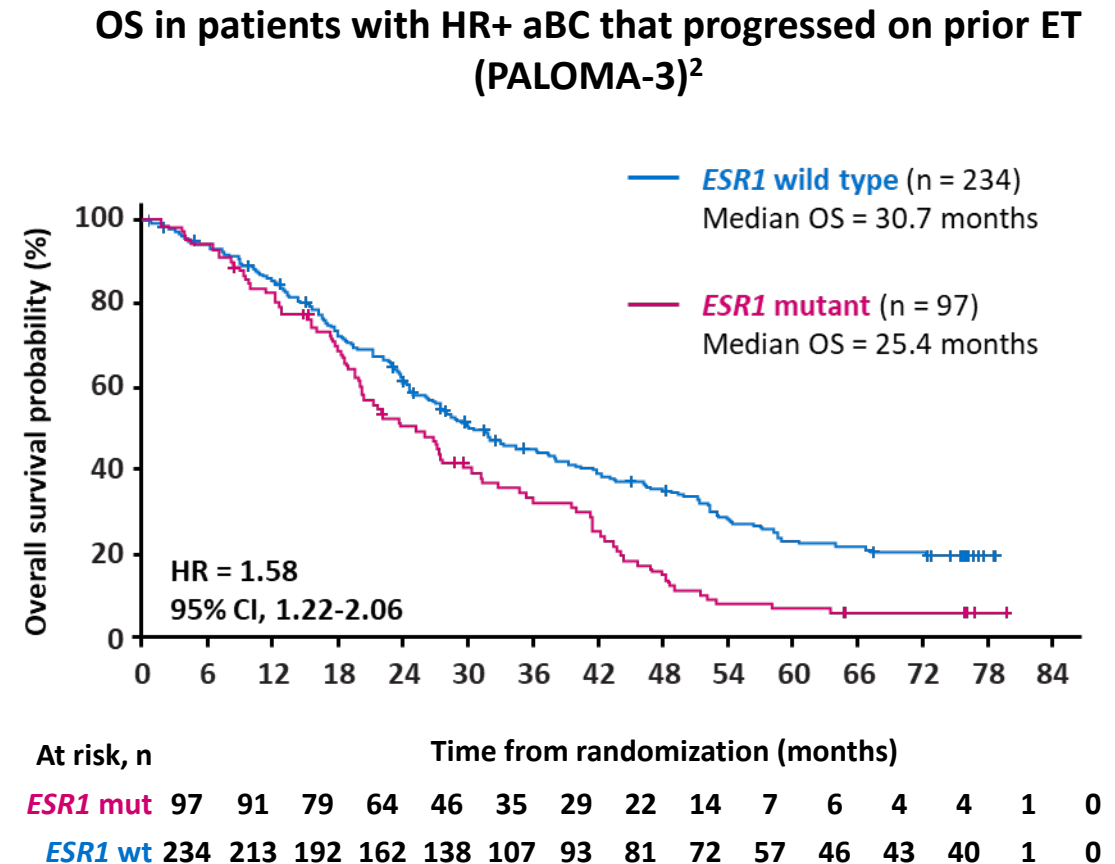
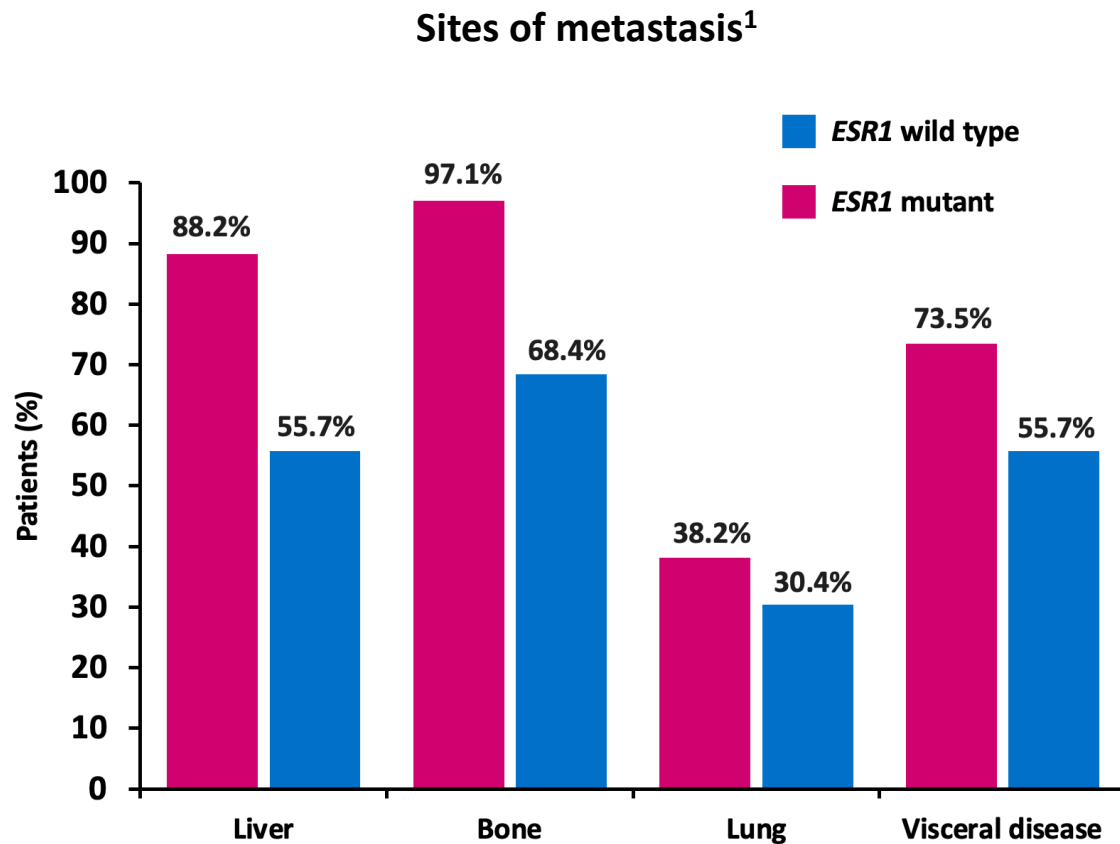


# *ESR1* Mutations Emerge Under Selective Pressure of Aromatase Inhibition



# ESR1m Is a Key Mechanism of Resistance to Traditional Endocrine Therapy in HR+ aBC

**ESR1m is associated with more aggressive disease biology and worse clinical outcomes**

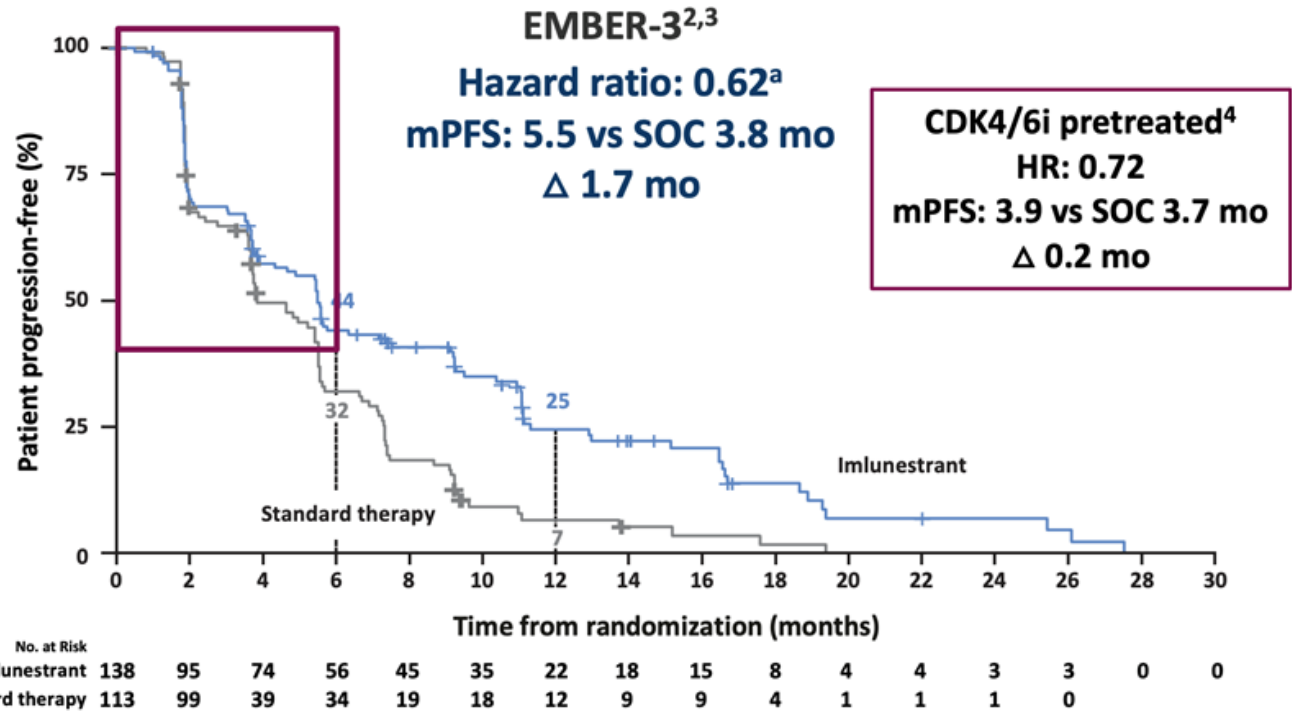
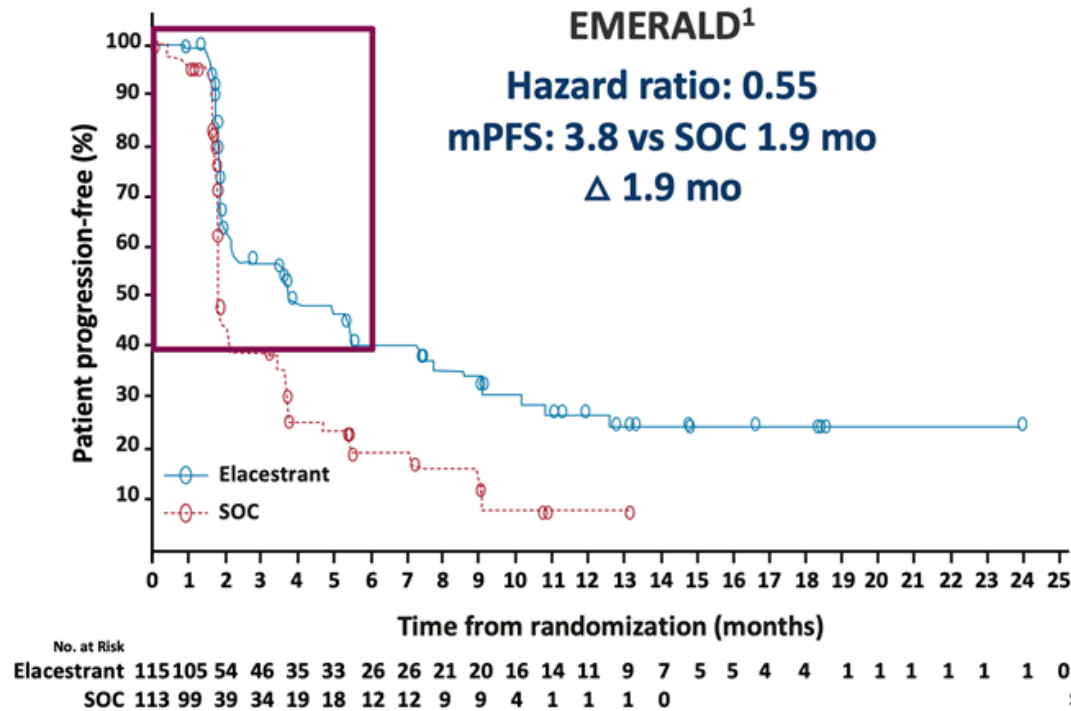


1. Kuang Y, et al. *NPJ Breast Cancer*. 2018;4:22; 2. Reprinted from *Clin Cancer Res*, 2022, 28(16), 3433-3442, Cristofanilli M, et al, Overall survival with palbociclib and fulvestrant in women with HR/HER2<sup>-</sup> aBC: updated exploratory analyses of PALOMA-3, a double-blind, phase III randomized study, with permission from AACR.

