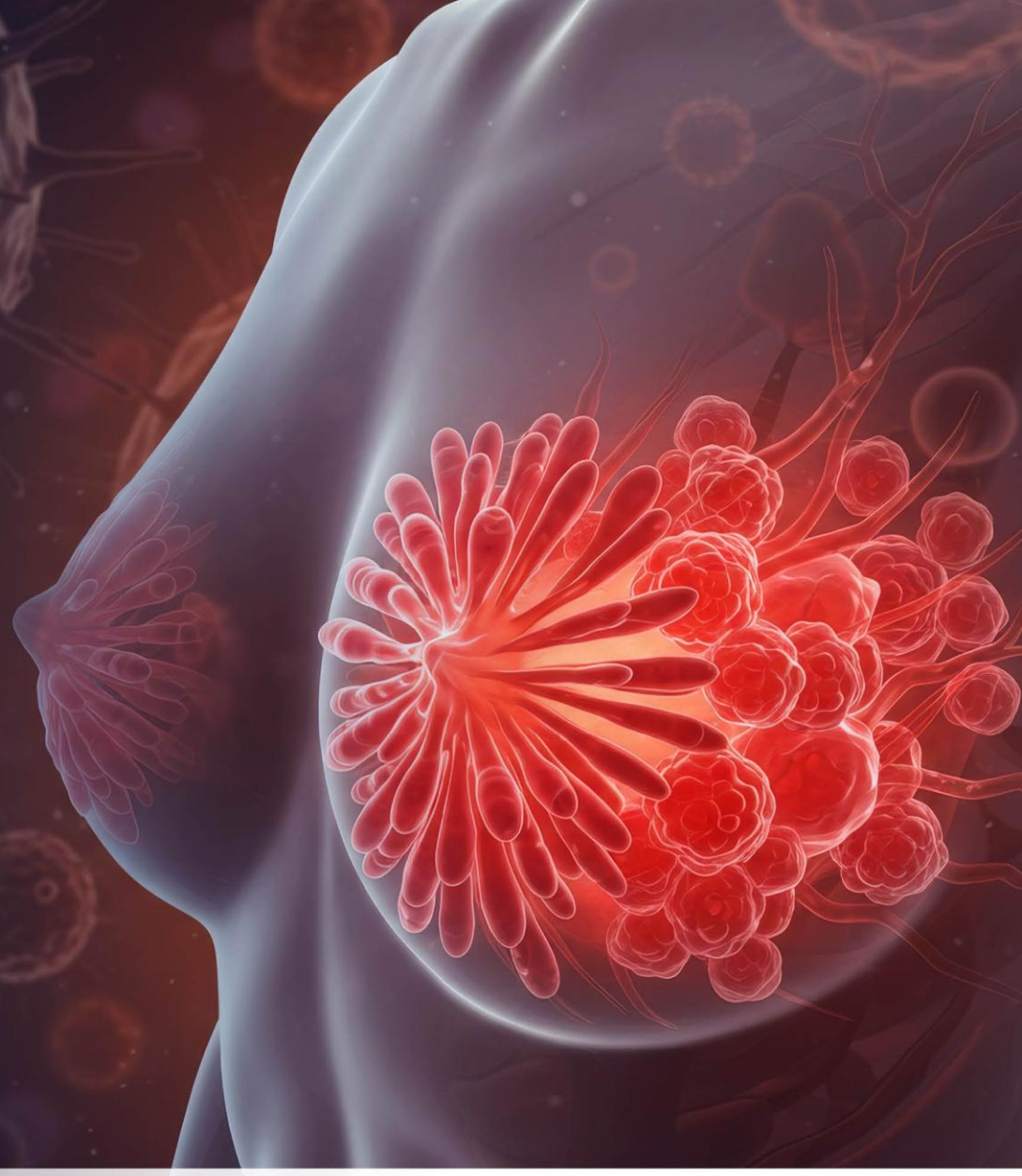




The Next Frontier:

*Strategic Sequencing and Biomarker-Driven
Therapy in HR+ Metastatic Breast Cancer*



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The Next Frontier: Strategic Sequencing and Biomarker-Driven Therapy in HR+ Metastatic Breast Cancer

Danielle Roman, PharmD, BCOP



Educational Objectives

After completion of this activity, participants will be able to:

- Analyze the latest clinical trial data for current and emerging targeted therapies such as selective estrogen receptor degraders, PROTAC inhibitors, PI3K α inhibitors, and AKT inhibitors in hormone receptor-positive (HR+) metastatic breast cancer, and their implications for treatment sequencing
- Determine how *PIK3CA* and *ESR1* mutation testing in clinical workflows can identify patients eligible for targeted therapies
- Explore the evolving role of circulating tumor DNA monitoring to inform treatment decisions throughout the course of HR+ metastatic breast cancer
- Apply practical, multidisciplinary approaches to anticipate, monitor, and manage treatment-related toxicities while maintaining adherence



