

New Agents and New Applications of Targeted Therapy for HR+ HER2- Metastatic Breast Cancer

Joyce O'Shaughnessy, MD

Celebrating Women Chair in Breast Cancer Research

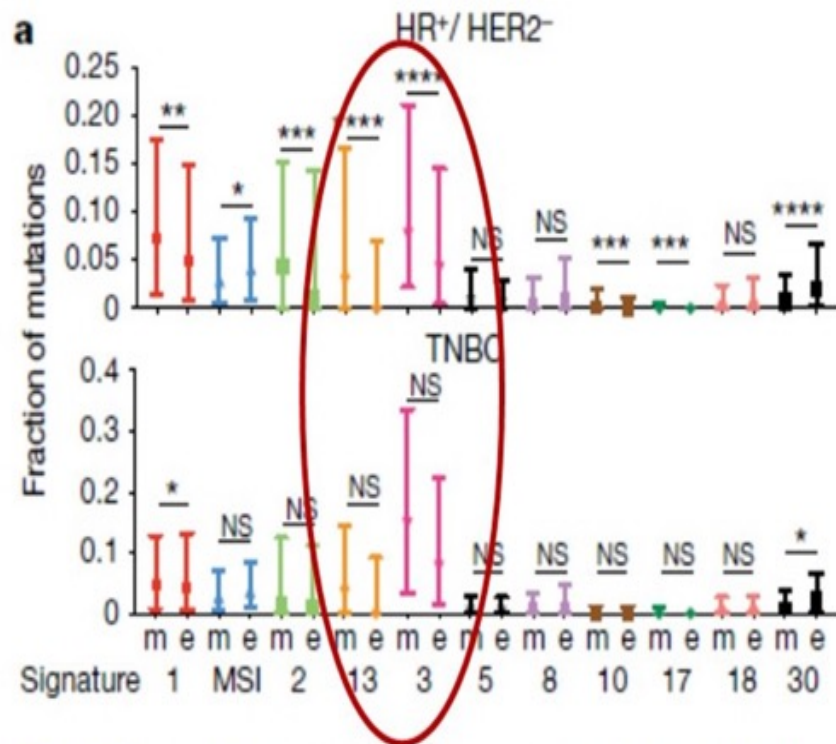
Baylor University Medical Center

Texas Oncology

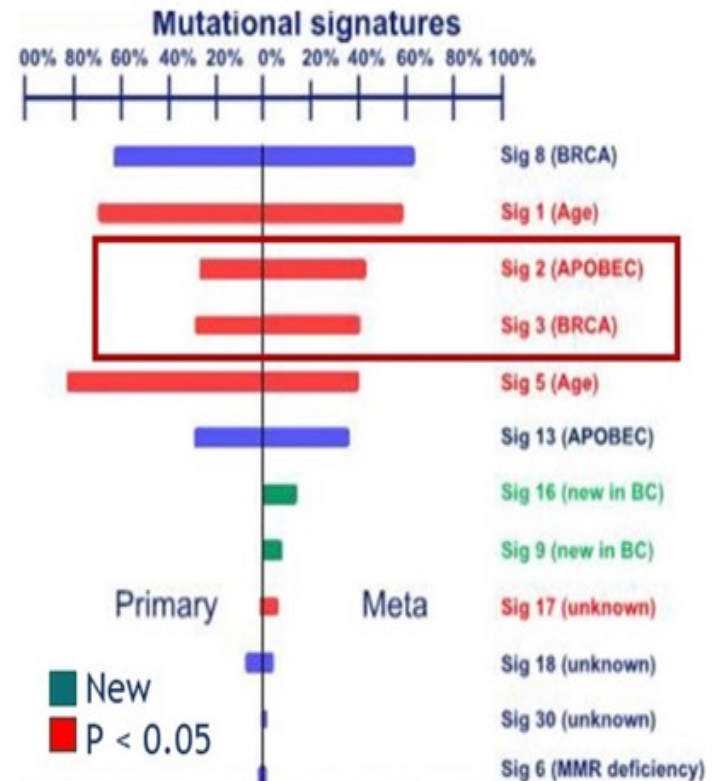
US Oncology

Comparison of Mutational Signatures in MBC compared to EBC

French Cohort



CPCT-02 Cohort



APOBEC mutations may be associated with therapy resistance

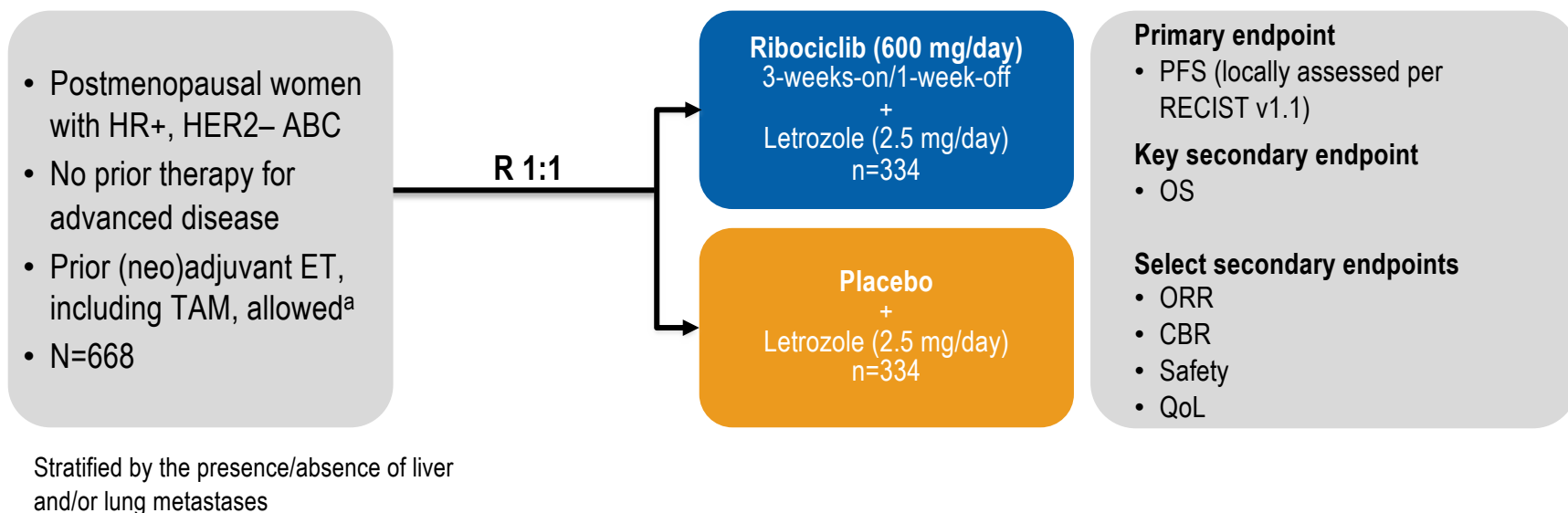
Overview of first-line CDK 4/6 inhibitor trials

Trial	PFS Δ	HR/P value	OS Δ	HR/P value
PALOMA 1	10 mos.	0.49/.004	3 mos.	0.9/.28
PALOMA 2	10 mos.	0.58/SS	2.7 mos.	0.96/.34
FLIPPER*	10 mos.	0.52/.002	NR	NA
MONALEESA 2	9 mos.	0.57/SS	12.5 mos.	0.76/.004
MONARCH 3	28/15 mos.	0.54/.000021	NR	NA
MONALEESA 3	15 mos.	0.55/SS	NR/52 mos.	0.64/SS
MONALEESA 7	10 mos.	0.55/SS	NR/41 mos.	0.71/.01

* FLIPPER evaluated addition of Palbociclib to fulvestrant

Slamon et al Annals of Oncology 2021, Hortobagyi et al ESMO 2021, Im et al NEJM 2019, Johnston et al NPJ Breast Cancer 2019, Finn et al BCRT 2020, Albanell et al ESMO 2020

MONALEESA-2 study design



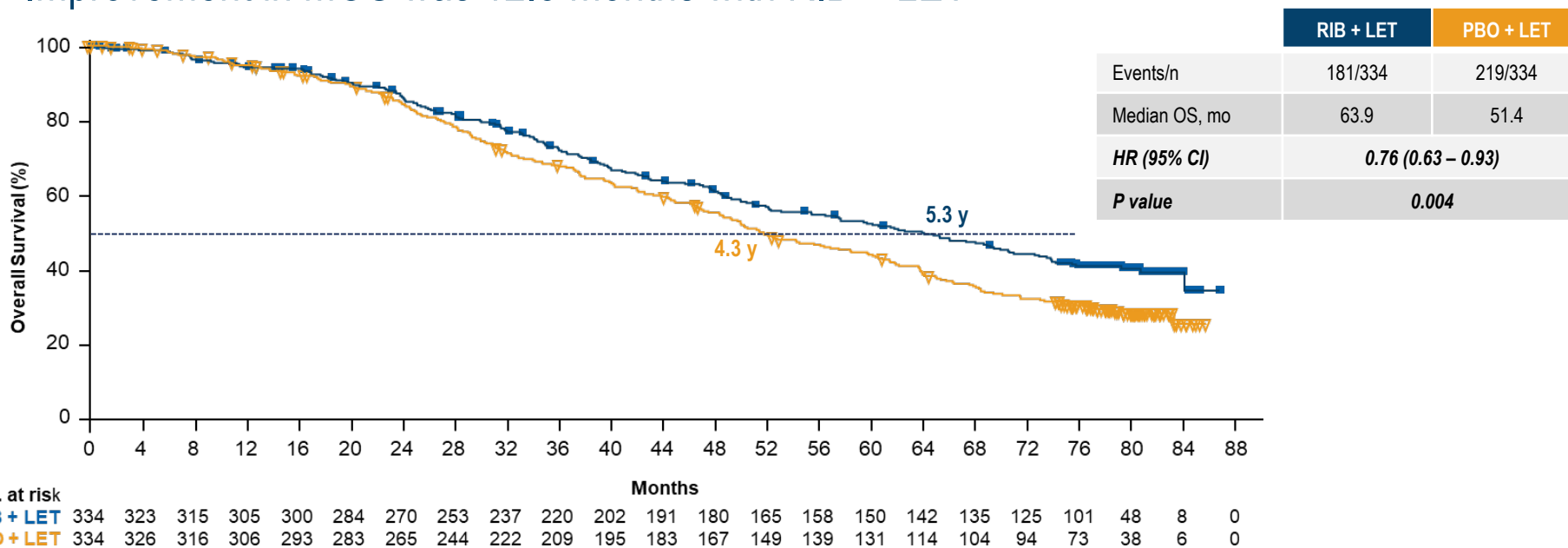
Gabriel N. Hortobagyi

ABC, advanced breast cancer; CBR, clinical benefit rate; HER2-, human epidermal growth factor receptor 2-negative; HR+, hormone receptor-positive; NSAI, nonsteroidal aromatase inhibitor; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; QoL, quality of life; R, randomization; RECIST, Response Evaluation Criteria In Solid Tumors; TAM, tamoxifen.