# Targeting *ESR1m* After Progression on AI + CDK4/6i Has Limited Benefit

Elacestrant FDA approved in 2023

Imlunestrant FDA approved in 2025

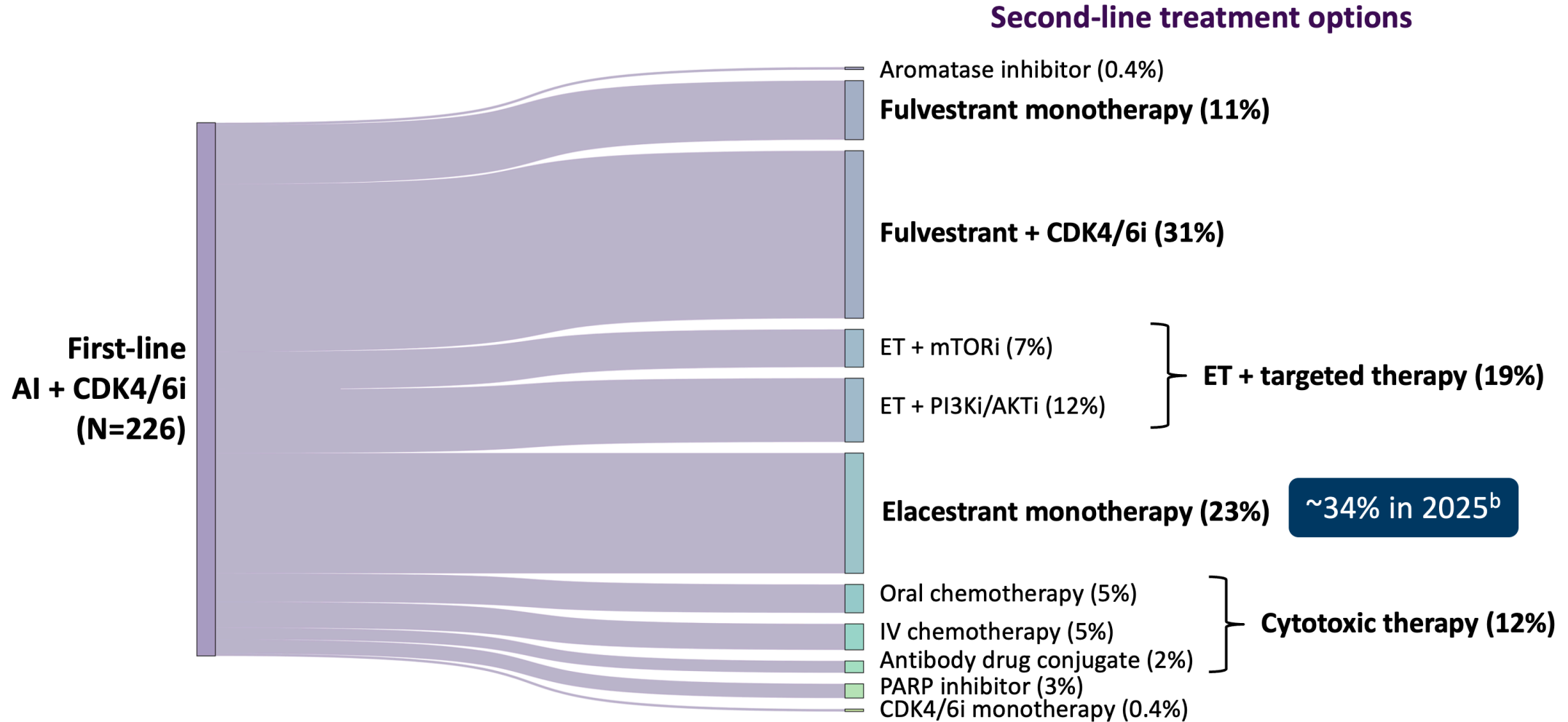


- Despite activity against *ESR1m*, median PFS remains under 6 months after progression on ET + CDK4/6i
- ~60% of patients with an *ESR1m* progress within 6 months

a. 30% of patients in this cohort were CDK4/6i naive.  
 1. Bidard F-C, et al. Elacestrant (oral selective estrogen receptor degrader) versus standard endocrine therapy for estrogen receptor–positive, human epidermal growth factor receptor 2–negative advanced breast cancer: results from the randomized phase III EMERALD trial. *J Clin Oncol* (an American Society of Clinical Oncology journal). 2022;40(28):3246-3256, [https://ascopubs.org/doi/10.1200/JCO.22.00338?url\\_ver=Z39.88-2003&rfr\\_id=ori:rid:crossref.org&rfr\\_dat=cr\\_pub%20%20pubmed](https://ascopubs.org/doi/10.1200/JCO.22.00338?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%20%20pubmed); 2. Reprinted from *N Engl J Med*. Jhaveri KL, et al. Imlunestrant with or without abemaciclib in advanced breast cancer: updated efficacy results from the phase III EMBER-3 trial, 392(12), 1189-1202, Copyright 2025 Massachusetts Medical Society. Reprinted with permission from Massachusetts Medical Society; 3. Jhaveri KL, et al. *Ann Oncol*. 2026;37(4):532-543; 4. Inluriyo EMA Summary of Product Characteristics.

# Complexity of 2L Treatment Options in Patients With *ESR1m* After AI + CDK4/6i

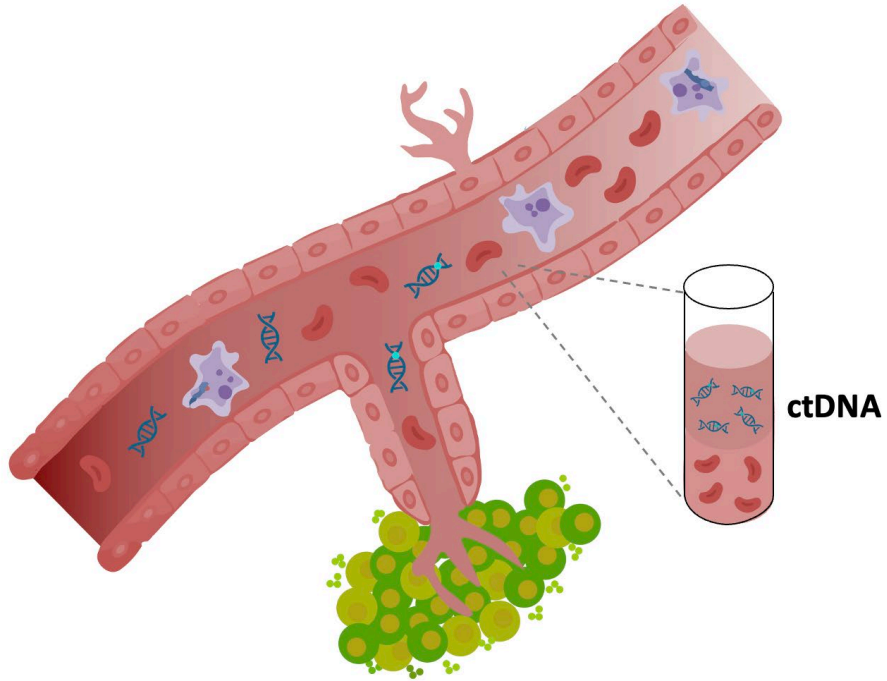
Real-World US Treatment Patterns<sup>a</sup>



a. Flatiron Health Research Database; patients diagnosed with HR+/HER2- *ESR1m* mBC from 2015 to 2025 with positive *ESR1m* test at initiation of second-line therapy.

b. As of 2025 RWE, elacestrant usage was ~34% (AstraZeneca data on file).

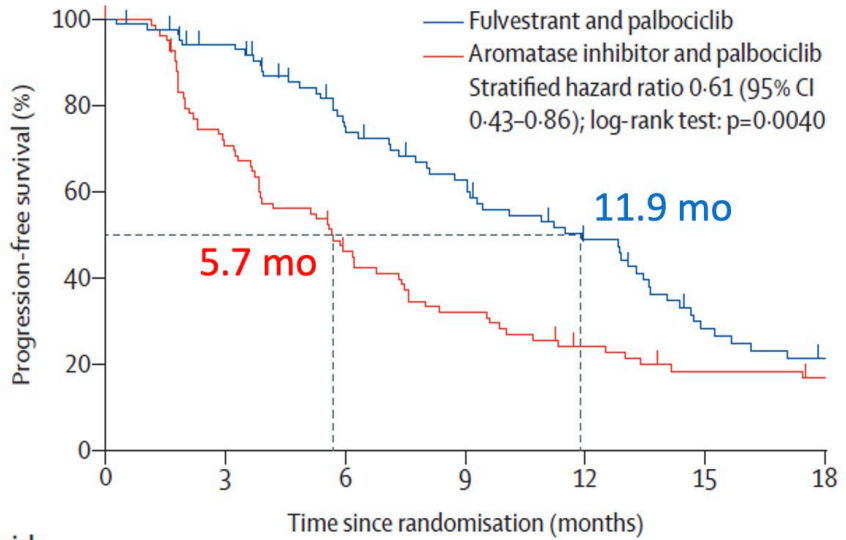
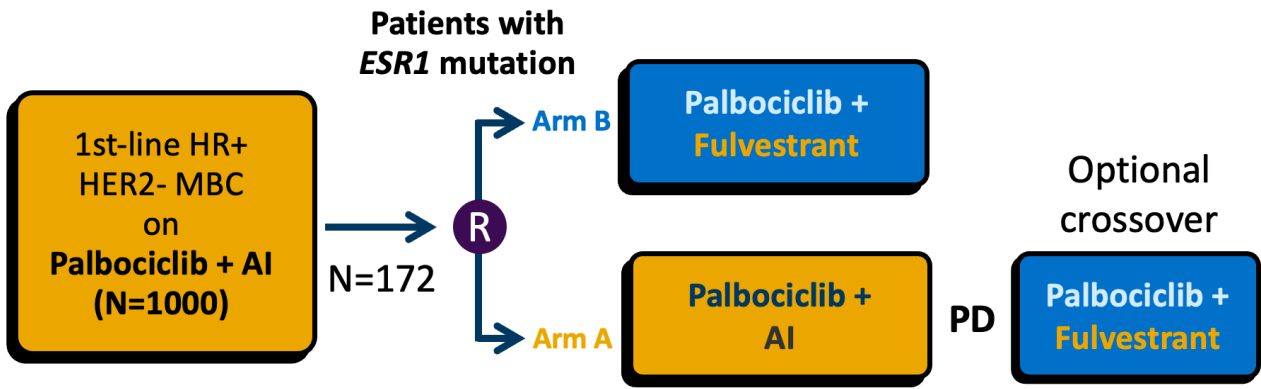
# *ESR1m* Can Be Detected in ctDNA, Which Is Routinely Used in Clinical Practice



## Blood-based ctDNA profiling

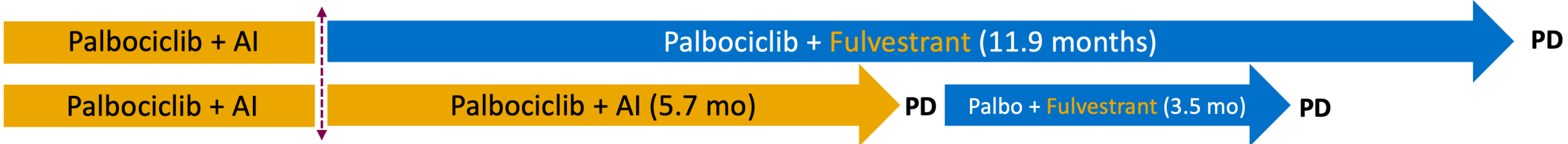
- Does not require invasive tissue biopsy
- Representative of predominant cancer clone(s)
- Assesses tumor clonal evolution → aids treatment decisions
- **Ideal test to detect *ESR1m*<sup>1</sup>**

# PADA-1 Demonstrated Significant Improvement in PFS



	0	3	6	9	12	15	18
Fulvestrant and palbociclib	88 (0)	78 (5)	57 (11)	46 (13)	32 (17)	17 (19)	12 (20)
Aromatase inhibitor and palbociclib	84 (1)	58 (2)	36 (4)	25 (4)	17 (6)	12 (7)	10 (8)

**ESR1m detection and randomization**



Reprinted from *The Lancet Oncol*, 23(11), Bidard FC, et al, Switch to fulvestrant and palbociclib versus no switch in advanced breast cancer with rising ESR1 mutation during aromatase inhibitor and palbociclib therapy (PADA-1): a randomised, open-label, multicentre, phase 3 trial, 1367-1377, Copyright 2022, with permission from Elsevier.