**HR+/HER2– mBC:
Focus on Endocrine-Based Therapies**

HR+/HER2- BC: Epidemiology and Treatment Overview

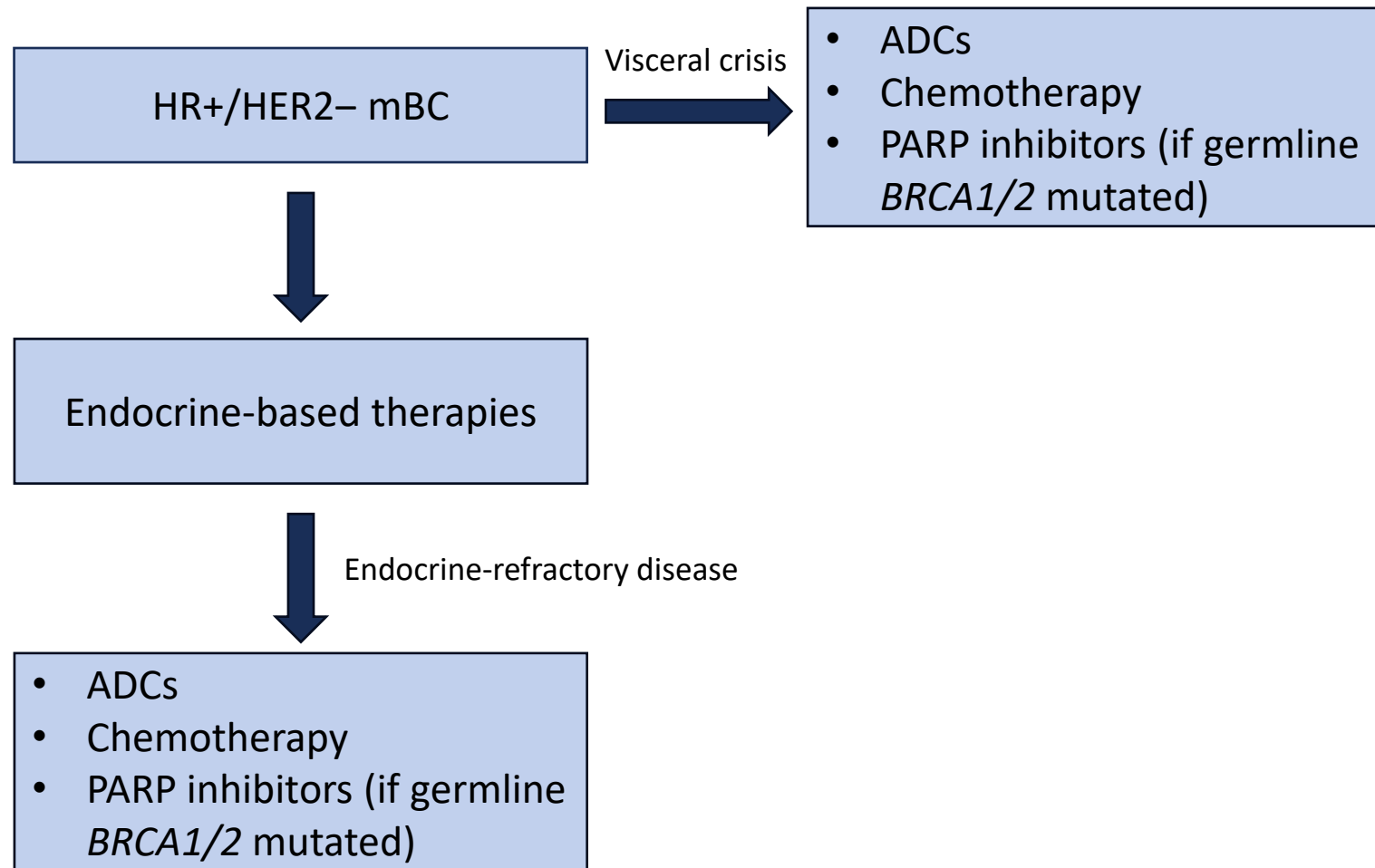
70%

of cases are HR+/HER2- subtype

HR+/HER2- → best survival pattern

Stage at diagnosis	5-year relative survival (%)
All stages	95.6
Localized	100
Regional	90.8
Distant	36.5

ADC, antibody-drug conjugates; HR, hormone receptor; mBC, metastatic breast cancer.



Biomarker Testing: Newly Diagnosed mBC

Biomarker	Detection	Treatment implications
HR status (ER/PR)	Tissue	Eligibility for ET
HER2 expression	Tissue	Eligibility for HER2-directed therapy
<i>PIK3CA</i> mutation	Tissue or ctDNA	Eligibility for first-line treatment with inavolisib if disease progression on adjuvant ET or relapse within 12 months of completing adjuvant ET
<i>ESR1</i> mutation (if progression on/after adjuvant AI)	ctDNA preferred	Oral SERD <ul style="list-style-type: none"> • Elacestrant • Imlunestrant

AI, aromatase inhibitor; ctDNA, circulating tumor DNA; ER/PR, estrogen/progesterone; ET, endocrine therapy; SERD, selective estrogen receptor degrader.

Treatment Algorithm for Hormone Sensitive Disease

Preferred first line

- AI + CDK4/6i
- Fulvestrant + inavolisib + palbociclib (*PIK3CA* mutation)
- Fulvestrant + CDK4/6i (if disease progression on adjuvant ET or relapse within 12 months of adjuvant ET completion)

CDK4/6i, CDK4/6 inhibitor.

