

Improving Outcomes with First-Line Endocrine-Based Therapy for Patients with HR-Positive, HER2-Negative Metastatic Breast Cancer

A CME/MOC-Accredited Live Webinar

Tuesday, October 8, 2024

5:00 PM – 6:00 PM ET

Faculty

Francois-Clement Bidard, MD, PhD

Kevin Kalinsky, MD, MS

Moderator

Neil Love, MD

Faculty



Francois-Clement Bidard, MD, PhD
Professor of Medical Oncology
Institut Curie
Versailles University
Paris, France



MODERATOR
Neil Love, MD
Research To Practice
Miami, Florida



Kevin Kalinsky, MD, MS
Professor
Department of Hematology and Medical Oncology
Emory University School of Medicine
Director, Division of Medical Oncology
Director, Glenn Family Breast Center
Winship Cancer Institute of Emory University
Atlanta, Georgia

Commercial Support

This activity is supported by an educational grant from AstraZeneca Pharmaceuticals LP.

Dr Love — Disclosures

Dr Love is president and CEO of Research To Practice. Research To Practice receives funds in the form of educational grants to develop CME activities from the following companies: AbbVie Inc, Adaptive Biotechnologies Corporation, ADC Therapeutics, Agios Pharmaceuticals Inc, Alexion Pharmaceuticals, Amgen Inc, Array BioPharma Inc, a subsidiary of Pfizer Inc, Arvinas Operations Inc, Astellas, AstraZeneca Pharmaceuticals LP, Aveo Pharmaceuticals, Bayer HealthCare Pharmaceuticals, BeiGene Ltd, BeyondSpring Pharmaceuticals Inc, Black Diamond Therapeutics Inc, Blueprint Medicines, Boehringer Ingelheim Pharmaceuticals Inc, Bristol Myers Squibb, Celgene Corporation, Clovis Oncology, Coherus BioSciences, CTI BioPharma, a Sobi Company, Daiichi Sankyo Inc, Eisai Inc, Elevation Oncology Inc, EMD Serono Inc, Epizyme Inc, Exact Sciences Corporation, Exelixis Inc, Five Prime Therapeutics Inc, Foundation Medicine, G1 Therapeutics Inc, Genentech, a member of the Roche Group, Genmab US Inc, Geron Corporation, Gilead Sciences Inc, Grail Inc, GSK, Halozyme Inc, Helsinn Healthcare SA, Hologic Inc, ImmunoGen Inc, Incyte Corporation, Ipsen Biopharmaceuticals Inc, Janssen Biotech Inc, administered by Janssen Scientific Affairs LLC, Jazz Pharmaceuticals Inc, Karyopharm Therapeutics, Kite, A Gilead Company, Kronos Bio Inc, Legend Biotech, Lilly, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, MEI Pharma Inc, Merck, Mersana Therapeutics Inc, Mirati Therapeutics Inc, Mural Oncology Inc, Natera Inc, Novartis, Novartis Pharmaceuticals Corporation on behalf of Advanced Accelerator Applications, Novocure Inc, Oncopeptides, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Puma Biotechnology Inc, Regeneron Pharmaceuticals Inc, R-Pharm US, Sanofi, Seagen Inc, Servier Pharmaceuticals LLC, SpringWorks Therapeutics Inc, Stemline Therapeutics Inc, Sumitomo Dainippon Pharma Oncology Inc, Syndax Pharmaceuticals, Taiho Oncology Inc, Takeda Pharmaceuticals USA Inc, TerSeraTherapeutics LLC, Tesaro, A GSK Company, TG Therapeutics Inc, Turning Point Therapeutics Inc, Verastem Inc, and Zymeworks Inc.

Research To Practice CME Planning Committee Members, Staff and Reviewers

Planners, scientific staff and independent reviewers for Research To Practice have no relevant conflicts of interest to disclose.

