Medical Affairs Affairs Call Call



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CLINICAL TOPIC NEWSLETTER

ELACESTRANT IN ER+/HER2- MBC WITH ESR1-MUT TUMOURS: OVERVIEW OF THE EMERALD SUBGROUP ANALYSIS

NOVEMBER 2024

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TREATMENT LANDSCAPE IN ER+/HER2- MBC

CURRENT FACTORS AFFECTING TREATMENT CHOICES FOR PATIENTS WITH ER+/HER2- MBC

Disease characteristics

ER+/HER2- mBC is a complex, heterogeneous disease¹

As disease progresses, most tumors develop endocrine resistance²

Patient characteristics

Key factors:

performance status, imminent organ failure, menopausal status, prior lines of therapy¹

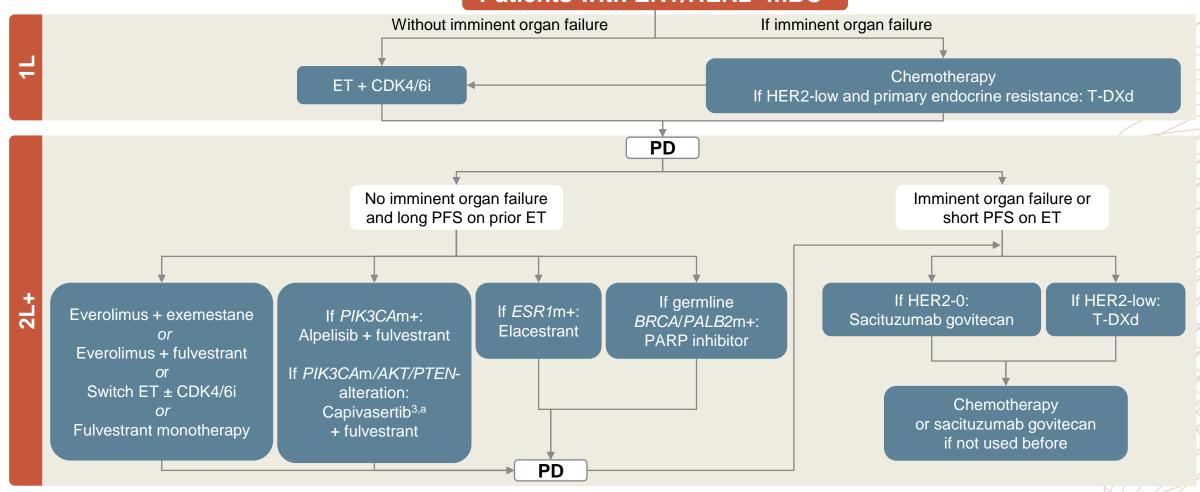
Genomic landscape

Molecular mechanisms underlying endocrine sensitivity and resistance are multifold¹⁻³

Key biomarkers: *PIK3CA, ESR1, BRCA/PALB2*¹⁻³

TREATMENT CHOICES FOR PATIENTS WITH ER+/HER2- MBC ARE DRIVEN BY ENDOCRINE SENSITIVITY STATUS AND BIOMARKERS^{1,2}





^a Capivasertib may be used following recurrence or progression on or after an ET-based regimen. mBC, Metastatic breast cancer; *BRCA*, BReast CAncer gene; CDK4/6i, cyclin-dependent kinase 4/6 inhibitor; ER, estrogen receptor; *ESR1*, estrogen receptor 1; ET, endocrine therapy; HER2, human epidermal growth factor receptor 2; m, mutation; *PALB2*, partner and localizer of BRCA2; PARP, poly(ADP-ribose) polymerase; PD, progressive disease; *PIK3CA*, phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha; T-DXd, trastuzumab deruxtecan
Adapted from: 1. Gennari A, et al. Ann Oncol. 2021;32(12):1475-95. ESMO Metastatic Breast Cancer Living Guidelines. V1.1 May 2023; 2. Bardia, et al. Clin Cancer Res. 2024; Online ahead of print;
3. Trugap (capivasertib) SmPC 2024

EMERALD TRIAL OVERVIEW

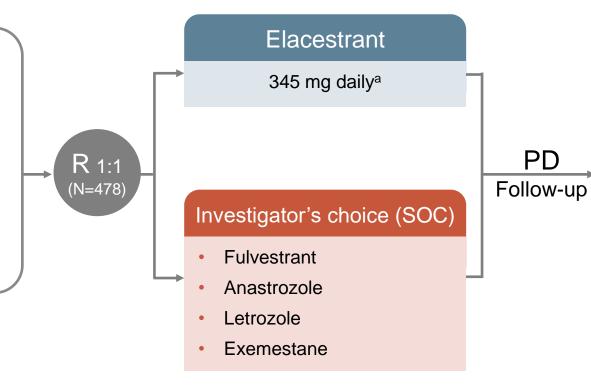
EMERALD: PHASE 3 TRIAL OF ELACESTRANT VS SOC ENDOCRINE THERAPY

100% of patients **HAD** received prior CDK4/6 inhibitor therapy

- Men and postmenopausal women with advanced/metastatic breast cancer
- ER+/HER2-
- Progressed or relapsed on or after one or two lines of endocrine therapy for advanced disease, one of which was given in combination with a CDK4/6i
- ≤1 line of chemotherapy for metastatic disease
- ECOG PS 0 or 1