Treatment Algorithm for Hormone Sensitive Disease

Preferred first line

- AI + CDK4/6i
- Fulvestrant + inavolisib + palbociclib (*PIK3CA* mutation)
- Fulvestrant + CDK4/6i (if disease progression on adjuvant ET or relapse within 12 months of adjuvant ET completion)

INAVO120: Fulvestrant + Inavolisib + Palbociclib

Phase 3, double-blind trial

- *PIK3CA*-mutated, HR+/HER2- aBC
- Measurable disease
- Progression during/within 12 months of adjuvant ET completion
- No prior treatment for aBC
- FBG <126 mg/dL and HbA_{1C} ≤6%

N = 325

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Inavolisib 9 mg oral daily + palbociclib 125 mg oral days 1-21 every 28 days + fulvestrant IM

Placebo + palbociclib 125 mg oral days 1-21 every 28 days + fulvestrant IM

Outcomes (months)			
Primary	Inavolisib	Control	HR (95% CI)
PFS	17.2	7.3	0.42 (0.32-0.55)
Secondary	Inavolisib	Control	HR (95% CI)
OS (median 34.2 months follow-up)	34	27	0.67 (0.48-0.94)
DOR	18.4	9.6	0.57 (0.33-0.99)
Median time to chemotherapy	35.6	12.6	0.43 (0.3-0.6)

Inavolisib is approved in combination with fulvestrant and palbociclib for endocrine-resistant, *PIK3CA*-mutated, HR+/HER2- aBC.

aBC, advanced breast cancer; DOR, duration of response; FBG, fasting blood glucose; HbA_{1C}, hemoglobin A_{1C}; IM, intramuscular; OS, overall survival; PFS, progression-free survival.

Biomarker Testing: After First-Line Progression

Biomarker	Detection	Treatment implications
HER2 expression	Tissue	Eligibility for HER2-directed therapy
<i>BRCA1/2</i> mutation (germline)	Tissue or ctDNA	PARP inhibitors <ul style="list-style-type: none"> • Olaparib • Talazoparib
<i>PIK3CA</i> mutation	Tissue or ctDNA	PI3K/AKT pathway inhibitors <ul style="list-style-type: none"> • Alpelisib + fulvestrant • Capivasertib + fulvestrant
<i>PTEN</i> alteration	Tissue or ctDNA	AKT pathway inhibitor <ul style="list-style-type: none"> • Capivasertib + fulvestrant
<i>AKT1</i> mutation	Tissue or ctDNA	AKT pathway inhibitor <ul style="list-style-type: none"> • Capivasertib + fulvestrant
<i>ESR1</i> mutation	ctDNA preferred	Oral SERD <ul style="list-style-type: none"> • Elacestrant • Imlunestrant

Treatment Algorithm for Hormone Sensitive Disease

Preferred first line

- AI + CDK4/6i
- Fulvestrant + inavolisib + palbociclib (*PIK3CA* mutation)
- Fulvestrant + CDK4/6i (if disease progression on adjuvant ET or relapse within 12 months of adjuvant ET completion)

Preferred second line and subsequent

- Fulvestrant + CDK4/6i
- Fulvestrant + alpelisib (if *PIK3CA* mutation)
- Fulvestrant + capivasertib (if *PIK3CA* mutation, *AKT1* mutation, *PTEN* alteration)
- Everolimus + ET

Other recommended for first and/or subsequent line

- | | |
|---|--|
| <ul style="list-style-type: none">• Elacestrant (<i>ESR1</i> mutation and progression on AI + CDK4/6i)• Imlunestrant (<i>ESR1</i> mutation and progression on AI +/- CDK4/6i)• Fulvestrant + AI | <ul style="list-style-type: none">• Fulvestrant• AI• Tamoxifen |
|---|--|

Treatment Algorithm for Hormone Sensitive Disease

Preferred first line

- AI + CDK4/6i
- Fulvestrant + inavolisib + palbociclib (*PIK3CA* mutation)
- Fulvestrant + CDK4/6i (if disease progression on adjuvant ET or relapse within 12 months of adjuvant ET completion)

Preferred second line and subsequent

- Fulvestrant + CDK4/6i
- Fulvestrant + alpelisib (if *PIK3CA* mutation)
- Fulvestrant + capivasertib (if *PIK3CA* mutation, *AKT1* mutation, *PTEN* alteration)
- Everolimus + ET

Other recommended for first and/or subsequent line

- Elacestrant (*ESR1* mutation and progression on AI + CDK4/6i)
- Imlunestrant (*ESR1* mutation and progression on AI +/- CDK4/6i)
- Fulvestrant + AI
- Fulvestrant
- AI
- Tamoxifen

CAPitello-291: Capivasertib + Fulvestrant

Phase 3, double-blind trial

- HR+/HER2– aBC/mBC who progressed on AI +/- CDK4/6i or during/within 12 months of adjuvant AI
- Received ≤2 lines of ET and ≤1 line of chemotherapy
- Stratified based on *PIK3CA* mutation or *PTEN* or *AKT1* alteration
- Excluded if HbA_{1c} >8%

N = 708

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Capivasertib 400 mg oral twice a day x 4 days, followed by 3 days off + fulvestrant IM

Placebo + fulvestrant IM

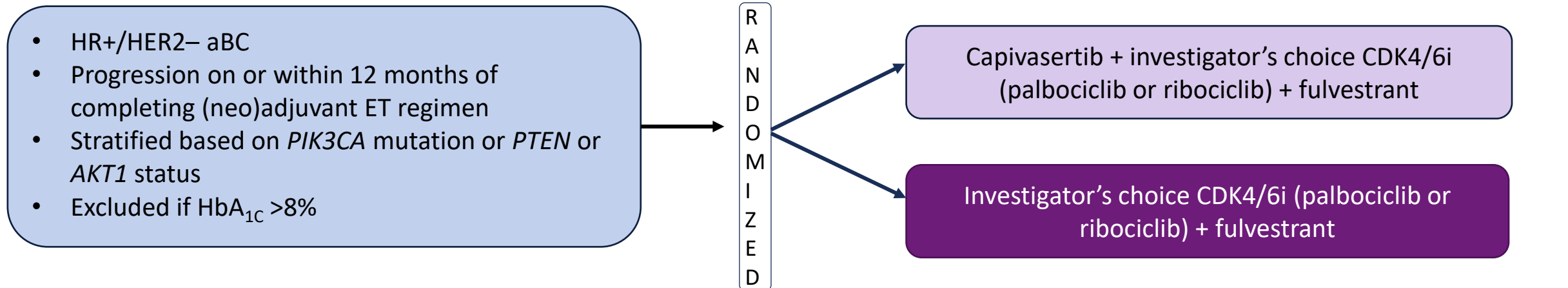
Outcomes (months)			
Primary	Capivasertib	Control	HR (95% CI)
PFS (overall population)*	7.2	3.6	0.6 (0.51-0.71)
PFS (<i>AKT</i> altered)	7.3	3.1	0.5 (0.38-0.65)
Secondary	Capivasertib	Control	HR (95% CI)
PFS (<i>AKT</i> non-altered)	5.3	3.7	0.79 (0.61-1.02)
OS at 18 months (overall population)	73.9%	65%	0.74 (0.56-0.98)
OS at 18 months (<i>AKT</i> altered)	73.2%	62.9%	0.69 (0.45-1.05)
ORR (overall population)	22.9%	12.2%	2.19 (1.42-3.36)
ORR (<i>AKT</i> altered)	28.8%	9.7%	3.93 (1.93-8.04)