^aTreatment-free interval > 12 months from completion of treatment until randomization required for prior NSAI use.
Hortobagyi GN, et al. *N Engl J Med.* 2016;375:1738-1748.

RIB achieved statistically significant OS benefit in ML-2

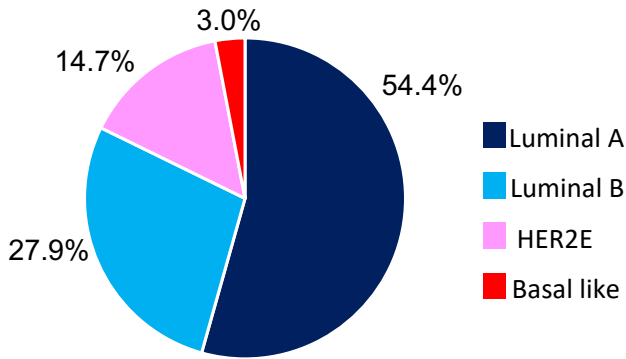
Improvement in mOS was 12.5 months with RIB + LET



The P value of 0.004 crossed the prespecified boundary to claim superior efficacy

HR, hazard ratio; ML-2, MONALEESA-2; LET, letrozole; OS, overall survival; PBO, placebo; RIB, ribociclib.

Correlative Analysis of Overall Survival by Intrinsic Subtype Across the MONALEESA-2, -3, and -7 Studies of Ribociclib + Endocrine Therapy in Patients with HR+/HER2- ABC



Intrinsic subtype was prognostic for OS in multivariable models

	RIB + ET			PBO + ET		
	Adjusted Hazard Ratio ^a	95% CI	P Value	Adjusted Hazard Ratio ^a	95% CI	P Value
Luminal A	1.00	-	-	1.00	-	-
Luminal B	1.16	0.86-1.57	0.32	1.47	1.08-2.00	0.013
HER2E	1.83	1.33-2.52	0.00023	2.87	1.93-4.26	< .0001
Basal-like	7.06	3.73-13.40	< .0001	2.35	1.20-4.58	0.012

Samples in this analysis (N = 997)^a:

RIB + ET (n = 585) and PBO + ET (n = 412)

MONALEESA-2: 318 samples

MONALEESA-3: 414 samples

MONALEESA-7: 265 samples

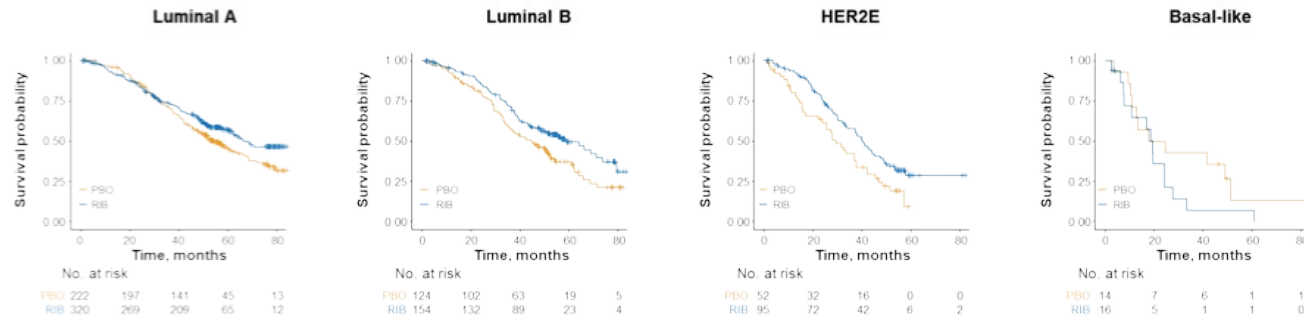
71% were from primary tumors in the pooled dataset

MONALEESA-2: 73% primary

MONALEESA-3: 74% primary

MONALEESA-7: 68% primary

Univariable analysis: OS benefit with RIB + ET in Luminal A, Luminal B, and HER2E subtypes; Basal-like subtype did not demonstrate OS benefit with RIB + ET (small sample size; n = 30 total; 3% in each arm)



PALOMA-2 Study Design

ELIGIBILITY CRITERIA

- Postmenopausal women with ER+/HER2- ABC
- No prior treatment for advanced disease
- ECOG PS 0-2

2:1

N=666

RANDOMIZATION

Palbociclib 125 mg/day
3 weeks on, 1 week off
+
Letrozole 2.5 mg/day
(N=444)

Placebo 125 mg/day
3 weeks on, 1 week off
+
Letrozole 2.5 mg/day
(N=222)

Primary endpoint

Investigator-assessed PFS

Secondary endpoints

OS, Response, Safety, Biomarkers, PRO

Stratification factors

- Disease site (visceral, non-visceral)
- Disease-free interval (de novo metastatic, ≤12 mo, >12 mo)
- Prior neo/adjuvant hormonal therapy (yes, no)

Statistical Assumptions for PFS as Primary Endpoint:

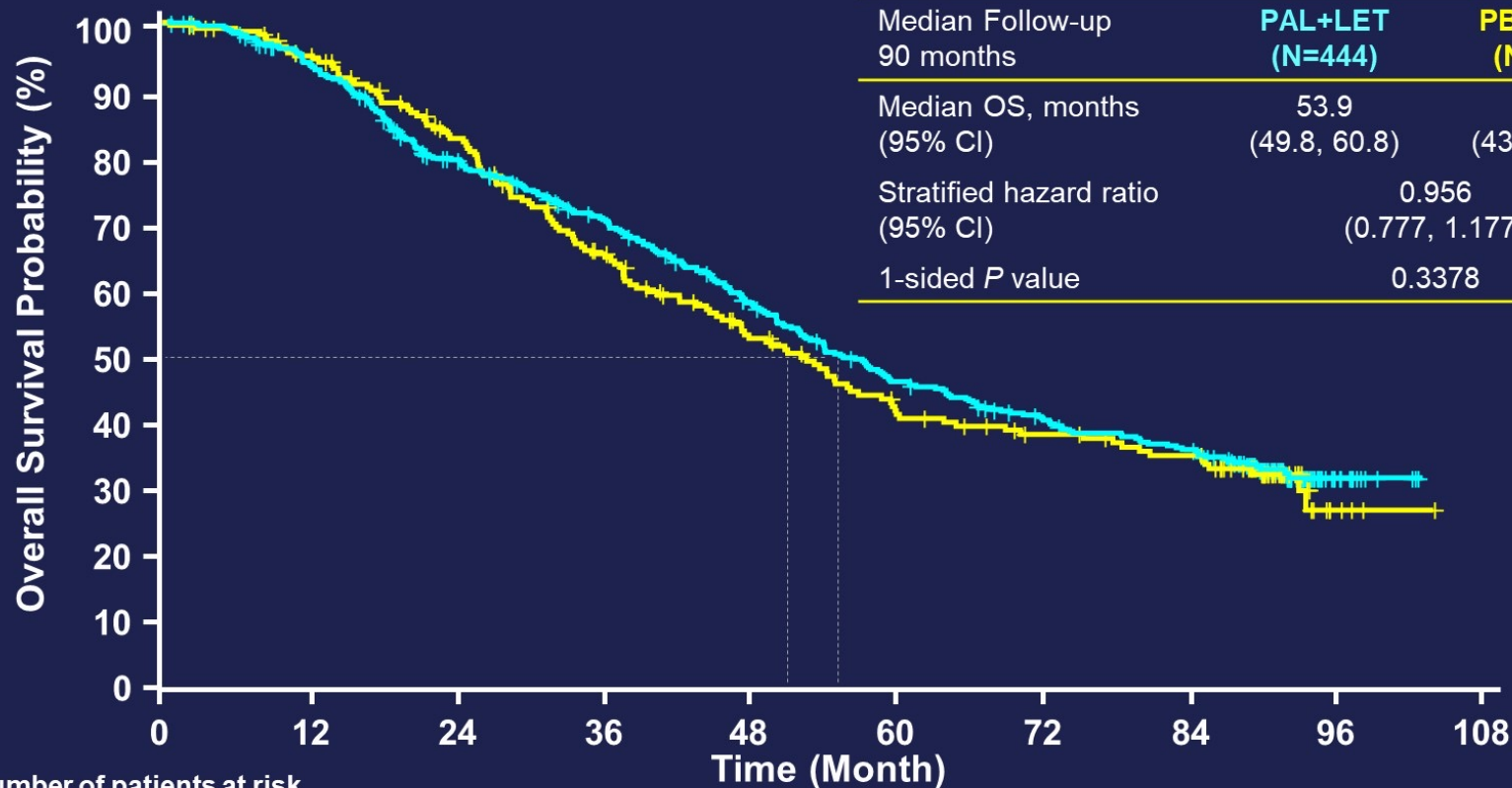
- Sample size determined to detect ~44% improvement in median PFS from 9 months for the control arm to 13 months for the palbociclib arm
- Assuming a true hazard ratio of 0.69 in favor of the palbociclib arm (90% power with 1-sided $\alpha=0.025$)

Statistical Assumptions for OS as Secondary Endpoint:

- Assumption for the control arm median OS of 34 to 46 months (~35% improvement)
- 390 events required to detect a hazard ratio of 0.74 or less (80% power with 1-sided $\alpha=0.025$)

ABC=advanced breast cancer; ECOG PS=Eastern Cooperative Oncology Group Performance Status; ER=estrogen receptor; HER2=human epidermal growth factor receptor 2; OS=overall survival; PFS=progression-free survival; PRO=patient-reported outcome.