Prof Bidard — Disclosures

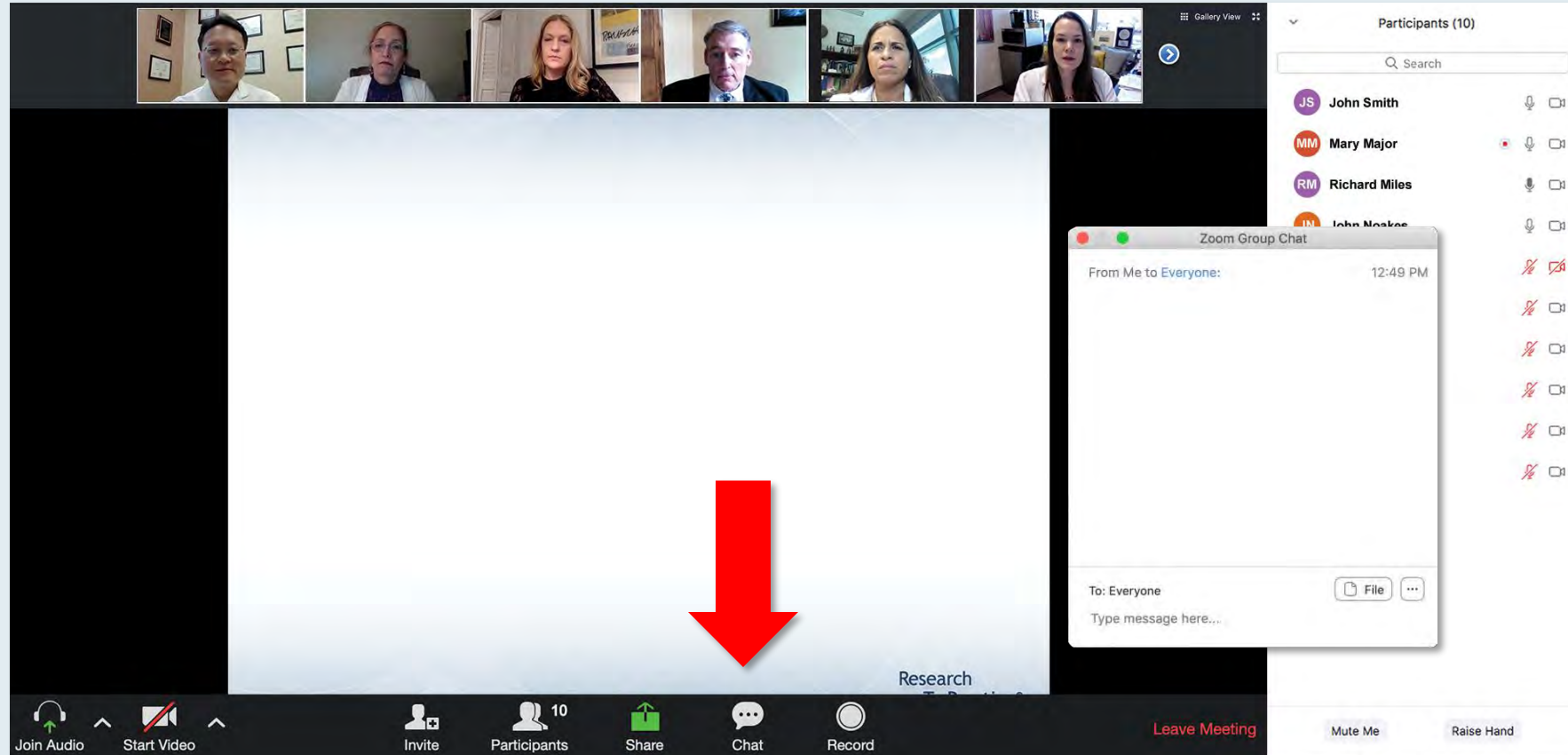
Advisory Committees	AstraZeneca Pharmaceuticals LP, Daiichi Sankyo Inc, Exact Sciences Corporation, GE Healthcare, Gilead Sciences Inc, Inatherys, Lilly, Menarini Group, Novartis, Pfizer Inc, Roche Laboratories Inc, SAGA Diagnostics, Stemline Therapeutics Inc
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Speakers Bureaus	AstraZeneca Pharmaceuticals LP, Daiichi Sankyo Inc, Lilly, Menarini Group, Pfizer Inc, Stemline Therapeutics Inc
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Dr Kalinsky — Disclosures

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Data and Safety Monitoring Board/Committee	Merck
Stock Options/Stock — Public Companies	Grail Inc, Array BioPharma Inc, a subsidiary of Pfizer Inc, Pfizer Inc (spouse prior employment)

This educational activity contains discussion of non-FDA-approved uses of agents and regimens. Please refer to official prescribing information for each product for approved indications.

We Encourage Clinicians in Practice to Submit Questions



Feel free to submit questions now before the program begins and throughout the program.

Familiarizing Yourself with the Zoom Interface

Expand chat submission box

The screenshot shows a Zoom meeting interface. At the top, there are video thumbnails for 'RTP Coordinat...', 'Kirsten Miller', 'RTP Mike Rivera', and 'Lisa Suarez'. Below the thumbnails is a slide titled 'Meet The Professor Program Participating Faculty' with six faculty members listed:

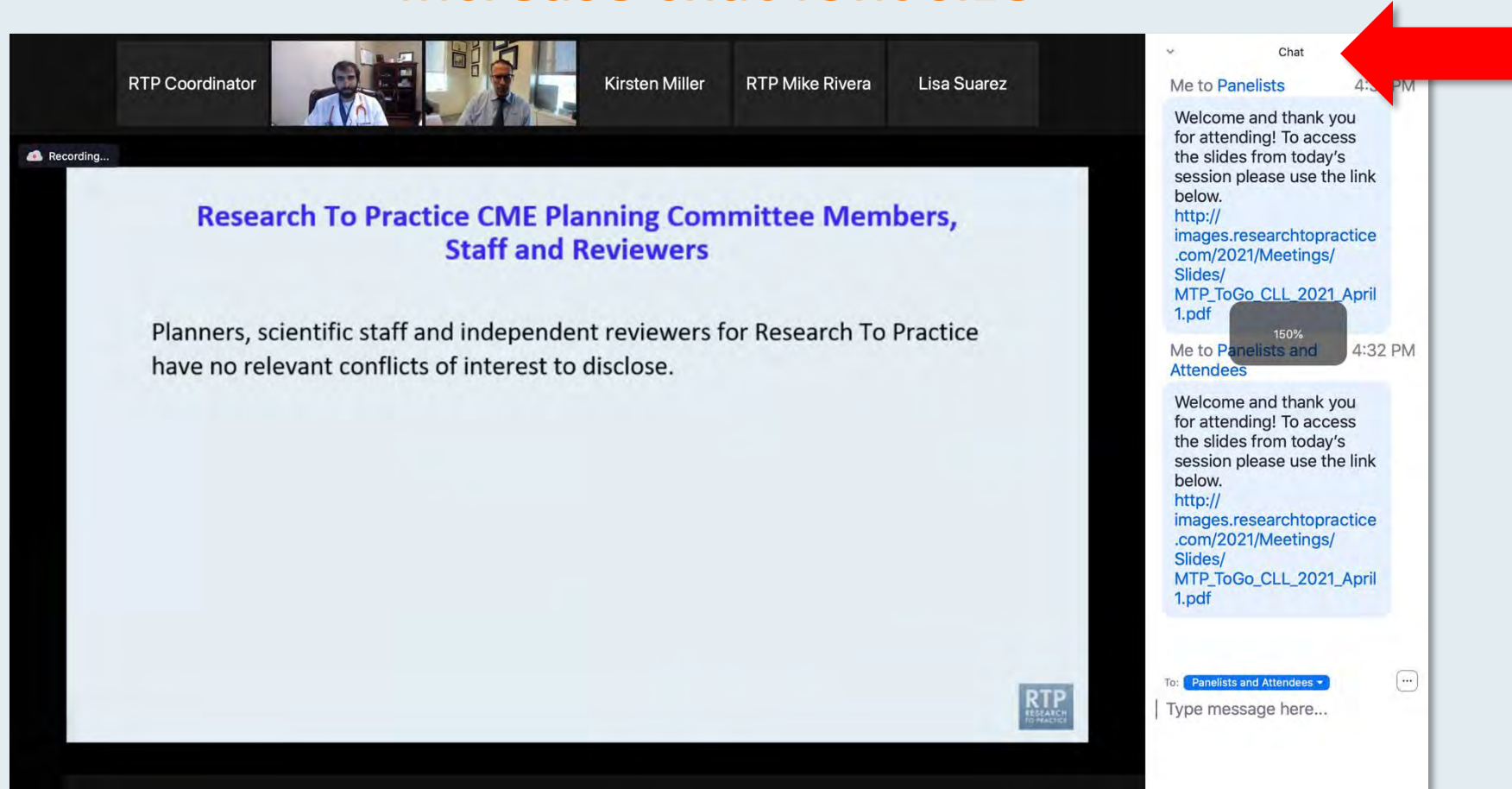
- Nancy L Bartlett, MD**
Professor of Medicine
Koman Chair in Medical Oncology
Washington University School of Medicine
St Louis, Missouri
- Jonathan W Friedberg, MD, MMSc**
Samuel E Durand Professor of Medicine
Director, James P Wilmot Cancer Institute
University of Rochester
Rochester, New York
- Carla Casulo, MD**
Associate Professor of Medicine
Division of Hematology/Oncology
Director, Hematology/Oncology Fellowship Program
University of Rochester
Wilmot Cancer Institute
Rochester, New York
- Brian T Hill, MD, PhD**
Director, Lymphoid Malignancy Program
Cleveland Clinic Taussig Cancer Institute
Cleveland, Ohio
- Christopher R Flowers, MD, MS**
Chair, Professor
Department of Lymphoma/Myeloma
The University of Texas MD Anderson Cancer Center
Houston, Texas
- Brad S Kahl, MD**
Professor of Medicine
Washington University School of Medicine
Director, Lymphoma Program
Siteman Cancer Center
St Louis, Missouri

