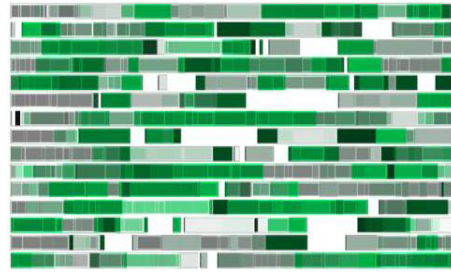


III JORNADA TRASLACIONAL DE ONCOLOGÍA DE PRECISIÓN:

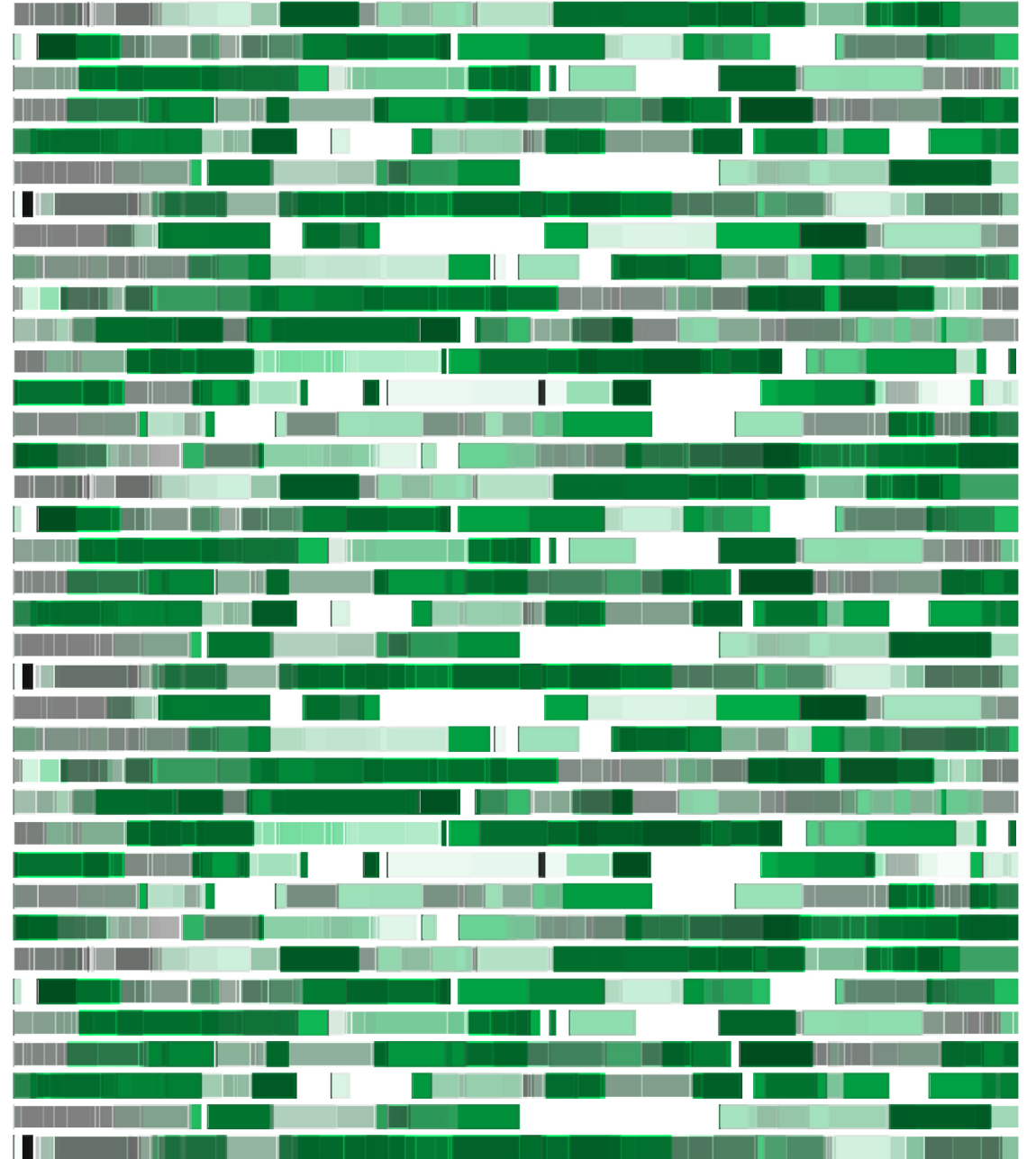
A TRAVÉS DE LAS VÍAS DE SEÑALIZACIÓN
SEVILLA, 12 Y 13 DE FEBRERO DE 2026



PAPEL ACTUAL DE LOS SERD EN CÁNCER DE MAMA LUMINAL METASTÁSICO

Josefina Cruz Jurado

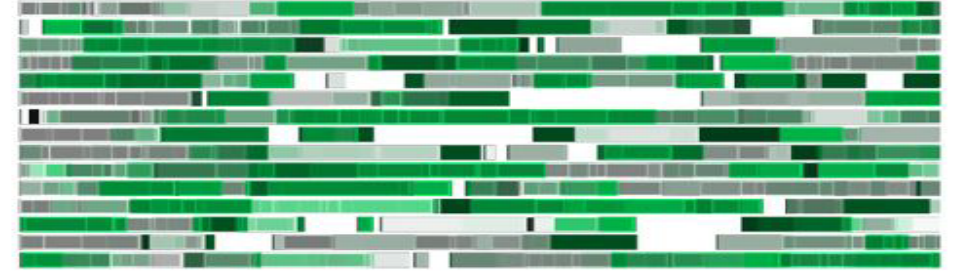
Unidad de mama. Oncología médica. HUC Tenerife



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DISCLOSURES

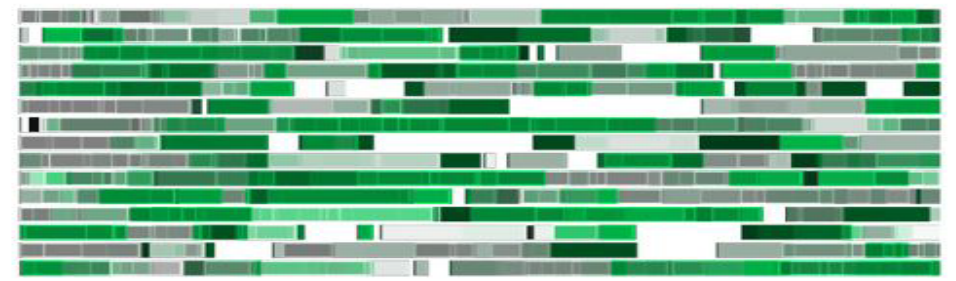


Entity: Glaxo, AstraZeneca, Roche, Novartis, Pharmamar, Eisai, Lilly, Pierre Fabre, Daichii Sankyo, Seagen, Gilead, Deciphera and Pfizer (speaker honoraria).

Consultant/advisory role: Entity: AstraZeneca, Roche, Gilead, Novartis, Pharmamar, Eisai, Lilly, Pfizer, Seagen and Daichii Sankyo, Deciphera

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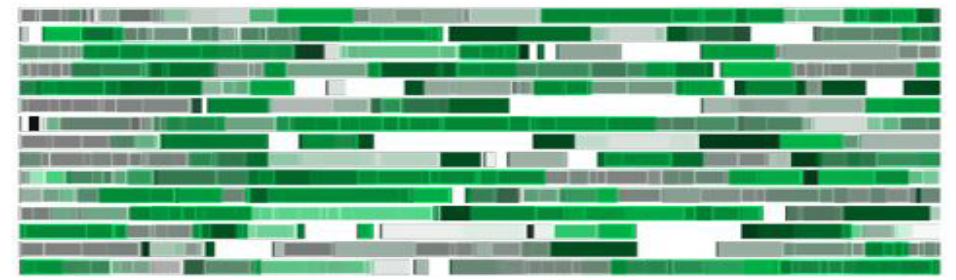
GUÍAS ESMO ENFERMEDAD LUMINAL AVANZADA

Al diagnóstico precisamos

- | | |
|---|---------------------------------------|
| <ul style="list-style-type: none">• In HR-positive, HER2-negative MBC:<ul style="list-style-type: none">○ HER2-ultralow status by IHC○ PIK3CA [ESCAT score: I-A], AKT1/PTEN [ESCAT I/II] and ESR1 [ESCAT score: I-A] (after AI treatment) mutational status | <p>II, A</p> <p>I, A</p> |
| <ul style="list-style-type: none">• In HER2-negative MBC:<ul style="list-style-type: none">○ HER2-low status by IHC/ISH○ Germline BRCA1/2 [ESCAT score: I-A]○ Germline PALB2 [ESCAT II-B] mutational status | <p>I, A</p> <p>I, A</p> <p>III, C</p> |

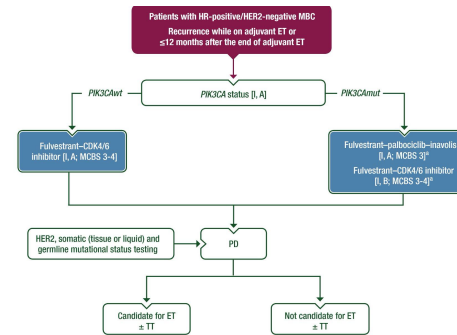
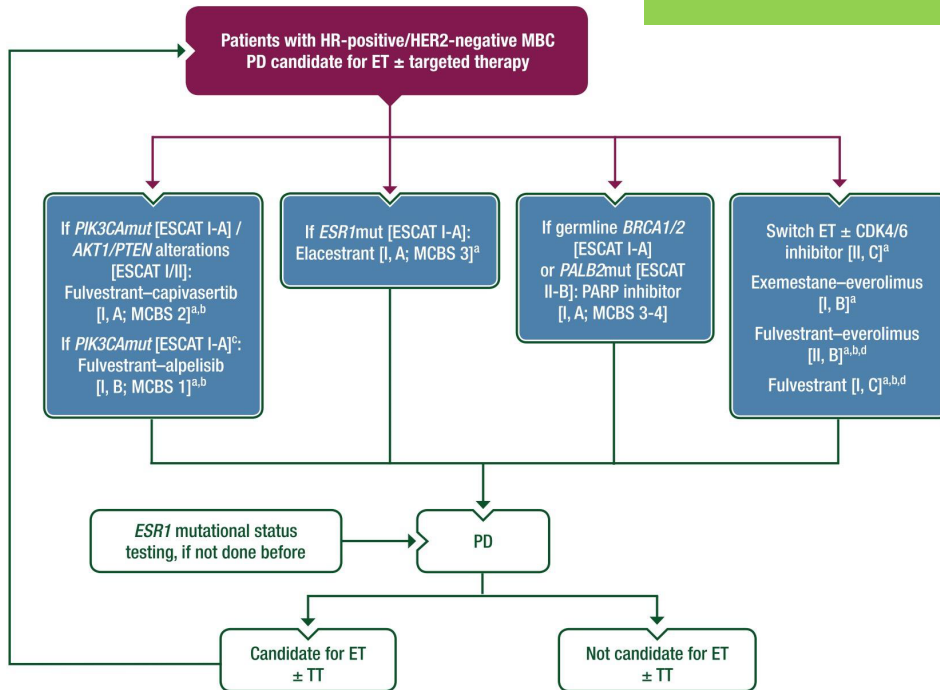
III JORNADA TRASLACIONAL DE ONCOLOGÍA DE PRECISIÓN:

A TRAVÉS DE LAS VÍAS DE SEÑALIZACIÓN
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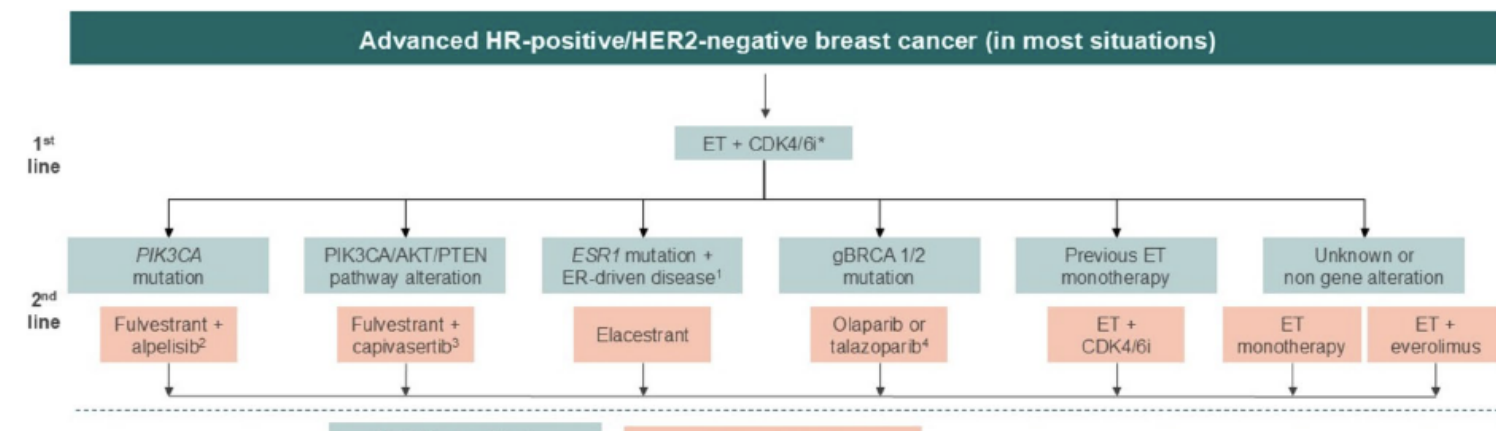
TRAS FALLO A 1º LÍNEA CON CDK4/6

