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Updates in ER+ Breast Cancer: Overcoming Endocrine Resistance

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Overview: Overcoming Endocrine Resistance

- SONIA: 1st v. 2nd line CDK4/6 inhibitor
- EMERALD: Elacestrant (oral SERD)
- CAPItello: Capivasertib (AKT inhibitor)
- Active trials at UCSD



Zardavas D, Baselga J, Piccart M. Nat Rev Clin Oncol. 2013;10(35):191–210.

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SONIA: Is there a difference between CDK4/6i in 1st vs 2nd line setting for HR+ HER2- MBC? Maybe not for some, but who?



Sonke et al, ASCO 2023

100%

75%

50%

25%

0%

First-line

Second-line

probability

ŝ

SONIA: Is there a difference between CDK4/6i in the 1st vs 2nd line setting for HR+ HER2- MBC? Maybe not for some, but who?



No difference in OS

No clear differences by subgroups

Benefits of 2nd line CDK4/6: fewer AEs, shorter duration on CDK4/6i (24.6mos 1st line vs 8.4mos 2nd line), lower costs Caveats:

- 1. Most patients received Palbociclib (>90%) which has no significant benefit in OS (PALOMA-2)
- 2. 2nd line therapy now is rapidly improving; Fulvestrant single agent may not be appropriate for 2nd line therapy anymore

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EMERALD Phase 3 Study Design



- ESR1-mutation status^e
- Prior treatment with fulvestrant
- Presence of visceral metastases

^aDocumentation of ER+ tumor with \geq 1% staining by immunohistochemistry; ^bRecruitment from February 2019 to October 2020; ^cProtocol-defined dose reductions permitted; ^dBlinded Independent Central Review. ^e*ESR1*-mutation status was determined by ctDNA analysis using the Guardant360 assay (Guardant health, Redwood City, CA). ^fRestaging CT scans every 8 weeks.

CBR, clinical benefit rate; DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; ORR, objective response rate; OS, overall survival, PD, progressive disease; PFS: progression-free survival; Pts, patients; R, randomized. SOC, standard of care.

Baseline Demographic and Disease Characteristics

	Elac	estrant	S	oc
Parameter	All (N=239)	mESR1 (N=115)	All (N=238)	mESR1 (N=113)
Median age, years (range)	63.0 (24-89)	64.0 (28-89)	63.5 (32-83)	63.0 (32-83)
Gender, n % Female Male	233 (97.5) 6 (2.5)	115 (100) 0	237 (99.6) 1 (0.4)	113 (100) 0
ECOG PS, n (%) 0 1 >1	143 (59.8) 96 (40.2) 0	67 (58.3) 48 (41.7) 0	135 (56.7) 102 (42.9) 1 (0.4)	62 (54.9) 51 (45.1) 0
Visceral metastasis*, n (%)	163 (68.2)	81 (70.4)	168 (70.6)	83 (73.5)
Bone-only disease, n (%)	38 (15.9)	14 (12.2)	29 (12.2)	14 (12.4)
Prior adjuvant therapy, n (%)	158 (66.1)	62 (53.9)	141 (59.2)	65 (57.5)
Number of prior lines of endocrine therapy,** n (%) 1 2	129 (54.0) 110 (46.0)	73 (63.5) 42 (36.5)	141 (59.2) 97 (40.8)	69 (61.1) 44 (38.9)
Number of prior lines of chemotherapy,** n (%) 0 1	191 (79.9) 48 (20.1)	89 (77.4) 26 (22.6)	180 (75.6) 58 (24.4)	81 (71.7) 32 (28.3)

*Includes lung, liver, brain, pleural, and peritoneal involvement

**In the advanced/metastatic setting

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Primary Endpoint: PFS by IRC

All Patients (ITT)



Elacestrant demonstrated a significant improvement versus SOC in all patients with ER+/HER2advanced/metastatic breast cancer following CDK4/6i therapy

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Primary Endpoint: PFS by IRC