On the right side, there is a chat window titled 'Chat'. It contains two messages from 'Me to Panelists' at 4:31 PM and 'Me to Panelists and Attendees' at 4:32 PM. Both messages include a welcome message and a link to a PDF document. Below the messages is a white line above a text input field labeled 'Type message here...'. A red arrow points to this white line, indicating that it can be dragged up to expand the submission box.

Drag the white line above the submission box up to create more space for your message.

Familiarizing Yourself with the Zoom Interface

Increase chat font size



The screenshot displays a Zoom meeting interface. At the top, there are video thumbnails for participants: RTP Coordinator, Kirsten Miller, RTP Mike Rivera, and Lisa Suarez. Below the thumbnails is a slide titled "Research To Practice CME Planning Committee Members, Staff and Reviewers". The slide content reads: "Planners, scientific staff and independent reviewers for Research To Practice have no relevant conflicts of interest to disclose." A "Recording..." indicator is visible in the top left of the slide area. On the right side, the chat window is open, showing a message from "Me to Panelists" at 4:32 PM. The message text is: "Welcome and thank you for attending! To access the slides from today's session please use the link below. http://images.researchtopractice.com/2021/Meetings/Slides/MTP_ToGo_CLL_2021_April_1.pdf". A red arrow points to the chat window, specifically to the font size adjustment icon (a small square with a plus sign) located above the message text. The chat window also shows a "150%" font size indicator and a "To: Panelists and Attendees" dropdown menu.

**Press Command (for Mac) or Control (for PC) and the + symbol.
You may do this as many times as you need for readability.**

Clinicians in the Audience, Please Complete the Pre- and Postmeeting Surveys

The screenshot shows a Zoom meeting with a gallery view of participants at the top. The main content area displays a slide titled "Meet The Professor" with the subtitle "Optimizing the Selection and Sequencing of Therapy for Patients with Metastatic Gastrointestinal Cancer". The event is scheduled for Wednesday, August 25, from 5:00 PM to 6:00 PM. The faculty member is Wells A Messersmith, and the moderator is Neil Love, MD. A "Quick Survey" overlay is active, listing various treatment combinations for selection. The survey options include: Carfilzomib +/- dexamethasone, Pomalidomide +/- dexamethasone, Carfilzomib + pomalidomide +/- dexamethasone, Elotuzumab + lenalidomide +/- dexamethasone, Elotuzumab + pomalidomide +/- dexamethasone, Daratumumab + lenalidomide +/- dexamethasone, Daratumumab + pomalidomide +/- dexamethasone, Daratumumab + bortezomib +/- dexamethasone, and Ixazomib + Rd. A "Submit" button is at the bottom of the survey. The participants list on the right includes John Smith, Mary Major, Richard Miles, John Noakes, Alice Suarez, Jane Perez, Robert Stiles, Juan Fernandez, Ashok Kumar, and Jeremy Smith. The bottom toolbar shows standard Zoom controls like Join Audio, Start Video, Invite, Participants, Share, Chat, Record, and Leave Meeting.

The screenshot shows the same Zoom meeting with a different slide. The slide title is "Regulatory and reimbursement issues aside, which would you recommend for a 65-year-old patient with clear cell renal cell carcinoma (ccRCC) if follow-up 3 years later is found to have asymptomatic (PS 0)?" Below the title is a numbered list of treatment options: 1. Nivolumab/ipilimumab, 2. Avelumab/axitinib, 3. Pembrolizumab/axitinib, 4. Pembrolizumab/lenvatinib, 5. Nivolumab/cabozantinib, 6. Tyrosine kinase inhibitor (TKI) monotherapy, 7. Anti-PD-1/PD-L1 monotherapy, and 8. Other. A "Quick Poll" overlay is active, showing the same list of options with checkboxes and a "Submit" button. The participants list and the bottom toolbar are identical to the previous screenshot.