Stratification factors

- ESR1-mut status
- Presence of visceral metastases
- Prior treatment with fulvestrant



Primary endpoints:

PFS in ESR1-mut

PFS in all patients

^a 345 mg of elacestrant is equivalent to 400 mg of elacestrant dihydrochloride.

mBC, Metastatic breast cancer; CDK4/6i, cyclin-dependent kinase 4/6 inhibitor; ECOG PS, Eastern Cooperative Oncology Group performance status;

ER, estrogen receptor; ESR1, estrogen receptor 1 mutation; HER2, human epidermal growth factor receptor 2; mBC, metastatic breast cancer; PD, progressive disease; PFS, progression-free survival; R, randomization; SOC, standard of care.

Bidard FC, et al. J Clin Oncol 2022;40:3246-56

EMERALD TRIAL BASELINE CHARACTERISTICS^{1,2}

	Elacestrant		SOC	
	All (N=239)	ESR1-mut (N=115)	AII (N=239)	ESR1-mut (N=113)
Median age, years (range)	63 (24-89)	64 (28-89)	63 (32-83)	63 (32-83)
Female, n (%)	233 (97.5)	115 (100)	238 (99.6)	113 (100)
ECOG PS, n (%) 0 1	143 (59.8) 96 (40.2)	67 (58.3) 48 (41.7)	135 (56.5) 103 (43.1)	62 (54.9) 51 (45.1)
Visceral metastasis ^a , n (%)	163 (68.2)	81 (70.4)	170 (71.1)	84 (74.3)
Prior CDK4/6 inhibitor, n %)	239 (100)	115 (100)	239 (100)	113 (100)
No. of prior lines of endocrine therapy in the advanced or metastatic setting, n (%) 1 2	129 (54.0) 110 (46.0)	73 (63.5) 42 (36.5)	142 (59.4) 97 (40.6)	69 (61.1) 44 (38.9)
Prior therapies for advanced or metastatic disease, n (%) Fulvestrant Aromatase inhibitor Tamoxifen	70 (29.3) 193 (80.8) 19 (7.9)	27 (23.5) 101 (87.8) 9 (7.8)	75 (31.4) 194 (81.2) 15 (6.3)	28 (24,8) 96 (85.0) 9 (8.0)
No. of prior lines of chemotherapy in the advanced or metastatic setting, n (%) 0 1	191 (79.9) 26 (20.1)	89 (77.4) 26 (22.6)	180 (75.3) 59 (24.7)	81 (71.7) 32 (28.3)

^a Includes lung, liver, brain, pleural, and peritoneal involvement

mBC, Metastatic breast cancer; CDK4/6i, cyclin-dependent kinase 4/6 inhibitor; ECOG PS, Eastern Cooperative Oncology Group performance status;

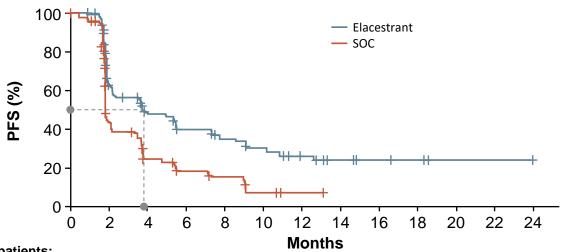
ER, estrogen receptor; ESR1, estrogen receptor 1 mutation; HER2, human epidermal growth factor receptor 2; mBC, metastatic breast cancer;

PD, progressive disease; PFS, progression-free survival; R, randomization; SOC, standard of care

^{1.} Orserdu (elacestrant) SmPC 2023; 2023; 2. Bardia A, et al. SABCS 2022. Abstract GS3-01

EMERALD: ELACESTRANT PROVIDES A 45% REDUCTION IN RISK OF PROGRESSION OR DEATH VS SOC IN PATIENTS WITH *ESR1*-MUT

PFS in patients with ESR1-mut: Elacestrant vs SOC

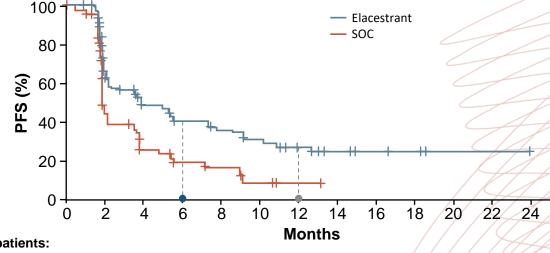


No. of patients:

Elacestrant 11510554 46 35 33 26 26 21 20 16 14 11 9 7 5 5 4 4 1 1 1 1 1 0

SOC 113 99 39 34 19 18 12 12 9 9 4 1 1 1 0

	Elacestrant (n=115)	SOC (n=113)
mPFS, months	3.8	1.9
HR	0.55	
[95% CI]	[0.39-0.77]	
p-value	0.0005	



No. of patients:

Elacestrant 11510554 46 35 33 26 26 21 20 16 14 11 9 7 5 5 4 4 1 1 1 1 1 0

SOC 113 99 39 34 19 18 12 12 9 9 4 1 1 1 0

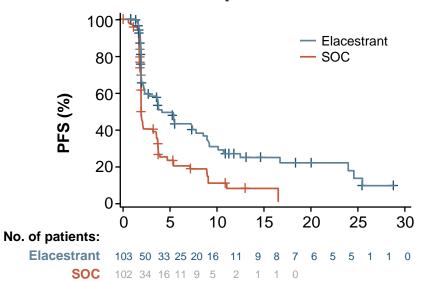
	Elacestrant (n=115)	SOC (n=113)
6-mo PFS, % [95% CI]	40.8	19.1
12-mo PFS, % [95% CI]	26.8	8.2
HR [95% CI]	0.55 [0.39-0.77]	
p-value	0.0005	

Exploratory analysis; patients without ESR1-mut: n=250, 52% of the ITT population CI, confidence interval; *ESR1*, estrogen receptor 1; HR, hazard ratio; ITT, intention to treat; mo, months; mut, mutation; (m)PFS, (median) progression-free survival; SOC, standard of care Bidard FC. et al. J Clin Oncol. 2022:40:3246-56

EMERALD TRIAL SUBGROUP ANALYSIS

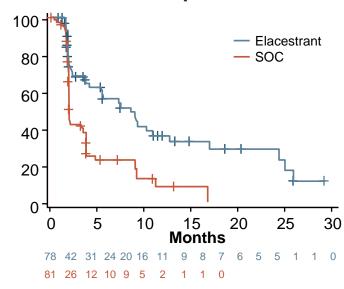
EMERALD: DURATION OF PRIOR ET + CDK4/6 INHIBITOR THERAPY IS POSITIVELY ASSOCIATED WITH mPFS IN PATIENTS WITH ESR1-MUT

≥6 months of prior ET + CDK4/6ia



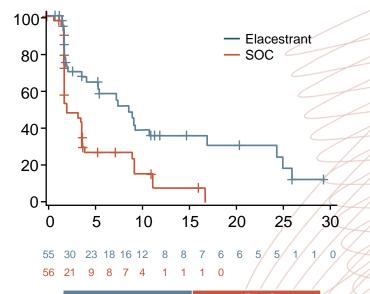
Elacestrant SOC (n=102)(n=103)mPFS, mo 4.14 1.87 [95% CI] [2.20-7.79] [1.87-3.29] 12-mo PFS, % 26.02 6.45 [15.12-36.92] [0.00-13.65] [95% CI] HR 0.517 [95% CI] [0.361-0.738]

≥12 months of prior ET + CDK4/6i^a



Elacestrant (n=78)	SOC (n=81)		
8.61	1.91		
[4.14-10.84] 35.81	[1.87-3.68] 8.39		
[21.84-49.78]	[0.00-17.66]		
0.410 [0.262-0.634]			

≥18 months of prior ET + CDK4/6i^a



Elacestrant (n=55)	SOC (n=56)
8.61	2.10
[5.45-16.89]	[1.87-3.75]
35.79	7.73
[19.54-52.05]	[0.00-20.20]
0.4	466

[0.270-0.791]

^a Post-hoc analysis results are observational in nature. There was no prespecified statistical procedure controlling for type 1 error

CDK4/6(i), cyclin-dependent kinase 4/6 inhibitor; CI, confidence interval; *ESR1*, estrogen receptor 1; ET, endocrine therapy; HR, hazard ratio; (m)PFS, (median) progression-free survival; mut, mutation; SOC, standard of care

Patients with ≥12 months of prior ET + CDK4/6i	% (n)	Elacestrant mPFS, months	SOC mPFS, months	HR [95% CI]
All ESR1-mut patients	100 (159)	8.61	1.91	0.41 [0.262–0.634]
PIK3CA-mut ^a	39 (62)	5.5	1.9	0.42 [0.18–0.94]
Bone metastases ^b	86 (136)	9.1	1.9	0.38 [0.23–0.62]
Liver and/or lung metastases ^c	71 (113)	7.3	1.9	0.35 [0.21–0.59]
TP53-mut	38 (61)	8.6	1.9	0.30 [0.13–0.64]
HER2-low expression ^d	48 (77)	9.0	1.9	0.30 [0.14–0.60]