Patients With Tumors Harboring mESR1



Elacestrant is associated with a 45% reduction in the risk of progression or death in patients harboring *mESR1*

Elacestrant demonstrated a significant improvement versus SOC in patients with ER+/HER2advanced/metastatic breast cancer and *mESR1* following CDK4/6i therapy

PFS Rate at 6 and 12 Months: All Patients and *mESR1* Group



All Patients

Elacestrant demonstrated a higher PFS rate at 6 and 12 months versus SOC endocrine therapy in patients with ER+/HER2- advanced/metastatic breast cancer following prior CDK4/6i therapy

PFS: Elacestrant vs Fulvestrant (All Patients and *mESR1* Group)

All Patients



Patients With Tumors Harboring mESR1

Elacestrant demonstrated a significant improvement versus Fulvestrant as SOC in patients with ER+/HER2advanced/metastatic breast cancer and *mESR1* following CDK4/6i therapy

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Overall Survival (Interim Analysis)

All Patients



Patients with mESR1

 While no statistically significant differences were noted at the a=0.0001 level in OS, an evident trend favoring elacestrant over SOC was noted in both groups. Final analysis with mature data is expected to take place in late 2022/early 2023.

Treatment-Emergent Adverse Events ($\geq 10\%$ in Either Arm)

					SOC			
	Elacestrant N = 237, n (%)		Total N = 229, n (%)		Fulvestrant N = 161, n (%)		AI N = 68,	n (%)
Preferred Term	All Grades	Grade 3/4	All Grades	Grade 3/4	All Grades	Grade 3/4	All Grades	Grade 3/4
Nausea	83 (35.0)	6 (2.5)	43 (18.8)	2 (0.9)	26 (16.1)		17 (25.0)	2 (2.9)
Fatigue	45 (19.0)	2 (0.8)	43 (18.8)	2 (0.9)	35 (21.7)	1 (0.6)	8 (11.8)	1 (1.5)
Vomiting	45 (19.0)	2 (0.8)	19 (8.3)	-	12 (7.5)	-	7 (10.3)	-
Decreased appetite	35 (14.8)	2 (0.8)	21 (9.2)	1 (0.4)	12 (7.5)		9 (13.2)	1 (1.5)
Arthralgia	34 (14.3)	2 (0.8)	37 (16.2)	-	28 (17.4)	-	9 (13.2)	
Diarrhea	33 (13.9)	-	23 (10.0)	2 (0.9)	14 (8.7)	1 (0.6)	9 (13.2)	1 (1.5)
Back pain	33 (13.9)	6 (2.5)	22 (9.6)	1 (0.4)	16 (9.9)	1 (0.6)	6 (8.8)	
Aspartate aminotransferase increased	31 (13.1)	4 (1.7)	28 (12.2)	2 (0.9)	20 (12.4)	2 (1.2)	8 (11.8)	-
Headache	29 (12.2)	4 (1.7)	26 (11.4)		18 (11.2)	-	8 (11.8)	-
Constipation	29 (12.2)		15 (6.6)	-	10 (6.2)		5 (7.4)	
Hot flush	27 (11.4)	-	19 (8.3)		15 (9.3)		4 (5.9)	
Dyspepsia	24 (10.1)	-	6 (2.6)		4 (2.5)	-	2 (2.9)	-
Alanine aminotransferase increased	22 (9.3)	5 (2.1)	23 (10.0)	1 (0.4)	17 (10.6)	-	6 (8.8)	1 (1.5)

TEAE's leading to discontinuation of elacestrant or SOC were infrequent in both arms (6.3% and 4.4%) No tx-related deaths in either group

Conclusions: EMERALD

- Elacestrant is the first oral SERD to demonstrate statistically significant improvement in PFS vs. SOC ET in 2nd/3rd line ER+/HER2- MBC
 - 30% reduction in risk of progression or death in all pts
 - 45% reduction in risk of progression or death in pts with mESR1
 - Higher PFS at 6 and 12 months with elacestrant vs. SOC ET
 - Most patients will not respond, but those who do can see durable benefit
- Elacestrant well tolerated with a predictable and manageable safety profile consistent with other endocrine therapies
- Elacestrant combinations (eg with mTOR inhibitors and CDK4/6 inhibitors) are ongoing or planned.