Overall Survival – ITT



	PAL+LET (N=444)	PBO+LET (N=222)
Median Follow-up 90 months		
Median OS, months (95% CI)	53.9 (49.8, 60.8)	51.2 (43.7, 58.9)
Stratified hazard ratio (95% CI)	0.956 (0.777, 1.177)	
1-sided <i>P</i> value	0.3378	

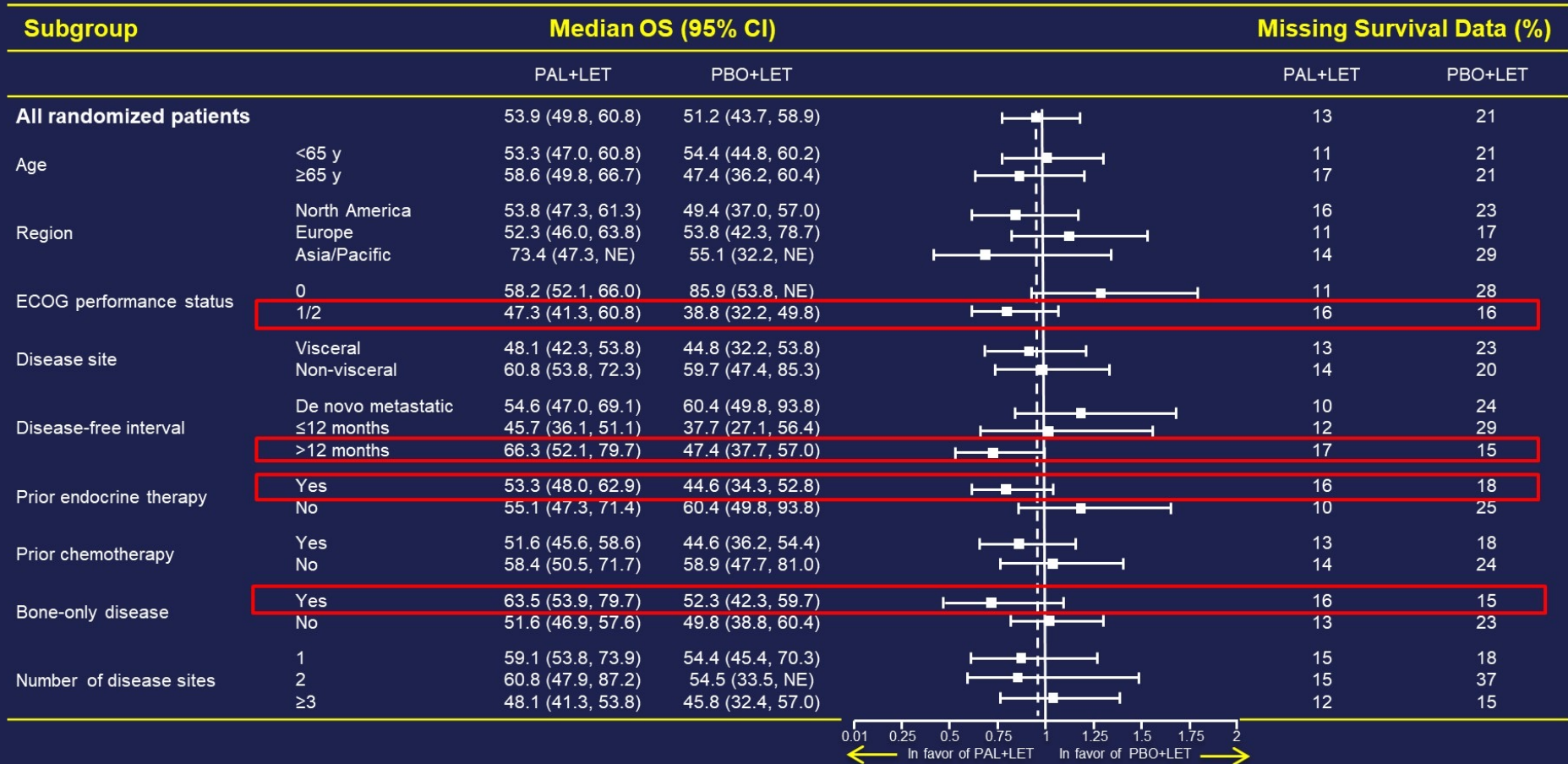
Number of patients at risk

	0	12	24	36	48	60	72	84	96	108
PAL+LET	444	400	325	280	222	174	145	128	13	0
PBO+LET	222	203	168	126	95	72	60	53	4	0

ITT=intent-to-treat; LET=letrozole; OS=overall survival; PAL=palbociclib; PBO=placebo.

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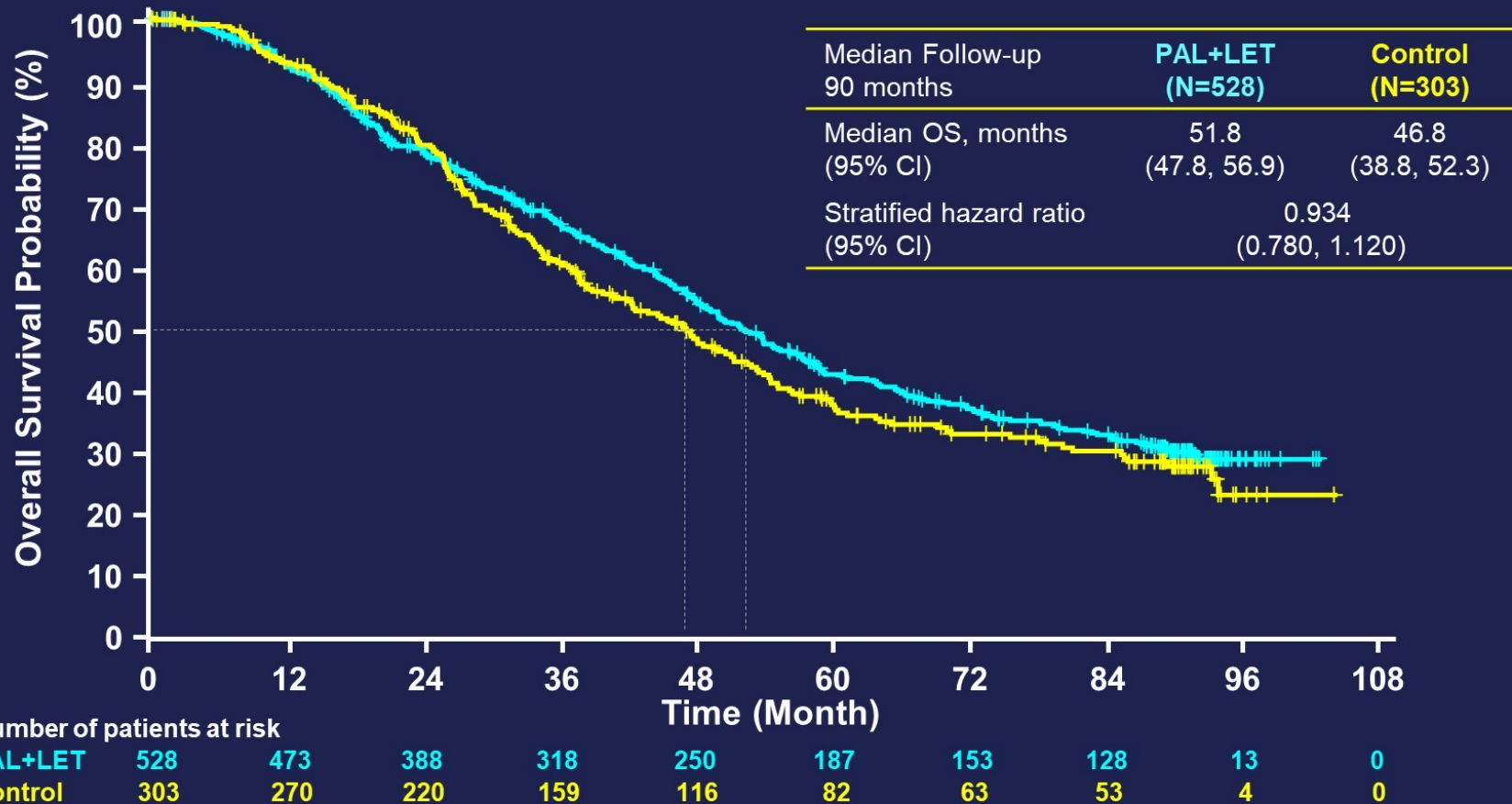
Overall Survival in Subgroups – ITT Population



ECOG=Eastern Cooperative Oncology Group; ITT=intent-to-treat; LET=letrozole; NE=not estimable; PAL=palbociclib; PBO=placebo.