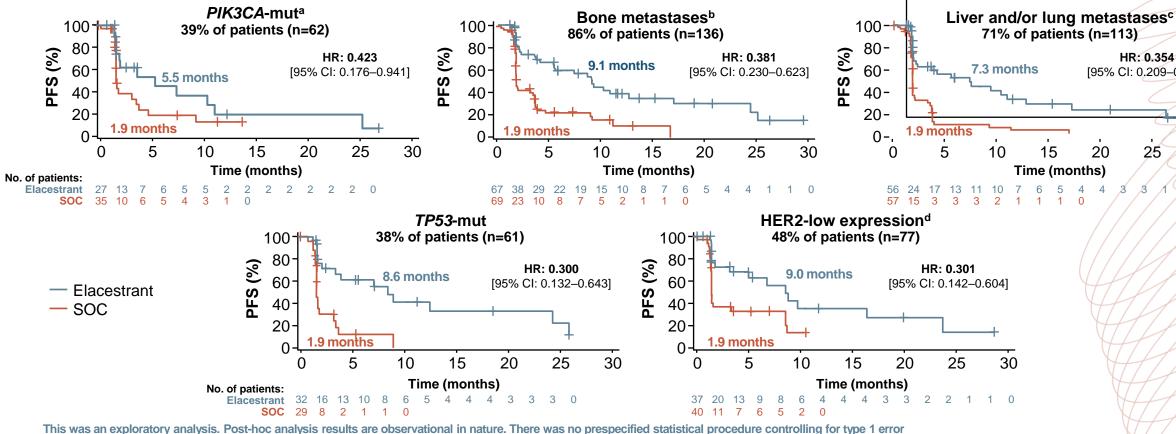
This was an exploratory analysis. Post-hoc analysis results are observational in nature. There was no prespecified statistical procedure controlling for type 1 error

^a Includes E545K, H1047R, E542K, and others; ^b 85% of patients had bone and other sites of metastases (30% of these patients had no liver or lung involvement); ^c 55% of patients had liver and other sites of metastases (10% of these patients had no liver or bone involvement); ^d Locally assessed HER2 immunohistochemistry 1+, and 2+ with no *in situ* hybridization amplification; Data not available for all patients

CDK4/6, cyclin dependent kinase 4/6; CI, confidence interval; *ESR1*, estrogen receptor 1; ET, endocrine therapy; HER2, human epidermal growth factor receptor 2; mut, mutation; PIK3CA, phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha; SOC, standard of care; TP53, tumour protein p53

Bardia A, et al. Clin Cancer Res. 2024; Online ahead of print

PFS in patients with ≥12 months of prior ET + CDK4/6i and *ESR1*-mut



Bardia A. et al. Clin Cancer Res. 2024: Online ahead of print

a Includes E545K, H1047R, E542K, and others; b 85% of patients had bone and other sites of metastases (30% of these patients had no liver or lung involvement); c 55% of patients had liver and other sites of metastases (10% of these patients had no lung or bone involvement); 25% of patients had lung and other sites of metastases (2% of these patients had no liver or bone involvement); d Locally assessed HER2 immunohistochemistry 1+, and 2+ with no in situ hybridization amplification; Data not available for all patients. CDK4/6, cyclin dependent kinase 4/6; CI, confidence interval; ESR1, estrogen receptor 1; ET, endocrine therapy; HER2, human epidermal growth factor receptor 2; HR, hazard ratio; mut, mutation; PFS, progression-free survival; PIK3CA, phosphatidylinositol-4,5-bisphosphate 3-kinase; SOC, standard of care; TP53, tumor protein p53.

HR: 0.354

[95% CI: 0.209-0.589]

30

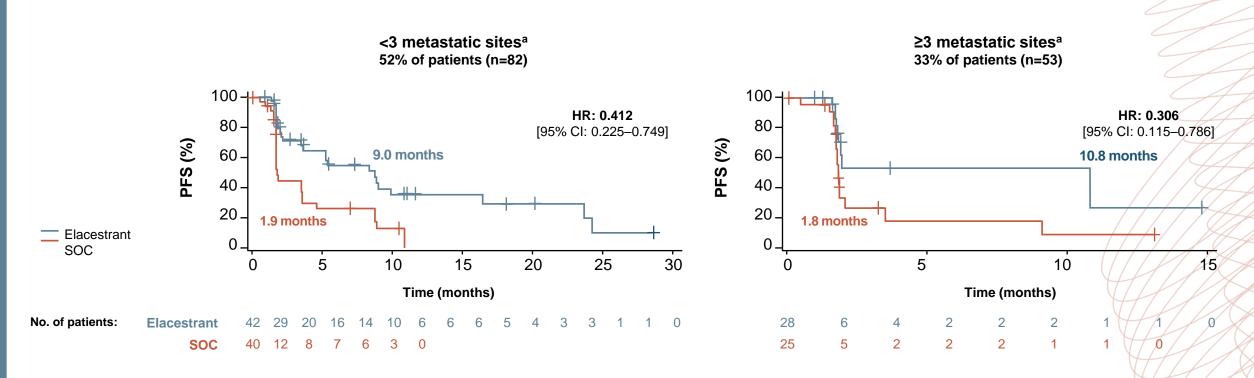
Patients with ≥12 months of prior ET + CDK4/6i	% (n)	Elacestrant mPFS, months	SOC mPFS, months	HR [95% CI]
All ESR1-mut patients	100 (159)	8.61	1.91	0.41 [0.262-0.634]
<3 metastatic sites ^a	52 (82)	9.0	1.9	0.41 [0.23-0.75]
≥3 metastatic sitesª	33 (53)	10.8	1.8	0.31 [0.12-0.79]