Capivasertib and fulvestrant for patients with aromatase inhibitor-resistant hormone receptor-positive/human epidermal growth factor receptor 2-negative advanced breast cancer: Results from the Phase III CAPItello-291 trial

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Background and overview of capivasertib

- AKT pathway activation occurs in many HR+/HER2– ABC through alterations in *PIK3CA, AKT1 and PTEN*, but may also occur in cancers without those genetic alterations.^{1,2} AKT signalling is also implicated in the development of resistance to endocrine therapy²
- Capivasertib is a potent, selective inhibitor of all three AKT isoforms (AKT1/2/3)
- In the Phase II, placebo-controlled FAKTION trial³:
 - The addition of capivasertib to fulvestrant significantly improved PFS and OS in postmenopausal women with Al-resistant HR+/HER2– ABC in the overall population, with a more pronounced benefit in pathway altered tumours
 - No patients had received prior CDK4/6 inhibitors



^{1.} Millis et al. JAMA Oncol 2016;2:1565-1573; 2. Toss et al. Oncotarget. 2018;9:31606-31619; 3. How ell et al. Lancet Oncol 2022;23:851–64. ABC, advanced breast cancer. This presentation is the intellectual property of the author/presenter. Contact them at nick.turner@icr.ac.ukfor permission to reprint and/or distribute.

CAPItello-291: Study overview

Phase III, randomized, double-blind, placebo-controlled study (NCT04305496)

Patients with HR+/HER2- ABC

- Men and pre-/post-menopausal women
- Recurrence while on or <12 months from end of adjuvant AI, or progression while on prior AI for ABC
- ≤2 lines of prior endocrine therapy for ABC
- ≤1 line of chemotherapy for ABC
- Prior CDK4/6 inhibitors allowed (at least 51% required)
- No prior SERD, mTOR inhibitor, PI3K inhibitor, or AKT inhibitor
- HbA1c <8.0% (63.9 mmol/mol) and diabetes not requiring insulin allowed
- FFPE tumor sample from the primary/recurrent cancer available for retrospective central molecular testing

Capivas	ertib	400 mg twice daily, 4 days on, 3 days off
Fulvest	rant	500 mg: cycle 1, days 1 & 15; then every 4 weeks
R1:1 N=708) Strati • Live • Prio • Reg	n factors: stases (yes/no) ¼/6 inhibitor (yes/no)	
Placebo		Twice daily, 4 days on, 3 days off
Fulvest	rant	500 mg: cycle 1, days 1 & 15; then every 4 weeks

Dual primary endpoints

PFS by investigator assessment

- Overall
- AKT pathway-altered tumors (≥1 qualifying *PIK3CA*, *AKT1*, or *PTEN* alteration)

Key secondary endpoints

Overall survival

- Overall
- AKT pathway-altered tumors

Objective response rate

- Overall
- AKT pathway-altered tumors

HER2- was defined as IHC 0 or 1+, or IHC 2+/ISH-. *Region 1: United States, Canada, Western Europe, Australia, and Israel, Region 2: Latin America, Eastern Europe and Russia vs Region 3: Asia.

ABC, advanced (locally advanced [inoperable] or metastatic) breast cancer.

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

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Baseline and tumor characteristics