# Unmet Need Summary

## Target Resistance and Keep Patients on 1L ET + CDK4/6i Longer

- **Resistance leading to disease progression in 1L invariably occurs, and disease becomes harder to treat**
  - Increased tumor burden and genomic complexity
  - Worsening symptoms and QoL
- ***ESR1m* is a key acquired mechanism of resistance to aromatase inhibitors**
  - Associated with poor outcomes
  - Endocrine sensitivity decreases and patients' needs are heterogeneous
  - Real-world choices of 2L therapy yield modest benefit
  - ~34% of US patient population with *ESR1m* HR+ aBC received an oral SERD in 2025
- ***ESR1m* ctDNA monitoring during AI + CDK4/6i therapy offers opportunity to replace the ineffective AI ahead of clinical/radiographic disease progression**
  - Allows patients to remain on well-tolerated 1L ET + CDK4/6i longer



# SERENA-6

## Efficacy and PROs

**Cynthia Huang-Bartlett, MD**

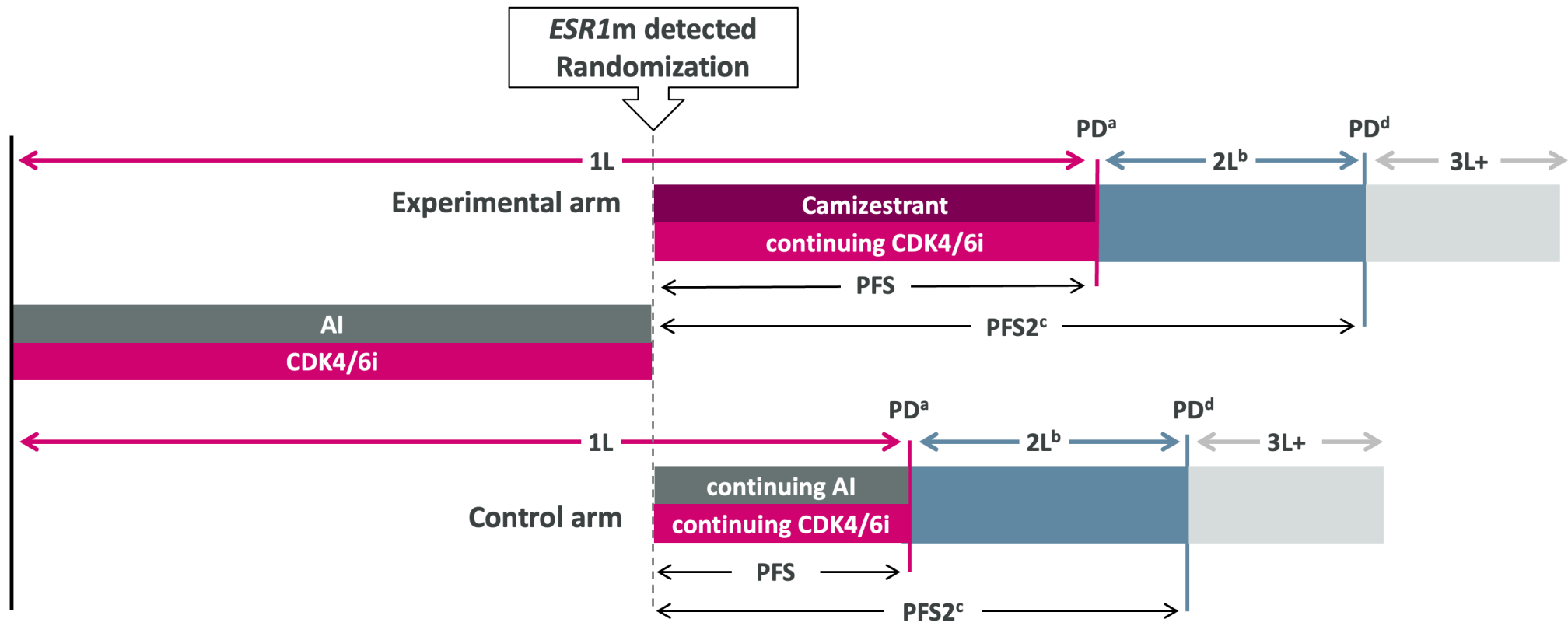
Global Clinical Head – Camizestrant

AstraZeneca



# SERENA-6 Hypothesis

Replacing AI with camizestrant at emergence of *ESR1m* suppresses resistant clones, maximizing the benefit of first-line ET + CDK4/6i by delaying disease progression



a. PD per RECIST 1.1 by investigator assessment.

b. 2L treatment options per SoC and physician's preference (include endocrine mono- or combination with targeted therapy, or chemotherapy or ADCs).

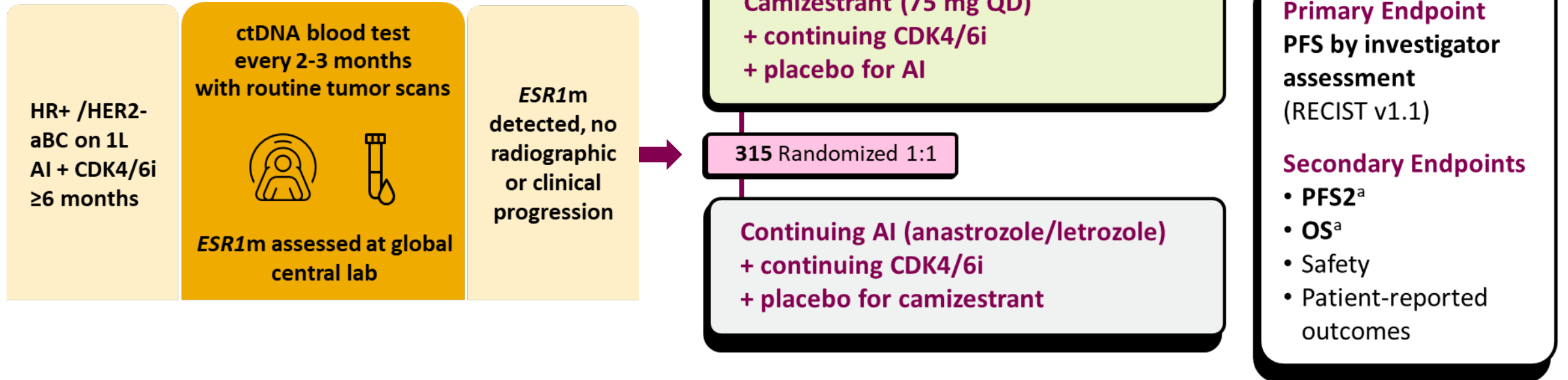
c. PFS2 defined per EMA guideline on the evaluation of anticancer medicinal products in man.

d. Clinical or objective PD; 170 patients had a second progression event (PFS2) at DCO3.

# SERENA-6: Two-Step Design

## STEP 1: *ESR1m* detection phase

## STEP 2: Randomized treatment phase



### Stratification factors

- Visceral vs non-visceral disease
- *ESR1m* detection at first test vs at subsequent test
- Time from initiation of AI + CDK4/6i to randomization (<18 vs ≥18 months)
- Palbociclib vs ribociclib vs abemaciclib

# SERENA-6 Statistical Considerations

**Planned enrollment: 300 patients**

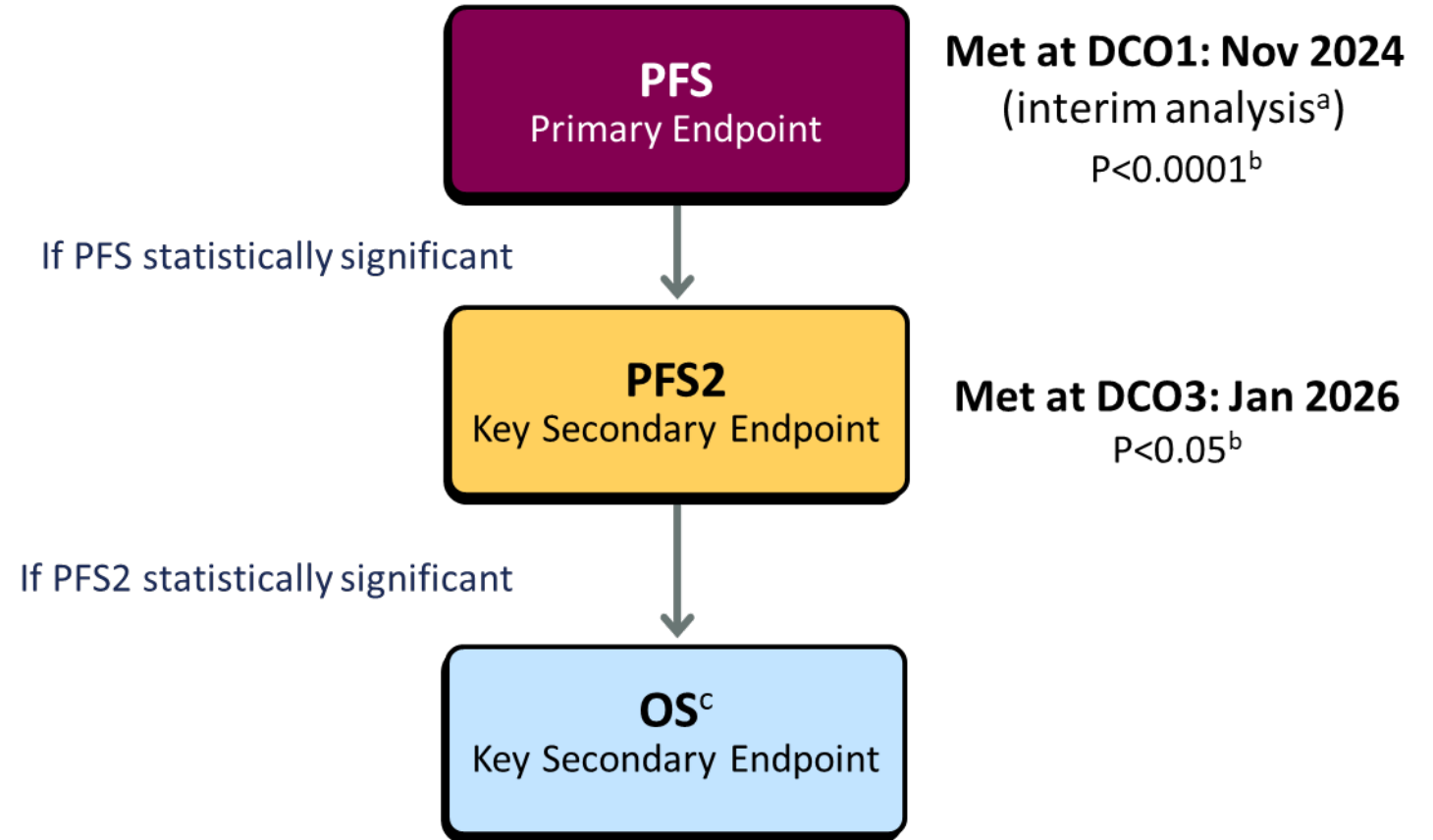
**Power for PFS:**

93%, assuming HR=0.61  
at ~5% two-sided significance

**Power for PFS2:**

77%, assuming HR=0.65  
at ~5% two-sided significance

## Multiple Testing Procedure



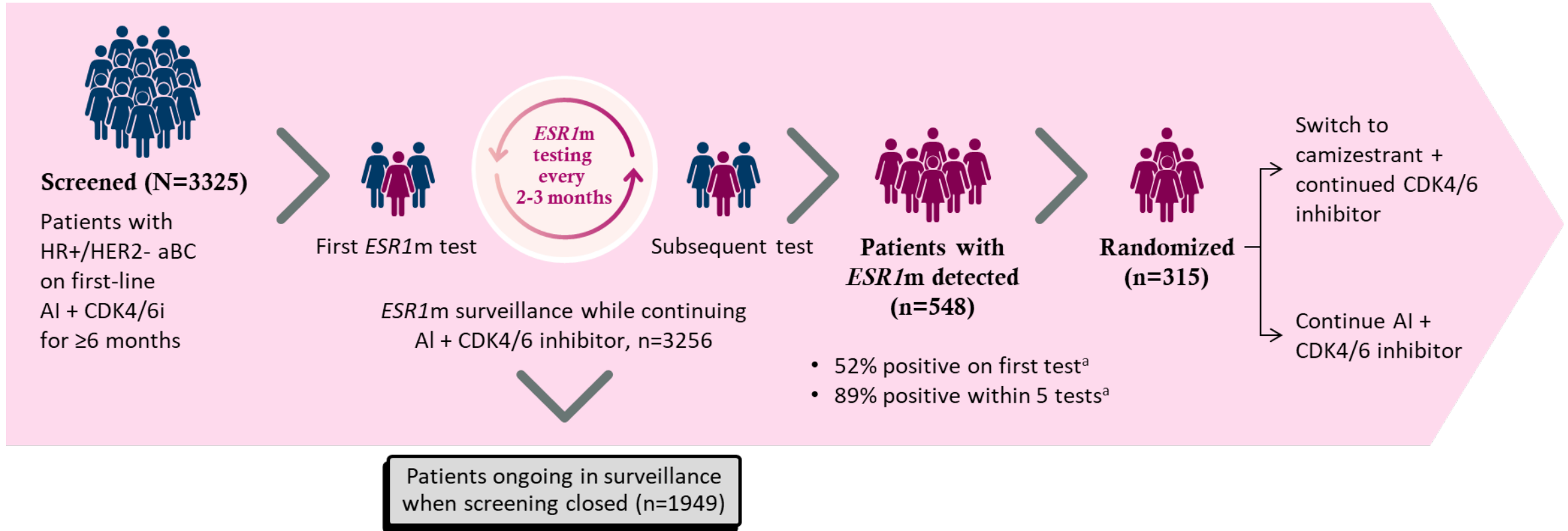
DCO=data cutoff.

a. Interim analysis was triggered by 135 PFS events and all randomized patients had at least 1 tumor assessment (actual number of events is 171).

b. 2-sided alpha using Haybittle-Peto boundary.

c. Primary OS analysis planned at DCO4.

# SERENA-6 Patient Flow



Crude rate of *ESR1m* positive = 548 positive for *ESR1m*/1949 who completed surveillance (42%).

a. Number of tests obtaining a positive *ESR1m* test result based on N=548 patients.

# Baseline Demographics & Disease Characteristics Well Balanced

## SERENA-6

Characteristic		Camizestrant + CDK4/6i (N=157)	AI + CDK4/6i (N=158)
Median age (range), years		61.0 (29-81)	60.5 (35-89)
Female, n (%)		157 (100)	155 (98)
Race, n (%)	White	97 (62)	102 (65)
	Asian	39 (25)	34 (22)
	Other/Not reported	21 (13)	22 (14)
Postmenopausal status, n (%)		123 (78)	127 (80)
ECOG performance-status score, n (%) <sup>a</sup>	0	107 (68)	98 (62)
	1	48 (31)	56 (35)
Most common <i>ESR1m</i> at baseline, n (%) <sup>b</sup>	D538G	70 (45)	82 (52)
	Y537S	61 (39)	60 (38)
	Y537N	29 (19)	25 (16)
Region, n (%)	Asia	40 (25)	39 (25)
	Europe	89 (57)	91 (57)
	North America [US/Canada]	22 (14)/6 (4)	23 (15)/5 (3)

a. Data missing for 2 patients in the camizestrant + CDK4/6i arm and 3 patients in the AI + CDK4/6i arm. One patient in the AI + CDK4/6i arm had an ECOG performance status score of 2, which was a protocol deviation.