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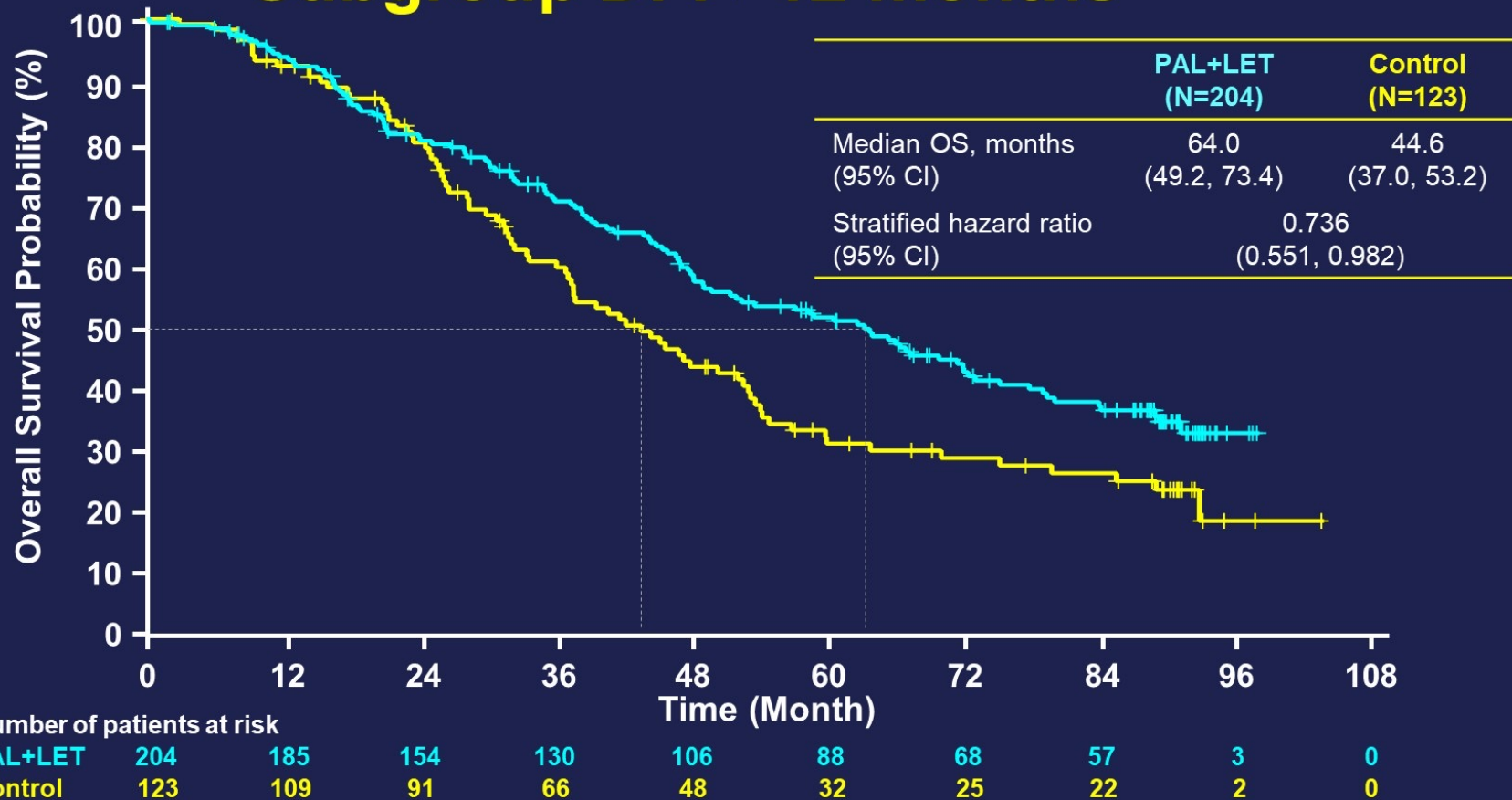
PALOMA-1 and PALOMA-2 Combined OS Analysis



LET=letrozole; OS=overall survival; PAL=palbociclib.

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PALOMA-1 and PALOMA-2 Combined OS Analysis: Subgroup DFI >12 months



DFI=disease-free interval; LET=letrozole; OS=overall survival; PAL=palbociclib.

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Why are there OS differences between the studies?

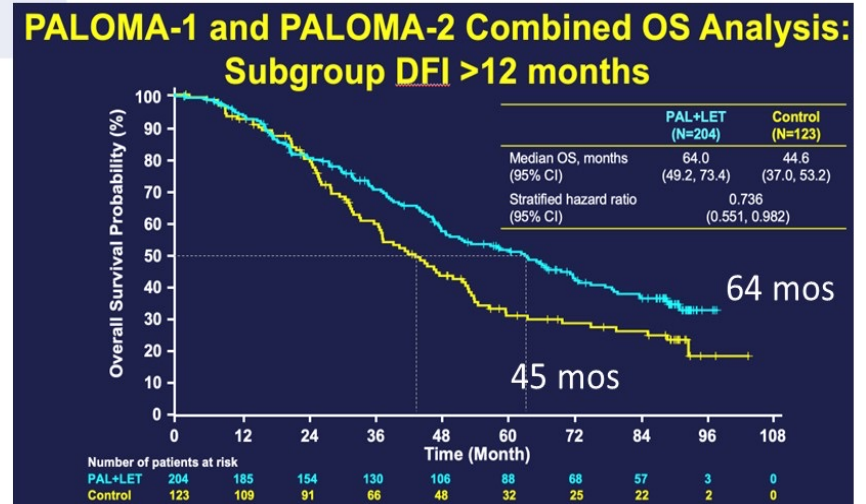
Randomized P3 Trials	PALOMA-2 Palbociclib	MONALEESA-2 Ribociclib	MONALEESA-7 Ribociclib	MONALEESA-3 Ribociclib 1L Cohort
De novo mBC	38%	34%	41%	20%
<u>Disease-free interval</u>				
DFI < 12 mos	22%	1%	7%	0%
DFI > 12 mos	40%	NR	53%	80%
DFI > 24 mos	NR	60%	NR	NR

- DFI ≤ 12 mos in Paloma 1 ~ 35%
- Combined OS analysis with PALOMA-1 planned
- Analysis by DFI subgroup unplanned

No substantial differences in prior therapy, visceral disease, use of subsequent CDK46i in placebo arm, other variables

Limitations:

- Post hoc analyses
- Definition of “missing survival data”



Finn et al NEJM 2016; Hortobagyi et al. NEJM 2016; Tripathy et al Lancet Oncol 2018; Slamon et al. NEJM 2020

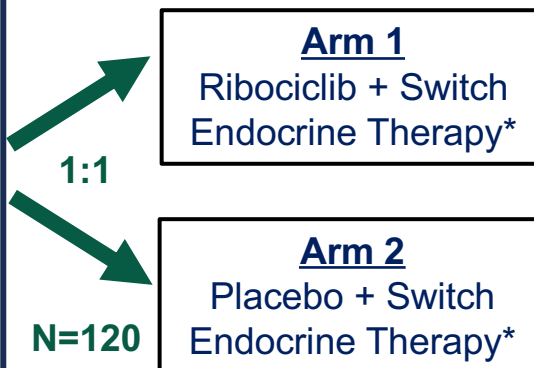
**A randomized phase II trial of fulvestrant or exemestane with or without ribociclib after progression on anti-estrogen therapy plus cyclin-dependent kinase 4/6 inhibition in patients with unresectable or metastatic hormone receptor positive, HER2 negative breast cancer:
MAINTAIN Trial**

Kevin Kalinsky, Melissa K Accordino, Cody Chiuzan, Prabhjot Mundi, Meghna S Trivedi, Yelena Novik, Amy Tiersten, Amelia Zelnak, George Raptis, Lea Baer, Sun Y Oh, Erica Stringer-Reasor, Sonya Reid, Eleni Andreopoulou, William Gradishar, Kari B Wisinski, Anne O'Dea, Ruth O'Regan, Katherine D Crew, Dawn L Hershman

Schema

Key Entry Criteria

- Men or Women age \geq 18 yrs
- ER and/or PR \geq 1%, HER2- MBC
- Progression on ET + any CDK 4/6 inhibitor
- \leq 1 line of chemotherapy for MBC
- Measurable or non-measurable
- PS 0 or 1
- Postmenopausal
 - GnRH agonist allowed if premenopausal
- Stable brain metastases allowed



Primary Endpoint

- Progression free survival
 - Locally assessed per RECIST 1.1

Secondary Endpoints

- Overall response rate
- Clinical benefit rate
- Safety
- Tumor and blood markers, including circulating tumor DNA

- Fulvestrant as endocrine therapy in pts with progression on a prior aromatase inhibitor for MBC and no prior fulvestrant; Protocol amended to allow exemestane as endocrine therapy if progression on prior fulvestrant (September 2018); Ribociclib 600 mg administered 3 weeks on/1 week off

Kevin Kalinsky, MD, MS

Patient Characteristics and Prior Treatment

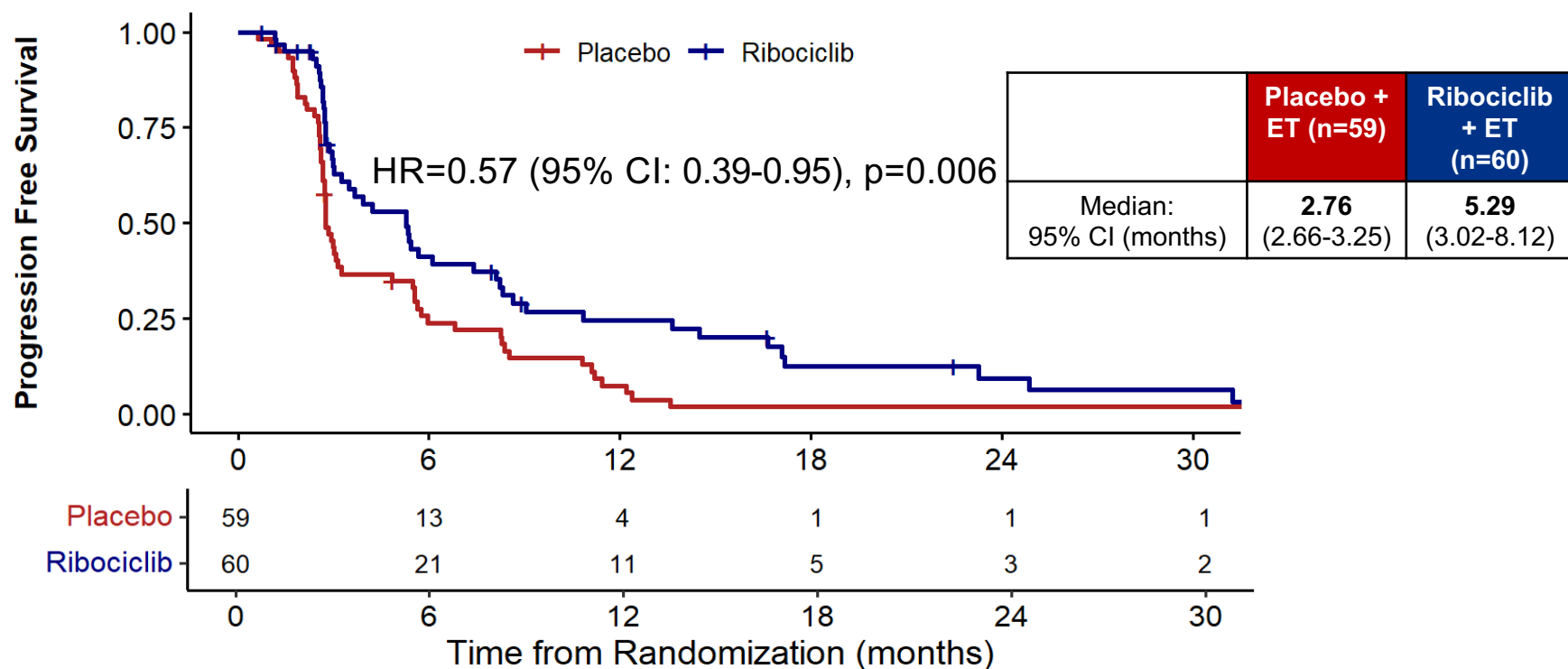
	Placebo (n=59)	Ribociclib (n=60)
Female - no. (%)	58 (99%)	60 (100%)
Median age – years (IQR)	59 (52-65)	55 (48-67)
Race or ethnic group – no. (%)		
White	42 (71%)	46 (77%)
Black	8 (14%)	5 (8%)
Asian	2 (3%)	5 (8%)
Other or not specified	7 (12%)	4 (7%)
ECOG PS – no. (%)		
0	38 (64%)	40 (67%)
1	21 (36%)	20 (33%)
De Novo Metastasis at Dx - no. (%)***	32 (54%)	21 (35%)
Visceral Metastasis – no. (%)	35 (59%)	36 (60%)
Bone-Only Disease – no. (%)	9 (15%)	13 (22%)
> 2 prior ET for MBC – no. (%)	11 (19%)	11 (18%)
Chemotherapy for MBC – no. (%)	7 (12%)	4 (7%)