This was an exploratory analysis. Post-hoc analysis results are observational in nature. There was no prespecified statistical procedure controlling for type 1 error

CDK4/6, cyclin dependent kinase 4/6; CI, confidence interval; *ESR1*, estrogen receptor 1; ET, endocrine therapy; HR, hazard ratio; mut, mutation; PFS, progression-free survival; SOC, standard of care

^a The number of metastatic sites was available for 135 of 159 patients with ESR1-mutated tumours and prior ET+CDK4/6i ≥12 months

PFS in patients with ≥12 months of prior ET + CDK4/6i and *ESR1*-mut



This was an exploratory analysis. Post-hoc analysis results are observational in nature. There was no prespecified statistical procedure controlling for type 1 error

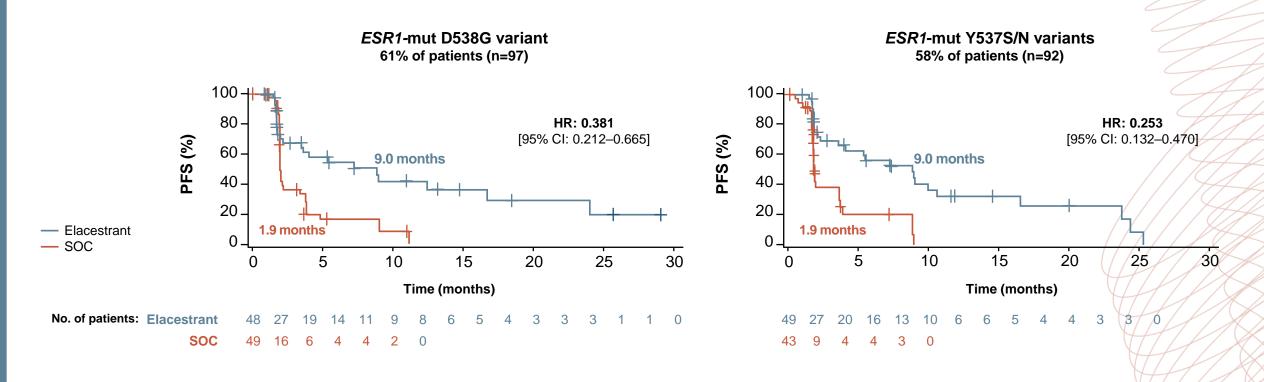
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^a The number of metastatic sites was available for 135 of 159 patients with ESR1-mutated tumours and prior ET+CDK4/6i ≥12 months

Patients with ≥12 months of prior ET + CDK4/6i	% (n)	Elacestrant mPFS, months	SOC mPFS, months	HR [95% CI]
All ESR1-mut patients	100 (159)	8.61	1.91	0.41 [0.262-0.634]
ESR1 D538G-mut	61 (97)	9.0	1.9	0.38 [0.21-0.67]
<i>ESR1</i> Y537S/N-mut	58 (92)	9.0	1.9	0.25 [0.13-0.47]

90% of patients had one or more *ESR1* mutations detected in the three hot spots presented (D538G, Y537S, and/or Y537N)

PFS in patients with ≥12 months of prior ET + CDK4/6i and *ESR1*-mut



This was an exploratory analysis. Post-hoc analysis results are observational in nature. There was no prespecified statistical procedure controlling for type 1 error

CDK4/6, cyclin dependent kinase 4/6; CI, confidence interval; *ESR1*, estrogen receptor 1; ET, endocrine therapy; HER2, human epidermal growth factor receptor 2; HR, hazard ratio; mut, mutation; PFS, progression-free survival; SOC, standard of care Bardia A. et al. Clin Cancer Res. 2024: Online ahead of print