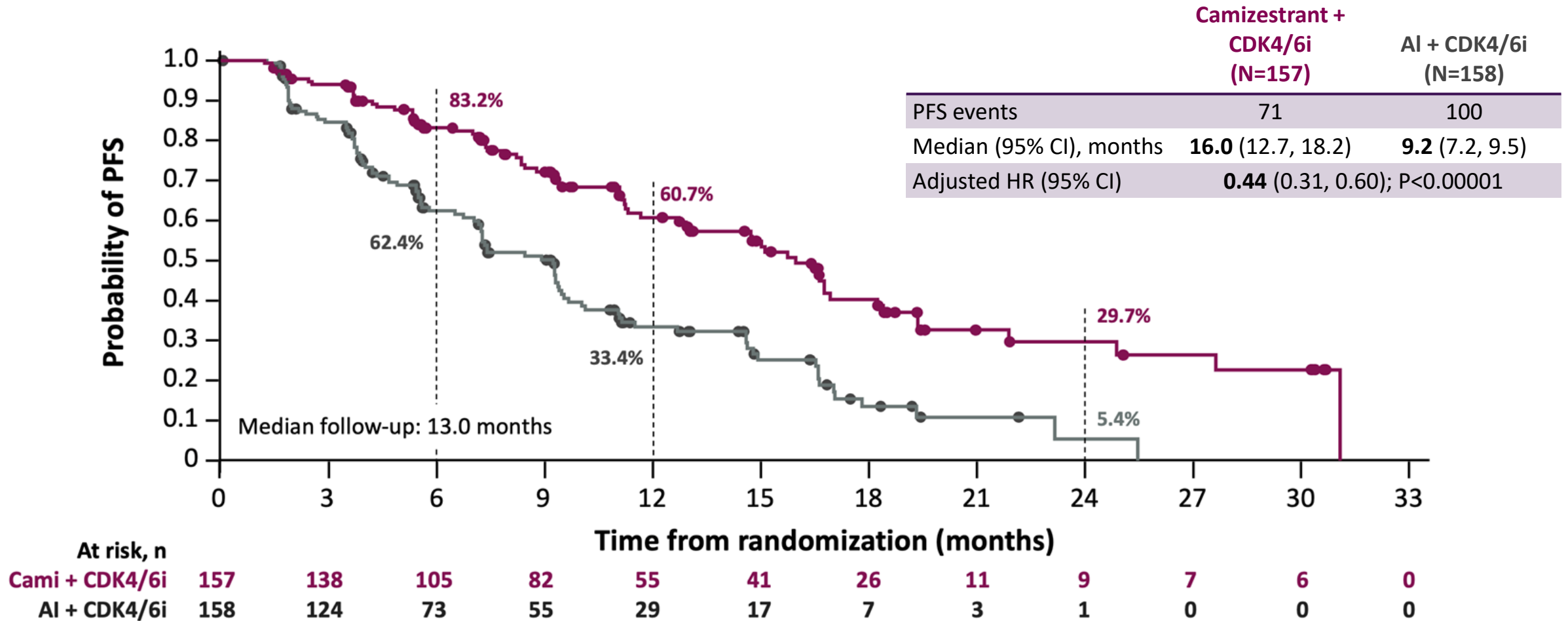
b. The 3 most prevalent *ESR1m* detected of the 11 qualifying mutations. Patients may have had more than 1 *ESR1m*.

# Stratification Factors

## SERENA-6

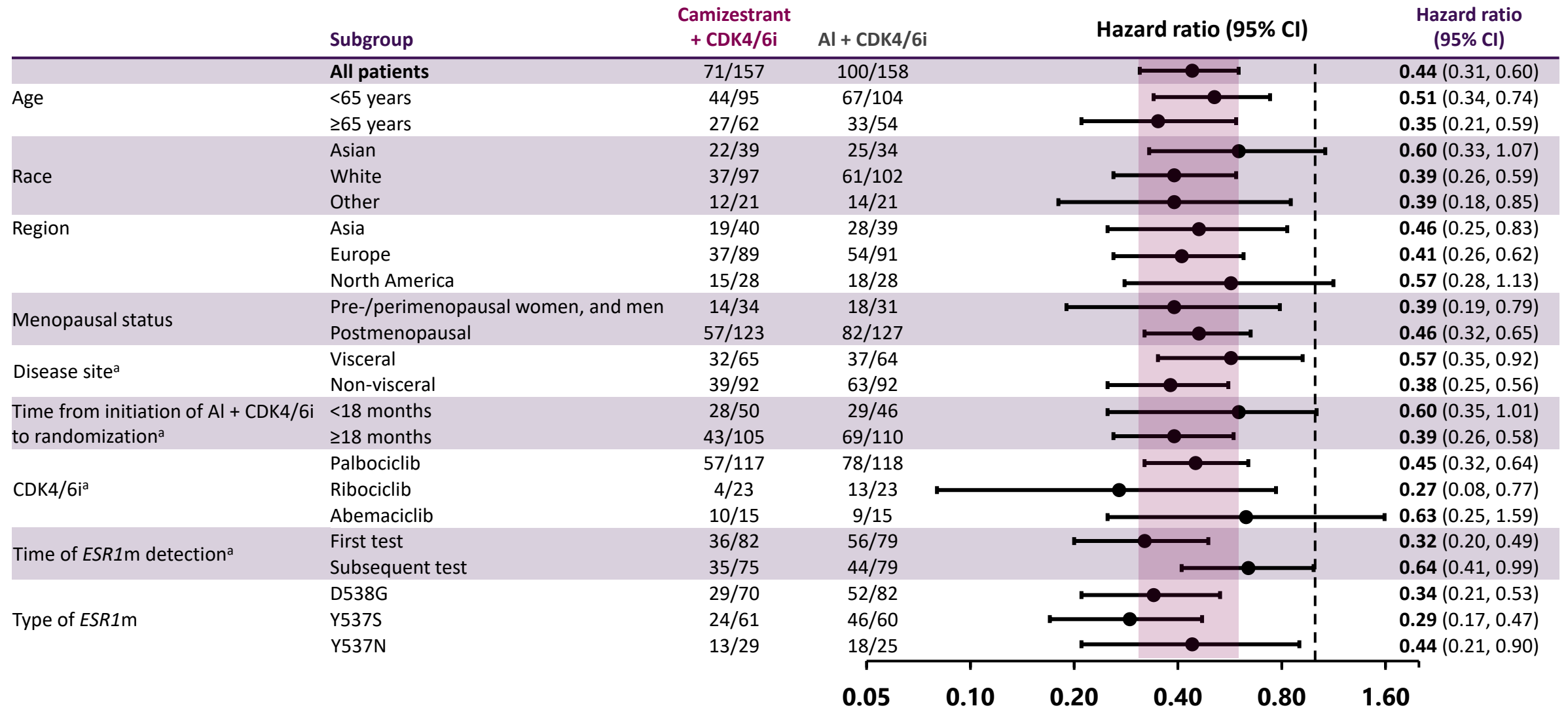
Stratification Factor		Camizestrant + CDK4/6i (N=157)	AI + CDK4/6i (N=158)
Sites of metastases, n (%)	Visceral	66 (42)	71 (45)
	Non-visceral	91 (58)	87 (55)
Time of <i>ESR1</i> m detection, n (%)	At first test	84 (54)	84 (53)
	At a subsequent test	73 (47)	74 (47)
Time from initiation of AI + CDK4/6i to randomization	≥18 months, n (%)	97 (62)	100 (63)
	<18 months, n (%)	60 (38)	58 (37)
	Median (range), months	23 (7-96)	23 (6-96)
CDK4/6i continued at randomization, n (%)	Palbociclib	119 (76)	119 (75)
	Ribociclib	24 (15)	23 (15)
	Abemaciclib	14 (9)	16 (10)

# SERENA-6 Met Primary Endpoint (DCO1): Statistically Significant and Clinically Meaningful PFS Benefit



# Consistent PFS Benefit Across All Key Subgroups

## SERENA-6 (DCO1)



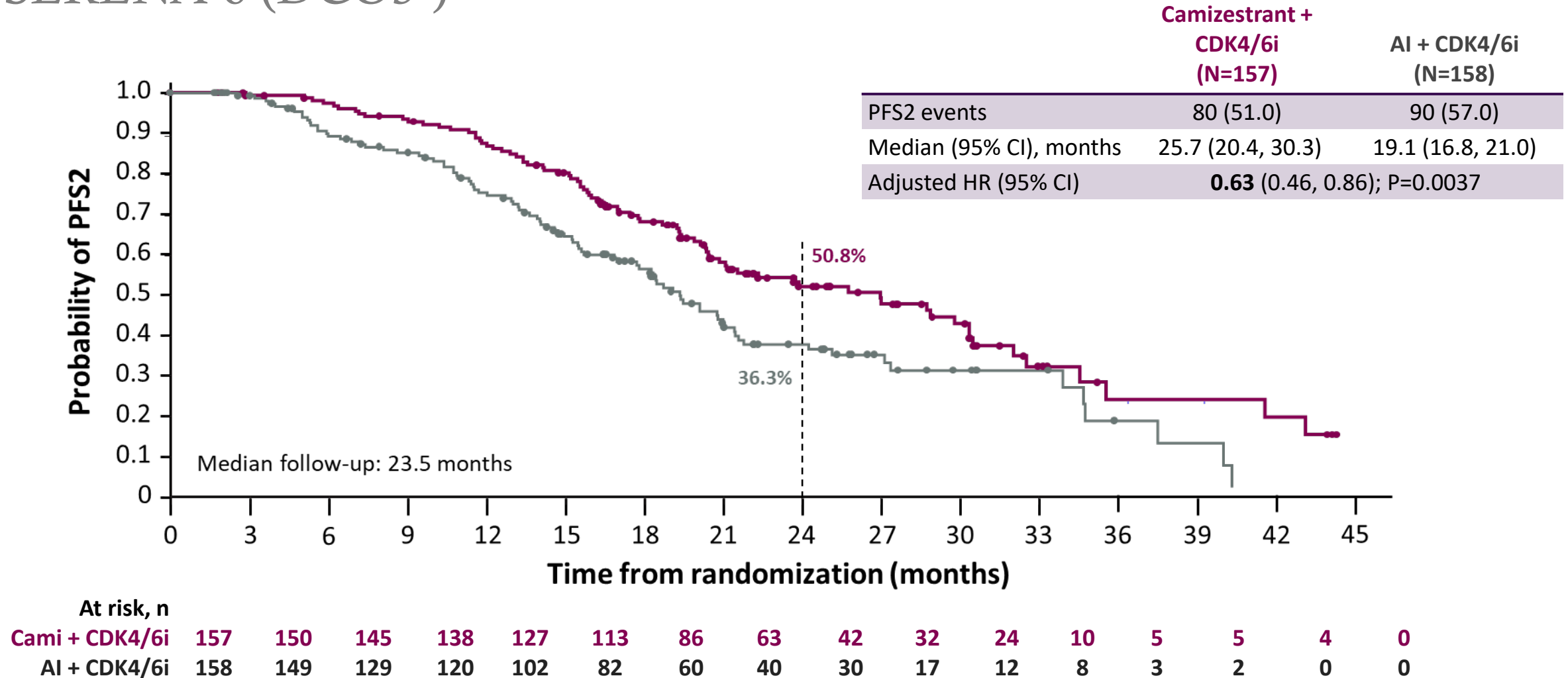
a. Stratification factor.

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Reprinted from *N Engl J Med*, Bidard F-C, et al. First-line camizestrant for emerging ESR1-mutated advanced breast cancer, 393, 569-580, Copyright 2025 Massachusetts Medical Society.