Characteristic		Overallp	opulation	AKT pathway-altered population		
		Capivasertib + fulvestrant (N=355)	Placebo+ fulvestrant (N=353)	Capivasertib + fulvestrant (N=155)	Placebo+ fulvestrant (N=134)	
Median age; years (ran	ge)	59 (26–84)	58 (26–90)	58 (36–84)	60 (34–90)	
Female; n (%)		352 (99.2)	349 (98.9)	153 (98.7)	134 (100)	
Postmenopausal; n (%))	287 (80.8)	260 (73.7)	130 (83.9)	105 (78.4)	
Race; n (%)	White Asian Black or African American Other	201 (56.6) 95 (26.8) 4 (1.1) 55 (15.5)	206 (58.4) 94 (26.6) 4 (1.1) 49 (13.9)	75 (48.4) 48 (31.0) 2 (1.3) 30 (19.4)	76 (56.7) 35 (26.1) 1 (0.7) 22 (16.4)	
Region [*] ; n (%)	1 2 3	197 (55.5) 68 (19.2) 90 (25.4)	198 (56.1) 68 (19.3) 87 (24.6)	80 (51.6) 29 (18.7) 46 (29.7)	76 (56.7) 24 (17.9) 34 (25.4)	
Metastatic sites; n (%)	Bone only Liver [*] Visceral	51 (14.4) 156 (43.9) 237 (66.8)	52 (14.7) 150 (42.5) 241 (68.3)	25 (16.1) 70 (45.2) 103 (66.5)	16 (11.9) 53 (39.6) 98 (73.1)	
Hormone receptor status; n (%) [†]	ER+/PR+ ER+/PR- ER+/PR unknown	255 (71.8) 94 (26.5) 5 (1.4)	246 (69.7) 103 (29.2) 4 (1.1)	116 (74.8) 35 (22.6) 4 (2.6)	101 (75.4) 31 (23.1) 2 (1.5)	
Endocrine resistance; n (%)	Primary Secondary	127 (35.8) 228 (64.2)	135 (38.2) 218 (61.8)	60 (38.7) 95 (61.3)	55 (41.0) 79 (59.0)	

*Baseline stratification factors. [†]One patient in the capivasertib + fulvestrant group was ER negative. Region 1: United States, Canada, Western Europe, Australia, and Israel, Region 2: Latin America, Eastern Europe and Russia, Region 3: Asia. Primary and secondary resistance were defined using the 4th ESO-ESMO International Consensus Guidelines for ABC.

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Prior treatments + AKT pathway alterations

		Overallp	opulation	AKT pathway-altered population		
Characteristic		Capivasertib + fulvestrant (N=355)	Placebo+ fulvestrant (N=353)	Capivasertib + fulvestrant (N=155)	Placebo+ fulvestrant (N=134)	
Prior endocrine	_0	40 (11.3)	54 (15 3)	14 (9 0)	20 (14 9)	
therapy for ABC;	1	286 (80.6)	252 (71.4)	130 (83.9)	96 (71.6)	
n (%)	2	29 (8.2)	47 (13.3)	11 (7.1)	18 (13.4)	
Previous CDK4/6 inhib	itor for ABC; n (%)	245 (69.0)	244 (69.1)	113 (72.9)	91 (67.9)	
Previous chemotherapy; n (%)	Adjuvant/neoadjuvant ABC	180 (50.7) 65 (18.3)	170 (48.2) 64 (18.1)	79 (51.0) 30 (19.4)	67 (50.0) 23 (17.2)	

Alteration; n (%)		Capivasertib + fulvestrant (N=355)	Placebo + fulvestrant (N=353)
Any AKT pathwa	y alteration	155 (43.7)	134 (38.0)
PIK3CA	Any PIK3CA only PIK3CA and AKT1 PIK3CA and PTEN	116 (32.7) 110 (31.0) 2 (0.6) 4 (1.1)	103 (29.2) 92 (26.1) 2 (0.6) 9 (2.5)
AKT1 only		18 (5.1)	15 (4.2)
<i>PTEN</i> only		21 (5.9)	16 (4.5)

Dual-primary endpoint: Investigator-assessed PFS in the overall population



+ indicates a censored observation. HR was estimated using the Cox proportional hazard model stratified by the presence of liver metastases, prior use of CDK4/6 inhibitor, and geographic region. This presentation is the intellectual property of the author/presenter. Contact them at nick.tumer@icr.ac.uk for permission to reprint and/or distribute. San Antonio Breast Cancer Symposium®, December 6–10, 2022

Dual-primary endpoint: Investigator-assessed PFS in the AKT pathway-altered population



+ indicates a censored observation. HR was estimated using the Cox proportional hazard model stratified by the presence of liver metastases and prior use of CDK4/6 inhibitor. This presentation is the intellectual property of the author/presenter. Contact them at nick.turner@icr.ac.uk for permission to reprint and/or distribute.