ONCOLOGY TODAY

WITH DR NEIL LOVE

An interview with Professor
Giuseppe Curigliano, MD, PhD
— Management of Metastatic
Breast Cancer



PROF GIUSEPPE CURIGLIANO
EUROPEAN INSTITUTE OF ONCOLOGY



The Implications of Recent Datasets for the Current and Future Management of Gastrointestinal Cancers — An ESMO Congress 2024 Review

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Tuesday, October 15, 2024

5:00 PM – 6:00 PM ET

Faculty

Tanios Bekaii-Saab, MD

Philip A Philip, MD, PhD, FRCP

Moderator

Neil Love, MD

Join Us In Person or Virtually

Data + Perspectives: Clinical Investigators Explore the Application of Recent Datasets in Current Oncology Care

A Multitumor Hybrid Symposium in Partnership with Florida Cancer Specialists & Research Institute

Saturday, October 26, 2024

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Faculty**

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**Prostate Cancer
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**Matthew R Smith, MD, PhD
Sandy Srinivas, MD**

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Multiple Myeloma

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**Lung Cancer Update:
Antibody-Drug Conjugates
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Faculty

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Myelofibrosis

Faculty

Faculty to be announced.

Gynecologic Cancers

Faculty

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What Clinicians Want to Know: Addressing Current Questions and Controversies in the Management of Hematologic Cancers

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7:30 AM – 9:00 AM PT

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11:30 AM – 1:30 PM PT

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HER2-Low and HER2-Ultralow Breast Cancer

**Tuesday, December 10, 2024
7:15 PM – 8:45 PM CT**

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*A Multitumor CME/MOC-, ACPE- and NCPD-Accredited
Educational Conference Developed in Partnership with
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Friday to Sunday, February 28 to March 2, 2025

Fontainebleau Hotel, Miami Beach, Florida

Moderated by Neil Love, MD

Thank you for joining us!

***Information on how to obtain CME, ABIM MOC
and ABS credit will be provided at the
conclusion of the activity in the Zoom chat room.
Attendees will also receive an email in
1 to 3 business days with these instructions.***

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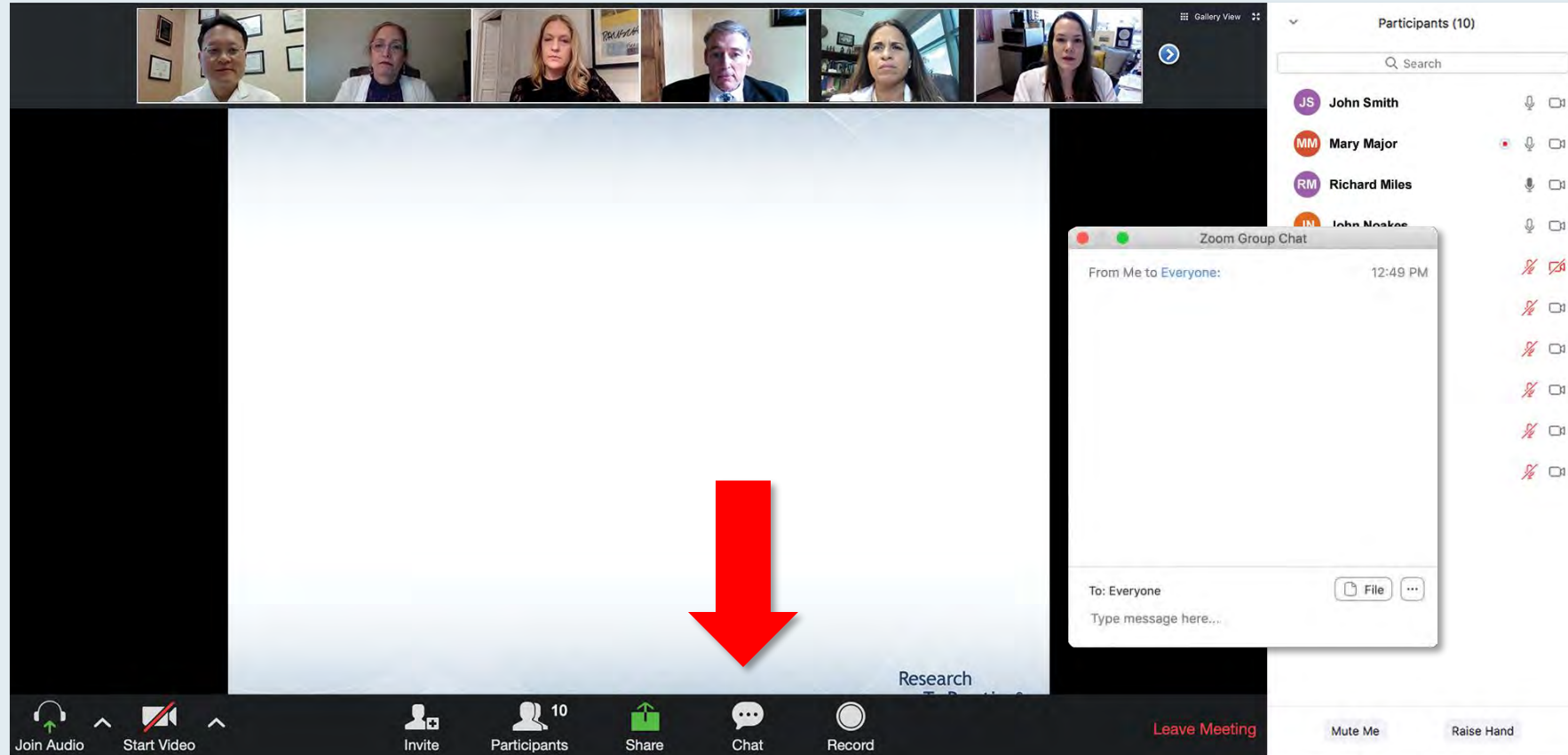