# Statistically Significant and Clinically Meaningful PFS2 Demonstrating Sustained Benefit

## SERENA-6 (DCO3<sup>a</sup>)

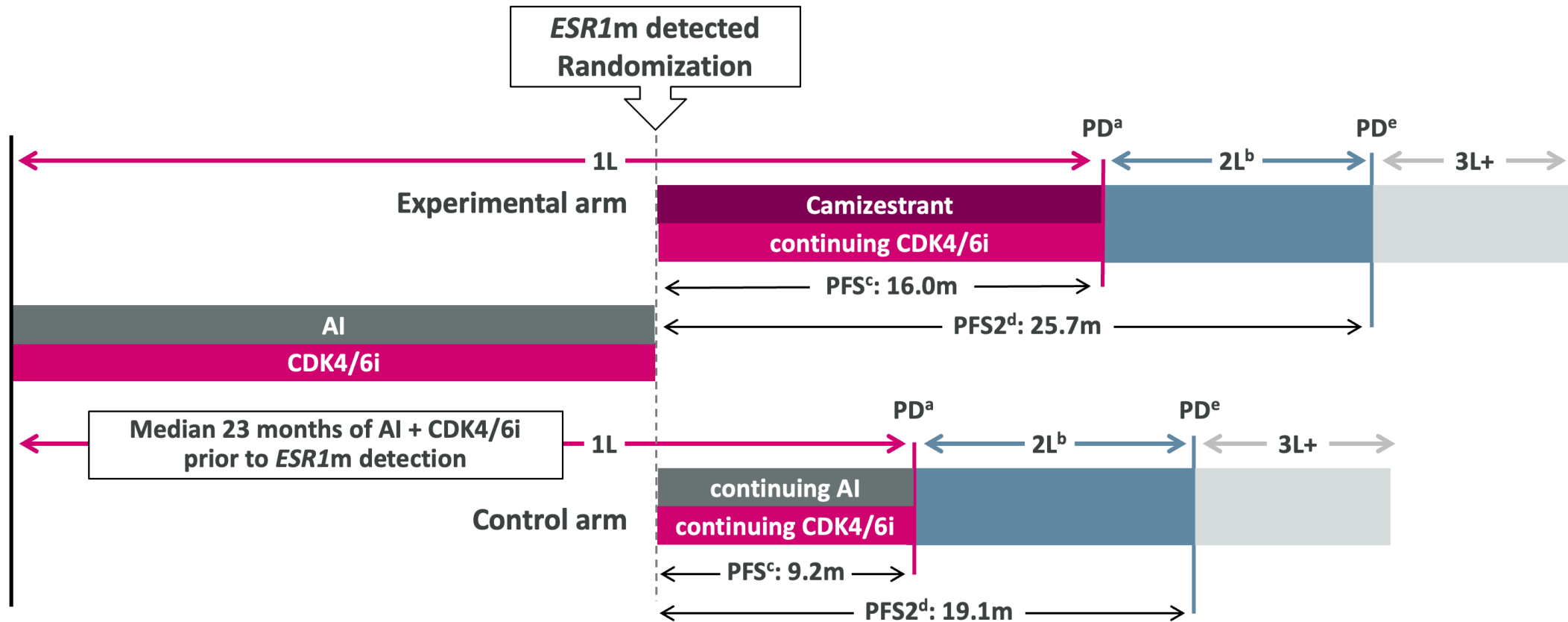


a. DCO3 is the data cutoff for the prespecified primary analysis of PFS2, per protocol.

# Prespecified Analysis of PFS2 by RECIST Criteria Is Consistent With Primary PFS2 Analysis SERENA-6 (DCO3)

	Camizestrant + CDK4/6i (N=157)	AI + CDK4/6i (N=158)
PFS2 events per RECIST 1.1, n	69	78
Median (95% CI), months	27.7 (22.3, 30.5)	20.8 (17.7, 25.1)
Adjusted HR (95% CI)	<b>0.64</b> (0.46, 0.90)	
Nominal P value	0.00939	

# PFS Benefit Is Sustained Through PFS2



a. First progression per RECIST 1.1 by investigator assessment.

b. 2L treatment options per SoC and physician's preference (include endocrine mono- or combination with targeted therapy, or chemotherapy or ADCs).

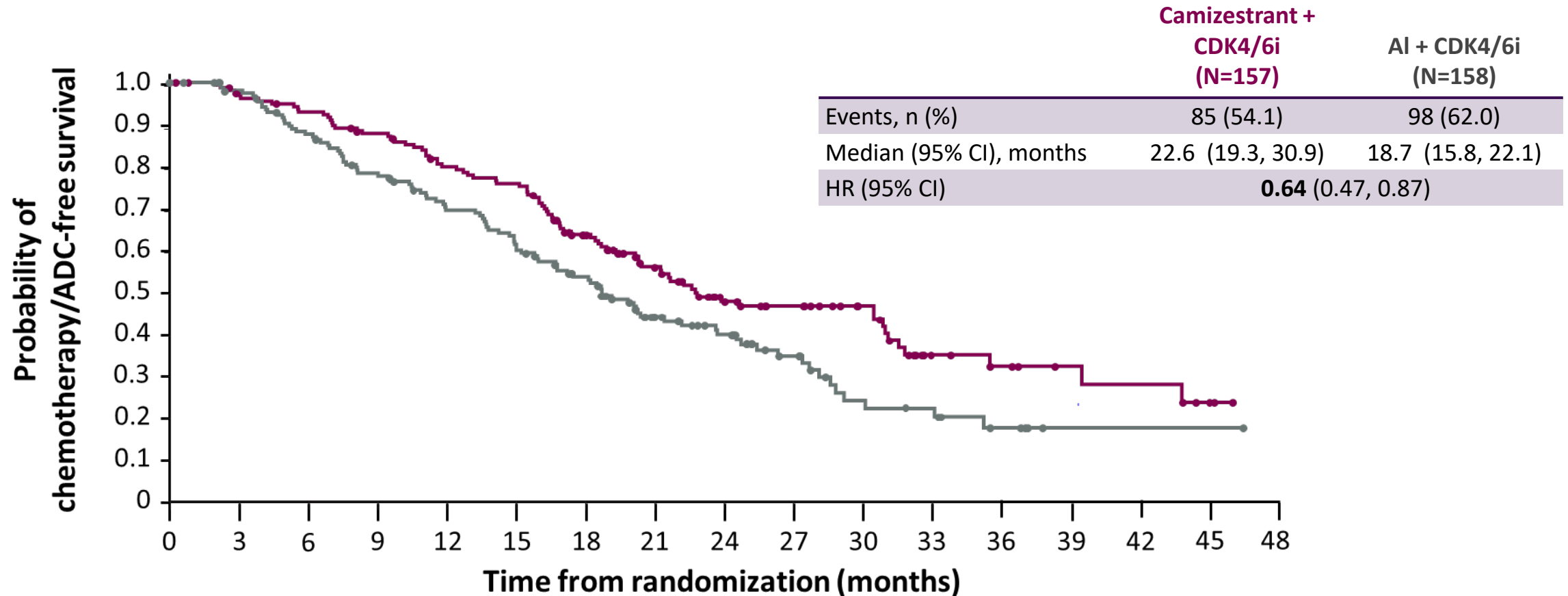
c. Primary analysis at DCO1.

d. PFS2 defined per EMA guideline on the evaluation of anticancer medicinal products in man, primary analysis at DCO3.

e. Clinical or objective PD; 170 patients had a second progression event (PFS2) at DCO3.

# Chemotherapy/ADC-Free Survival Is Prolonged

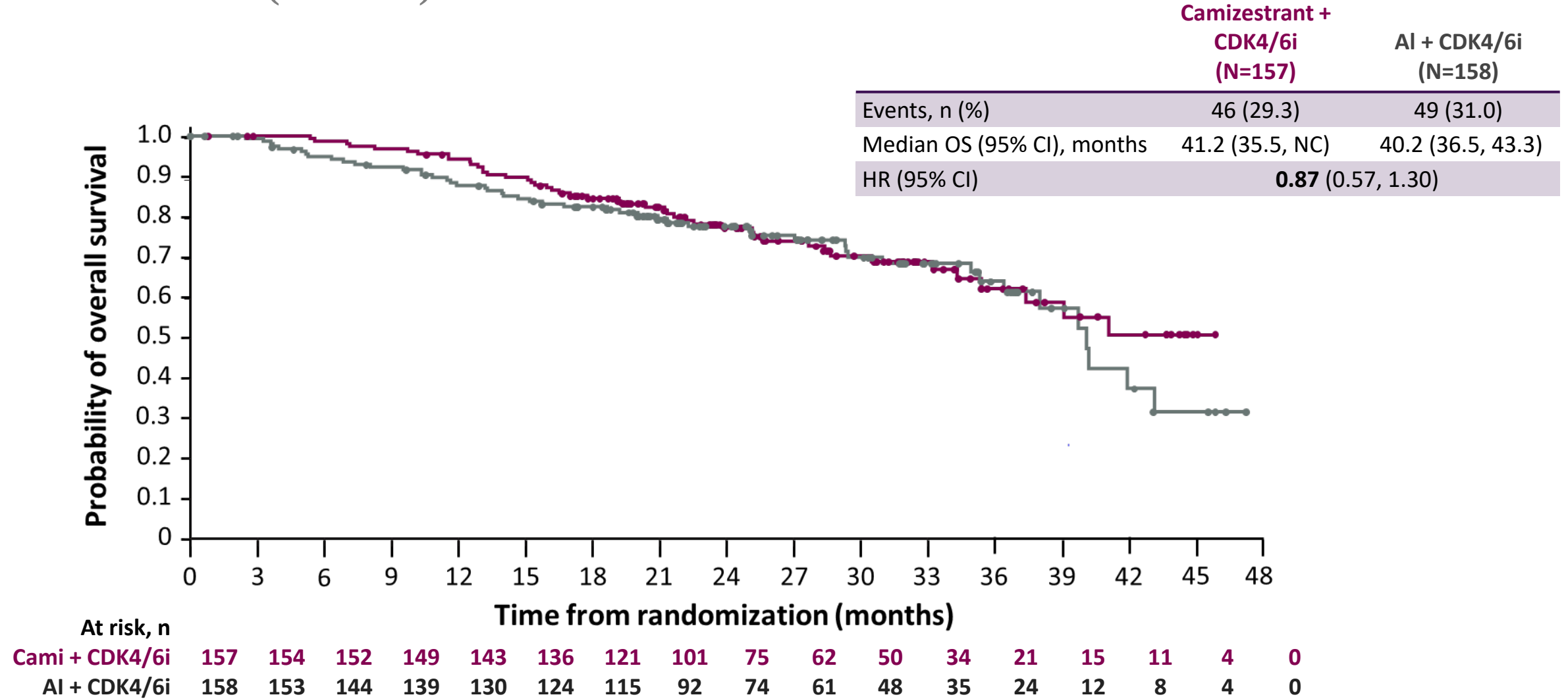
## SERENA-6 (DCO3)



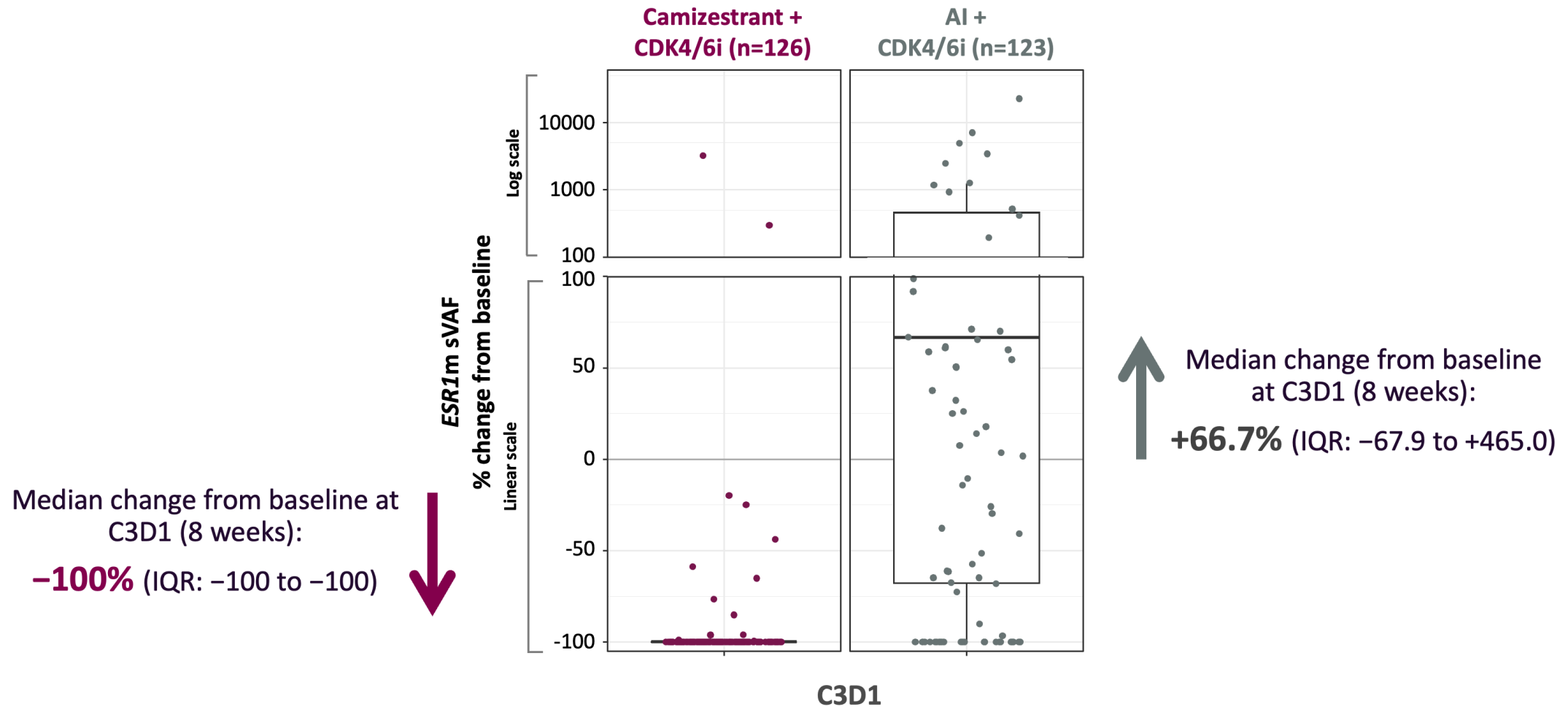
At risk, n	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48
Cami + CDK4/6i	157	149	141	131	117	111	85	65	43	36	28	13	10	7	6	3	0
AI + CDK4/6i	158	149	131	115	99	85	69	45	35	22	12	10	5	1	1	1	0