Investigator-assessed PFS by subgroup: Overall population

Ŭ		Number of patients				HR (95%CI)
All patients		708		·	-	0.60 (0.51, 0.71)
A a a	<65 years	491		·		0.65 (0.53, 0.79)
Age	≥65 years	217		⊢ →		0.65 (0.47, 0.90)
	Asian	189		• • • •		0.62 (0.44, 0.86)
Race	White	407		·		0.65 (0.52, 0.80)
	Other	112		► →		0.63 (0.42, 0.96)
	1	395		—	-4	0.60 (0.48, 0.75)
Region	2	136			• · · · · · · · · · · · · · · · · · · ·	0.77 (0.51, 1.16)
	3	177		• • •		0.60 (0.42, 0.85)
Menopausal status (females only)	Pre/peri	154		· · · · ·	• •	0.86 (0.60, 1.20)
	Post	547		· • •	-	0.59 (0.48, 0.71)
Liver meteotoooo	Yes	306				0.61 (0.48, 0.78)
	No	402		-		0.62 (0.49, 0.79)
Viccoral motostasas	Yes	478		·		0.69 (0.56, 0.84)
VISCEIAI MEIASIASES	No	230		+	-4	0.54 (0.39, 0.74)
Endoarina radiatanaa	Primary	262		⊢ —◆		0.66 (0.50, 0.86)
	Secondary	446				0.64 (0.51, 0.79)
Prior use of CDK4/6	Yes	496		·	-1	0.62 (0.51, 0.75)
inhibitors	No	212		⊢ →		0.65 (0.47, 0.91)
Drior chamatharapy for AP	Yes	129		+		0.61 (0.41, 0.91)
Prior chemotherapy for ABC	No	579				0.65 (0.54, 0.78)
			0.3 Favors capivasertib +	0.5 fulvestrant	1.0 — Hazard ratio (95%	o CI) Favors placebo + fulvestrar

Region 1: United States, Canada, Western Europe, Australia, and Israel, Region 2: Latin America, Eastern Europe and Russia; Region 3: Asia. Primary and secondary resistance as per ESMO definition. This presentation is the intellectual property of the author/presenter. Contact them at nick.turner@icr.ac.ukforpermission to reprint and/or distribute.

Overall survival at 28% maturity overall

Overall population

AKT pathway-altered population



*0.01% alpha penalty assigned to OS analyses of no detriment. Formal analysis not prespecified. HR was estimated using the Cox proportional hazard model stratified by the presence of liver metastases (overall population only) and prior use of CDK4/6 inhibitor.

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Safety summary: Overall population

n (%)	Capivasertib + fulvestrant (N=355)	Placebo + fulvestrant (N=350)
Any adverse event	343 (96.6)	288 (82.3)
Any serious adverse event	57 (16.1)	28 (8.0)
Any adverse event leading to death*	4 (1.1)	1 (0.3)
Any adverse event leading to discontinuation	46 (13.0)	8 (2.3)
Discontinuation of capivasertib/placebo only	33 (9.3)	2 (0.6)
Discontinuation of both capivasertib/placebo and fulvestrant	13 (3.7)	6 (1.7)
Any adverse event leading to dose interruption of capivasertib/placebo only	124 (34.9)	36 (10.3)
Any adverse event leading to dose reduction of capivasertib/placebo only	70 (19.7)	6 (1.7)

The safety profile was comparable in the AKT pathway-altered population

*Grade 5 events included acute myocardial infarction, cerebral hemorrhage, pneumonia aspiration and sepsis (all n=1) in the capivasertib + fulvestrant group and COVID-19 (n=1) in the placebo + fulvestrant group. No grade 5 events were classified as related to capivasertib/placebo by local investigator. The safety analysis population included all patients who received at least one dose of the study drug.