Capivasertib is approved in combination with fulvestrant for HR+/HER2– aBC with ≥1 *PIK3CA*, *AKT1*, or *PTEN* alterations following progression on ≥1 line ET for mBC or recurrence within 12 months of completing adjuvant ET.

*PFS in overall population improved regardless of prior CDK4/6i exposure.

Moving Up in the Line of Therapy? CAPItello-292: Capiwasertib + Fulvestrant in the First-Line Metastatic Setting

- Phase 1b/3 study to evaluate the efficacy, safety, and degree of added benefit of capivasertib added to CDK4/6i + fulvestrant for locally advanced (inoperable) or metastatic HR+/HER2– BC
 - Phase 1b → determine recommended phase 3 doses of the triplet combinations



Estimated study primary completion date: November 2027

Treatment Algorithm for Hormone Sensitive Disease

Preferred first line

- AI + CDK4/6i
- Fulvestrant + inavolisib + palbociclib (*PIK3CA* mutation)
- Fulvestrant + CDK4/6i (if disease progression on adjuvant ET or relapse within 12 months of adjuvant ET completion)

Preferred second line and subsequent

- Fulvestrant + CDK4/6i
- Fulvestrant + alpelisib (if *PIK3CA* mutation)
- Fulvestrant + capivasertib (if *PIK3CA* mutation, *AKT1* mutation, *PTEN* alteration)
- Everolimus + ET

Other recommended for first and/or subsequent line

- Elacestrant (*ESR1* mutation and progression on AI + CDK4/6i)
- Imlunestrant (*ESR1* mutation and progression on AI +/- CDK4/6i)
- Fulvestrant + AI
- Fulvestrant
- AI
- Tamoxifen