GUIAS ESMO



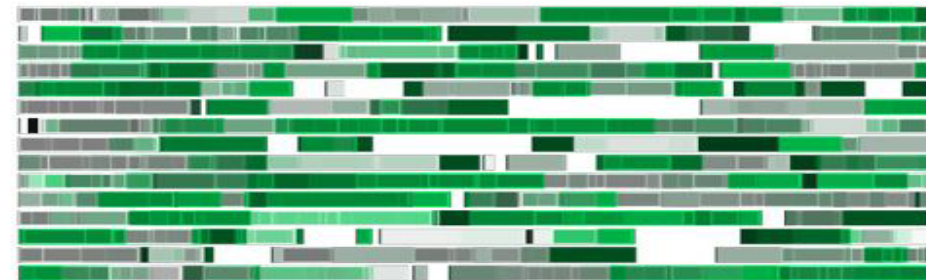
GUIAS GEICAM SOLTI

Clinical and Translational Oncology (2026) 28:126–147



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A TRAVÉS DE LAS VÍAS DE SEÑALIZACIÓN
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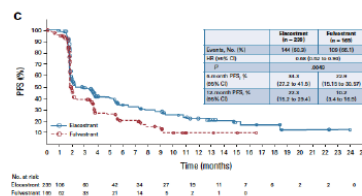


NECESIDAD CLÍNICA NO CUBIERTA

- Resistencia endocrina tras CDK4/6i
- Limitaciones de IA y fulvestrant
- Mutaciones ESR1 como mecanismo central

Fulvestrant tras CDKI...

Fulvestrant monotherapy has been evaluated as a control arm in two prospective trials post-CDK4/6i use. In the Phase III EMERALD study, all patients had progressed on 1–2 lines of endocrine therapy, including one in combination with a CDK4/6i. The fulvestrant monotherapy control arm had a median PFS of 1.9 months (95% CI 1.87–2.1). Patients had a 6-month PFS rate of 22.9% and a 12-month PFS rate of 10.2%]. .



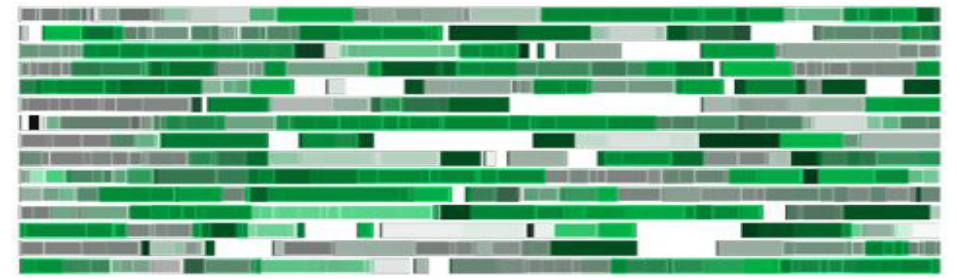
In VERONICA, a phase II study of VEN + F vs F in ER-positive, HER2-negative LA/MBC. Fulvestrant monotherapy was also associated with a clinical benefit rate of 13.7% and a PFS of 1.94 months (95% CI 1.84–3.55), suggesting a limited utility of this option post-front-line endocrine therapy

Table 3. List of genomic alterations level I/II according to ESCAT in advanced breast cancer

Gene	Alteration	Estimated prevalence	ESCAT score	Drug class matched	References
ERBB2	Amplifications	15%-20%	IA	Anti-HER2 monoclonal antibodies HER2 TKIs Anti-HER2 ADCs	Baselga et al., <i>N Engl J Med</i> 2012 ⁵⁵ Krop et al., <i>Lancet Oncol</i> 2014 ⁵⁶ Lin et al., <i>J Clin Oncol</i> 2020 ⁵⁷ Saura et al., <i>J Clin Oncol</i> 2020 ⁵⁸ Rugo et al., <i>JAMA Oncol</i> 2021 ⁵⁹
	Hotspot mutations	4%	IIB	Pan-HER TKIs Anti-HER2 ADCs	Hyman et al., <i>Nature</i> 2018 ⁵¹ Smyth et al., <i>Cancer Discov</i> 2020 ⁶⁰ Li et al., <i>Ann Oncol</i> 2023 ⁶¹
PIK3CA	Hotspot mutations	30%-40%	IA (ER-positive HER2-negative ABC)	α-specific PI3K inhibitors*	André et al., <i>N Engl J Med</i> 2019 ⁶² Rugo et al., <i>Lancet Oncol</i> 2021 ⁶³ Turner et al., <i>N Engl J Med</i> 2023 ⁶⁴
ESR1	Mutations	30%-40%	IA (ER-positive HER2-negative ABC)	SERDs	Bidard et al., <i>J Clin Oncol</i> 2022 ⁶⁴ Bardia et al., <i>Cancer Res</i> 2023 ⁶⁵
BRCA1/2	Germline pathogenic/likely pathogenic variants	4%	IA	PARP inhibitors	Litton et al., <i>N Engl J Med</i> 2018 ⁶⁶ Robson et al., <i>Eur J Cancer</i> 2023 ⁶⁷
PTEN	Somatic mutations	3%	IIB	PARP inhibitors	Tung et al., <i>J Clin Oncol</i> 2020 ⁶⁸
	Mutations/deletions	7%	I/II	AKT inhibitors	Schmid et al., <i>J Clin Oncol</i> 2020 ⁶⁹ Turner et al., <i>N Engl J Med</i> 2023 ⁷⁰
AKT1	Mutations (p. E17K)	5%	I/II	AKT inhibitors	Kalinsky et al., <i>JAMA Oncol</i> 2021 ⁷¹ Turner et al., <i>N Engl J Med</i> 2023 ⁷⁰
PALB2	Germline pathogenic/likely pathogenic variants	1%	IIB	PARP inhibitors	Tung et al., <i>J Clin Oncol</i> 2020 ⁶⁸ Gruber et al., <i>Nat Cancer</i> 2022 ⁷²

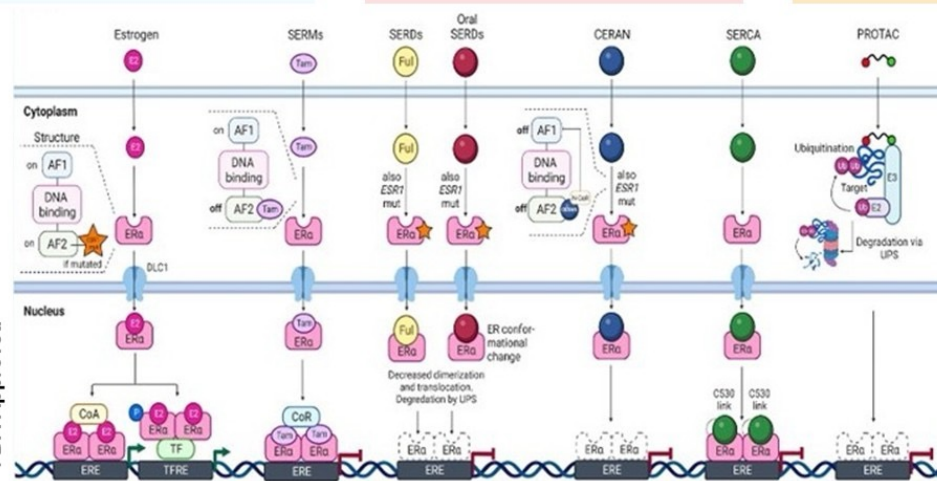
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Novel ER-Targeting Agents

SERD Selective Estrogen Receptor Degradar	PROTAC Proteolysis Targeting Chimera	CERAN Complete Estrogen Receptor Antagonist	Novel SERMs Selective Estrogen Receptor Modulators
Elacestrant*, Imlunestrant*, Giredestrant, Camizestrant	Vepdegestrant	Palazestrant	Lasofoxifene



Novel ER-DRIVEN agents differing in potency as **degraders vs. antagonistic activity**, which are in **different stages of development** and **different disease contexts**



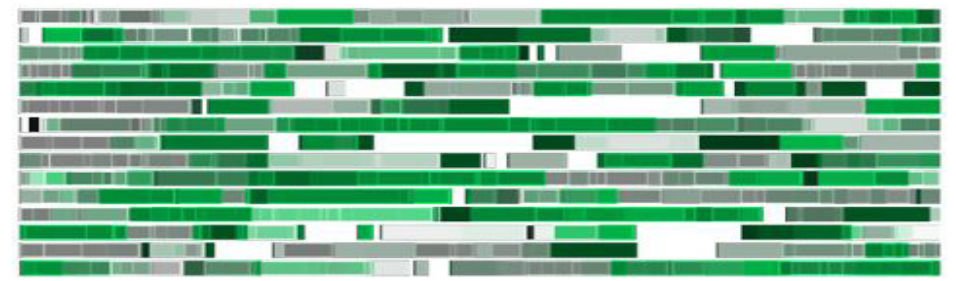
Adapted from Chiara Corti Cancer Treatment Reviews, 2023, 102569



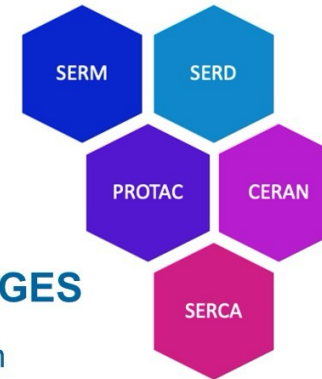
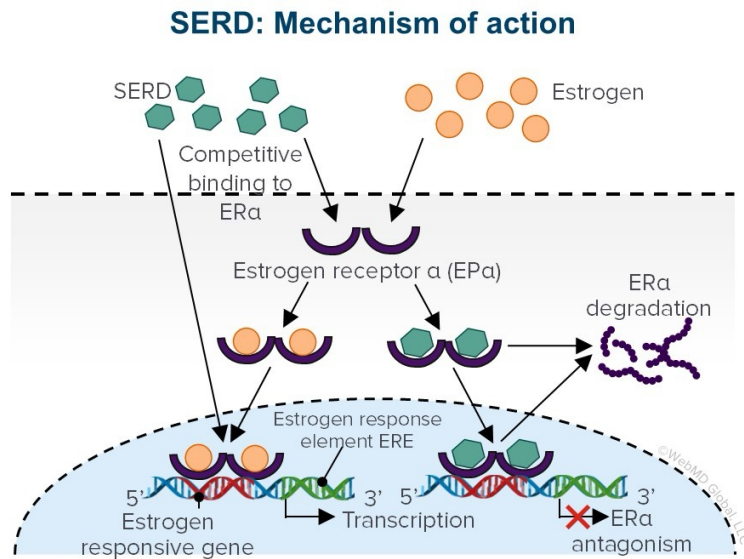
FDA Approved

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Oral SERDs: MOA May Address Endocrine Resistance in MBC

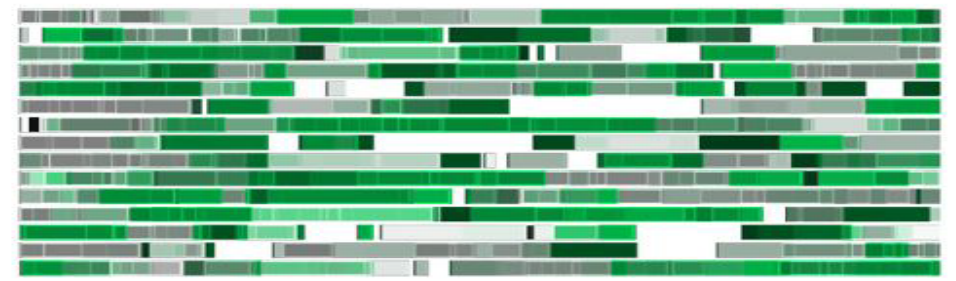


KEY ADVANTAGES

- ✓ Oral formulation
- ✓ Higher potency
- ✓ Activity in ESR1 mutant MBC
- ✓ Activity in post-ET and CDK4/6i treated patients

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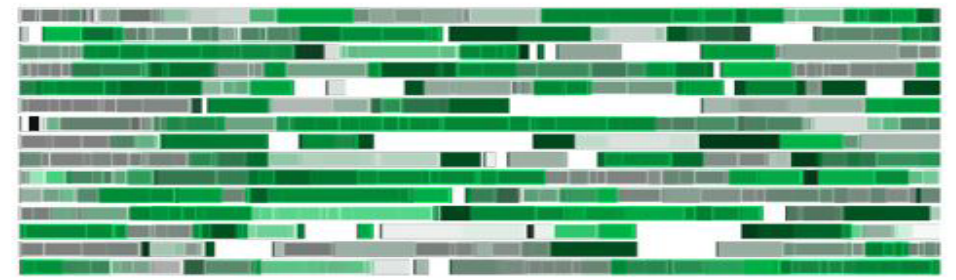