EMERALD: IN THE OVERALL POPULATION, THE MAJORITY OF ADVERSE EVENTS THAT OCCURRED WERE GRADE 1 OR 2¹

Most common adverse events ≥10% in either arm in the overall population¹

	Elacestrant (n=237)		SOC (n=230)
Adverse events ^{1,a}	All grades (%)	Grade ≥ 3 (%)	All grades (%)	Grade ≥3 (%)
Nausea	35	2.5	19	0.9
Vomiting ^b	19	0.8	9	0
Diarrhoea	13	0	10	1
Constipation	12	0	6	0
Abdominal pain ^b	11	1	10	0.9
Dyspepsia	10	0	2.6	0
Fatigue ^b	26	2	27	1
Decreased appetite	15	0.8	10	0.4
Headache	12	2	12	0
Hot flush	11	0	8	0

Nausea summary ¹	Elacestrant (n=237)	SOC (n=230)
Grade 3 nausea, %	2.5	0.9
Dose-reduction rate due to nausea, %	1.3	NA
Discontinuation rate due to nausea, %	1.3	0
Antiemetic use*, %	8.0	10.3 (AI) 3.7 (fulvestrant)

Nausea was generally reported early, with a median time to first onset of 14 days.²
* Patients may have been on antiemetics prior to enrollment.¹

- Treatment-related AEs leading to discontinuation were 3.4% and 0.9% in the elacestrant and SOC arms, respectively¹
- No hematologic safety signal was observed, and none of the patients in either treatment arm had sinus bradycardia¹

No grade 4 treatment-related AEs were reported¹/

^a Adverse events were graded using NCI CTCAE version 5.0; ^b Includes other related terms

Al, aromatase inhibitor; AE, adverse event; ER, estrogen receptor; FUL, fulvestrant; HER2, human epidermal growth factor receptor 2; NCI CTCAE, National Cancer Institute Common Terminology Criteria for Adverse Events; SOC, standard of care (fulvestrant or aromatase inhibitor)

^{1.} Bardia A et al. Clin Cancer Res. 2024; Online ahead of print; 2. Stemline. ORSERDU (elacestrant) Summary of Product Characteristics. 2024

ESR1 MUTATION: WHY, WHAT, WHEN AND HOW TO TEST

BREAST CANCER IS A DYNAMIC DISEASE WHERE MUTATIONS MAY EMERGE OVER THE COURSE OF 1L MBC TREATMENT

ESR1 mutations:

... are acquired

Breast cancer is a dynamic disease: new mutations develop over the course of treatment^{1,2}

... are subclonal

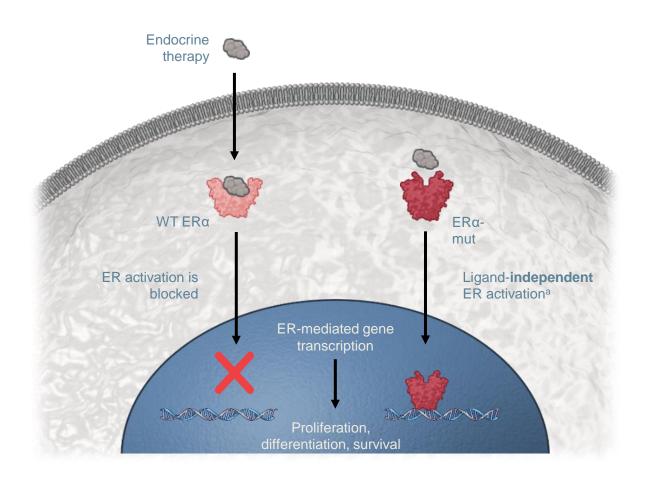
Molecular profile can vary between and within tumour sites, with a heterogeneous distribution in tissue^{2,3}

... drive treatment decisions

Biomarker profile influences choice of therapy in 2L+1

¹L, first line; 2L, second line; ESR1, estrogen receptor 1; mBC, metastatic breast cancer

ESR1 MUTATIONS ARE KEY DRIVERS OF RESISTANCE TO ESTABLISHED ENDOCRINE THERAPIES



- ETs exert their anti-tumour activity by binding to the ligand-binding pocket of the ER and inhibiting the activation of downstream targets^{1,2}
- By altering the ligand-binding domain, ESR1 mutations can also cause endocrine resistance to ETs^{1,2}

Al, aromatase inhibitor; ER, estrogen receptor; ET, endocrine therapy; LBD, ligand-binding domain; mut, mutant; NGS, next-generation sequencing; NR, nuclear receptor C-terminal domain; SERD, selective estrogen receptor degrader; SERM, selective estrogen receptor modulator; WT, wild-type Figure adapted from: 1. Bardia A, et al. N Engl J Med. 2018;379:1946–53; 2. Brett JO. Breast Cancer Res. 2021;23:85.