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- Daratumumab + pomalidomide +/- dexamethasone
- Daratumumab + bortezomib +/- dexamethasone
- Ixazomib + Rd
- Other

Submit

Participants (10)

- John Smith
- Mary Major
- Richard Miles
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- Jane Perez
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- Ashok Kumar
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Quick Poll

- Nivolumab/ipilimumab
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- Tyrosine kinase inhibitor (TKI) monotherapy
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Agenda

Introduction: Confronting Metastatic Breast Cancer (mBC)

Module 1: Mechanisms of Resistance to Endocrine Therapy in HR-Positive mBC; Use of Oral Selective Estrogen Receptor Degraders (SERDs) — Dr Kalinsky

Module 2: Ongoing Evaluation of Early Therapeutic Switching for HR-Positive mBC Harboring ESR1 Mutations — Prof Bidard

Module 3: Other Key Datasets and Ongoing Trials in HR-Positive Breast Cancer

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NCCN Guidelines for Invasive Breast Cancer

HR-Positive, HER2-Negative mBC

HR-Positive, HER2-Negative mBC and Postmenopausal Patients or Premenopausal Patients Receiving Ovarian Ablation or Suppression

Setting	Preferred regimens	Other recommended regimens (first and subsequent lines)
First line	Aromatase inhibitor + CDK4/6 inhibitor <ul style="list-style-type: none"> ▪ Aromatase inhibitor + ribociclib (Category 1) ▪ Aromatase inhibitor + abemaciclib ▪ Aromatase inhibitor + palbociclib 	Selective ER downregulator <ul style="list-style-type: none"> ▪ Fulvestrant ▪ Elacestrant for ESR1-mutated tumors
	Fulvestrant + CDK4/6 inhibitor <ul style="list-style-type: none"> ▪ Fulvestrant + ribociclib (Category 1) ▪ Fulvestrant + abemaciclib (Category 1) ▪ Fulvestrant + palbociclib 	Selective ER downregulator (fulvestrant, Category 1) + nonsteroidal aromatase inhibitor (anastrozole, letrozole) (Category 1)
Second line	Fulvestrant + CDK4/6 inhibitor if CDK4/6 inhibitor not previously used (Category 1)	Nonsteroidal aromatase inhibitor <ul style="list-style-type: none"> ▪ Anastrozole ▪ Letrozole
	Fulvestrant + capivasertib for PIK3CA-, AKT1-mutated or PTEN-altered tumors (Category 1)	Selective ER modulator <ul style="list-style-type: none"> ▪ Tamoxifen
	Alpelisib + fulvestrant for PIK3CA-mutated tumors (Category 1)	Steroidal aromatase inactivator <ul style="list-style-type: none"> ▪ Exemestane
	Everolimus + endocrine therapy (exemestane, fulvestrant, tamoxifen)	

Agenda

Introduction: Confronting Metastatic Breast Cancer (mBC)

**Module 1: Mechanisms of Resistance to Endocrine Therapy in HR-Positive mBC;
Use of Oral Selective Estrogen Receptor Degraders (SERDs) — Dr Kalinsky**

**Module 2: Ongoing Evaluation of Early Therapeutic Switching for HR-Positive
mBC Harboring ESR1 Mutations — Prof Bidard**

Module 3: Other Key Datasets and Ongoing Trials in HR-Positive Breast Cancer

Mechanisms of Resistance to Endocrine Therapy in Hormone Receptor (HR)-Positive Metastatic Breast Cancer (mBC) and Rationale for the Use of Oral Selective Estrogen Receptor Degradors (SERDs) in this Setting