Novel Oral Endocrine Therapies

AGENT	DISEASE SETTING	SELECT ONGOING TRIALS
ORAL SERDs		
Elacestrant	Advanced/Metastatic	EMERALD, ELEVATE
	Adjuvant	ELEGANT
Giredestrant	Advanced/Metastatic	preservERA, aceIERA, evERA
	Neoadjuvant	coopERA
	Adjuvant	lidERA
Camizestrant	Advanced/Metastatic	SERENA-1,-2,-4, -6
	Neoadjuvant	SERENA-3
	Adjuvant	CAMBRIA-1, CAMBRIA-2
Imlunestrant	Advanced/Metastatic	EMBER
	Neoadjuvant	EMBER-2
	Adjuvant	EMBER-4
OTHER NOVEL AGENTS		
Vepdegestrant	Advanced/Metastatic	VERITAC-2, VERITAC-3
Palazestrant	Advanced/Metastatic	OPERA-1, OPERA-2
Lazofexefine	Advanced/Metastatic	ELAINE-1, ELAINE-2, ELAINE-3

III JORNADA TRASLACIONAL DE ONCOLOGÍA DE PRECISIÓN:

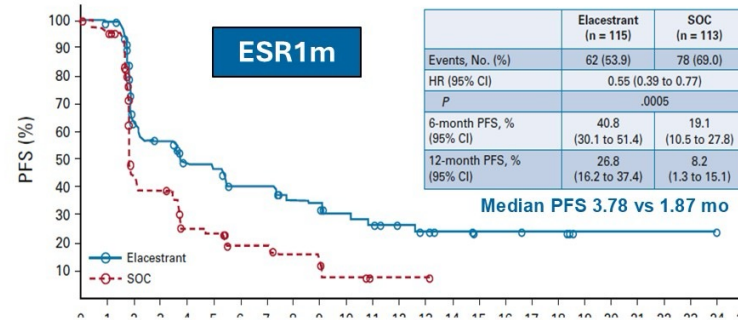
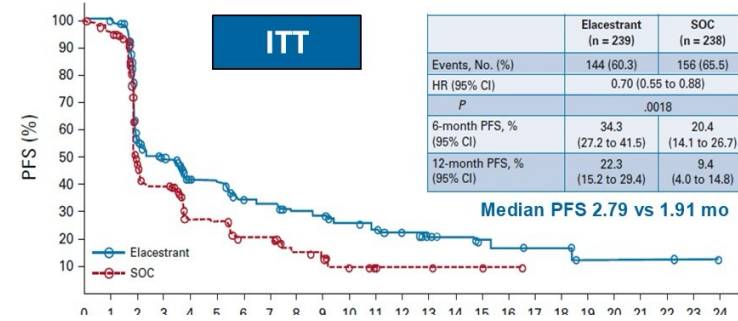
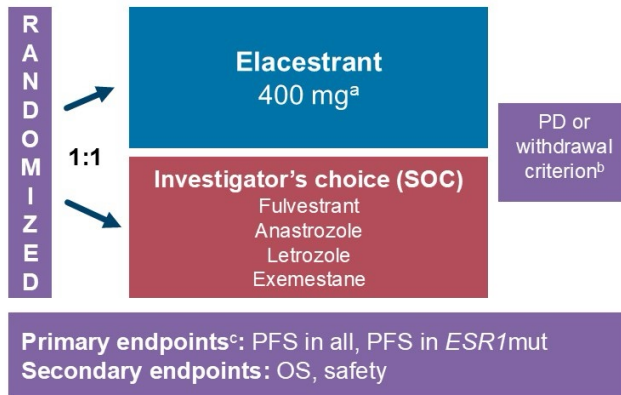
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Oral SERDs as monotherapy for pretreated HR+/HER2- MBC: EMERALD Phase 3 Study

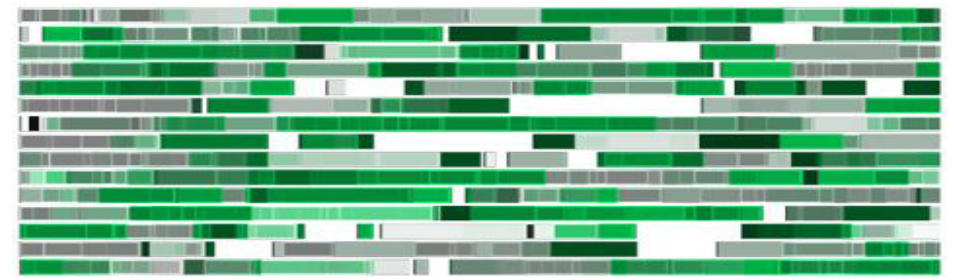
KEY ELIGIBILITY CRITERIA

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



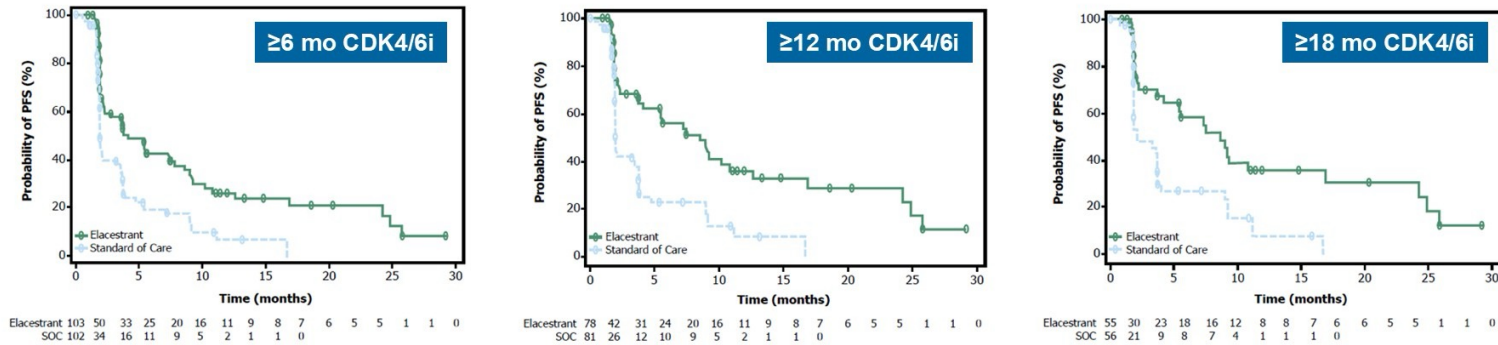
III JORNADA TRASLACIONAL DE ONCOLOGÍA DE PRECISIÓN:

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

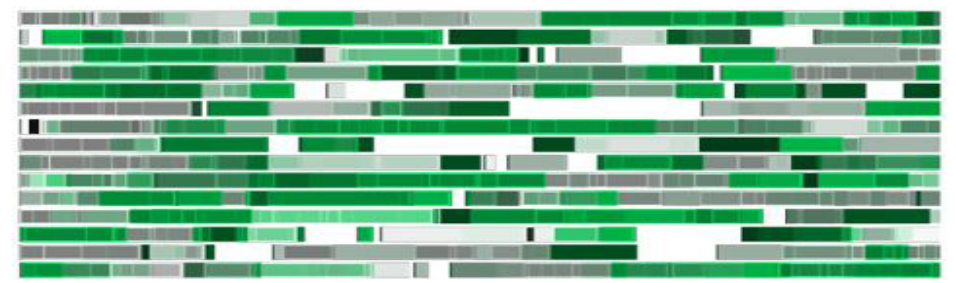
PFS by Duration of CDK4/6i in Patients With *ESR1*mut Tumors



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

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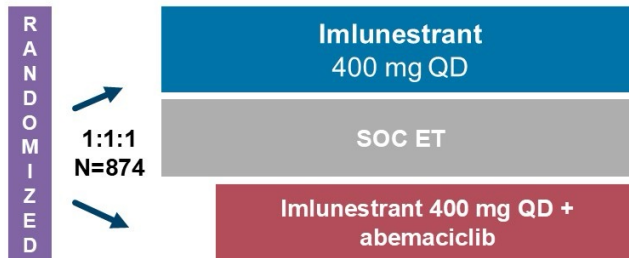
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Oral SERDs as monotherapy for pretreated HR+/HER2- MBC: EMBER-3 Phase 3 Study

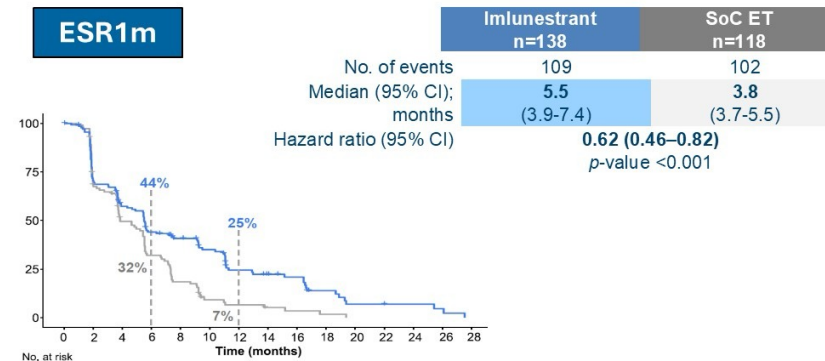
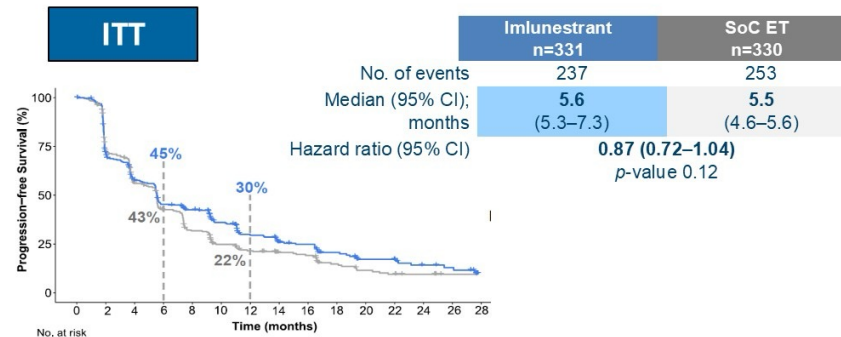
KEY ELIGIBILITY CRITERIA

- ER+/HER2- MBC
- 1-2 prior lines of ET +/- CDK4/6i
- ≤1 line of chemotherapy for MBC



Primary endpoints: PFS imlu vs SOC ITT, Imlu vs SOC ESR1, imlu + abema vs imlu ITT,

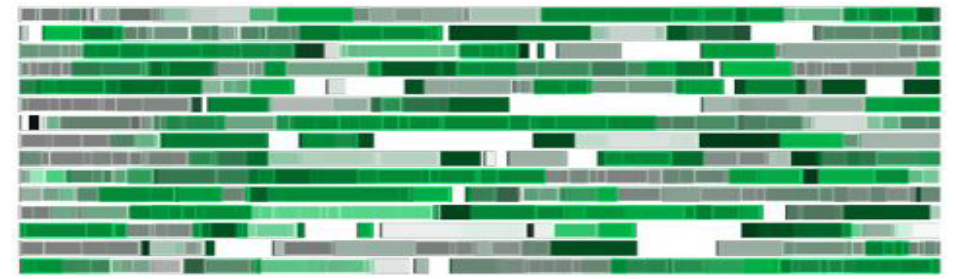
Secondary endpoints: OS, safety



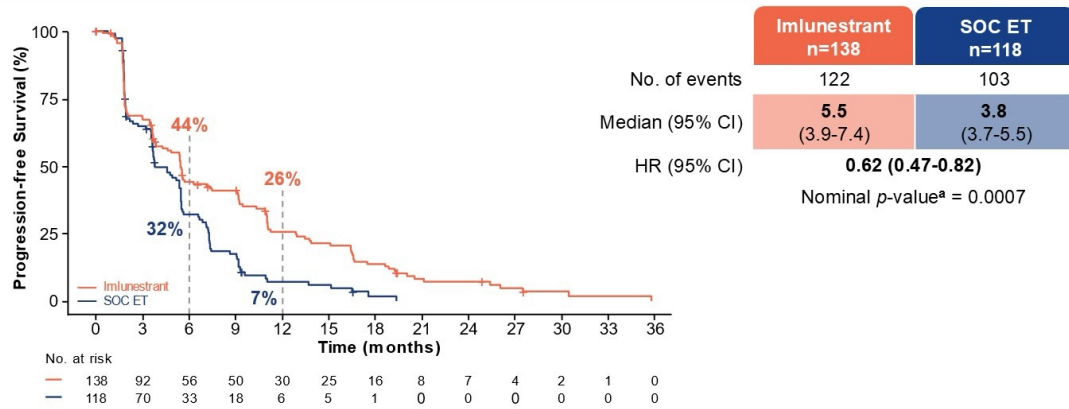
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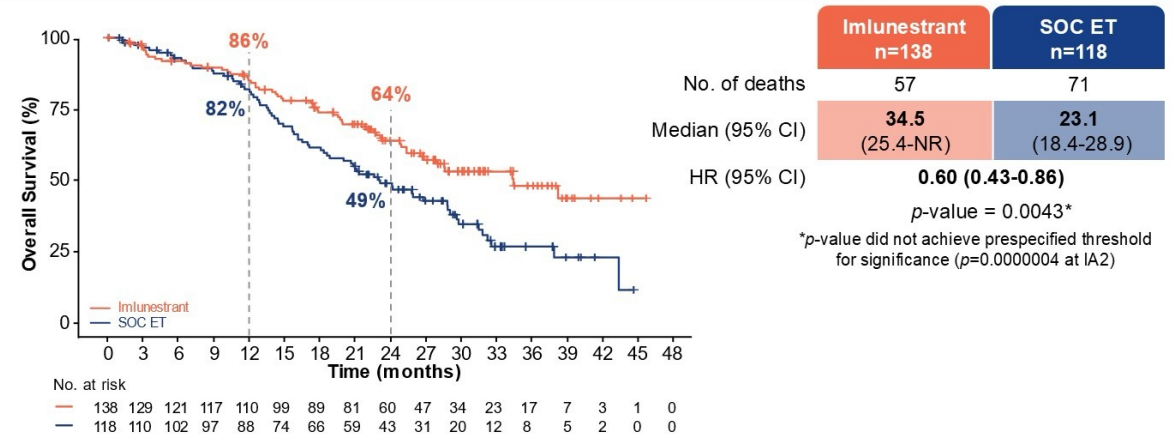
Primary Endpoint: PFS of Imlunestrant vs SOC ET in Patients With ESR1m