	Placebo (n=59)	Ribociclib (n=60)
Prior CDK 4/6 inhibitor – no. (%)		
Palbociclib*	51 (86%)	52 (87%)
Ribociclib**	8 (14%)	6 (10%)
Abemaciclib	0 (0%)	2 (3%)
Median duration of prior CDK 4/6 inhibitor – months (IQR)	17 (11-23.5)	15.5 (12-21)
Prior CDK 4/6 inhibitor duration– no. (%)****		
≤ 12 months	21 (36%)	18 (30%)
> 12 months	38 (64%)	42 (70%)
Prior CDK 4/6 inhibitor in metastatic setting - no. (%)	59 (100%)	60 (100%)
Intervening treatment after progression on prior CDK 4/6 inhibitor - no. (%)	6 (10%)	1 (2%)

* Includes 1 pt who did not tolerate prior abemaciclib and 2 pts with insurance issues with ribociclib; ** Includes 1 pt who did not tolerate prior palbociclib; ***p=0.035; **** 10 pts (17%) in placebo arm and 7 pts (12%) pts in ribociclib arm on prior CDK4/6 inhibitor ≤ 6 months; IQR = interquartile range

Kevin Kalinsky, MD, MS

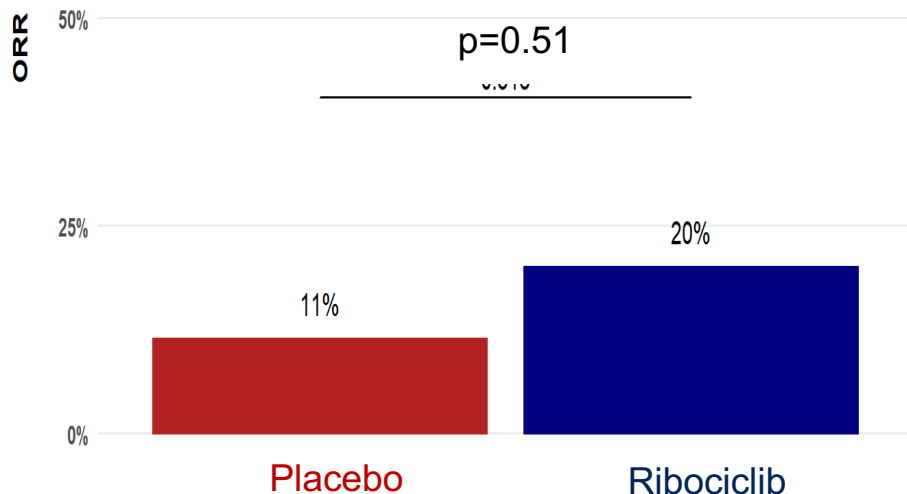
Primary Endpoint: Progression Free Survival (PFS)



Kevin Kalinsky, MD, MS

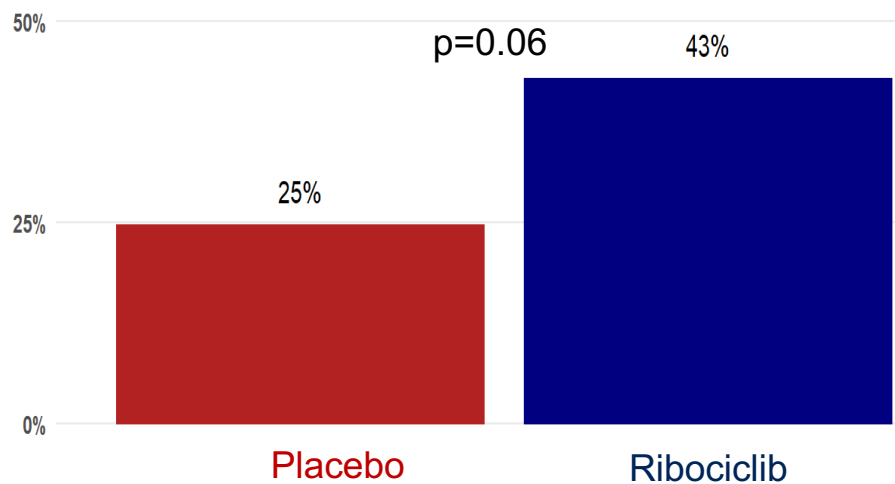
Overall Response and Clinical Benefit Rate

Overall Response Rate (n=70)



	Placebo + ET (n=35)	Ribociclib + ET (n=35)
CR	0 (0%)	2 (6%)
PR	4 (11%)	5 (14%)
Median DOR (IQR) (mos)	14.8 (6.7-21.3)	18.8 (11.4-50.2)

Clinical Benefit Rate (n=105)



	Placebo + ET (n=57)	Ribociclib + ET (n=49)
CR, PR, or SD ≥ 24 weeks	14 (25%)	21 (43%)

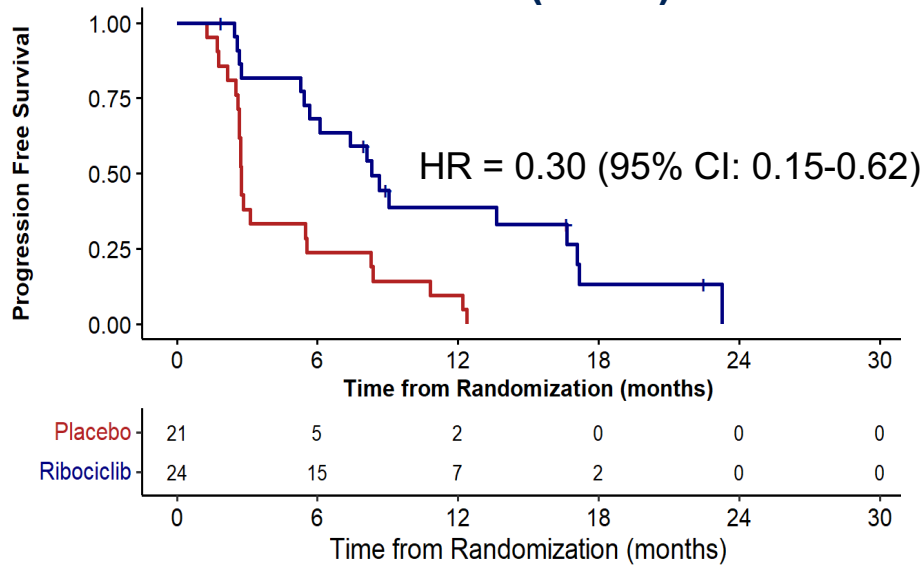
IQR = Interquartile Range, CR = Complete response, PR = Partial Response, DOR = Duration of Response, SD = Stable Disease

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Exploratory Analysis

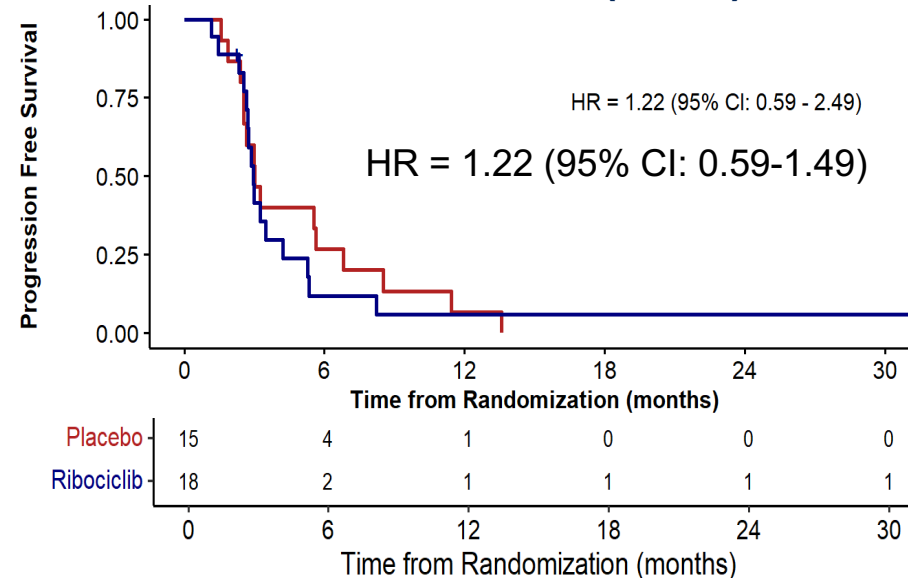
PFS: Fulvestrant and *ESR1* Mutation Status