^a Without the need for estrogen binding

LONGER EXPOSURE TO ET IN MBC INCREASES THE CHANCE OF DEVELOPING ESR1-MUT DURING TREATMENT, EMERGING IN UP TO 40% OF PATIENTS¹⁻¹⁰

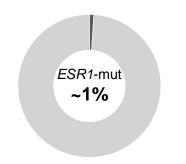
Early breast cancer^{1-3,5,7} →

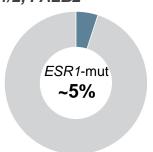
Adjuvant Tx

First progression during / after adjuvant therapy

Tissue biopsy to confirm breast cancer and testing for intrinsic mutations

- PIK3CA/AKT/PTEN
- BRCA1/2, PALB2





Advanced / metastatic breast cancer²⁻⁹

1L mBC Tx AI + CDK4/6i

Progression

Liquid biopsy Testing for acquired mutations





ESR1-mut ~40%

As ESR1 mutations occur almost exclusively after ET in the mBC setting,5 testing for ESR1-mut should occur at each progression if not detected previously¹⁰⁻¹²

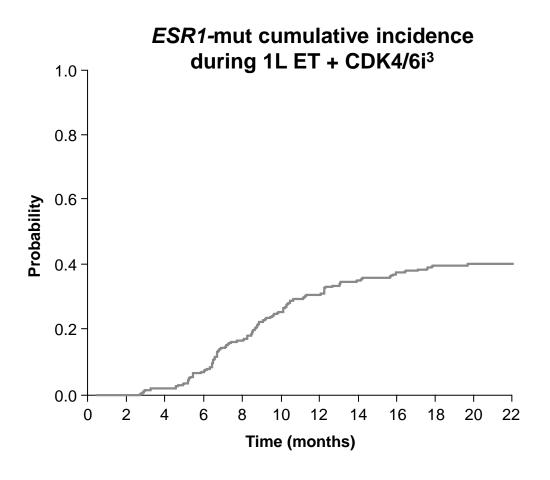
1L, first line; 2L, second line; 3L, third line; ESR1, estrogen receptor 1; ET, endocrine therapy; mBC, metastatic breast cancer; mut, mutation; PIK3CA, phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha.

Modified from: 1. Jeselsohn R, et al. Clin Cancer Res. 2014;20:1757-67; 2. Allouchery V, et al. Breast Cancer Res. 2018;20:40; 3. Schiavon G, et al. Sci Transl Med. 2015;7:313ra182;

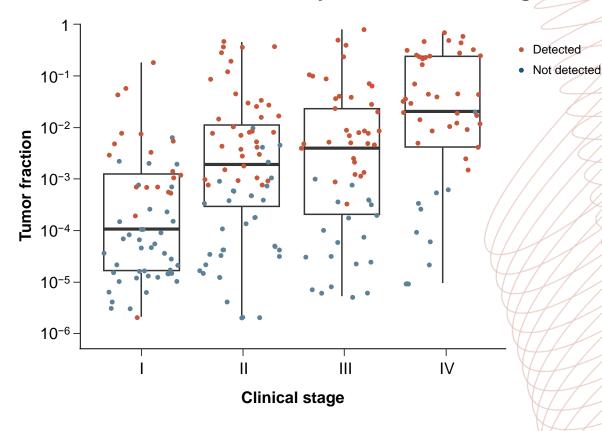
4. Brett JO, et al. Breast Cancer Res. 2021;23:85; 5. Toy W, et al. Nat Genet. 2013;45:1439-45; 6. Bidard FC, et al. J Clin Oncol. 2022;40:3246-56; 7. Jhaveri et al, Annals of Oncology. 2023;34(suppl_2):S334-S390; 8. Lin, et al, Annals of Oncology. 2023;34(suppl_2):S334-S390; 9. Bhave, et al, SmBCS 2023; Abstract PO2-1605; 10. Lee N, et al Int J Mol Sci. 2020;21:8807;

11, Gennari A. et al. Ann Oncol. 2021;32:1475-95: 12, Burstein HJ, et al J Clin Oncol. 2023;41:3423-5

ESR1-MUT CAN BE IDENTIFIED IN ctDNA AT PROGRESSION¹ ctDNA TUMOUR ALLELE FRACTION IS ASSOCIATED WITH CANCER AGGRESSIVENESS²