PFS benefit of imlunestrant was sustained in patients with ESR1m

*Reached formal statistical significance at primary PFS analysis. Note: Median follow-up was 27.6 months across both arms.
CI, confidence interval; ESR1m, estrogen receptor 1 gene mutation; HR, hazard ratio; PFS, progression-free survival; SOC ET, standard of care endocrine therapy.
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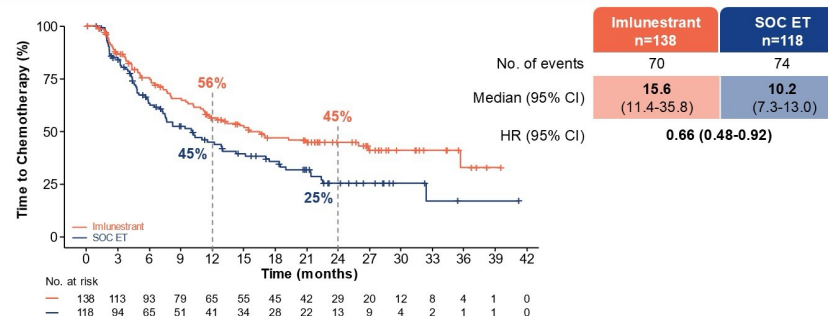
Secondary Endpoint: Interim OS of Imlunestrant vs SOC ET at 50% Maturity in Patients With ESR1m



Imlunestrant led to an ~11 month numerical improvement in median OS in patients with ESR1m

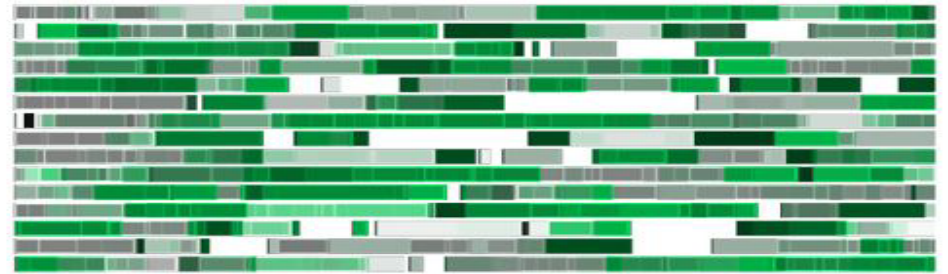
Note: The median follow-up was 29.5 months across both arms.
CI, confidence interval; ESR1m, estrogen receptor 1 gene mutation; HR, hazard ratio; IA2, Interim Analysis 2; NR, not reached; OS, overall survival; SOC ET, standard of care endocrine therapy.
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Exploratory Endpoint: TTC of Imlunestrant vs SOC ET in Patients With ESR1m



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evERA Study Design

A global, randomised, open-label, Phase III trial

Key Eligibility Criteria*

- ER+, HER2- aBC (1-3L of therapy)
- ≤ 2 prior lines of ET in the aBC setting
- PD or relapse during/post-CDK4/6i + ET
- No prior chemotherapy in the aBC setting
- Measurable disease per RECIST v1.1 or evaluable bone metastases

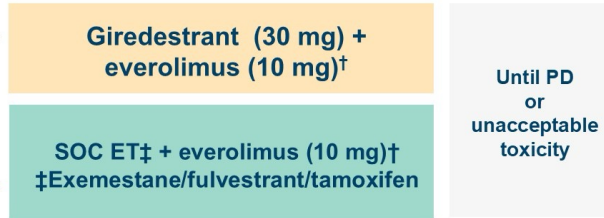
* Trial was enriched to 55% of patients with ESR1m at baseline (centrally tested via circulating tumour DNA)

Stratification Factors

- Prior treatment with fulvestrant (yes vs no)
- ESR1m (yes vs no/indeterminate)
- Site of disease (visceral [lung and/or liver involvement] vs non-visceral)



Enrolment period: August 2022 to October 2024



† Dexamethasone mouthwash prophylaxis and treatment was strongly recommended per SWISH trial protocol!

Co-primary endpoints (RECIST v1.1)

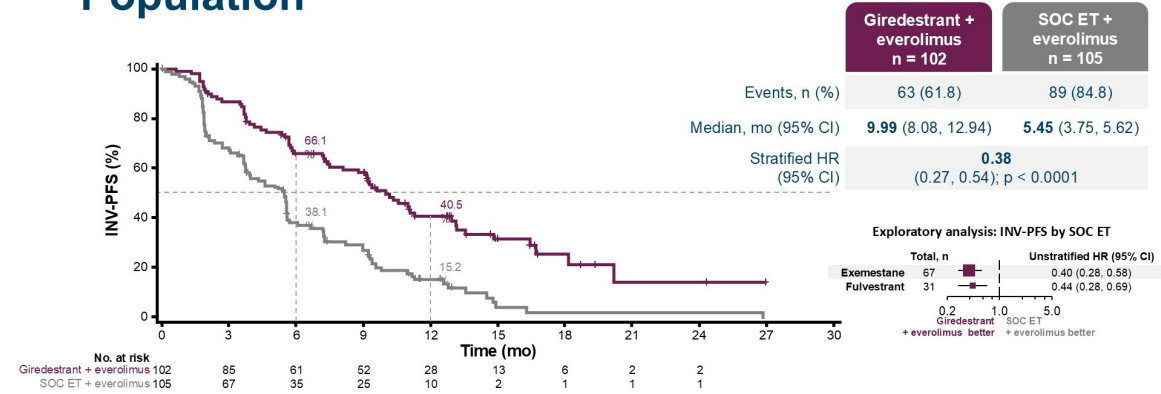
- INV-PFS in patients whose tumours had ESR1m
- INV-PFS in the ITT population

Key secondary endpoints

- OS
- INV-assessed ORR, DoR

ClinicalTrials.gov number, NCT05306340. Adapted from Mayer EL, et al. SABCS 2022 (poster OT2-01-07) with permission. 1-3L, first to third line; aBC, advanced breast cancer; CDK4/6i, cyclin-dependent kinase 4/6 inhibitor; DoR, duration of response; ER+, oestrogen receptor-positive; ESR2m, ESR2 mutation; ET, endocrine therapy; HER2-, HER2-negative; INV, investigator-assessed; ITT, intention to treat; ORR, objective response rate; OS, overall survival; PD, progressive disease; PFS, progression-free survival; R, randomisation; RECIST, Response Evaluation Criteria in Solid Tumours; SOC ET, standard of care endocrine therapy. 1. Ruqo HS, et al. *Lancet Oncology* 2017; 18:654-662.

Co-primary Endpoint – INV-PFS in the ESR1m Population

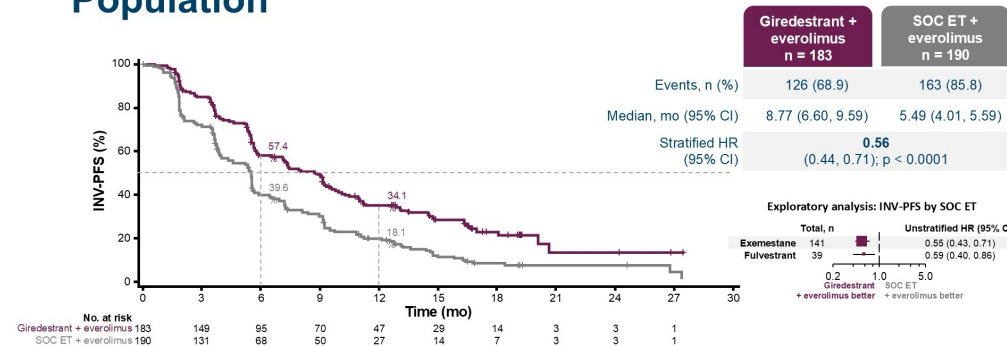


Combination therapy with giredestrant + everolimus led to a clinically meaningful 62% reduction in the risk of progression or death in patients with ESR1m

Data cutoff: 16 July 2025. PFS by blinded independent radiologist was similar to INV-PFS: Median PFS was 11.14 mo [giredestrant + everolimus] and 5.68 mo [SOC ET + everolimus]; stratified HR, 0.49; 95% CI: 0.34, 0.71. CI, confidence interval; ESR1m, ESR1 mutation; HR, hazard ratio; INV, investigator-assessed; mo, months; PFS, progression-free survival; SOC ET, standard of care endocrine therapy.



Co-primary Endpoint – INV-PFS in the ITT Population



Combination therapy with giredestrant + everolimus led to a clinically meaningful 44% reduction in the risk of progression or death in patients in the ITT population

Data cutoff: 16 July 2025. PFS by blinded independent radiologist was similar to INV-PFS: Median PFS was 10.32 mo [giredestrant + everolimus] and 7.26 mo [SOC ET + everolimus]; stratified HR, 0.66; 95% CI: 0.50, 0.87.

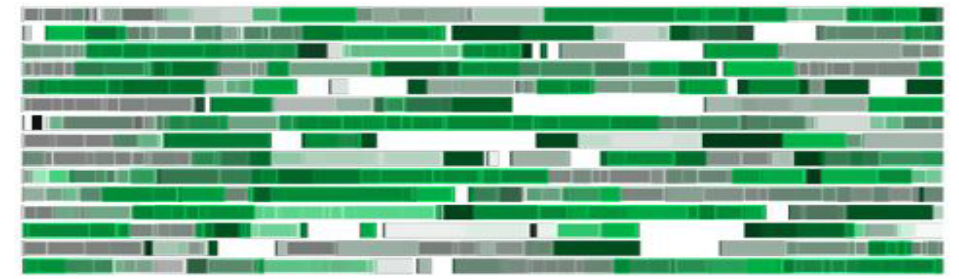
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What About Co-mutations?

- Both ESR1 and PIK3CA mutations are prevalent in pretreated ER+ HER2- MBC
- Can co-occur in about 15% of cases
- What is best treatment strategy?