***ESR1* WT (n=45)**



	Placebo (n=21)	Ribociclib (n=24)
Median (95% CI) (mos)	2.76 (2.66-5.49)	8.32 (5.65-16.63)

***ESR1* Mutant (n=33)**



	Placebo (n=15)	Ribociclib (n=18)
Median (95% CI) (mos)	3.02 (2.53-5.62)	2.96 (2.66-4.21)

0/24 pts (0%) had *CCND1* and/or *FGFR1* amplification on ribociclib arm 9/18 (50%) pts with *CCND1* and/or *FGFR1* amplification on ribociclib arm

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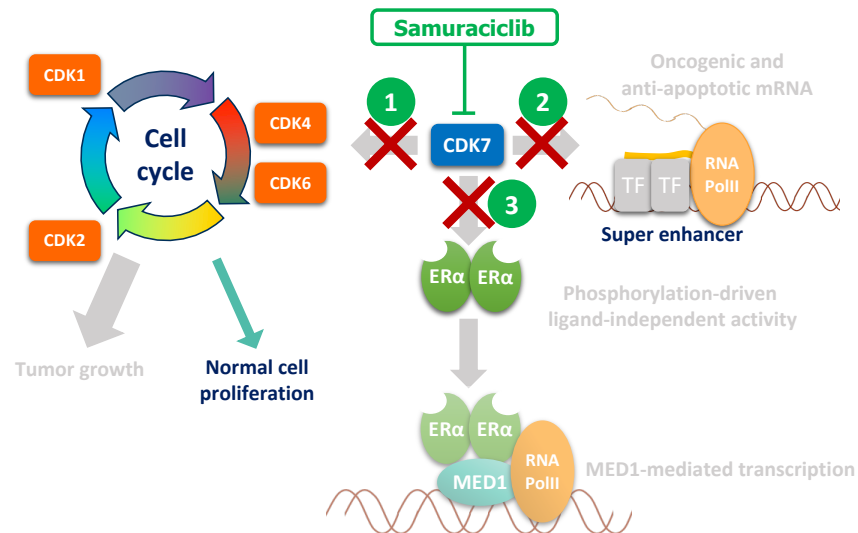
Study of samuraciclib (CT7001), a first-in-class, oral, selective inhibitor of CDK7, in combination with fulvestrant in pts with advanced HR+, HER2-negative BC

San Antonio Breast Cancer Symposium®, December 7–10, 2021

The CDK7 inhibitor samuraciclib (CT7001)

- Once-daily, oral, small molecule, ATP-competitive, selective inhibitor of CDK7
- Synergistic with hormonal therapy in HR+ breast cancer xenograft models
- Blocks CDK7-mediated oncogenic effects

- 1 The cell cycle through phosphorylation of other CDKs
- 2 Transcription of oncogenic and anti-apoptotic genes
- 3 Signaling by and activation of hormone receptors (ER and AR)

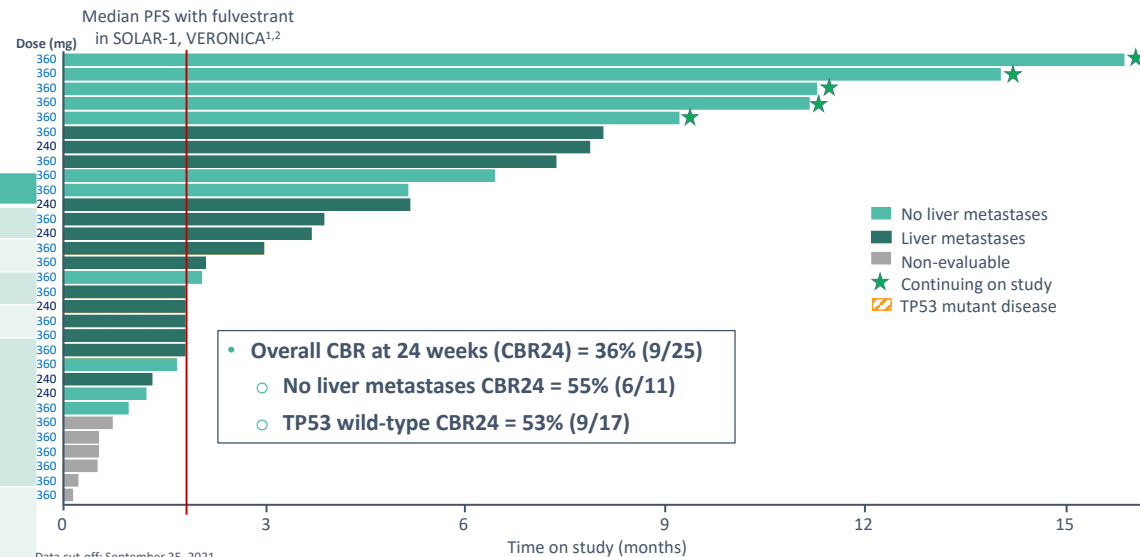


Module 2A

- Female, aged ≥ 18 years
- Histologically confirmed, metastatic or locally advanced, ER+ and/or PGR+, HER2- breast cancer
- Measurable disease
- Prior CDK4/6 inhibitor therapy
- No prior fulvestrant
- ≤ 1 line of chemotherapy or ≤ 2 lines of endocrine therapy for advanced breast cancer

Samuraciclib 240 mg QD +
fulvestrant 500 mg q4w
(n=6)

Samuraciclib 360 mg QD +
fulvestrant 500 mg q4w
(n=25)

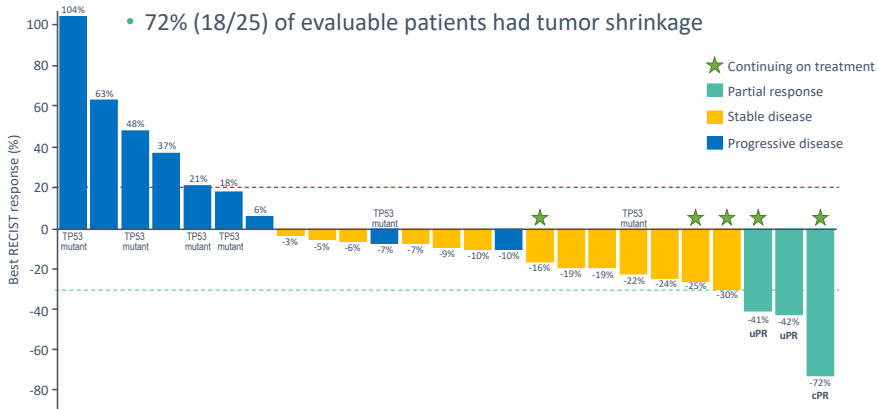


Data cut-off: September 25, 2021

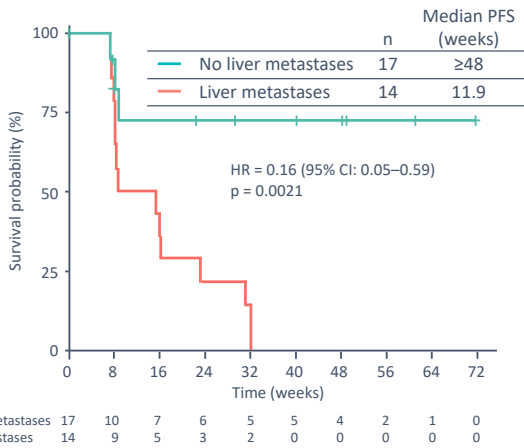
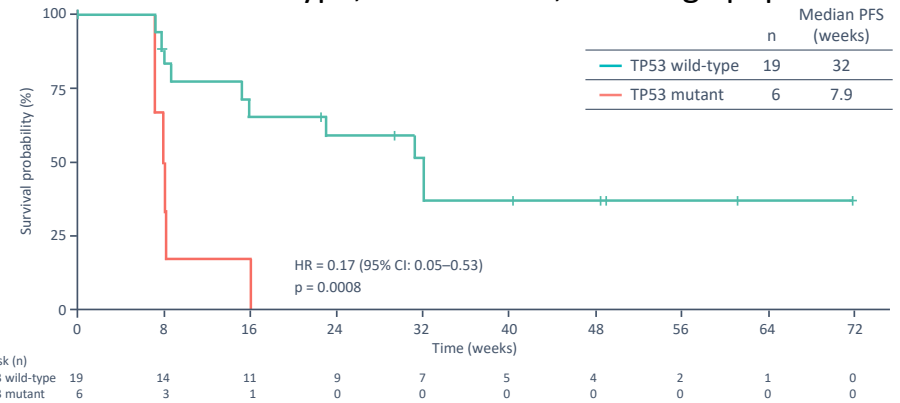
1. Lindeman GJ, et al. J Clin Oncol 2021;39(Suppl.):Abstract 1004; 2. Juric D, et al. Presented at SABCS 2018:Abstract GS3-08

Characteristic	N = 31
Median age, years (range)	60 (41–81)
Female, n (%)	31 (100)
RECIST v1.1 measurable disease, n (%)	31 (100)
ER+/PGR+, n (%)	31 (100)
Location of lesions, n (%)*	
Visceral disease	25 (81)
Bone	18 (58)
Liver	14 (45)
Lymph node	11 (36)
Other	6 (19)
Lines of prior endocrine therapy for metastatic disease, n (%)	
≥ 1	31 (100)
≥ 2	4 (13)
Prior CDK4/6 inhibitor-containing therapy, n (%)	31 (100)
Prior chemotherapy, n (%)	
Metastatic setting	7 (23)
Adjuvant setting	10 (32)
Neoadjuvant setting	3 (10)

Clinical Efficacy and Toxicity



Preclinical data indicate that CDK7i activates the p53 pathway in TP53 wild-type, HR+ BC cells, inducing apoptosis



Adverse event	All grades, n (%)	Grade ≥3, n (%)
Diarrhea	28 (90)	6 (19)
Nausea	25 (81)	3 (10)
Vomiting	23 (74)	1 (3)
Fatigue	11 (36)	1 (3)
Decreased appetite	9 (29)	0
Abdominal pain	7 (23)	0
AST increased	4 (13)	0
Dysgeusia	4 (13)	0
Headache	4 (13)	0
Upper abdominal pain	4 (13)	0

- 11 had dose reductions
 - 2 discontinued
- 6 discontinued due to AE
- Ondansetron now standard pre-medication

Next steps

Samuraciclib has been granted fast-track status by the US FDA
Combinations with oral SERDs planned

FAKTION: trial design

Eligibility^a

- Post-menopausal women
- ER+/HER2- metastatic or unresectable locally advanced breast cancer
- Progression on AI for advanced breast cancer or relapse on adjuvant AI
- Maximum 1 line of chemotherapy for metastatic breast cancer (mBC)
- Maximum 3 lines of endocrine therapy for mBC
- Measurable or non-measurable disease
- Type II diabetes allowed if controlled

Exclusion

- Prior fulvestrant or PI3K/AKT/mTOR inhibitor therapy

^aParticipants were recruited from 2015–2018 and had no exposure to CDK4/6 inhibitors, which are now first-line standard of care in combination with endocrine therapy.