Oral SERD Overview

FDA approved

Elacestrant

Imlunestrant

Investigational

Camizestrant

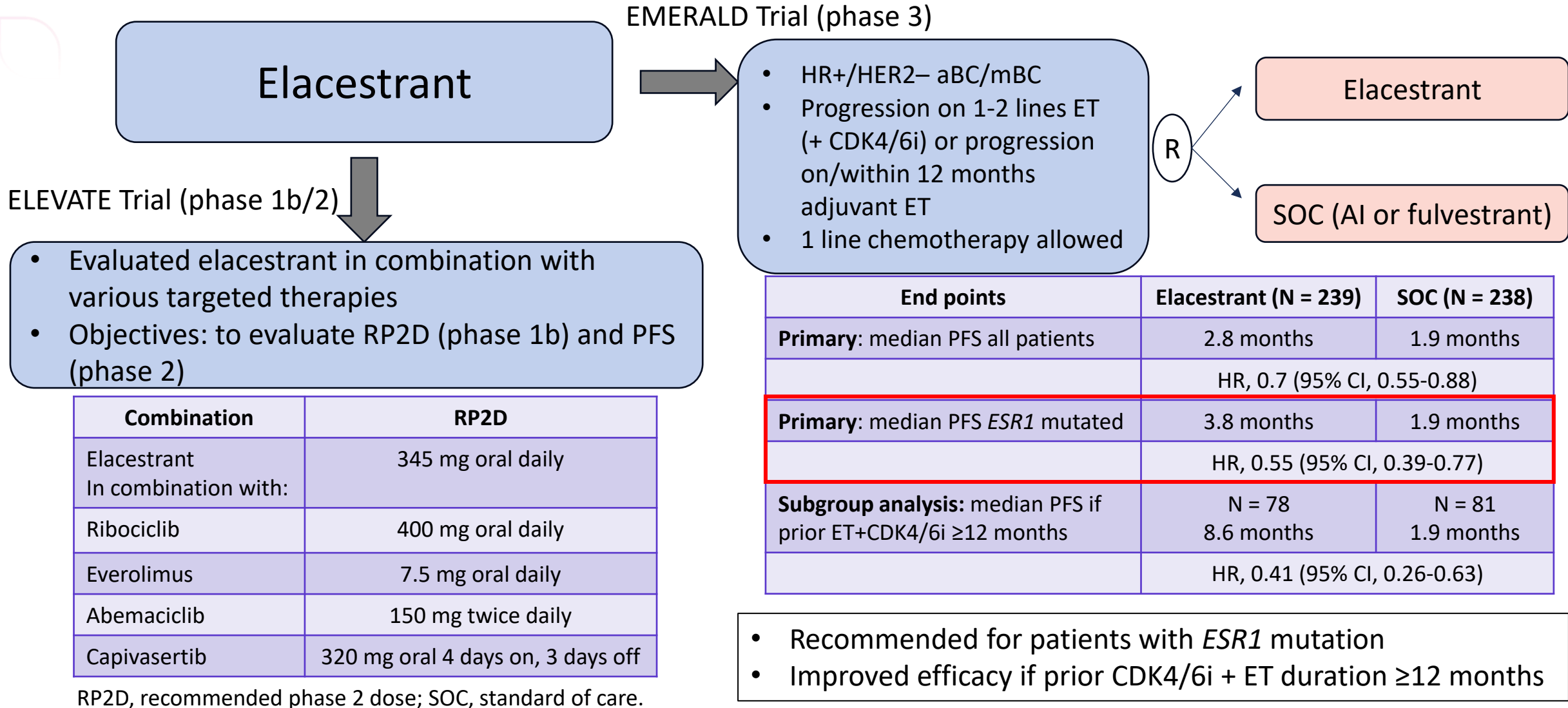
Giredestrant

Vepdegestrant
(*PROTAC*)

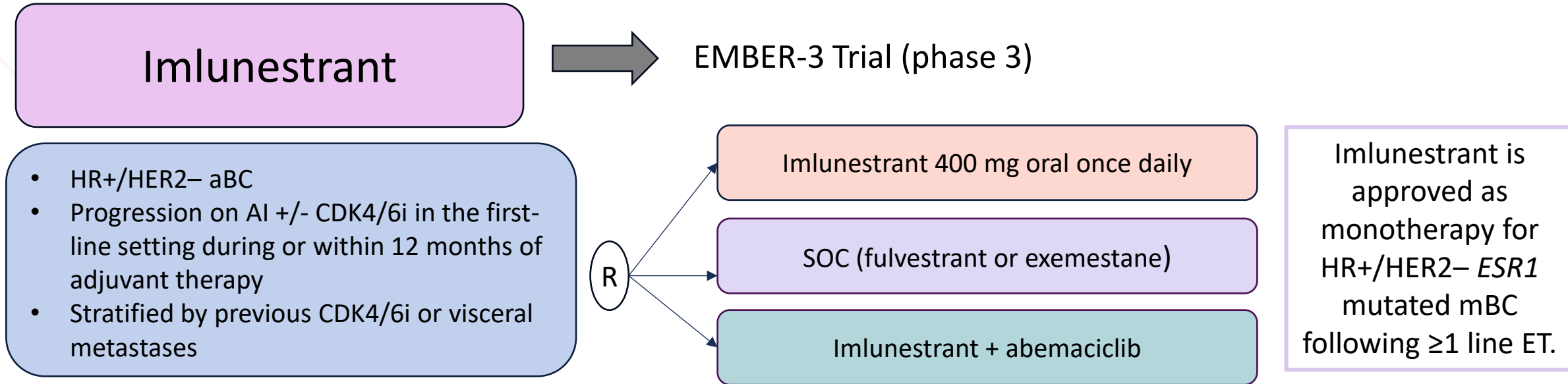
→ Efficacy in HR+/HER2– early BC based on results of phase 3 lidERA trial (presented at SABCS 2025).

PROTAC, proteolysis-targeting chimera; SABCS, San Antonio Breast Cancer Symposium.