Kevin Kalinsky, MD, MS

Professor of Medicine

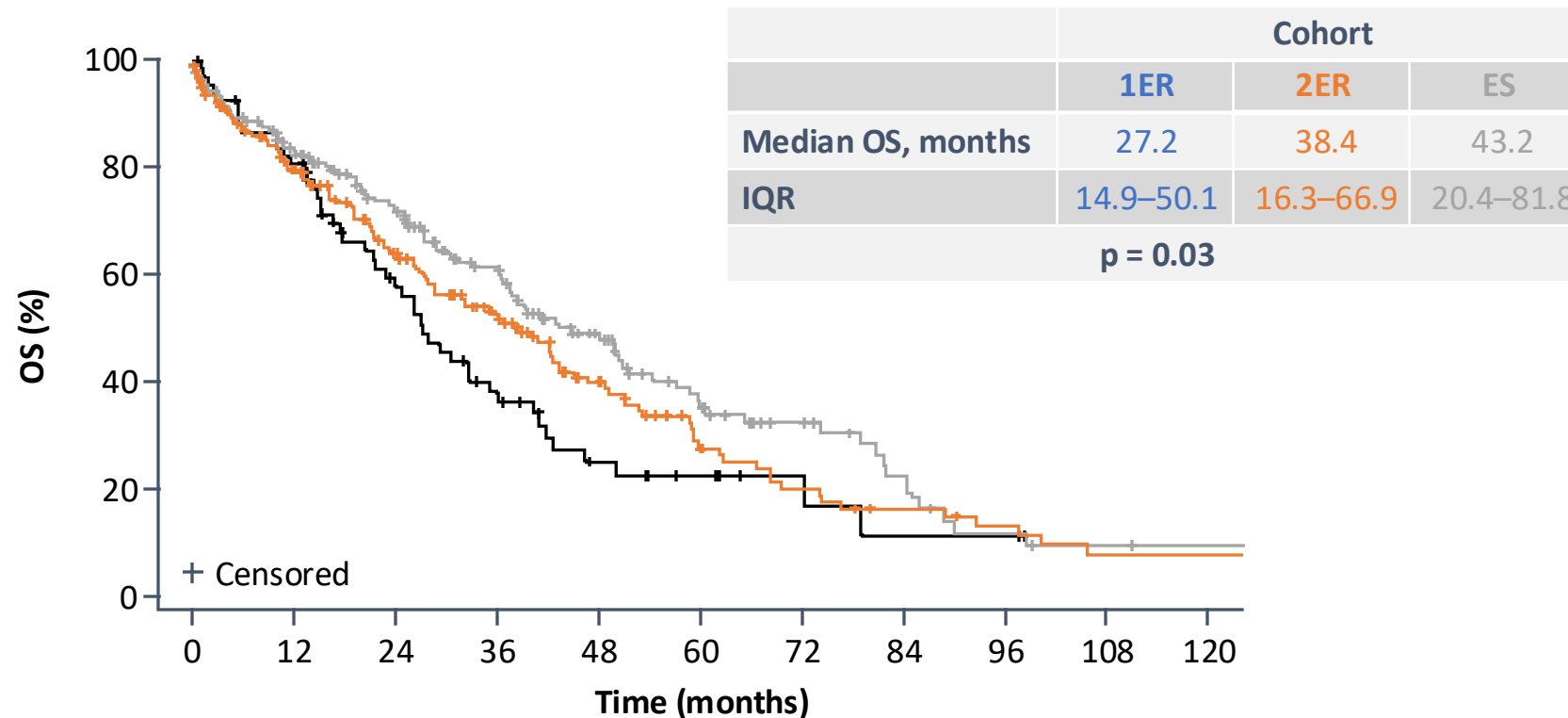
Director, Glenn Family Breast Center

Director, Breast Medical Oncology

Louisa and Rand Glenn Family Chair in Breast Cancer Research

Endocrine resistance is associated with poor prognosis in HR+ BC

Patient-level data from four randomised clinical trials* (n = 493 with 1ER, 2ER or ES)†



* N = 9,058; n = 6,612 had HR+, HER2– BC and, of those, n = 493 had distant relapse as the first DFS event.

† Median follow-up from the occurrence of distant relapse was 3.8 years (IQR 1.6–7.5).

1ER, primary endocrine resistance; 2ER, secondary endocrine resistance; BC, breast cancer; DFS, disease-free survival; ES, endocrine sensitive; HR+, hormone receptor-positive;

IQR, interquartile range; OS, overall survival.

Lambertini M, et al. *eClinicalMedicine* 2023; 59:101931.

Results for Pivotal CDK 4/6 Inhibitor Trials

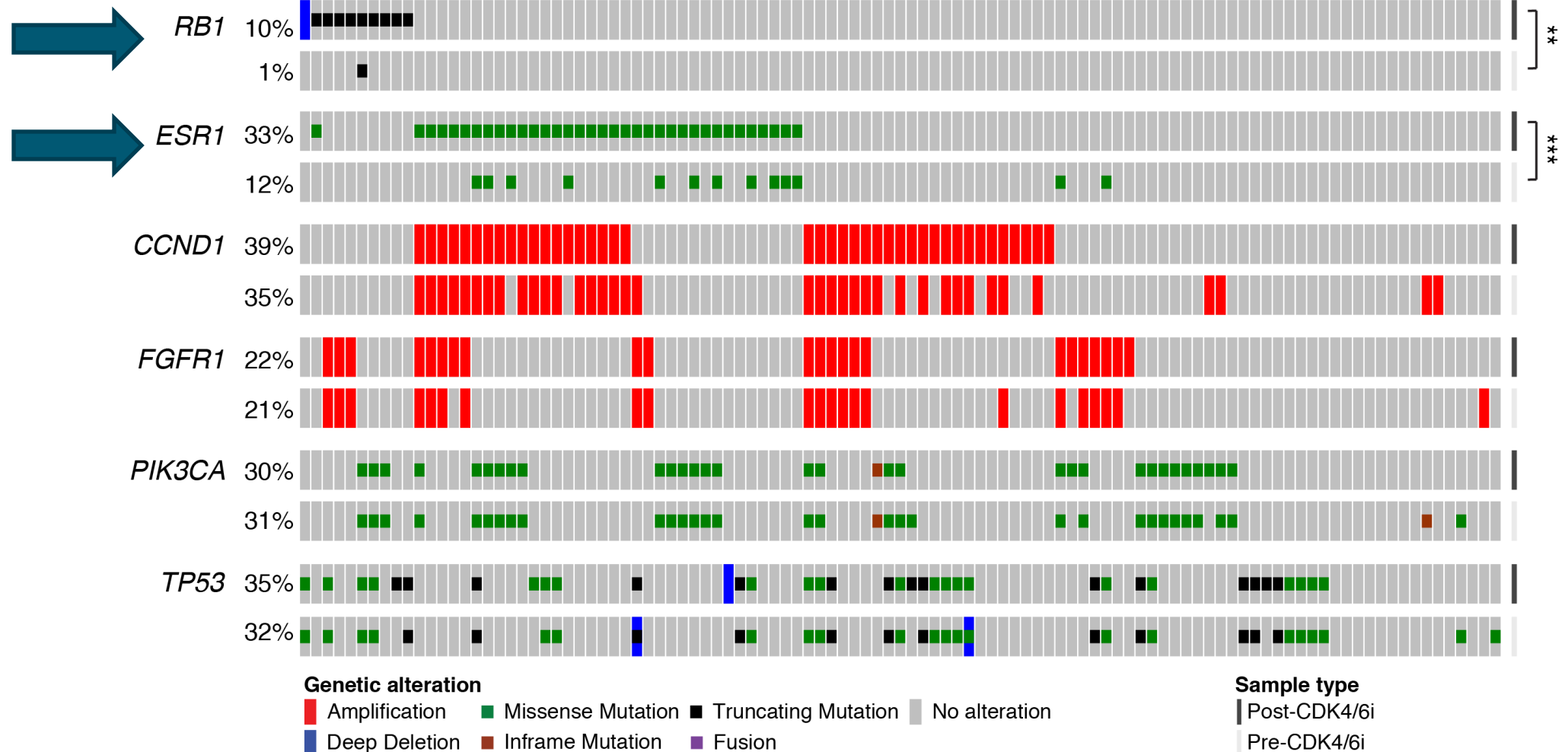
Trial	CDK Inhibitor	Line of Therapy (Endocrine Rx)	Menopausal Status	PFS HR	Statistical Significance	OS HR	Statistical Significance
PALOMA-2 ^[1]	Palbociclib	1 st Line/AI	Post	0.56	Yes	0.96	No
MONALEESA-2 ^[2]	Ribociclib	1 st Line/AI	Post	0.57	Yes	0.76	Yes
MONALEESA-7 ^[3a]	Ribociclib	1 st Line/AI or Tam	Pre/Peri	0.55	Yes	0.70	Yes
MONARCH-3 ^[4]	Abemaciclib	1 st Line/AI	Post	0.54	Yes	0.75	No (@IA2)
PALOMA-3 ^[5]	Palbociclib	2 nd Line/Fulv	Pre/Post	0.46	Yes	0.81	No
MONARCH-2 ^[6]	Abemaciclib	2 nd Line/Fulv	Pre/Post	0.55	Yes	0.78	Yes
MONALEESA-3 ^[7]	Ribociclib	1 st /2 nd Line/Fulv	Pre/Post	0.59	Yes	0.72	Yes