N =

R

N = 69

Fulvestrant 500 mg every 4 weeks + loading dose
Capivasertib 400 mg twice daily 4 days on/3 days off from cycle 1 day 15

N = 71

Fulvestrant 500 mg every 4 weeks + loading dose
Placebo twice daily 4 days on/3 days off from cycle 1 day 15

1:1 allocation balanced on

- Pathway activation status (*PIK3CA* mutation/low PTEN expression)
- Measurable/no-measurable disease
- Primary/secondary AI resistance

Primary endpoint

Investigator-assessed PFS in the intent-to-treat (ITT) population

Secondary endpoints

- Safety and toxicity
- Objective response rate (ORR), clinical benefit rate (CBR) and overall survival (OS) in the ITT population
- PFS/ORR/CBR in participants with PI3K/AKT/PTEN pathway altered and pathway non-altered tumours

Statistical considerations

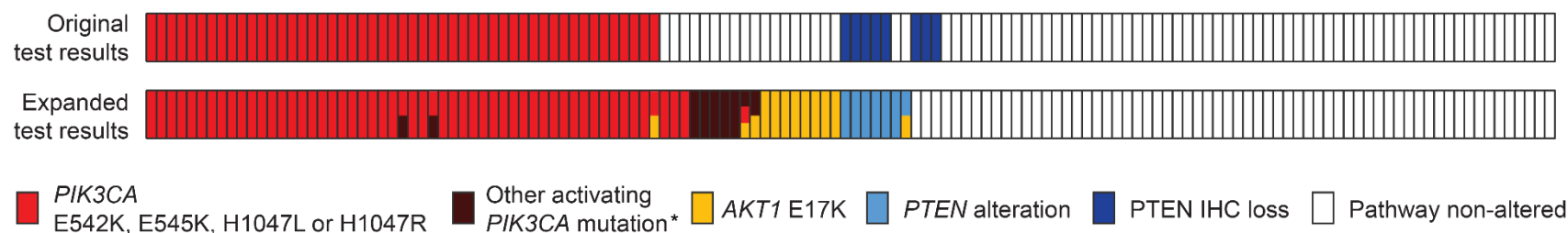
- Prespecified statistical analysis plan for the updated OS, PFS and biomarker subgroup analyses
- Cox regression adjusted for measurable disease status and level of resistance to AI treatment used to determine hazard ratios (HRs) with 95% confidence intervals (CIs)
- Significance set at the 2-sided 0.05 level

AI, aromatase inhibitor; CBR, clinical benefit rate; CI, confidence interval; ER, oestrogen receptor; HER2-, human epidermal growth factor receptor 2-negative; HR, hazard ratio; ITT, intent-to-treat; mBC, metastatic breast cancer; ORR, objective response rate; OS, overall survival; PFS, progression-free survival.

RH Jones FRCP PhD

FAKTION: expanded testing^a identified pathway alterations in 20 (25%) tumours originally classified as non-altered

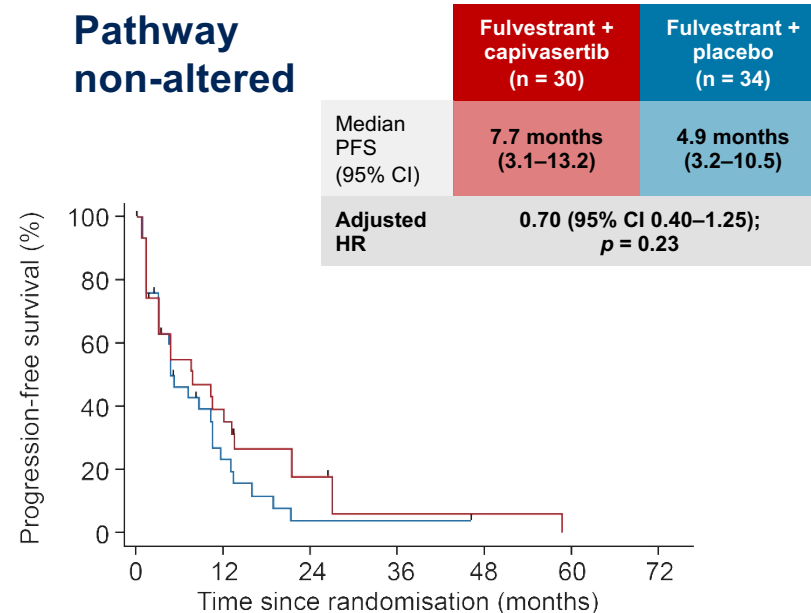
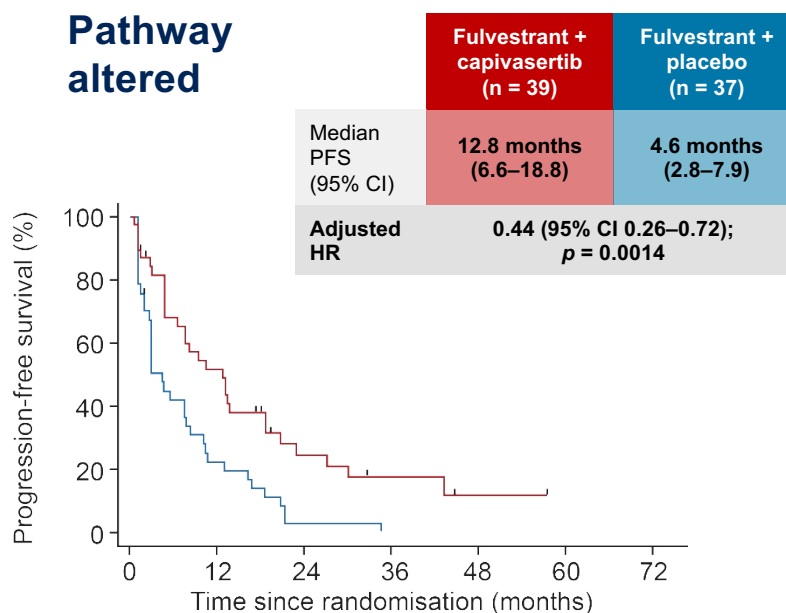
- Eight carried *AKT1* E17K (*AKT1* was not tested in the original panel)
- Five had a *PIK3CA* activating mutation not tested in the original panel
- Three had a *PIK3CA* mutation that was tested but not detected by the original panel due to limited sensitivity
- One carried a *PTEN* inactivating alteration
- Three had more than one type of *AKT1*, *PTEN* or *PIK3CA* alteration



^aTesting of tissue and/or plasma samples.

*R88Q, N345K, C420R, E542K, E545X, Q546X, M1043I, M1043V, H1047X, G1049R (where X represents any change in amino acid residue). IHC, immunohistochemistry.

FAKTION: PFS in the expanded pathway altered and pathway non-altered subgroups



Number at risk

	0	12	24	36	48	60	72
Fulvestrant plus placebo	37	8	1	0	0	0	0
Fulvestrant plus capivasertib	39	19	7	3	1	0	0

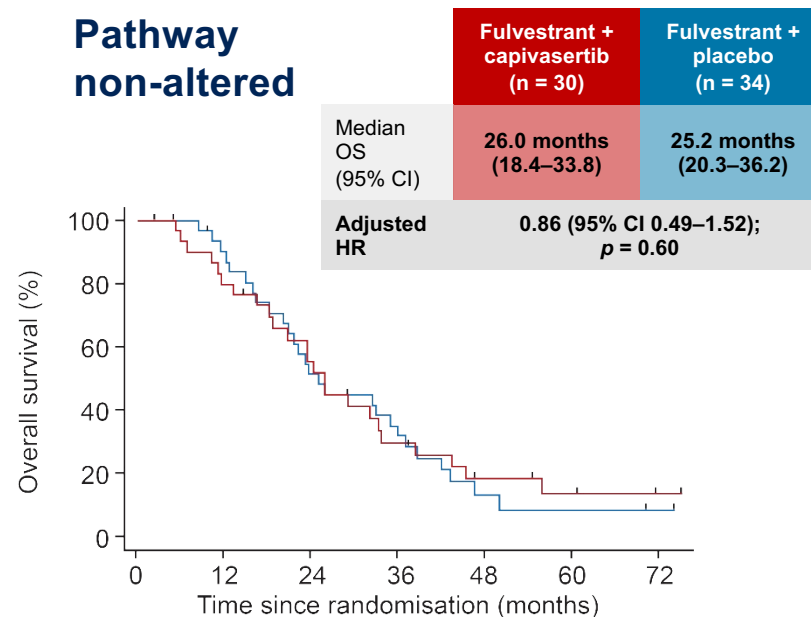
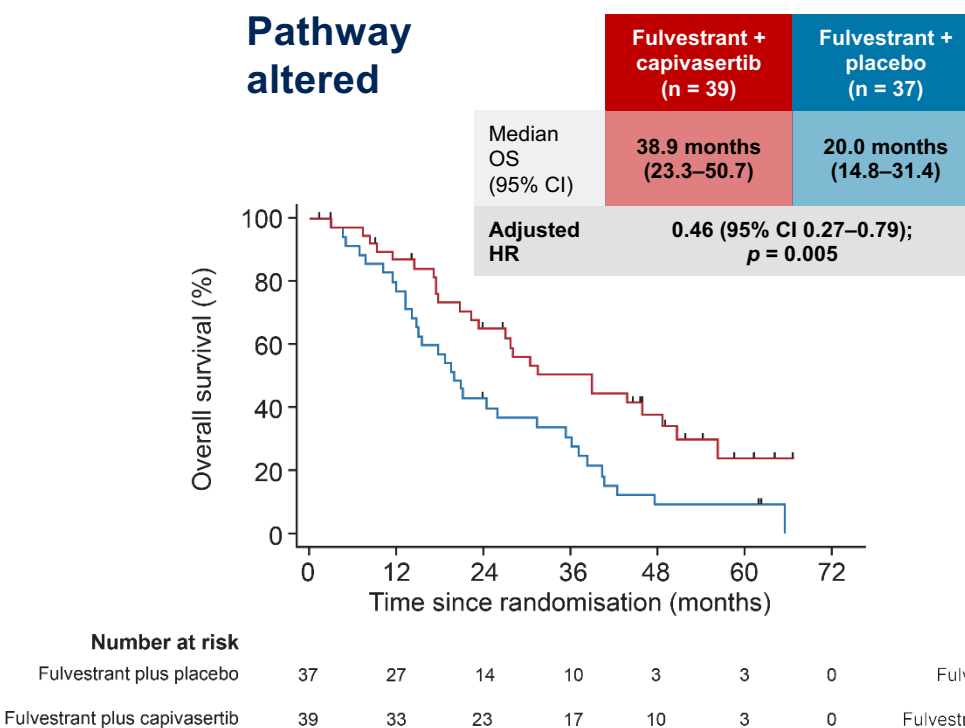
Number at risk