# Overall Survival

## SERENA-6 (DCO3)



# Camizestrant + CDK4/6i Profoundly Reduces *ESR1*m ctDNA

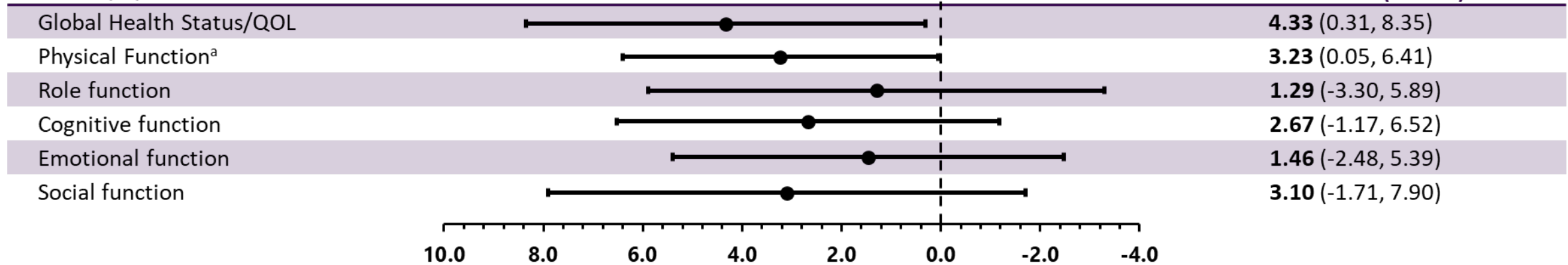


# Patient-Reported Outcomes Favor Camizestrant

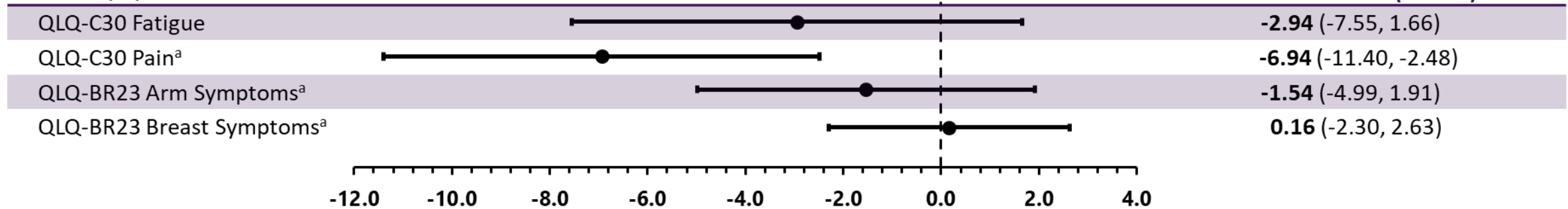
## Model-Adjusted Mean Change From Baseline Over First 28 Weeks

Favors Camizestrant + CDK4/6i      Favors AI + CDK4/6i

### EORTC QLQ-C30



### EORTC QLQ-C30 & BR23



a. Prespecified secondary endpoints.

Estimates were obtained using a mixed model repeated measures (MMRM) analysis, including treatment, visit, and treatment-by-visit interaction as exploratory variables and the baseline score and the baseline score by visit interaction as covariates. Reprinted from *Ann Oncol*, 37(2), Mayer EL, et al. Patient-reported outcomes in the SERENA-6 trial of camizestrant plus CDK4/6 inhibitor in patients with advanced breast cancer and emergent ESR1 mutations during first-line endocrine-based therapy, 180-193, Copyright 2026, with permission from Elsevier.

## Summary

- SERENA-6 is an innovative study using cutting-edge technology
  - Design was aligned with the FDA and global health authorities
- Switching to camizestrant with continued CDK4/6i upon *ESR1m* detection demonstrated
  - Statistically significant and clinically meaningful 56% reduction in the risk of progression or death compared with AI + CDK4/6i (HR=0.44, P<0.00001)
    - Consistent PFS benefit across subgroups
  - Statistically significant and clinically meaningful PFS2 results (HR=0.63, P=0.0037)
  - No OS detriment (HR=0.87)
- PRO data further support the positive benefit/risk assessment



# SERENA-6 Clinical Safety

**Andrew Walding, MSc**

Global Safety Head – Camizestrant

AstraZeneca



# Safety Profile of Camizestrant 75 mg Is Well-Characterized

Completed studies provide a robust supportive safety pool (N=380)

	Camizestrant + CDK4/6i combination	Camizestrant monotherapy
<b>Total</b>	<b>263</b>	<b>117</b>
SERENA-1	108 <sup>a</sup>	24 <sup>b</sup>
SERENA-2		74
SERENA-6	155	
Japan Phase I		7
China Phase I		12

- >6000 patients exposed to camizestrant across early and advanced breast cancer
- Over 3000 patients with >1 yr exposure to camizestrant, including some with >4 yrs

**SERENA-6 safety pool is of sufficient size to enable characterization of AEs**

a. SERENA-1 parts C, D, G, H, K, and L.

b. SERENA-1 parts A and B.

# Exposure and Dose Intensity

## SERENA-6

	Camizestrant + CDK4/6i (N=155)	AI + CDK4/6i (N=155)
<b>Median treatment exposure, months</b>		
Camizestrant/AI	10.1	6.3
CDK4/6i	9.8	6.1
<b>Median relative dose intensity,<sup>a</sup> %</b>		
Camizestrant/AI	99.6	99.7
CDK4/6i	98.8	99.5

**60% longer median exposure in camizestrant arm; no impact on the CDK4/6i dose intensity**

# Overview of Safety Profile

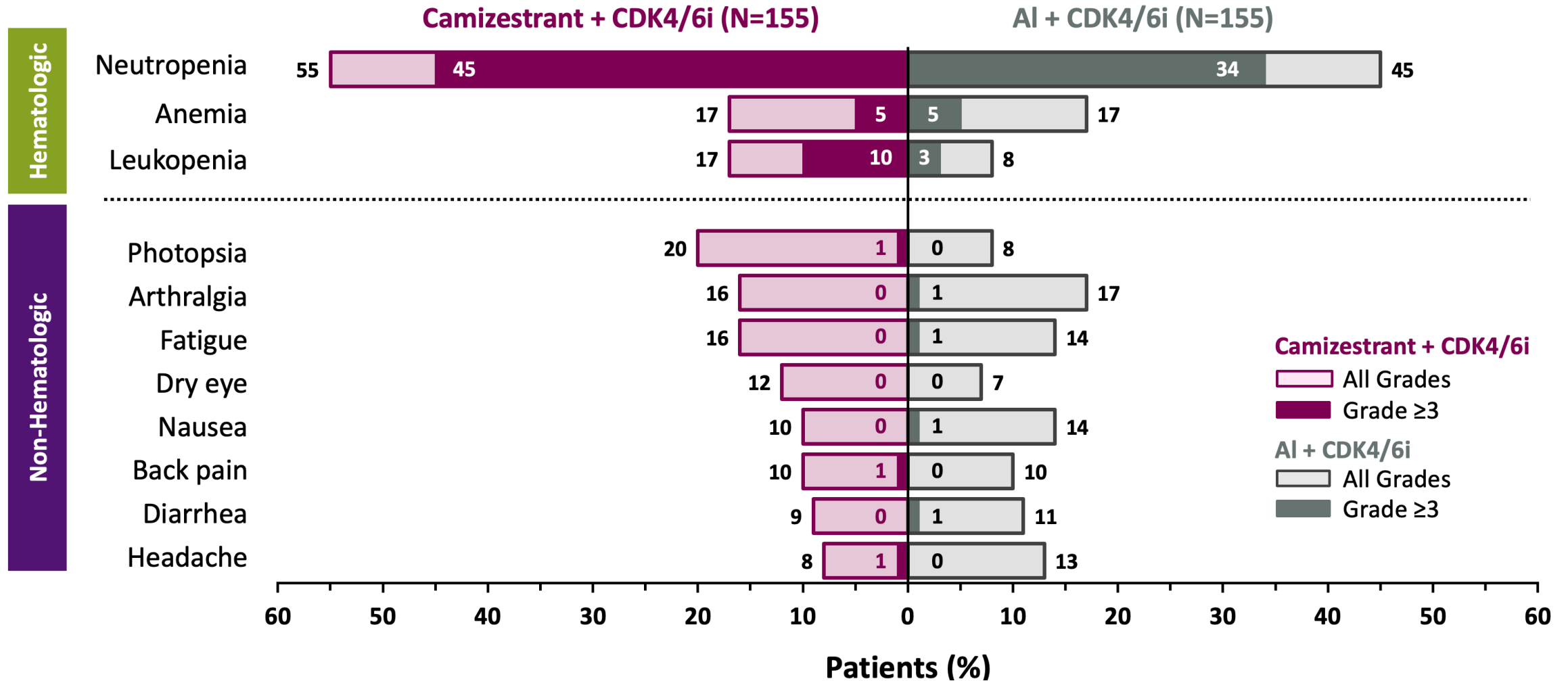
## SERENA-6

	Patients, n (%)	
	Camizestrant + CDK4/6i (N=155)	AI + CDK4/6i (N=155)
<b>Any adverse event (AE)</b>	145 (94)	135 (87)
AEs of CTCAE Grade $\geq 3$	93 (60)	71 (46)
Serious AEs	16 (10)	19 (12)
AEs leading to death	2 (1)	1 (1)
AEs leading to discontinuation		
Camizestrant/AI	2 (1)	3 (2)
CDK4/6i	2 (1)	2 (1)
AEs leading to dose reduction		
Camizestrant/AI <sup>a</sup>	9 (6)	2 (1)
CDK4/6i	18 (12)	17 (11)
AEs leading to dose interruption		
Camizestrant/AI	34 (22)	22 (14)
CDK4/6i	75 (48)	53 (34)

a. Dose reductions in the AI arm apply to camizestrant placebo.

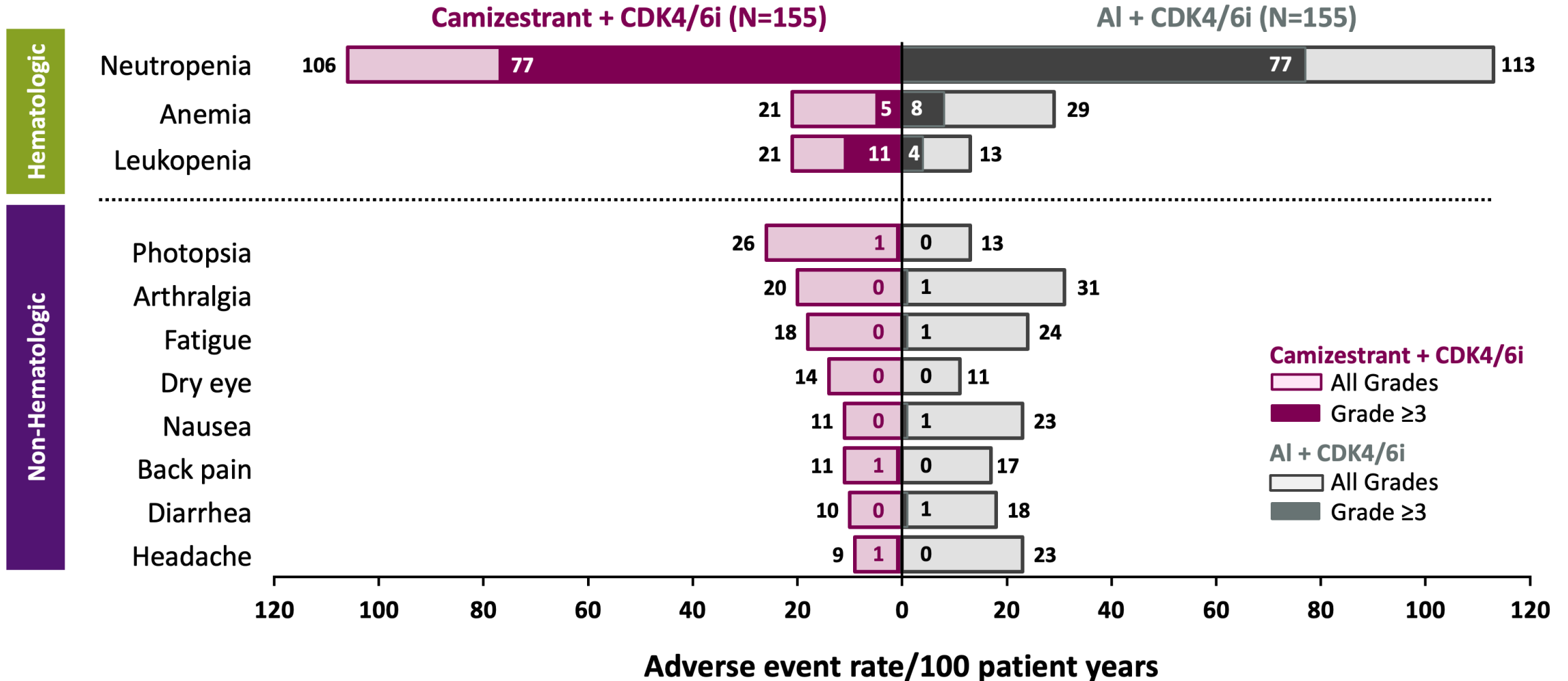
# Most Common Adverse Events ( $\geq 10\%$ of Patients) by Grade

## SERENA-6



# Exposure-Adjusted Incidence of AEs by Grade

## SERENA-6



Exposure-adjusted incidence rates were calculated as the total number of patients who had an AE reported, divided by the total number of days at risk for AEs across all subjects in each arm, multiplied by 365.25 and then by 100.