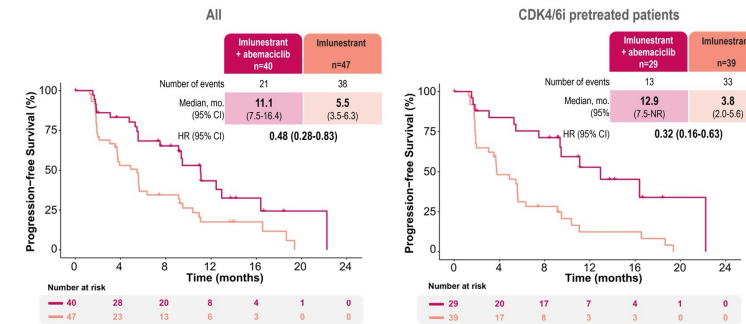
EMERALD Subgroup Analysis: PFS by Subgroup in ESR1m Patients With ≥12 Mo of CDK4/6i

Subgroup	Patients, n (%)	Median PFS, Mo (95% CI)		HR (95% CI)
		Elacestrant	SoC	
All ESR1m	159 (100)	8.6	1.9	0.41 (0.26-0.63)
ESR1m with liver and/or lung mets	113 (71)	7.3	1.9	0.35 (0.21-0.59)
ESR1m and PIK3CAm	62 (39)	5.5	1.9	0.42 (0.18-0.94)
ESR1m and TP53m	61 (38)	8.6	1.9	0.30 (0.13-0.64)
ESR1m and HER2 low	77 (48)	9.0	1.9	0.30 (0.14-0.60)



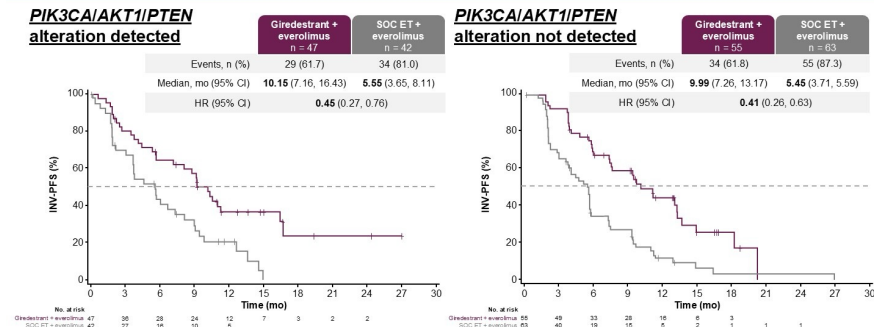
EMBER-3: PFS by ESR1 and PI3K-pathway Co-mutation Status in all Patients and CDK4/6i Pretreated Patients

In patients with both ESR1m and PI3K-pathway mutations



Dana-Farber Cancer Institute, San Antonio Breast Cancer Symposium, AAGR, UT Health

INV-PFS by PIK3CA/AKT1/PTEN alteration status (ESR1m population)



Data cutoff: July 16, 2025. HR estimates are unstratified. AKT1, AKT serine/threonine kinase 1; CI, confidence interval; ESR1m, ESR1 mutation; HR, hazard ratio; INV-PFS, investigator-assessed progression-free survival, mo; months; PIK3CA, phosphatidylinositol-3-OH kinase class I; SoC, standard of care; SOC ET, standard-of-care endocrine therapy. Presented by: Hope S. Rugo, MD. This presentation is the intellectual property of the presenter. Contact hugo@cof.org for permission to reprint and/or distribute.

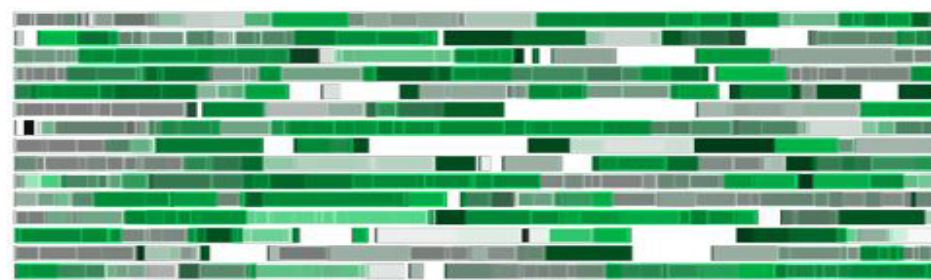
L. Mayer MD, MPH | 2025 | 12

Bardis | Clin Cancer Res. 2024;30:4299

Erica L. Mayer MD, MPH | 2025 | 13

III JORNADA TRASLACIONAL DE ONCOLOGÍA DE PRECISIÓN:

A TRAVÉS DE LAS VÍAS DE SEÑALIZACIÓN
SEVILLA, 12 Y 13 DE FEBRERO DE 2026



SERD EARLIER...

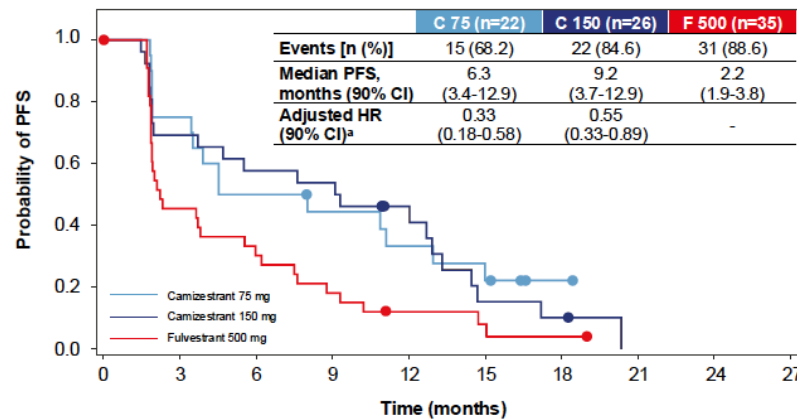
PFS in patients by detectable *ESR1*m



Camizestrant, a next-generation oral SERD, versus fulvestrant in post-menopausal women with oestrogen receptor-positive, HER2-negative advanced breast cancer (SERENA-2): a multi-dose, open-label, randomised, phase 2 trial

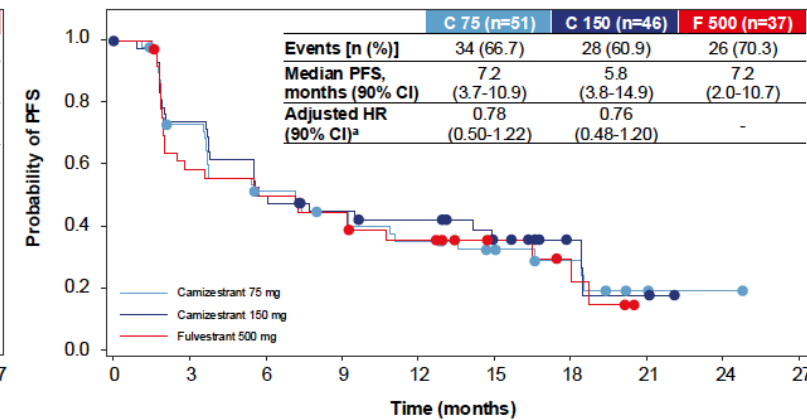
Mafalda Oliveira, Denys Pominchuk, Zbigniew Nowecki, Erika Hamilton, Yaroslav Kulyaba, Timur Andabekov, Yevhen Hotko, Tamar Melkadze, Gia Nemsadze, Patrick Neven, Vladimir Vladimirov, Claudio Zamagni, Hannelore Denys, Frédéric Forget, Zsolt Horvath, Alfiya Nesterova, Maxine Ajimi, Bistra Kirova, Teresa Klinowska, Justin P O Lindemann, Delphine Lissa, Alastair Mathewson, Christopher J Morrow, Zuzana Traugottova, Ruan van Zyl, Ekaterine Arkania

ESR1m detectable at baseline



	C 75	C 150	F
C 75	22	15	10
C 150	26	18	15
F	35	15	10

ESR1m not detectable at baseline



	C 75	C 150	F
C 75	51	34	23
C 150	46	31	21
F	37	21	18

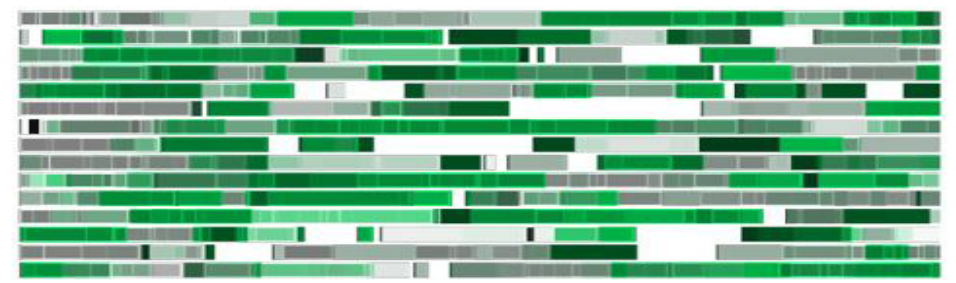
- In the sub-population of patients with detectable *ESR1*m at baseline, camizestrant at both doses produces a clinically meaningful improvement in PFS over fulvestrant

^aHRs adjusted for prior use of CDK4/6i and liver/lung metastases

CI: confidence interval; CDK4/6i: CDK4/6 inhibitor; *ESR1*m: mutation in estrogen receptor 1 gene; HR: hazard ratio; PFS: progression-free survival

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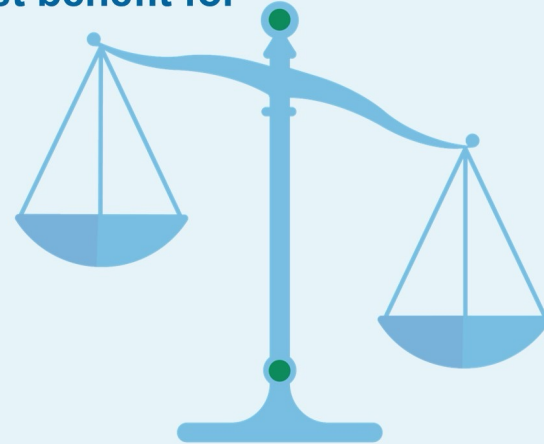
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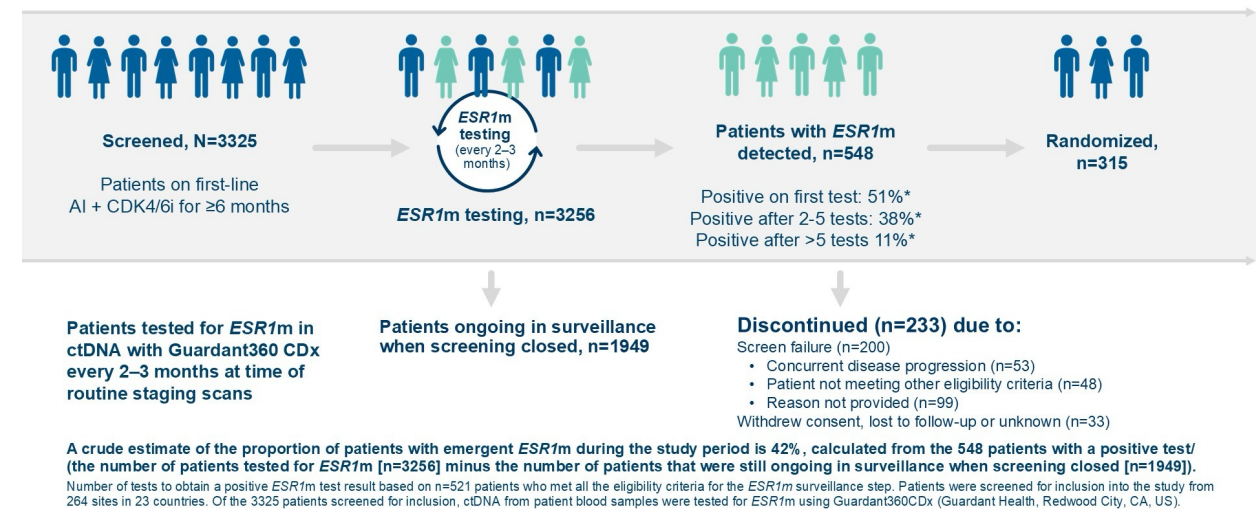
SERD EARLIER...

What About Moving SERDs Earlier Into Treatment?

- SERDs may have greatest benefit for ESR1 mutated cancers
- What if they are used at time of development of ESR1 mutation?