- a. Missing survival data (ie, pts who withdrew consent or were lost to follow-up) and were censored (assumed to be alive) at time of analysis: 13% in palbo+AI arm vs 21% in control arm.
b. 27% of patients in control arm went on to receive a CDK4/6i (24% received palbociclib).
c. PFS/OS data reported for approved AI subset.

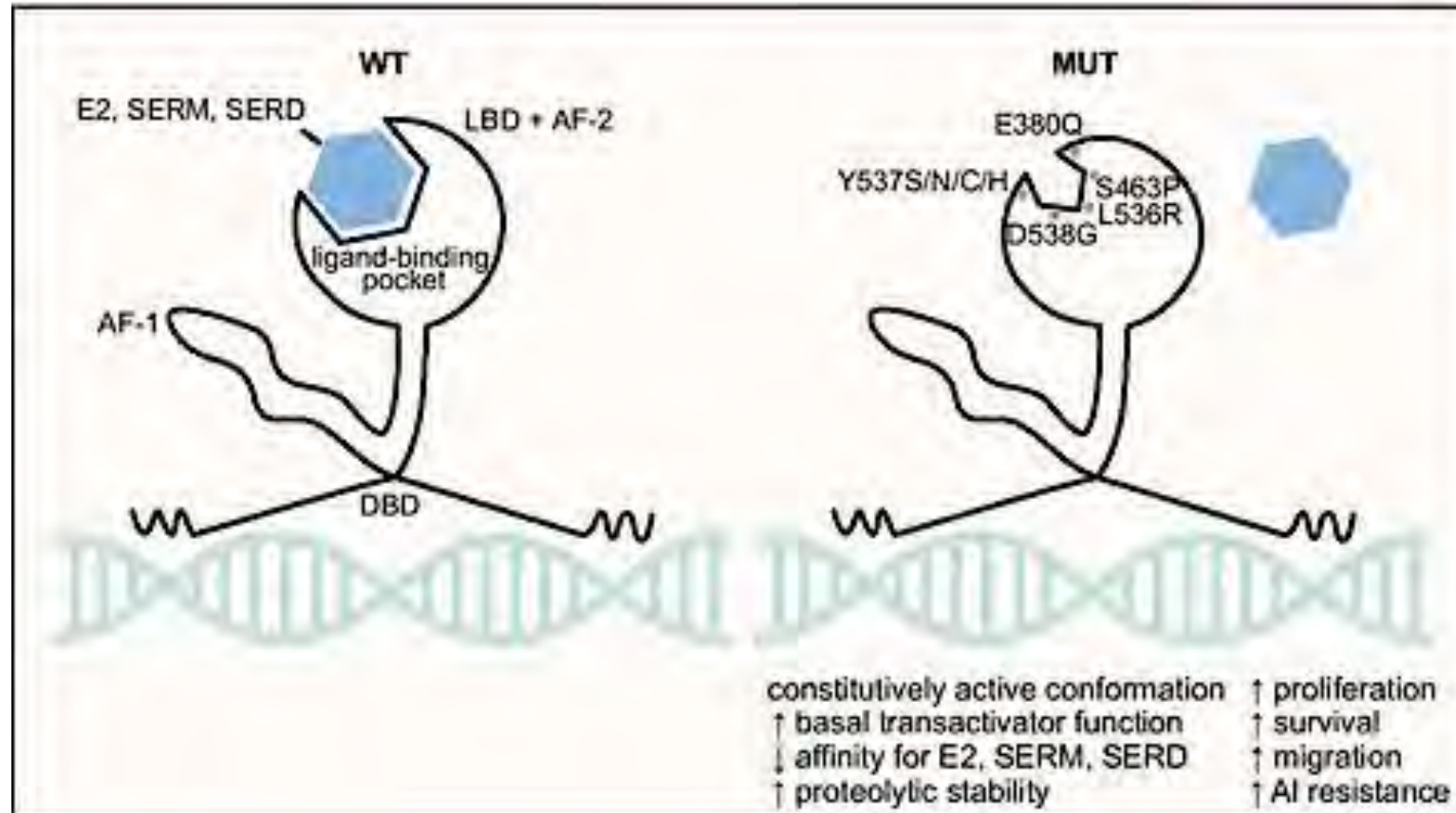
AI indicates aromatase inhibitor; Fulv, fulvestrant; IA2, interim analysis 2; NR, not reported; Rx, therapy.