# ADR: Reversible, Sinus Rhythm Bradycardia

Grouped term/preferred term <sup>a</sup>	Patients, n (%)	
	Camizestrant + CDK4/6i (N=155)	AI + CDK4/6i (N=155)
<b>Bradycardia<sup>b</sup></b>	<b>12 (7.7)</b>	<b>0</b>
Bradycardia	8 (5.2)	0
Sinus bradycardia	4 (2.6)	0

- Camizestrant lowers heart rate through HCN4 “pacemaker channel” in the sinoatrial node
- Median decrease in heart rate of 14 bpm from baseline to Day 15, reaching a stable nadir at that time
  - Magnitude of effect is dependent on baseline heart rate (ie, small effect for those with low baseline heart rate)
  - Heart rate recovered to baseline at the safety follow-up

a. MedDRA preferred term coded from investigator verbatim reported term.

b. Adverse Drug Reaction grouping.

## Camizestrant + Ribociclib Combination

- Camizestrant monotherapy has no independent effect on QT interval at clinically relevant doses
  - High-quality clinical QTc study using 24-hr Holter monitoring, in line with international guidelines
- Mechanisms of camizestrant-mediated bradycardia and ribociclib-mediated QTc prolongation are distinct
- Camizestrant + ribociclib studied in 83 patients in SERENA-1 and SERENA-6
  - No significant QTc prolongation or arrhythmias in SERENA-6
  - 1 Grade 4 QT prolongation AE in SERENA-1
    - Event heavily confounded; ribociclib not interrupted when QTcF >550 ms, contrary to ribociclib dose-modification requirements

# ADR: Reversible, Transient Peripheral Visual Effects

Grouped term/preferred term	Patients, n (%)	
	Camizestrant + CDK4/6i (N=155)	AI + CDK4/6i (N=155)
<b>Visual effects<sup>a</sup></b>	<b>49 (31.6)</b>	<b>25 (16.1)</b>
Photopsia	31 (20.0)	12 (7.7)
Vision blurred	11 (7.1)	11 (7.1)
Visual impairment	6 (3.9)	3 (1.9)
Diplopia	3 (1.9)	2 (1.3)
Photophobia	3 (1.9)	0
Visual perseveration	2 (1.3)	0

- Mostly (~90%) Grade 1 with few (2.6%) dose interruptions
- Early onset, reversible, non-structural effect
- Comprehensive ocular exams<sup>b</sup> showed
  - No evidence of structural effects on the eye
  - No change in visual acuity or visual fields attributed to camizestrant

a. Adverse Drug Reaction grouping.

b. Comprehensive visual exams included assessment of visual field, best corrected distance visual acuity, intraocular pressure, optical coherence tomography (OCT), and funduscopy.

## Summary of Safety

- Camizestrant + CDK4/6 inhibitor demonstrated a favorable safety profile
- Well-tolerated, with a low treatment discontinuation rate due to AEs
- Safety profile of camizestrant + CDK4/6 inhibitor combination is consistent with clinical experience of camizestrant and each CDK4/6 inhibitor
- Despite longer exposure on the camizestrant arm, patients report that AEs were not bothersome, with no or minimal impact of AEs on activities of daily living

# Clinical Perspective

**Kevin Kalinsky, MD, MS, FASCO**

Emory University School of Medicine

Director of the Glenn Family Breast Center at Winship Cancer Center



# Patient Case



45-year-old female diagnosed with *de novo* metastatic breast cancer to bone only

June 2021

• **Bone biopsy:**  
ER 99% PgR 79%  
HER2-negative

• **ctDNA at baseline:**  
no actionable mutation

Lupron + letrozole +  
ribociclib + denosumab

June 2024

• **Clinical progression:**

New back pain  
with T4 lesion,  
received xRT  
for 5 fractions

• **ctDNA at progression:**  
*ESR1* mutation



Several options discussed:

- Single-agent oral SERD
- Fulvestrant + everolimus
- Fulvestrant + abemaciclib

She opted for fulvestrant +  
abemaciclib

# Patient Concerns and Treatment Goals

“

I have been checking monthly tumor markers (CEA, CA15-3, CA27-29), but these always remained normal for me.

“

I was doing scans every 3-4 months.

“

What other tests could I have done to detect a change before I developed back pain?

## Treatment goals important to my patients

- Delay disease progression
- Palliate disease symptoms
- Delay need for chemotherapy
- Prolong survival
- Maintain good quality of life

# Why I Would Incorporate the SERENA-6 Approach

**SERENA-6 is a positive study, demonstrating a favorable benefit/risk**

## Disease Biology

- *ESR1m* is a key driver of AI resistance and is actionable
- Tumors are most sensitive to endocrine therapy before clinical progression

## Extend Benefit of 1L Therapy

- 56% reduction in risk of progression/death
- Extended benefit of 1L ET + CDK4/6i
- Maximizes time on well-tolerated endocrine therapy

## Delay IV Treatment

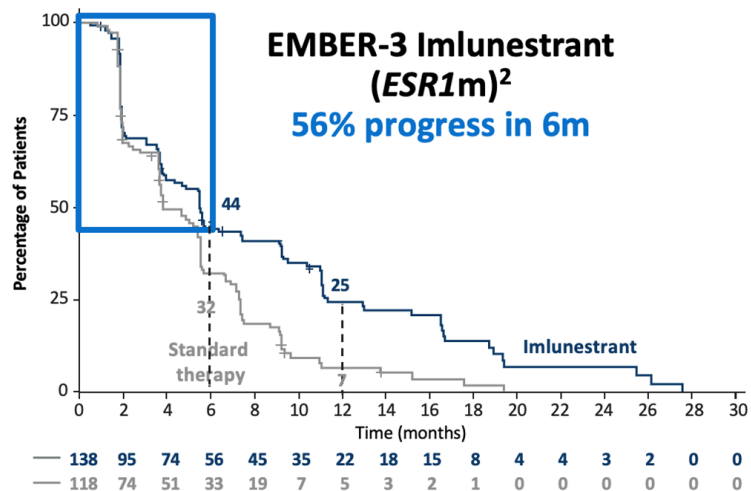
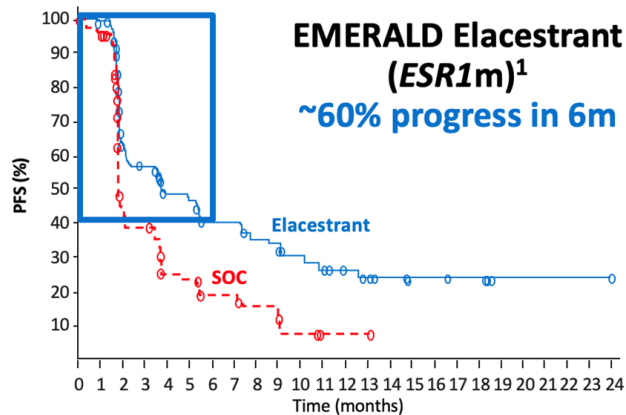
- Chemotherapy and ADC often more toxic
- Time in the infusion center can be burdensome

## Maintain QoL

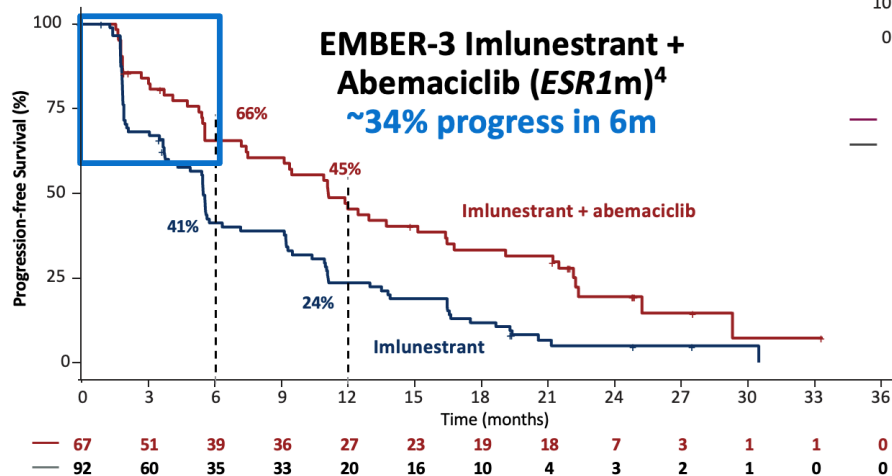
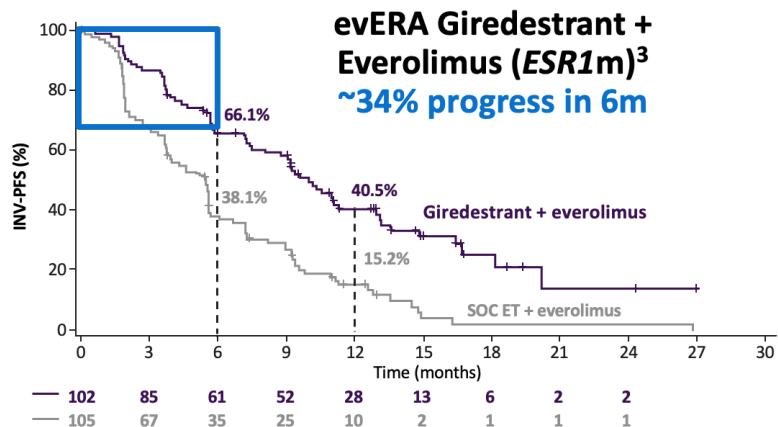
- Delayed onset of disease-related symptoms (eg, pain) and decline in physical function and emotional well-being