SERENA-6: *ESR1*m Surveillance During 1L AI+CDK4/6i



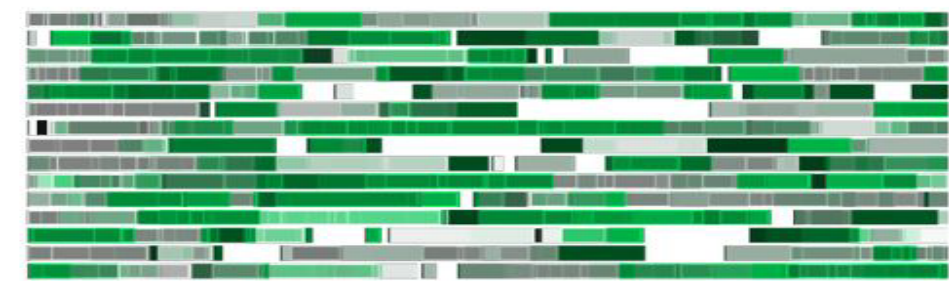
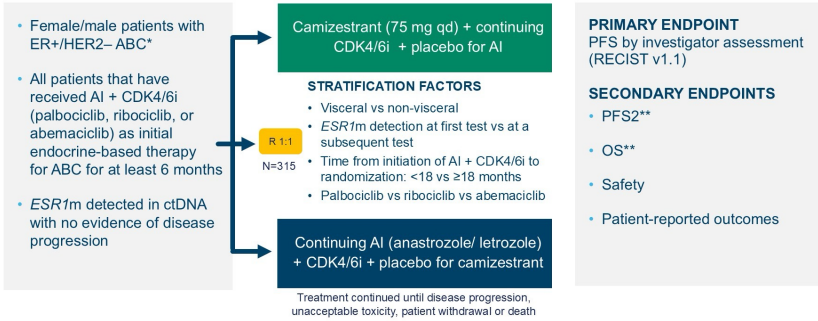
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A TRAVÉS DE LAS VÍAS DE SEÑALIZACIÓN

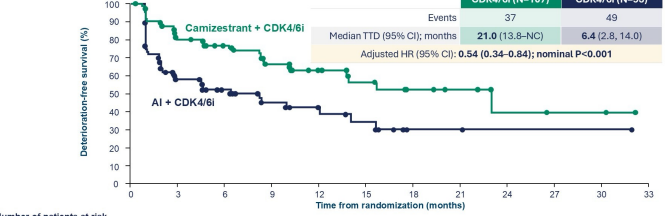
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SERENA-6: Step 2 Study Design

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



SERENA-6: Time to Deterioration in Global Health Status/QOL EORTC QLQ-C30

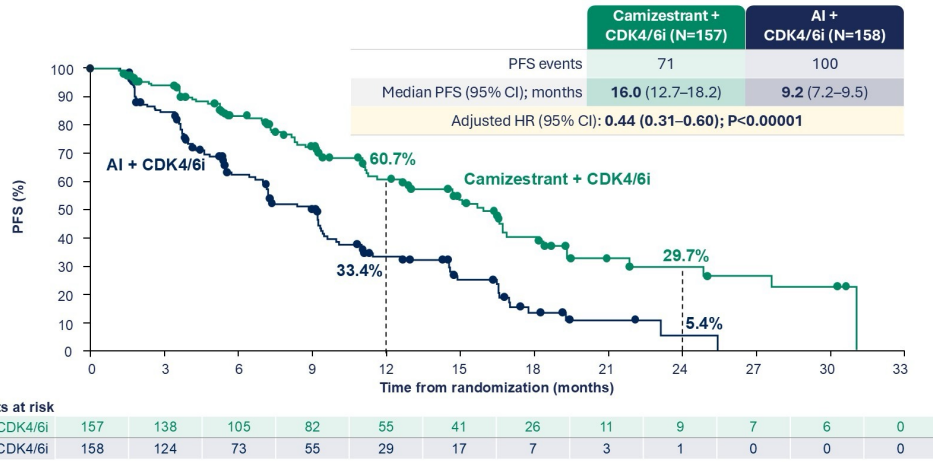


Number of patients at risk	0	3	6	9	12	15	18	21	24	27	30	33
Camizestrant + CDK4/6i	107	72	59	40	24	16	9	6	3	2	2	0
AI + CDK4/6i	95	42	26	16	11	8	2	2	1	1	1	0

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

Assessments were conducted at baseline, weeks 4, 8 and 12 and then every 8 weeks until PFS2. Analysis conducted in patients with a baseline score and at least one post-baseline assessment. TTD is global health deterioration of 10 or more points on the EORTC QLQ-C30. Deterioration was defined as a decrease from baseline ≥10. HR was estimated using the Cox proportional hazard model stratified by time of ESR1m detection (pre test vs more than one test, and time from initiation of AI + CDK4/6i to randomization (<18 months vs ≥18 months). NC, not calculable; TTD, time to deterioration.

SERENA-6: Primary Endpoint: Investigator-assessed PFS

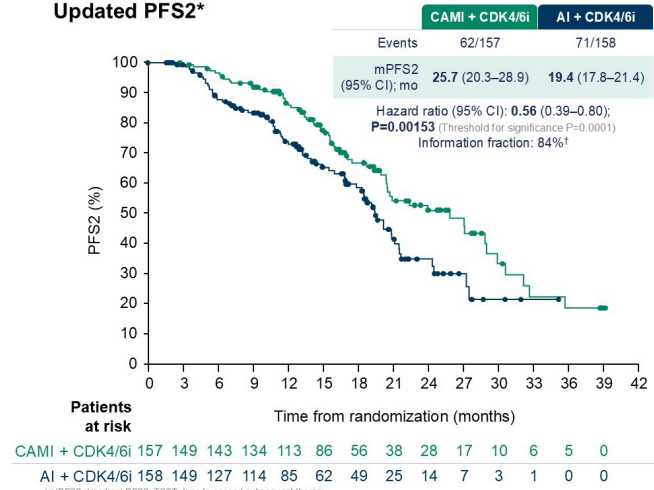


Number of patients at risk	0	3	6	9	12	15	18	21	24	27	30	33
Camizestrant + CDK4/6i	157	138	105	82	55	41	26	11	9	7	6	0
AI + CDK4/6i	158	124	73	55	29	17	7	3	1	0	0	0

Switching to camizestrant + CDK4/6i prolongs time to second progression and time to second subsequent therapy



Updated PFS2*



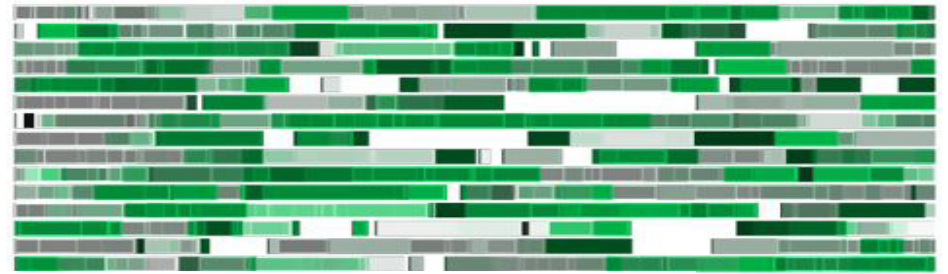
Patients at risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42
CAMI + CDK4/6i	157	149	143	134	113	86	56	38	28	17	10	6	5	0	0
AI + CDK4/6i	158	149	127	114	85	62	49	25	14	7	3	1	0	0	0

Switching to camizestrant + CDK4/6i treatment led to a clinically meaningful prolongation in PFS2 compared with continuing AI + CDK4/6i, demonstrating that the PFS gain is maintained in the subsequent line of therapy

- The time to second subsequent therapy (defined as the time from randomization to receiving a second subsequent therapy, or death) also favored the camizestrant + CDK4/6i arm compared with the AI + CDK4/6i arm; **hazard ratio (95% CI): 0.57 (0.40-0.81)**
- The magnitude of benefit in time to second subsequent therapy was **consistent with PFS2**

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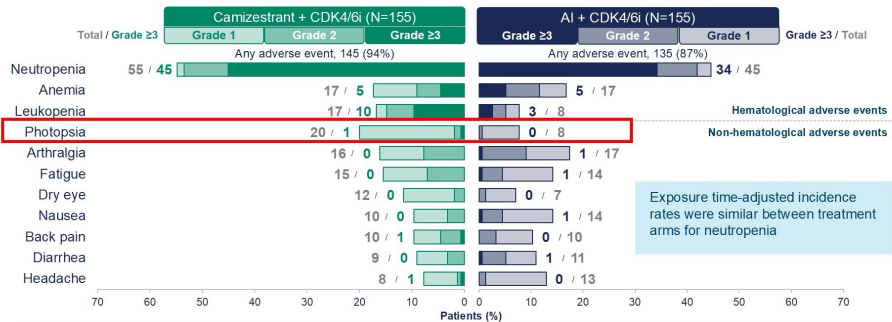


What About Toxicity of Oral SERDs?

- SERDs are well tolerated as monotherapy
- No synergistic toxicity with a targeted agent, but combinations may introduce toxicity from partner



SERENA-6: Adverse Events (≥10% of patients)



Photopsia (brief flashes of light in the peripheral vision) did not impact daily activities: If experienced, visual effects had no/minimal impact on daily activities, were typically ≤1 minute, ≤3 days/week, and reversible. There were no structural changes in the eye and no changes in visual acuity.

Neutropenia is reported as a group term that includes neutropenia and decreased neutrophil count; anemia is reported as a group term that includes anemia and hemoglobin decreased; leukopenia is reported as a group term that includes leukopenia and white blood cell count decrease. Bradycardia and sinus bradycardia were reported in the camizestrant + CDK4/6i arm only, in 8 patients (5.2%) and 4 patients (2.6%), respectively. No (sinus) bradycardia AEs were grade ≥3, and none of these events required treatment discontinuation. Impact of visual effects was measured using the Visual Symptom Assessment Questionnaire.

Safety of Oral SERD Monotherapy in the Second-Line Setting^a

Common any grade adverse events (≥15% incidence), %

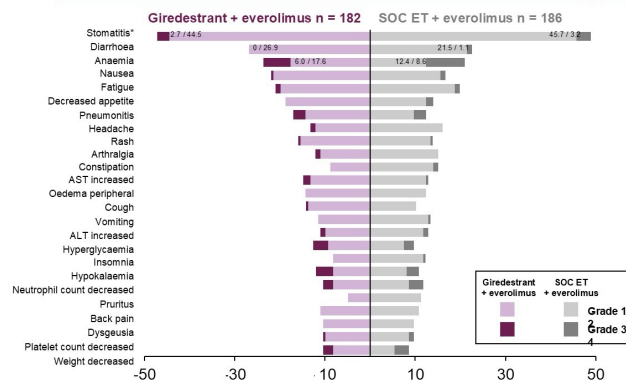
Eliceastrant in EMERALD		Imlunestrant in EMBER-3		Camizestrant in SERENA-2	
Dose	400 mg (n = 237)	Dose	400 mg (n = 327)	Dose	75 mg (n = 74) / 150 mg (n = 73)
Nausea	35	Fatigue	22.6	Bradycardia	0 / 17
Fatigue	19	Diarrhea	21.4	Photopsia	12 / 25
Vomiting	19	Nausea	17.1	Asthenia	8 / 15
				Fatigue	6 / 20

Grade ≥3 adverse events (≥2% incidence), %

Eliceastrant in EMERALD		Imlunestrant in EMBER-3		Camizestrant in SERENA-2	
Dose	400 mg (n = 237)	Dose	400 mg (n = 327)	Dose	75 mg (n = 74) / 150 mg (n = 73)
Nausea	2.5	Neutropenia	2.1	Fatigue	0 / 3
Back pain	2.5	Anemia	2.1	Hypertension	1 / 3
ALT increased	2.1				

evERA: AE Overview

Common TEAEs (≥ 10% of patients in either arm)



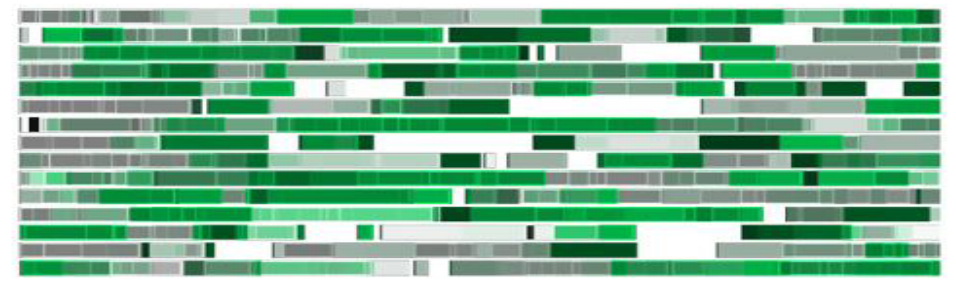
Selected AEs

Patients with AE, n	Giredestrant + everolimus (n = 182)		SOC ET + everolimus (n = 186)	
	Grade 1-2	Grade 3-4	Grade 1-2	Grade 3-4
Bradycardia [†]	7 (3.8)	0	1 (0.5)	0
Photopsia	0	0	0	0

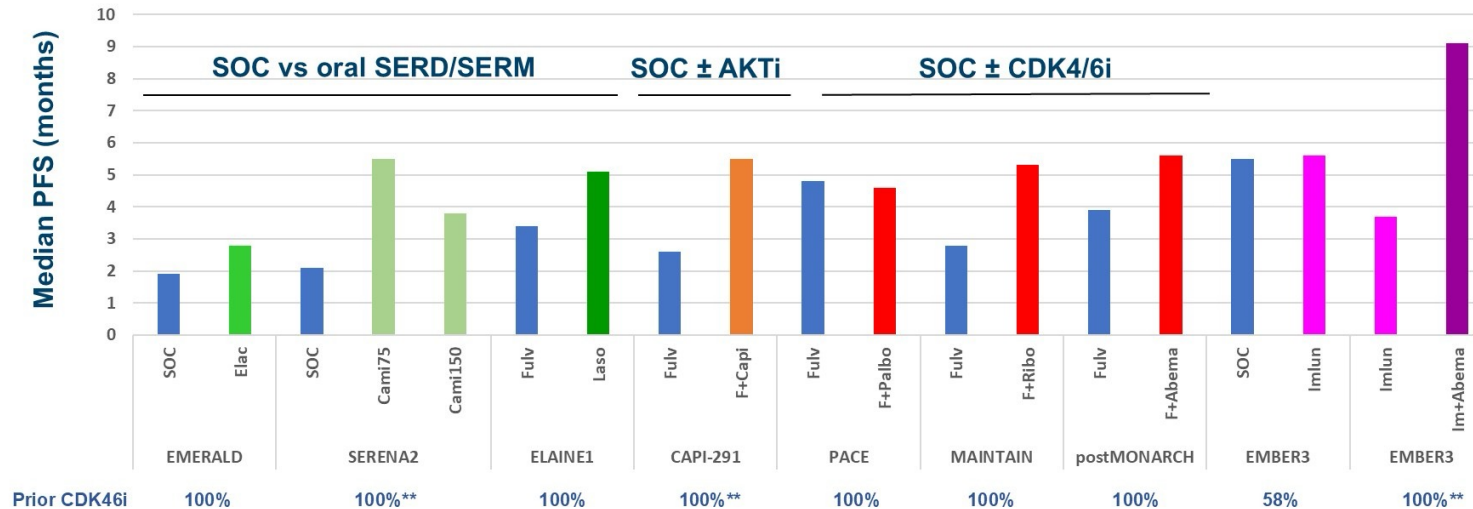
* Data cutoff: 10 July 2025. * Dexamethasone mouthwash prophylaxis and **Patients (%)** recommended per SWISH trial protocol (Bugu HS, et al. Cancer Oncology 2017; 18:654-662).
[†] Assessed as a medical concept using grouped terms; all events were Grade 1, non-serious and no treatment interruptions/interventions were needed. All events had resolved by data cutoff.
 * AE, adverse event; ALT, alanine aminotransferase; AST, aspartate aminotransferase; SOC ET, standard of care endocrine therapy; TEAE, treatment-emergent adverse event.