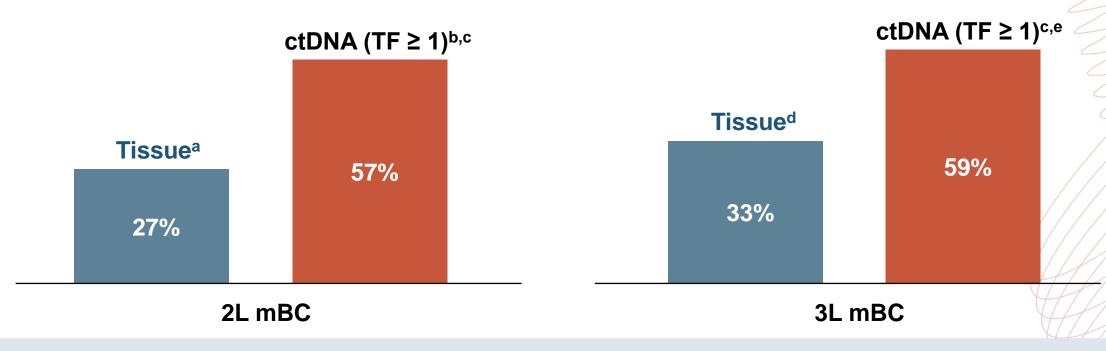


ctDNA tumour fraction by cancer clinical stage²



NOT ALL ESR1 MUTATIONS WILL BE DETECTED IN A TISSUE BIOPSY. BLOOD-BASED ctDNA IS A PREFERRED TESTING FOR ESR1-MUT DUE TO GREATER SENSITIVITY^{1,2}





If ESR1 mutations are not found when testing on tissue biopsy, ctDNA in liquid biopsy is recommended.²

Total sample size: an=269; n=104; ctDNA (TF ≥1%) showed a markedly higher prevalence of any of the genomic alterations assessed. ctDNA (TF <1%) for 2L mBC was 16.1%, and for 3L mBC was 17.2%; ctDNA (regardless of TF) for 2L mBC was 37.6%, and for 3L mBC was 38.7%; n=216; n=61

²L, second line; 3L, third line; ctDNA, circular tumor DNA; ESR1, estrogen receptor 1; mBC, metastatic breast cancer; mut, mutation; TF, tumor fraction

^{1.} Dustin D, et al. Cancer. 2019.1;125:3714-28; 2. Burnstein HJ, et al. J Clin Oncol. 2023;41:3423-5; 3. Adapted from Bhave MA, et al. Breast Cancer Res Treat. Published online: 14 June 2024

ESMO, NCCN AND ASCO RECOMMEND TESTING FOR *ESR1*MUTATIONS AT EACH PROGRESSION, PREFERABLY IN ctDNA, IF NOT DETECTED PREVIOUSLY¹⁻⁵

ESMO¹

Blood ctDNA or Tissue¹

NGS plasma or tissue biopsy

NCCN^{3,4}

Blood ctDNA or Tissue^{3,4}

- NCCN recommends evaluating ESR1 mutation status using NGS or PCR blood or tissue biopsy³
- NCCN does not recommend testing with primary archived tissue given the acquired nature of ESR1 mutations during mBC treatment⁴

ASCO⁵

Blood ctDNA (preferred) or Tissue⁵

- Testing with a certified assay should be performed at each progression, on blood or tissue
- Blood-based ctDNA is preferred owing to greater sensitivity
- ESR1 mutations develop in response to selection pressure during treatment and are typically undetectable in the primary tumor
- Patients whose tumour or ctDNA tests remain ESR1
 wild-type may warrant retesting at subsequent
 progression(s) to determine if an ESR1 mutation
 has arisen

CONCLUSION

KEY TAKEAWAYS



Treatment choices for patients with ER+/HER2- mBC are driven by endocrine sensitivity status and biomarkers^{1,2}



Elacestrant is indicated for patients with ESR1-mut tumours based on its efficacy and safety profiles^{3,4}



Longer duration of prior ET + CDK4/6i is a surrogate for endocrine sensitivity to elacestrant in ESR1-mut tumors^{2,3,5}



In tumours retaining endocrine-sensitivity and coexisting *PIK3CA* and *ESR1* mutations, elacestrant monotherapy can be a good option before PI3K/AKT inhibitors, as data suggest the ER pathway may drive disease progression²



ESR1-mut emerge over time in up to 40% of patients after initial endocrine therapy in mBC⁶⁻¹⁰



Testing for ESR1-mut should occur at each progression on ET if not detected previously, due to increasing chances of finding it 11-14



ESR1-mut are subclonal; therefore, not always detected with tissue biopsy. Blood-based ctDNA is considered the preferred testing methodology for *ESR1*-mut^{14,15}



Archival tissue from primary tumour should NOT be used to identify *ESR1*-mut, as *ESR1*-mut develop mainly during 1L metastatic treatment¹⁶

AKT, protein kinase B; mBC, Metastatic breast cancer; CDK4/6, cyclin-dependent kinase 4/6; ctDNA, circulating tumor DNA; ER, estrogen receptor; ESR1, estrogen receptor 1; ET, endocrine therapy; HER2, human epidermal growth factor receptor 2; mut, mutation; PIK3CA, phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha; SOC, standard of care

- 1. Gennari A, et al. Ann Oncol. 2021;32(12): 1475-1495. ESMO Metastatic Breast Cancer Living Guidelines. V1.1 May 2023; 2. Bardia, et al. Clin Cancer Res. 2024; Online ahead of print;
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