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Adverse events (>10% of patients) – overall population



Adverse events of any grade related to rash (group term including rash, rash macular, maculo-papular rash, rash papular and rash pruritic) were reported in 38.0% of the patients in the capivasertib + fulvestrant arm (grade ≥3 in 12.1%) and in 7.1% of those in the placebo + fulvestrant group (grade ≥3 in 0.3%). †All events show n were Grade 3 except one case of Grade 4 hyperglycemia in the capivasertib + fulvestrant arm.

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CAPItello-291: Conclusions

- Capivasertib plus fulvestrant provides a statistically significant and clinically meaningful improvement in PFS in the overall and the AKT pathway-altered population (dual primary)
- Benefit from capivasertib was consistent across clinically relevant subgroups, including in:
 - patients previously treated with a CDK4/6 inhibitor
 - patients with liver metastases
- Overall survival follow-up is ongoing
- Capivasertib plus fulvestrant safety profile appears consistent with that previously reported, with a relatively low discontinuation rate due to adverse events

Capivasertib plus fulvestrant has the potential to be a future treatment option for patients with HR+ ABC who have progressed on an endocrine-based regimen



Active TNBC studies at UCSD

Study Name	GS-US-592-6173 (ASCENT-04) Ph 3 Randomized Trial Sacituzumab Govitecan + Pembrolizumab v. TPC + Pembro in PD-L1+ mTNBC	GS-US-592-6238 (ASCENT-03) Ph 3 Randomized Trial Sacituzumab Govitecan + Pembrolizumab v. TPC + Pembro in PD-L1- mTNBC
Details	 -1st line metastatic or locally advanced inoperable TNBC, PD-L1 positive at screening. -Measurable disease -No prior topoisomerase 1 inhibitors or antibody drug conjugates containing a topoisomerase inhibitor. -No IBD or GI perforation . 	 -1st line metastatic or locally advanced inoperable TNBC, PD-L1 negative at screening. -Measurable disease -No prior topoisomerase 1 inhibitors or antibody drug conjugates containing a topoisomerase inhibitor. -Pts whose tumors are PD-L1+ at screening will be eligible if they received an antiprogrammed death (ligand) 1 (anti-PD-[L]1) inhibitor (ie, checkpoint inhibitor) in the adjuvant or neoadjuvant setting.

Active and Forthcoming Neoadjuvant/Adjuvant studies at UCSD

Study Name	ISPY-2: Investigation of Serial Studies to Predict Your Therapeutic Response with Imaging and Molecular Analysis 2	TROPION-Breast03: Ph 3 Open-label, Randomised Study of Datopotamab Deruxtecan (Dato-DXd) W/ or W/o Durvalumab Vs Investigator's Choice Therapy in Pts With Stage I-III TNBC w/ Residual Invasive Disease in Breast and/or ALN at Surgery Following Neoadjuvant Systemic Therapy	
Details	 Breast tumor that is anatomic Stage II or III (per AJCC 8th edition). Metaplastic and inflammatory carcinomas are eligible. Patients with extensive DCIS are also eligible if they have involved lymph nodes. Pts with 2cm tumor (on imaging) with positive lymph nodes Pts with at least 2.5 cm tumor (on imaging or clinical assessment). If patient LN positive, then tumor size must be at least 1.5cm No Distant Mets Willing to have serial MRIs and core biopsies 	 -Histologically confirmed invasive TNBC ·Residual invasive disease in breast and/or ALN following neoadjuvant therapy. ·Completed at least 6 cycles of neoadjuvant therapy containing an anthracycline and/or taxane with or without carboplatin, with or without pembrolizumab. ·Surgical removal of all clinically evident disease in the breast and lymph nodes ·No adjuvant systemic therapy. ·If post-operative radiation therapy is given, an interval of no more than 6 weeks between completion of XRT and date of randomization. ·No known germline BRCA1 or BRCA2 mutation. 	th





Thank you!

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