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Median Progression Free Survival in Recent Randomized Trials of Endocrine Therapy: Outcomes among patients with prior CDK4/6 inhibitor treatment*

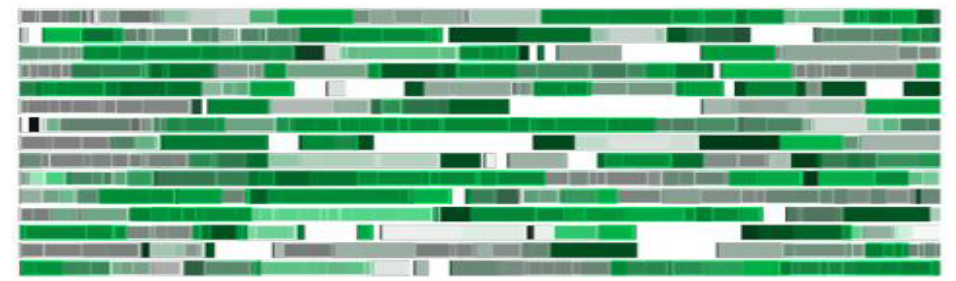


*there are a lot of problems with cross study comparisons, especially in unplanned subset analyses: extent/types of prior therapy, variable tumor genomics/biomarker profile, SOC options, sample size, exposure vs resistance, investigator vs BICR, etc.

** Denotes subset of larger study cohort

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What About Other Promising Novel Endocrine Therapies?

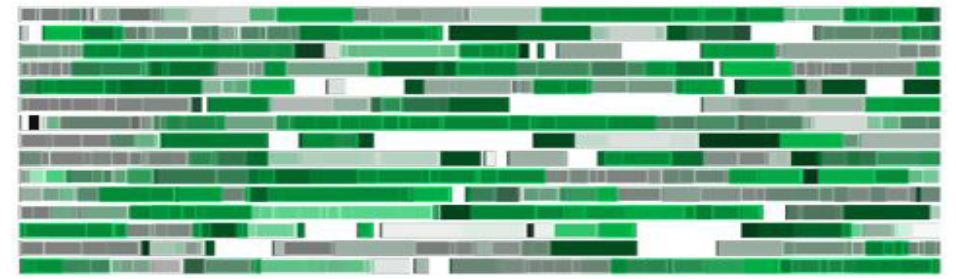
- **PROTAC:** Vepdegestrant
- **CERAN:** Palazestrant
- **SERM:** Lazofexefine



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VERITAC-2 Primary Endpoint: PFS by BICR

VERITAC-2: Global Phase 3 Trial of Vepdegestrant

KEY ELIGIBILITY CRITERIA

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

Randomization (1:1)

28-DAY TREATMENT CYCLES

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

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

STRATIFICATION FACTORS:

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

PRIMARY ENDPOINTS:

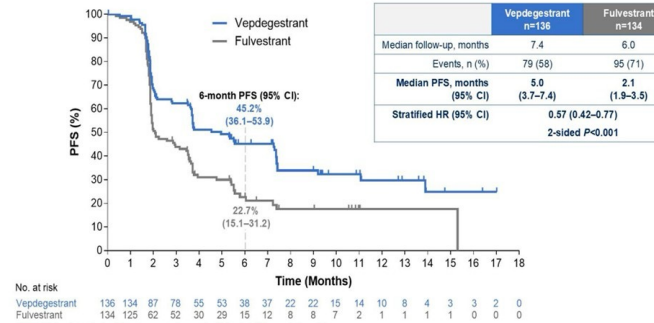
- PFS by BICR in
 - ESR1m population
 - All patients

SECONDARY ENDPOINTS:

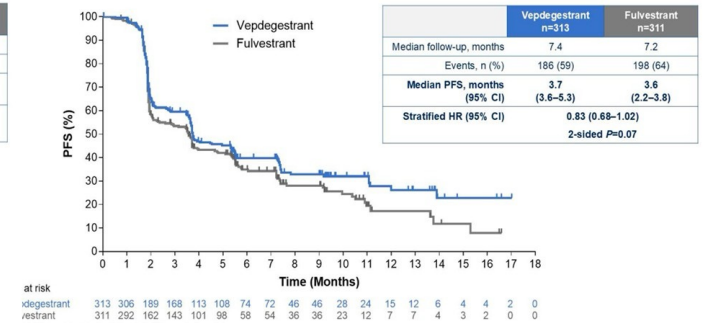
- OS (key secondary)
- CBR and ORR by BICR
- AEs

Data cutoff date: Jan 31, 2025
Clinicaltrials.gov: NCT05654623

ESR1 mutant population



ITT population

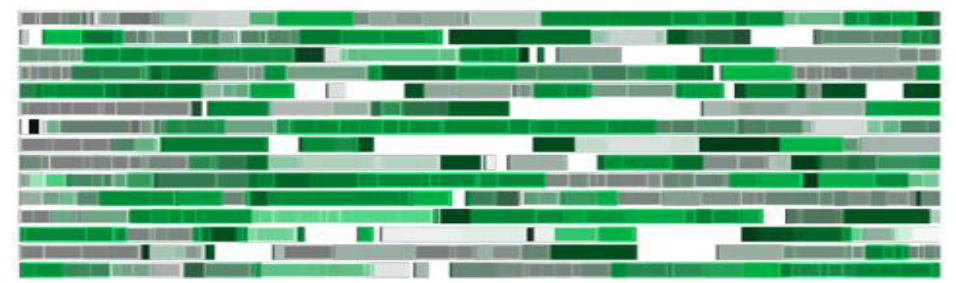


*ESR1m status was assessed in ctDNA by Foundation Medicine, except in China, where Origimed testing was used.
AE=adverse event; BICR=blinded independent central review; CBR=clinical benefit rate; CDK4/6i=cyclin-dependent kinase 4/6 inhibitor; ER=estrogen receptor; ESR1=estrogen receptor gene 1; ESR1m=estrogen receptor gene 1 mutation; ET=endocrine therapy; HER2=human epidermal growth factor receptor 2; IM=intramuscularly; ORR=objective response rate; OS=overall survival; PFS=progression-free survival; SERD=selective estrogen receptor degrader.
N Engl J Med - © Copyright 2025

BICR=blinded independent central review; HR=hazard ratio; PFS=progression-free survival.
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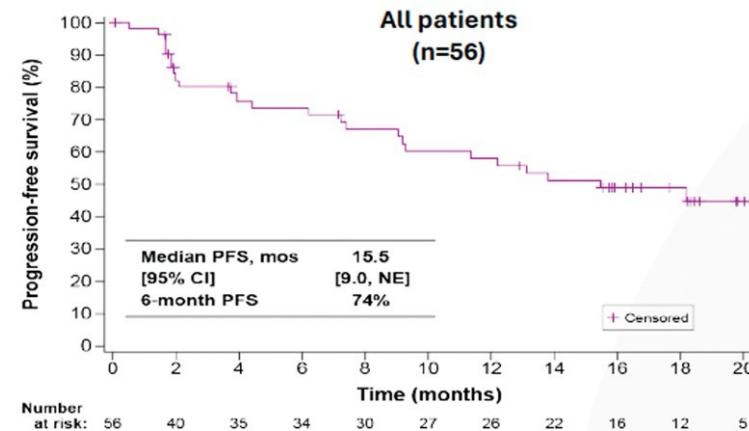


Palazestrant: Phase 2/3 Development

Phase 2 monotherapy/ribociclib combination:

- Monotherapy: ORR 27%, PFS about 5 months in both ESR1m and ITT populations
- Combination with ribociclib:

Subgroup	N	mPFS (mo)
ITT	56	15.5
Post-CDK	40	12.2
ESR1nmd post-CDK	24	9.2
ESR1mut post-CDK	14	13.8



OPERA-1

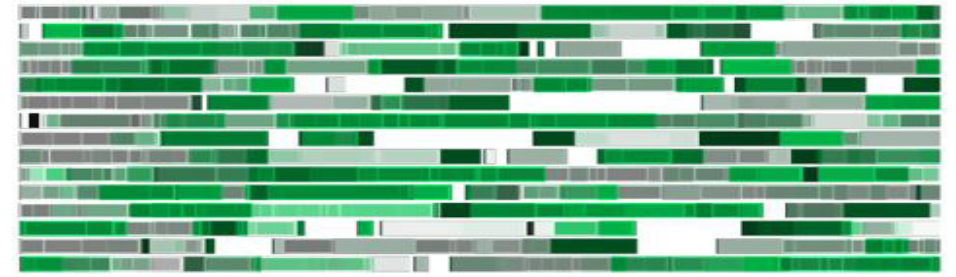
- Phase 3 2L monotherapy dose optimization study of palazestrant monotherapy vs SOC ET monotherapy for ER+, HER2- MBC, post ET and CDK4/6i

OPERA-2

- Phase 3 1L study of palazestrant with ribociclib vs letrozole with ribociclib for 1L ER+, HER2- MBC

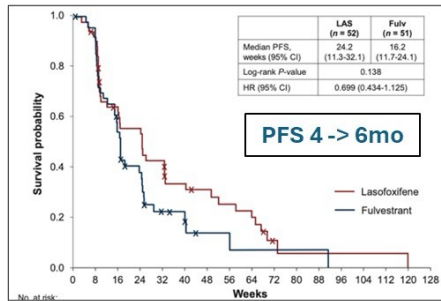
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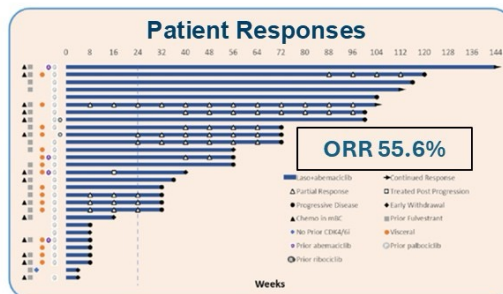


Lasofoxifene: Phase 2/3 Development

ELAINE 1: Phase 2 Trial of Lasofoxifene vs Fulvestrant for ER+/HER2- MBC with an ESR1 mutation



ELAINE 2: Phase 2 Trial of Lasofoxifene + Abemaciclib in ER+/HER2- MBC with an ESR1 Mutation



ELAINE 3 (NCT05696626): Open-label, phase 3, multicenter, randomized-controlled study in 18 countries

Participants

- Women and men
- ER+/HER2-, locally advanced or metastatic breast cancer
- Progressed on AI plus palbociclib or ribociclib
- ≥ 1 ESR1 mutation
- **Enrollment goal:** 400 patients (200 per group)

Lasofoxifene (oral; 5 mg/day) plus abemaciclib (oral; 150 mg BID)

Randomized 1:1

Fulvestrant (IM; 500 mg on days 1, 15, and 29, then monthly) plus abemaciclib (oral; 150 mg BID)

Taken until disease progression, death, unacceptable toxicity, or study withdrawal

Endpoints

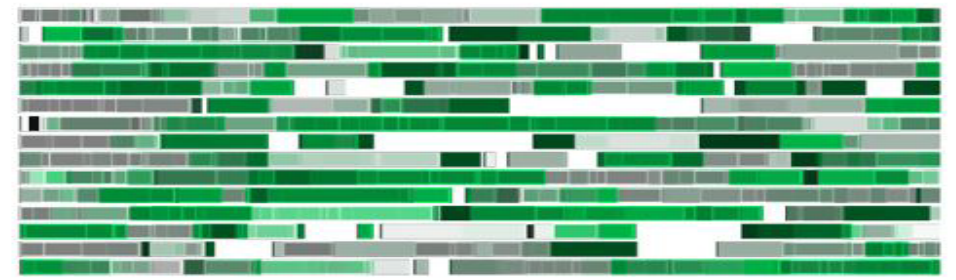
- **Primary**
 - Progression-free survival
- **Secondary**
 - Objective response rate
 - Overall survival
 - Clinical benefit rate
- **Other**
 - ESR1 MAF changes
 - Time to chemotherapy
 - Quality of life
 - Safety