Trial Data Supporting Elacestrant

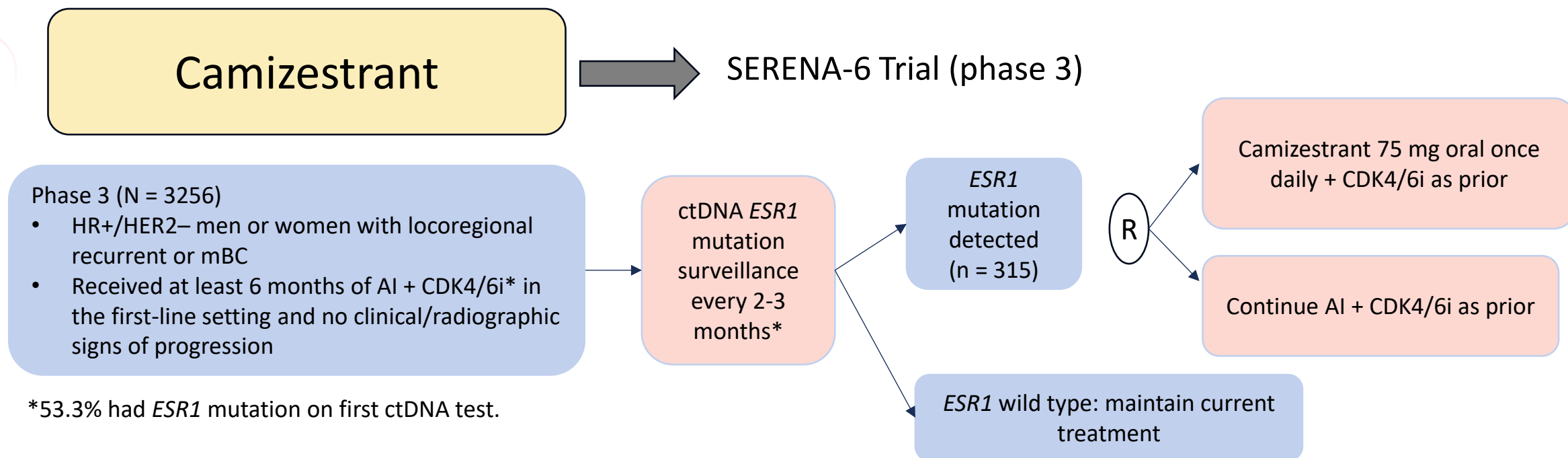


Trial Data Supporting Imlunestrant



End points	Imlunestrant (N = 331)	SOC (N = 330)	Results
Primary: mPFS, all patients	5.6 months	5.5 months	HR, 0.87 (95% CI, 0.72-1.04)
Primary: mPFS, patients with <i>ESR1</i> mutation	5.5 months	3.8 months	HR, 0.62 (95% CI, 0.46-0.82)
Secondary: OS at 18 months in with <i>ESR1</i> mutation	77%	58.6%	HR, 0.55 (95% CI, 0.35-0.86; <i>P</i> = .008); threshold 2.2×10^{-10}
End points	Imlunestrant + abemaciclib (N = 213)	Imlunestrant (N = 213)	Results
Primary: mPFS, all patients	9.4 months	5.5 months	HR, 0.57 (95% CI, 0.44-0.73; <i>P</i> < .001)

Trial Data Supporting Camizestrant



Outcomes			
Primary	Camizestrant	Control	HR (95% CI)
mPFS (months)	16	9.2	0.44 (0.31-0.60); $P < .001$
Secondary	Camizestrant	Control	HR (95% CI)
OS (immature)	NR	NR	0.91 (0.48-1.73)

- Switching to camizestrant following detection of *ESR1* mutation before clinical disease progression improves mPFS
- Camizestrant PDUFA date = first half of 2026

PDUFA, Prescription Drug User Fee Act.

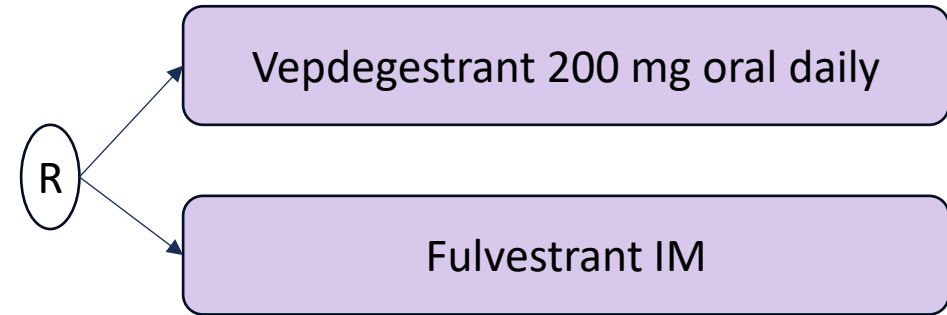
Bidard FC et al; SERENA-6 Study Group. *N Engl J Med*. 2025;393(6):569-580; Areitio B. ApexOnco. September 26, 2025. Accessed March 17, 2026. <https://www.oncologypipeline.com/apexonco/second-line-esr1-mutant-patients>

PROTAC: Vepdegestrant

VERITAC-2 Trial

Phase 3 (N = 624)

- HR+/HER2– locoregional recurrent or mBC
- Progressed on up to 2* prior line ET, 1 of which must include up to 1 CDK 4/6i for mBC or adjuvant setting if progression occurred during/within 12 months of treatment
- Received 6 months of most recent ET prior to progression
- Excluded prior fulvestrant, elacestrant, or chemotherapy for mBC



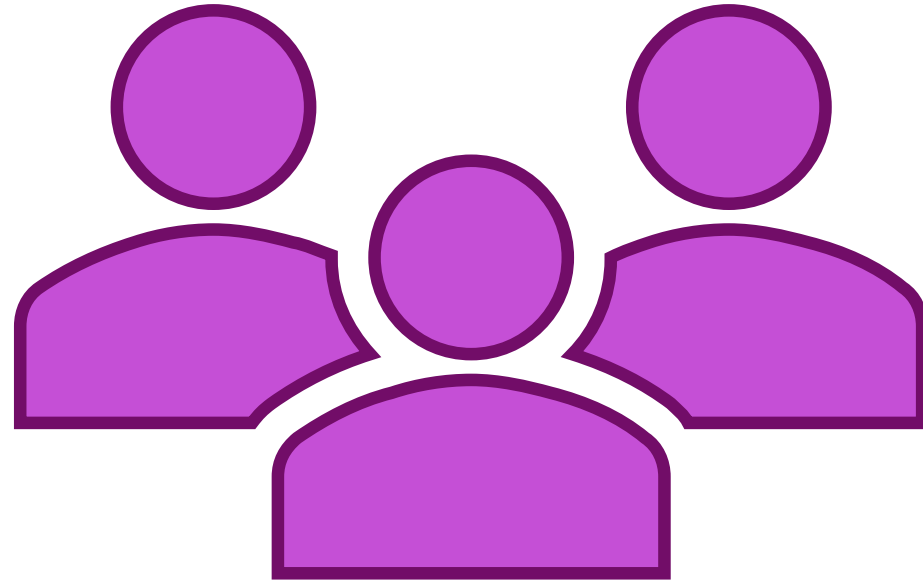
*79% of patients had received 1 line of ET; 49% received palbociclib as CDK4/6i.

Outcomes			
Primary	Vepdegestrant	Control	HR (95% CI)
PFS (<i>ESR1</i> mutated; months)	5	2.1	0.58 (0.43-0.78)
PFS (overall; months)	3.8	3.6	0.83 (0.69-1.01)
Secondary	Vepdegestrant	Control	HR (95% CI)
OS (immature)	NR	NR	NR
ORR (<i>ESR1</i> mutated)	18.6%	4%	RR, 4.64 (1.63-13.22)

- Vepdegestrant improved mPFS for patients with an *ESR1* mutation
- PDUFA date = June 2026

43.3% of patients had an *ESR1* mutation.