	0	12	24	36	48	60	72
Fulvestrant plus placebo	34	6	1	1	0	0	0
Fulvestrant plus capivasertib	30	10	4	1	1	0	0

Tick marks on plots show censoring events. CI, confidence interval; DCO, data cut off; HR, hazard ratio; ITT, intent-to-treat; PFS, progression-free survival.

DCO Nov
2021

FAKTION: OS in the expanded pathway altered and pathway non-altered subgroups

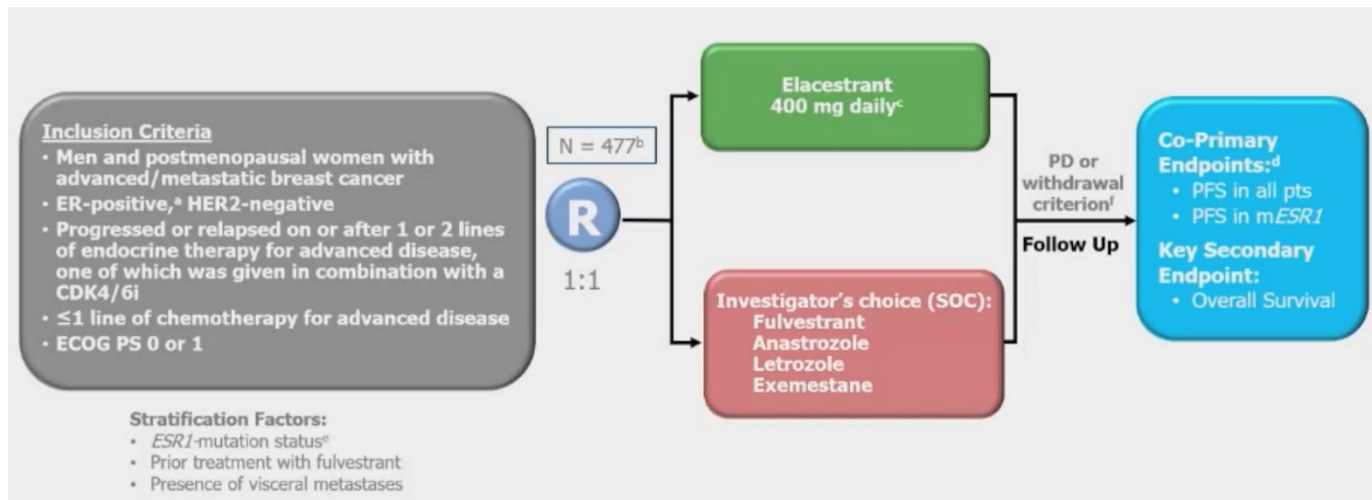


Tick marks on plots show censoring events. CI, confidence interval; DCO, data cut off; HR, hazard ratio; ITT, intent-to-treat; OS, overall survival.

DCO Nov
2021

EMERALD: Elacestrant vs TPC in ER+/HER2- MBC

- Elacestrant (RAD1901) is an oral SERD
- Previously demonstrated single-agent activity in patients following CDK4/6i and fulvestrant
- Confirmed activity in tumors with ESR1 mutations

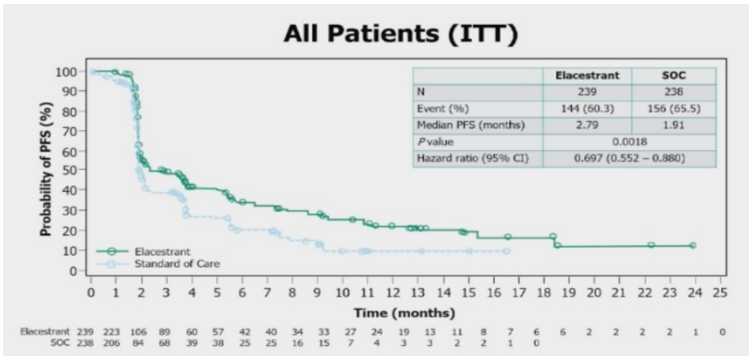


Key Patient and Disease Characteristics:

- Median age 63y
- Visceral mets 68–73%
- Bone only disease 12–16%
- 1 prior line of ET 54–64%
- 1 prior line of CT 20–28%

EMERALD: Efficacy

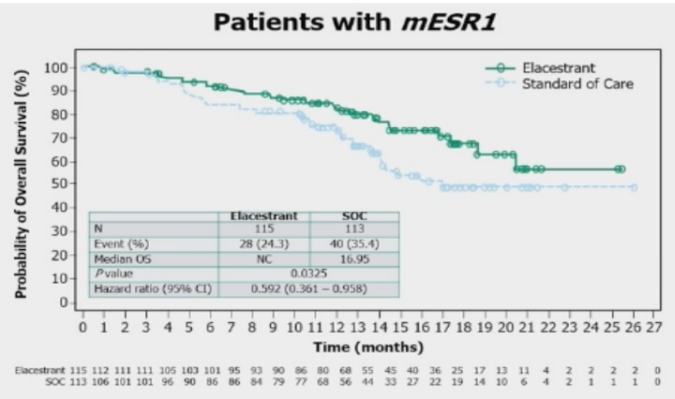
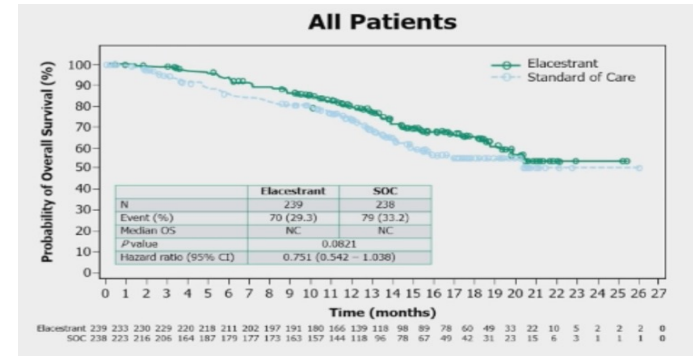
Progression-free Survival



30% improvement in mPFS with elacestrant

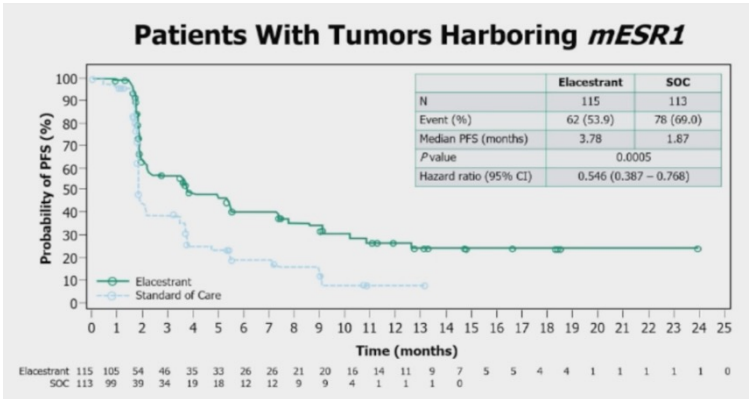
Elacestrant vs fulvestrant
mPFS 2.8mo vs 1.9mo
HR 0.684 (95% CI, 0.521–0.897)
p=0.0049

Overall Survival



45% improvement in mPFS with elacestrant

Elacestrant vs fulvestrant
mPFS 3.78mo vs 1.87mo
HR 0.504 (95% CI, 0.341–0.741)
p=0.0005



EMERALD: Toxicity

Preferred Term	SOC							
	Elacestrant N = 237, n (%)		Total N = 229, n (%)		Fulvestrant N = 161, n (%)		AI N = 68, n (%)	
	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)

Treatment-related AEs leading to discontinuation were infrequent (E 3.4% vs. TPC 0.9%)

Conclusions: HR+ HER2- Metastatic Breast Cancer

How to improve efficacy of standard options? CDK 4/6 inhibitors

- 1L OS improvement with ribociclib
- 1L palbociclib no OS improvement (22% pts ET-resistant)
- Ribociclib plus fulvestrant superior to fulvestrant post-progression on mainly palbociclib + AI – phase II trial

How to overcome resistance? mTOR or PIK3CA inhibition or SERD

- Everolimus approved for use post-progression on NSAI with everolimus
- Alpelisib + fulvestrant active post-progression on CDK 4/6 inhibitor with *PIK3CA* mutation
- Elacestrant more effective than fulvestrant/AI post CDK 4/6 inhibitor, especially with *ESR1* mutation – multiple oral SERDs in development
- Capivasertib, samuraciclib, enobasarm (AR agonist) hold promise

New Therapies for Endocrine Therapy-Resistant HR+ HER2-MBC

- Trastuzumab deruxtecan for HER2 low
- Sacituzumab