Statistical Analysis

- Target sample size is 400 based on progression-free survival
- Outcomes between treatments will be compared using a stratified, Cox proportional hazards model and stratified logrank test

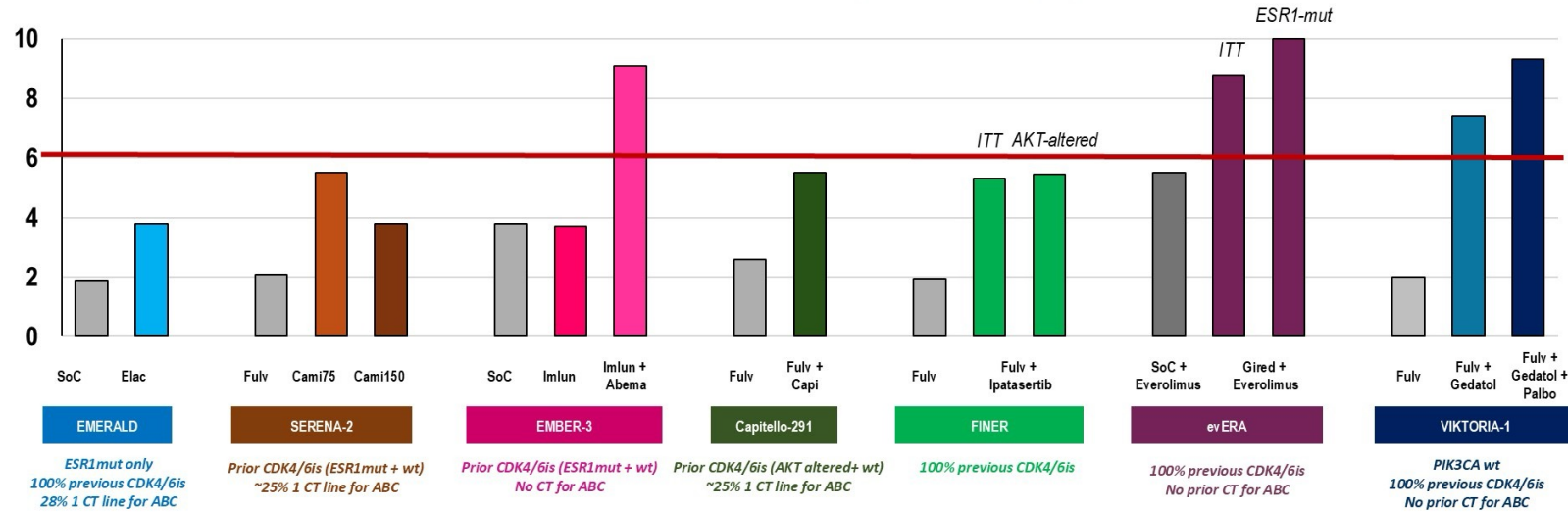
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Pushing Beyond the 6-month PFS Ceiling after CDK4/6 Inhibitors

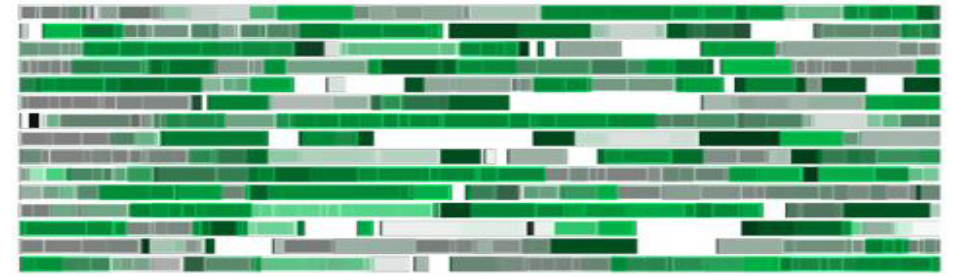
Novel endocrine agents combined with targeted therapies represents the future of ET-based treatment in CDK4/6i-pretreated population



Bardia A et al SBACS 2021; Bidard FC et al JCO 2022; Oliveira Met al Lancet Oncol 2024; Jhaveri et al SABCS 2024 & NEJM 2024; Turner NC et al NEJM 2023; Chia S et al ASCO 2025; Meyer E et al ESMO 2025; Hurvitz S et al ESMO 2025
Adapted from Alessandra Gennari MD PhD

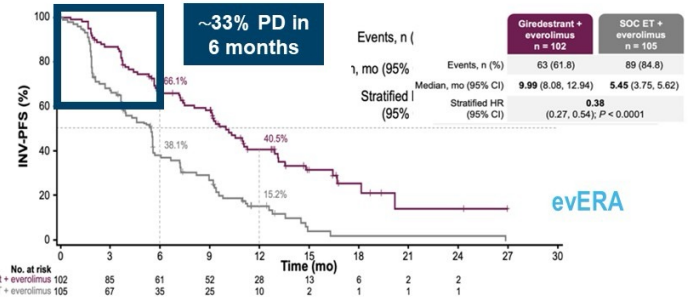
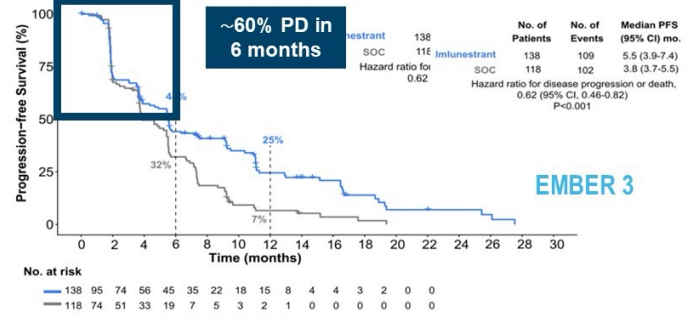
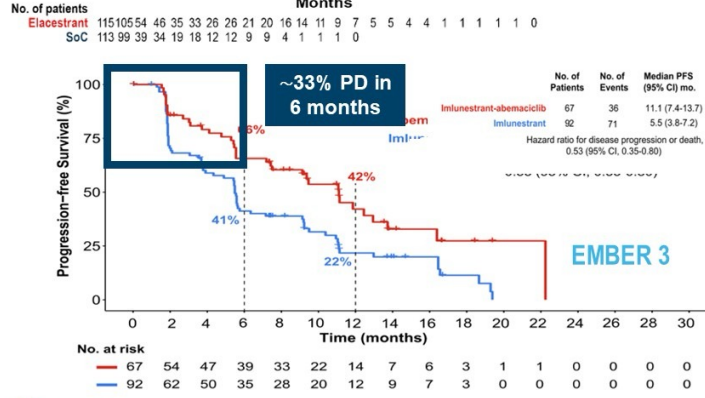
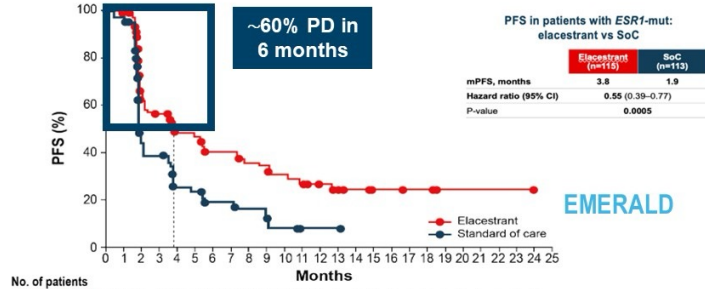
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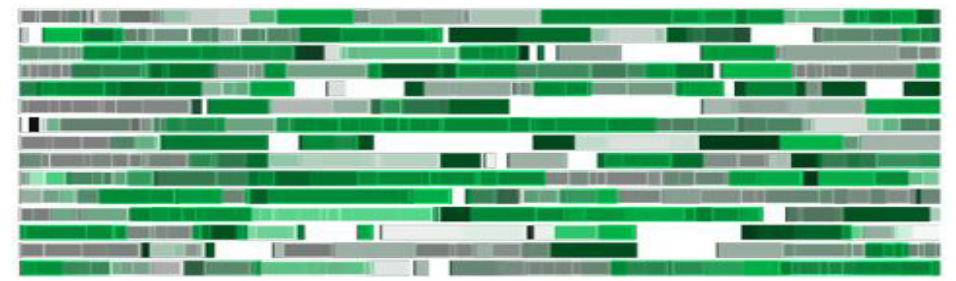
SERD Combination is Superior to Monotherapy

Early progression in ESR1 mut: single agent SERD vs SERD + targeted therapy

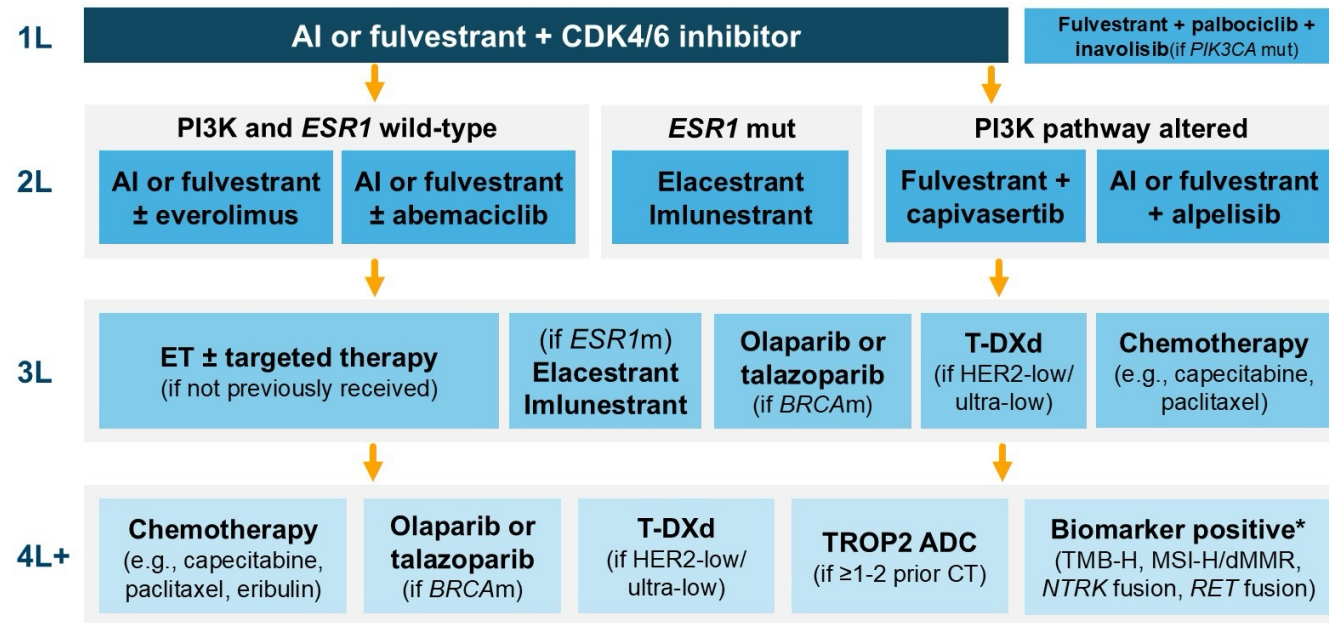


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Treatment Algorithm for HR+/HER2- MBC

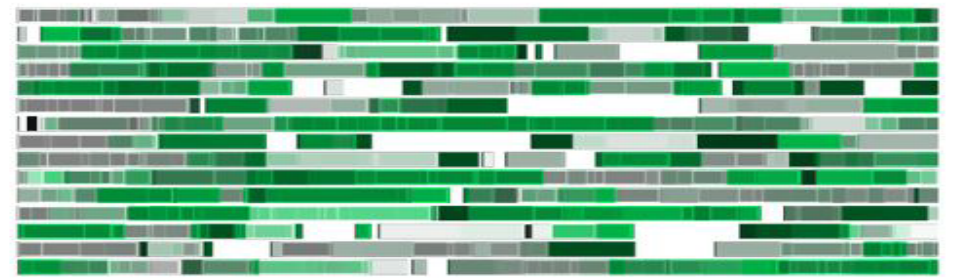


Elacestrant aprobado por FDA y EMA. No precio en España

Imlunestrant aprobado por FDA

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CONCLUSIONES

- Los nuevos moduladores del receptor de estrógeno parecen afianzar su papel en la segunda línea tras el uso de inhibidores de ciclinas, sobretodo en ESR-1 mutados, siendo una formulación oral, con toxicidad aceptable y el único problema: la toxicidad económica que puede suponer su uso.
- Parece que, en combinación, como nos contarán en la próxima charla, pueden tener mayor eficacia y ser el futuro en la segunda línea.
- El uso temprano con la monitorización de ctDNA mejora la supervivencia libre de progresión, y la calidad de vida? Pero aumentará la SG?
- En enfermedad precoz ya tenemos datos positivos de Giredestrant! Y varios estudios en marcha con diferentes SERD +/- combinados con inhibidores de ciclinas, que pueden ayudar a aumentar la tasa de curación en CM luminal



Gracias!