Case Discussion



Case #1: DA



- DA is a 57-year-old postmenopausal woman who is on first-line treatment with ribociclib + fulvestrant for HR+/HER2- mBC. Unfortunately, her treatment has been complicated by hepatotoxicity and neutropenia.
- Next-generation sequencing testing results show *PIK3CA* and *ESR1* mutations.



Audience Response Question

What therapy should be recommended for DA's *PIK3CA*- and *ESR1*-mutated HR+/HER2- mBC?

- A. Alpelisib + fulvestrant
- B. Capivasertib + fulvestrant
- C. Elacestrant
- D. Imlunestrant

Patient Case: Multiple Mutations



How does a provider choose when a patient has multiple mutations?



What are the differences in oral SERDs?

Oral SERDs

	Elacestrant (EMERALD)	Imlunestrant (EMBER-3)
Mechanism	Estrogen receptor antagonist and degrader	Estrogen receptor antagonist and degrader
Dosing	345 mg oral daily with food	400 mg oral daily 2 hours before or 1 hour after food
Metabolism/DDI	<ul style="list-style-type: none"> Major CYP3A4 substrate Minor CYP2C9, CYP2A6 substrate OATP2B1 	<ul style="list-style-type: none"> Major CYP3A4 substrate UGT1A1 substrate BCRP, PGP inhibitor
Key AEs; all grade (grade 3/4)		
Nausea	35% (2.5%)	17.1% (0.3%)
Increased cholesterol	30% (1%)	10% (0%)
Increased triglycerides	27% (2%)	21% (0%)
Fatigue	26% (2%)	22.6% (0.3%)
Increased AST	13.1% (1.7%)	12.5% (0.9%)
Increased ALT	9.3% (2.1%)	10.4% (0.3%)
Arthralgia	14.3% (0.8%)	14.1% (0.6%)

ALT, alanine aminotransferase; AST, aspartate aminotransferase; DDI, drug-drug interaction.

Patient Case: Multiple Mutations



How does a provider choose when a patient has multiple mutations?



What are the differences in oral SERDs?



Concerns with previous treatment toxicity



Investigational agents and combinations?

Investigational Oral Endocrine Therapies

	Vepdegestrant (VERITAC-2)	Camizetrant (SERENA-6)
Mechanism	PROTAC estrogen receptor degrader	Estrogen receptor antagonist and degrader
Dosing	200 mg oral daily with food	75 mg oral once daily with or without food in combination with a CDK4/6i
Metabolism/DDI	<ul style="list-style-type: none"> PGPi H₂ receptor antagonists/local antacids 10-12 hours before/after 	<ul style="list-style-type: none"> CYP2C9, CYP2C19, CYP3A4/5i BCRPI
Key AEs; all grade (grade 3/4)		
Nausea	13.5% (0%)	Nausea 9.7% (0%)
Fatigue	26.6% (1%)	Fatigue 15.5% (0%)
Increased AST	14.4% (1.3%)	Photopsia 20% (0.6%)
Increased ALT	14.4% (0.6%)	Dry eye 11.6% (0%)
Arthralgia	10.6% (1%)	Arthralgia 16.1% (0%)
Neutropenia	11.5% (1.9%)	Neutropenia 85% (45.2) **CDK4/6i combination**
QT prolongation	9.9% (1.6%)	Bradycardia 5.2% (0%)

Investigational Combinations

Updates From SABCS

EMBER-3

Imlunestrant + abemaciclib (N = 213) vs imlunestrant (N = 213)

- **mPFS (all patients): 10.9 months** (95% CI, 7.5-12.5) vs **5.5 months** (95% CI, 3.8-5.6) months
- **HR, 0.59** (95% CI, 0.47-0.74; *P* <.0001)
- **mPFS in patients with prior CDK4/6i: 9.1 months** (95% CI, 7.2-11.3) vs **3.7 months** (95% CI, 2.1-5.5) months
- **HR, 0.53** (95% CI, 0.40-0.69; *P* <.0001)

ELEVATE Arm B

Elacestrant + everolimus (N = 50)

- Prior CDK4/6i required
- **mPFS: 8.3 months** (95% CI, 4.0-10.2)
- **ORR: 19.5%**
- **DCR: 82.9%**
- **mDOR: 8.54 months**

ELEVATE Arm D

Elacestrant + abemaciclib (N = 60)

- **mPFS: 14.3 months** (95% CI, 7.3-16.6)
- **ORR: 24.6%**
- **DCR: 91.2%**
- **mDOR: 14.75 months**

DCR, disease control rate.

Case #2: NS

- NS is a 64-year-old postmenopausal woman initially diagnosed in 2023 with HR+/HER2– (immunohistochemistry [IHC] 1+), Oncotype DX score 37. She was treated with a left mastectomy → docetaxel/cyclophosphamide x 4 cycles → exemestane x planned 5 years.
- 2 years into her ET course, she presents with metastatic disease to the liver that is HR+/HER2– (IHC 0).

Genetic testing

- *PIK3CA* mutation

Past medical history

- Hypertension
- Hyperlipidemia

Lab results

- Baseline HbA_{1c}: 4.5%
- FBG: 78 mg/dL
- Absolute neutrophil count (ANC): 1600





Audience Response Question

What therapy should be recommended for NS's *PIK3CA*-mutated HR+/HER2- mBC?

- A. Abemaciclib + fulvestrant
- B. Ribociclib + letrozole
- C. Fulvestrant + inavolisib + palbociclib

Patient Case: Triple Therapy



Triplet therapy eligibility



Are there any situations where triplet therapy might be avoided in eligible patients?