# Disease Biology: Tumors Most Sensitive to ET Before Clinical Progression

## Approved 2L Novel SERD MonoTx

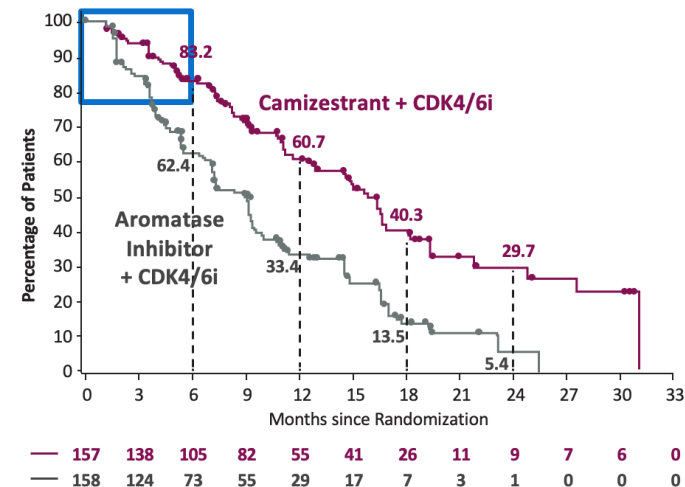


## Data from 2L Novel SERD Combos (Unapproved)



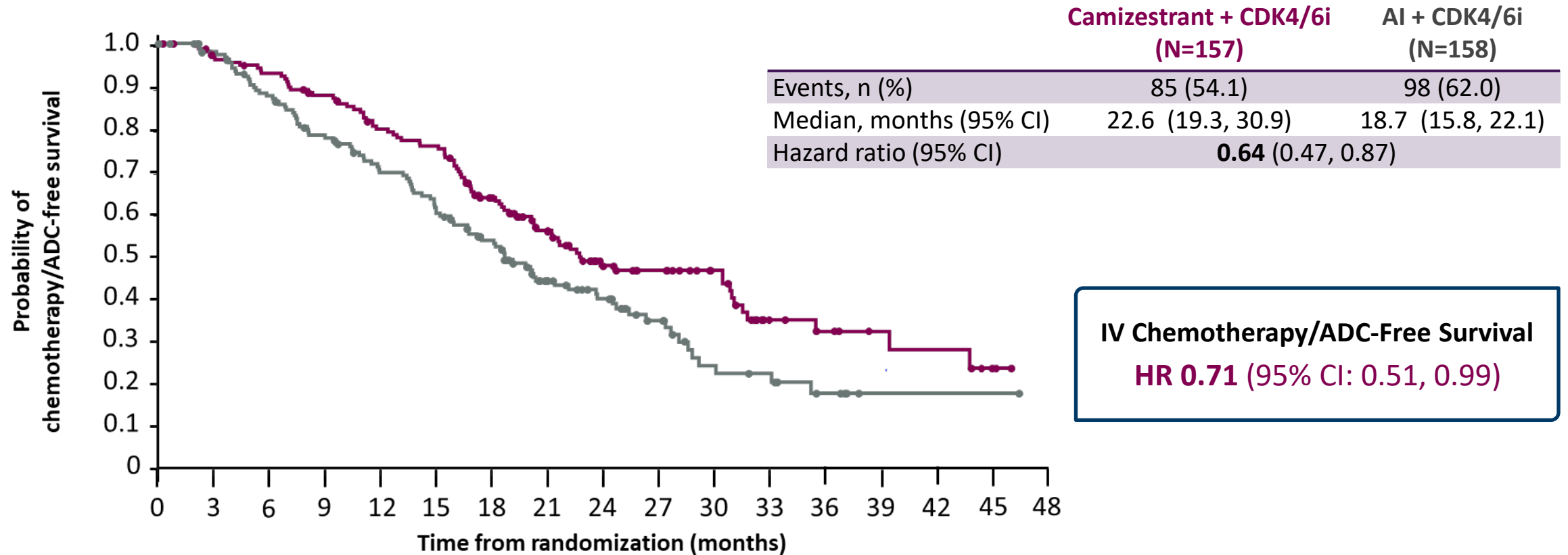
## 1L ET-Switch to camizestrant

### SERENA-6 Camizestrant + CDK4/6i (ESR1m)<sup>5</sup> 17% progress in 6m



1. Bidard F-C, et al. Elacestrant (oral selective estrogen receptor degrader) versus standard endocrine therapy for estrogen receptor–positive, human epidermal growth factor receptor 2–negative advanced breast cancer: results from the randomized phase III EMERALD trial. *J Clin Oncol* (an American Society of Clinical Oncology journal). 2022;40(28):3246-3256, [https://ascopubs.org/doi/10.1200/JCO.2022.00338?url\\_ver=Z39.88-2003&rfr\\_id=ori:rid:crossref.org&rfr\\_dat=cr\\_pub%20pubmed](https://ascopubs.org/doi/10.1200/JCO.2022.00338?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%20pubmed); 2. Reprinted from *N Engl J Med*. Jhaveri KL, et al. Imlunestrant with or without abemaciclib in advanced breast cancer: updated efficacy results from the phase III EMBER-3 trial, 392(12), 1189-1202, Copyright 2025 Massachusetts Medical Society; 3. Reprinted with permission from Mayer E, et al. ESMO 2025. Abstract LBA16; 4. Reprinted from *Ann Oncol*, 37(4), Jhaveri KL, et al. Imlunestrant with or without abemaciclib in advanced breast cancer: updated efficacy results from the phase III EMBER-3 trial, 532-543, Copyright 2026, with permission from Elsevier; 5. Reprinted from *N Engl J Med*, Bidard F-C, et al. First-line camizestrant for emerging ESR1-mutated advanced breast cancer, 393, 569-580, Copyright 2025 Massachusetts Medical Society. Reprinted with permission from Massachusetts Medical Society.

# Prolonging Chemotherapy/ADC-Free Survival

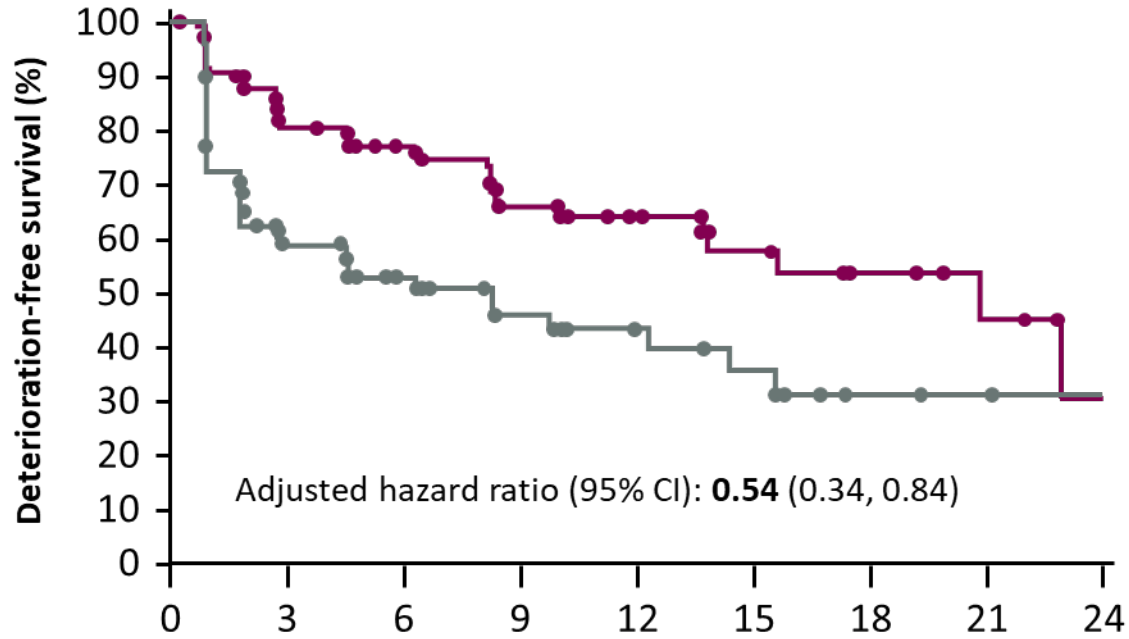


At risk, n	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48
Cami + CDK4/6i	157	149	141	131	117	111	85	65	43	36	28	13	10	7	6	3	0
AI + CDK4/6i	158	149	131	115	99	85	69	45	35	22	12	10	5	1	1	1	0

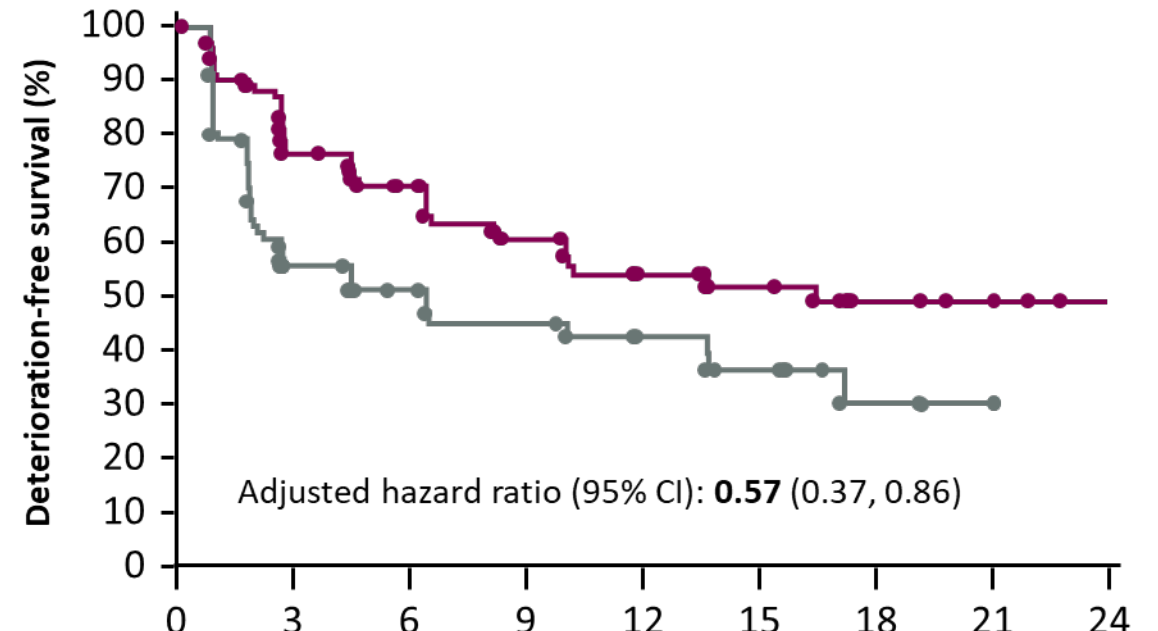


# Delaying Time to Deterioration in Patient-Reported EORTC QLQ-C30 Global Health Status/QoL and Pain

**Global Health Status/QoL**



**Pain**

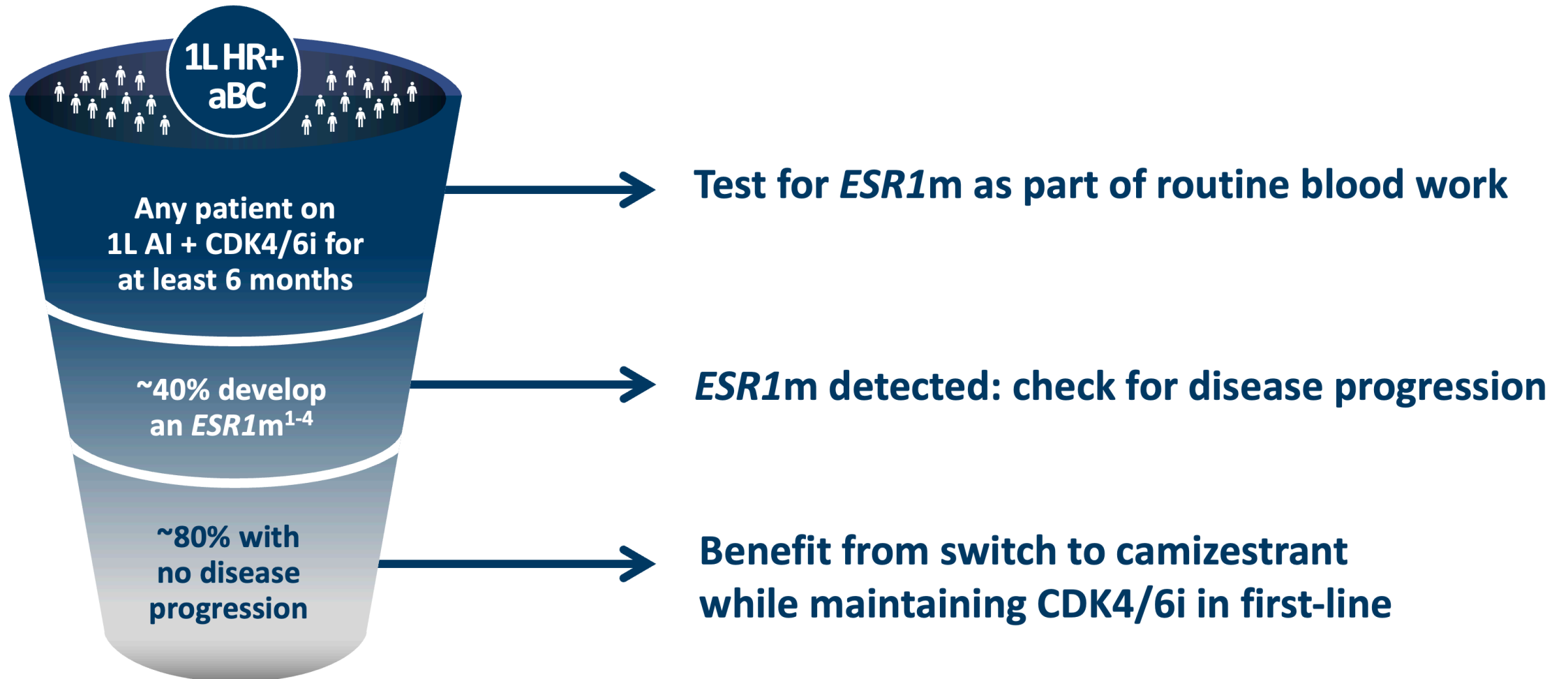


At risk, n	0	3	6	9	12	15	18	21	24
<b>Cami + CDK4/6i</b>	<b>107</b>	<b>72</b>	<b>59</b>	<b>40</b>	<b>24</b>	<b>16</b>	<b>9</b>	<b>5</b>	<b>2</b>
<b>AI + CDK4/6i</b>	<b>95</b>	<b>42</b>	<b>27</b>	<b>17</b>	<b>11</b>	<b>8</b>	<b>3</b>	<b>2</b>	<b>1</b>

At risk, n	0	3	6	9	12	15	18	21	24
<b>Cami + CDK4/6i</b>	<b>106</b>	<b>67</b>	<b>54</b>	<b>39</b>	<b>30</b>	<b>21</b>	<b>11</b>	<b>9</b>	<b>6</b>
<b>AI + CDK4/6i</b>	<b>94</b>	<b>39</b>	<b>26</b>	<b>21</b>	<b>14</b>	<b>10</b>	<b>4</b>	<b>2</b>	<b>0</b>

The analysis population is a subset of the full analysis set and includes all randomized patients with a baseline score that would allow deterioration, plus at least 1 evaluable post-baseline assessment. Reprinted from *Ann Oncol*, 37(2), Mayer EL, et al. Patient-reported outcomes in the SERENA-6 trial of camizestrant plus CDK4/6 inhibitor in patients with advanced breast cancer and emergent ESR1 mutations during first-line endocrine-based therapy, 180-193, Copyright 2026, with permission from Elsevier.

# Taking Action to Stay Ahead of Progression in Patients Suitable for the SERENA-6 Approach



# I Would Recommend the SERENA-6 Approach to My Patients

**SERENA-6 trial demonstrated a positive benefit/risk,  
and this paradigm shift addresses patients' treatment goals**

**Switching to camizestrant + CDK4/6i  
at emergence of *ESR1m***

- ✓ Prolongs 1L ET+CDK4/6i by 7 months
- ✓ 1/3 pts progression-free at 2 years
- ✓ Extends overall time on endocrine therapies
- ✓ Delays need for chemotherapy/ADCs
- ✓ Delays deterioration in QoL
- ✓ Well-tolerated

**Encourages more active  
patient engagement**

- Easy to implement
- Empowers patients to adjust treatment before disease progression or worsening symptoms



# Concluding Remarks

**Ingrid Mayer, MD, MSCI**

VP, Global Clinical Strategy Head, Breast/GYN Cancers  
Late Development Oncology, Research & Development  
AstraZeneca



# SERENA-6: A New Treatment Paradigm for *ESR1m* HR+ HER2- Advanced Breast Cancer

## Positive Benefit/Risk for Patients