Hyperglycemia management

Case #2: NS continued

- Patient initiated inavolisib 9 mg oral daily, palbociclib 125 mg oral daily days 1-21 every 28 days, and standard dosing of fulvestrant.
- Treatment course:

Cycle	Lab value	Treatment modification
2	ANC 440	Palbociclib dose reduced to 100 mg
2	FBG: 210	Start metformin; hold inavolisib until FBG \leq 160
5	--	Palbociclib dose reduced to 75 mg due to fatigue
5	FBG: 230	Increase metformin; hold inavolisib then resume at reduced dose of 6 mg
6	--	Inavolisib dose reduced to 3 mg due to diarrhea

PI3K/PTEN/AKT1 Pathway Inhibitors

	Alpelisib (SOLAR-1)	Capivasertib (CAPitello-291)	Inavolisib (INAVO120)
Mechanism	Inhibitor of PI3K p110α subunit	Inhibitor of AKT (AKT1, AKT2, AKT3)	Inhibitor of PI3K p110α subunit
Dosing	300 mg oral once daily with food in combination with fulvestrant	400 mg oral twice daily for 4 days with or without food , followed by 3 days off in combination with fulvestrant	9 mg oral once daily with or without food in combination with palbociclib + fulvestrant
Metabolism/DDI	<ul style="list-style-type: none"> BCRP substrate CYP2C9, CYP2B6, CYP3A4 inducer CYP3A4, Pgp, OATP1B1/OCT2i 	CYP3A4 substrate	<ul style="list-style-type: none"> BCRP, Pgp substrate Minimal CYP3A4 metabolism

Key AEs; all grade (grade 3/4)

	Alpelisib (SOLAR-1)	Capivasertib (CAPitello-291)	Inavolisib (INAVO120)
Hyperglycemia	63.7% (36.6%); median onset 15 days	16.3% (2.3%); median onset 15 days	58.6% (5.6%); median onset 7 days
Diarrhea	57.7% (6.7%); median onset 46 days	72.4% (9.3%); median onset 8 days	48.1% (3.7%); median onset 15 days
Rash	53.9% (20%); median onset 13 days	38% (12.1%); median onset 12 days	25.3% (0%); median onset 29 days
Nausea	44.7% (2.5%)	34.6% (0.8%)	27.8% (0.6%)
Stomatitis	24.6% (2.5%)	14.6% (2%)	51.2% (5.6%)
Neutropenia	NR	NR	88.9% (80.2%) **Combination with palbociclib**

Hyperglycemia Management

Ensure proactive monitoring.
Consider prophylactic metformin.

Grade 1 FBG >ULN to 160 mg/dL OR HbA _{1c} >7% (for capivasertib)	Alpelisib, capivasertib, and inavolisib: continue and initiate/intensify anti-hyperglycemic regimen
Grade 2 FBG >160-250 mg/dL	Alpelisib: continue; if FBG does not decrease to ≤160 mg/dL within 21 days, reduce dose
	Capivasertib: hold until FBG ≤160 mg/dL. If recovery in ≤28 days, resume same dose but if >28 days, resume same dose Inavolisib: hold until FBG ≤160 mg/dL, then resume at same dose level; if FBG persists >200-250 mg/dL for 7 days, consider endocrine consult
Grade 3 FBG >250-500 mg/dL	Alpelisib: hold; if FBG ≤160 mg/dL within 3-5 days, resume at reduced dose. If not resolved within 21 days, d/c
	Capivasertib: hold until FBG ≤160 mg/dL. If recovery occurs ≤28 days, resume at reduced dose but if >28 days, d/c
	Inavolisib: hold; if FBG ≤160 mg/dL within 7 days, resume at same dose. If FBG ≤160 mg/dL for ≥8 days, resume at reduced dose. If >250-500 mg/dL recurs within 30 days, hold until ≤160 mg/dL, then resume at reduced dose.
Grade 4 FBG >500 mg/dL	Alpelisib: hold. If FBG ≤500 mg/dL, follow recommendations for grade 3: if FBG confirmed at >500 mg/dL, d/c
	Capivasertib: hold; if life-threatening sequelae or if FBG persists at ≥500 mg/dL after 24 hours, d/c. If FBG ≤500 m/dL within 24 hours, then follow guidance as above for relevant grade Inavolisib: hold; if FBG ≤160 mg/dL, resume at reduced dose. If FBG >500 mg/dL recurs within 30 days, d/c

d/c, discontinue; ULN, upper limit of normal.

Conclusion

Oral targeted therapies are important component of treatment for HR+/HER2– mBC.

Ensuring appropriate biomarker testing in HR+/HER2– mBC is critical to identify possible treatment targets in the first-line setting and beyond.

ctDNA is the preferred testing method for detecting an *ESR1* mutation. Switching to an oral SERD proactively at the development of an *ESR1* mutation (without clinical progression) may be an opportunity to improve PFS.

Proactive monitoring and management of AEs with oral targeted therapies are essential responsibilities of the health care team.

Additional Resources

Resources

Onclive: Targeted Therapies in HR+/HER2– Breast Cancer	https://cdn.sanity.io/files/0vv8moc6/onclive/e1c578a007e40011889e4042fb5673734530d65b.pdf/02_OSP0125_BTG_Breast_Feb_2025.pdf
Oral Chemo Education Sheets	https://www.oralchemoedsheets.com/
Moore HN et al. Effective strategies for the prevention and mitigation of phosphatidylinositol-3-kinase inhibitor-associated hyperglycemia: optimizing patient care. <i>Clin Breast Cancer</i> . 2025;25(1):1-11.	



Thank you!