1. PALOMA-2: Finn R, et al. *N Engl J Med*. 2016;375:1925-1936; Rugo H, et al. *Breast Cancer Res Treat*. 2019;174:719-729. Finn R, et al. ASCO 2022. LBA1003. 2. MONALEESA-2: Hortobagyi G, et al. *N Engl J Med*. 2016;375:1738-1748; Hortobagyi G, et al. *Ann Oncol*. 2018;29:1541-1547; Hortobagyi G, et al. ESMO 2021. Abstract LBA17_PR. 3. MONALEESA-7: Tripathy D, et al. *Lancet Oncol*. 2018;19:904-915; Im S-A, et al. *New Engl J Med*. 2019;381:307-316. 4. MONARCH-3: Goetz M, et al. *J Clin Oncol*. 2017;35:3638-3646; Johnson S, et al. *NPJ Breast Cancer*. 2019;5:5. Goetz MP, et al. ESMO 2022. Abstract LBA 15. 5. PALOMA-3: Turner NC, et al. *New Engl J Med*. 2015;373:209-219; Cristofanilli M, et al. *Lancet Oncol*. 2016;17:425-439; Turner NC, et al. *New Engl J Med*. 2015;373:1672-1673. 6. MONARCH-2: Sledge G, et al. *J Clin Oncol*. 2017;35:2875-2884; Sledge G, et al. *JAMA Oncol*. 2020;6:116-124. 7. MONALEESA-3: Slamon D, et al. *J Clin Oncol*. 2018;36:2465-2472; Slamon D, et al. *New Engl J Med*. 2020;382:514-524.

Comparison of Paired Post- vs Pre-CDK4/6i Breast Cancer Tumors



ESR1 mutations in Breast Cancer



Prevalence of *ESR1* Mutations in Untreated vs Treated ER+/HER2- mBC

Treatment Setting	<i>ESR1</i> Mutation Prevalence ¹⁻⁵
At Initiation of First-Line ET	~5%
Second-Line	~33%
Third-Line	Up to 40%

ESR1 Mutations and OS on Fulvestrant vs Exemestane in Advanced HR+ Breast Cancer: A Combined Analysis of the Phase III SoFEA and EFECT

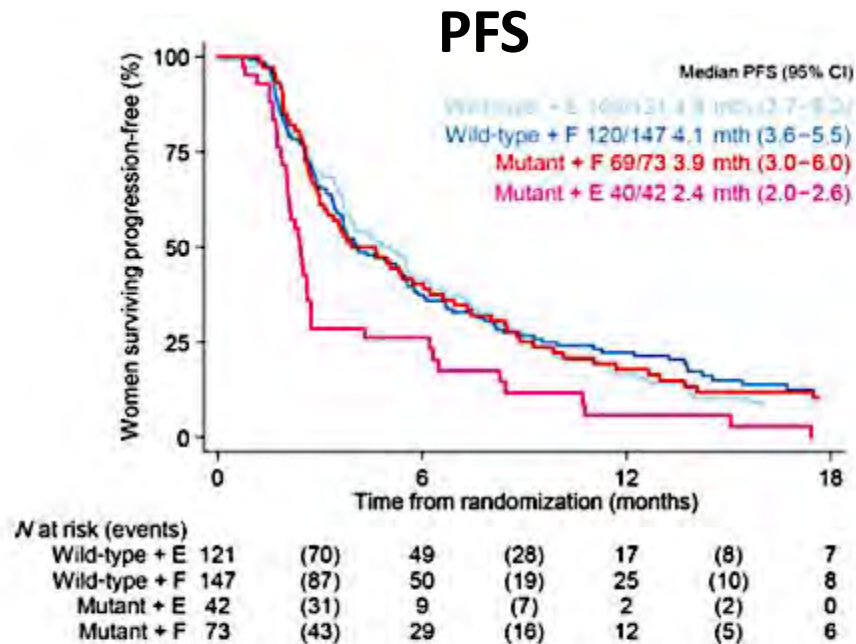


Figure 2. PFS in the combined analysis of SoFEA and EFECT by *ESR1* mutation status and treatment. Patients with *ESR1* mutation detected: HR, 0.59; 95% CI, 0.39-0.89; $P = 0.01$. Patients without *ESR1* mutation detected: HR, 1.05, 95% CI, 0.81-1.37; $P = 0.69$. Interaction test $P = 0.02$. E, exemestane; F, fulvestrant; mth, month; mutant, *ESR1* mutation detected; wild-type, *ESR1* mutation not detected.

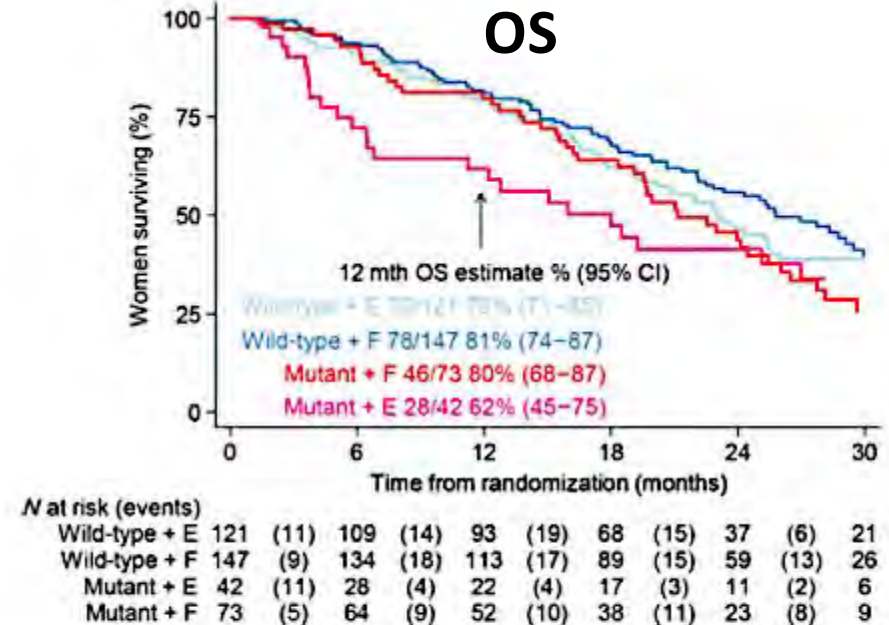


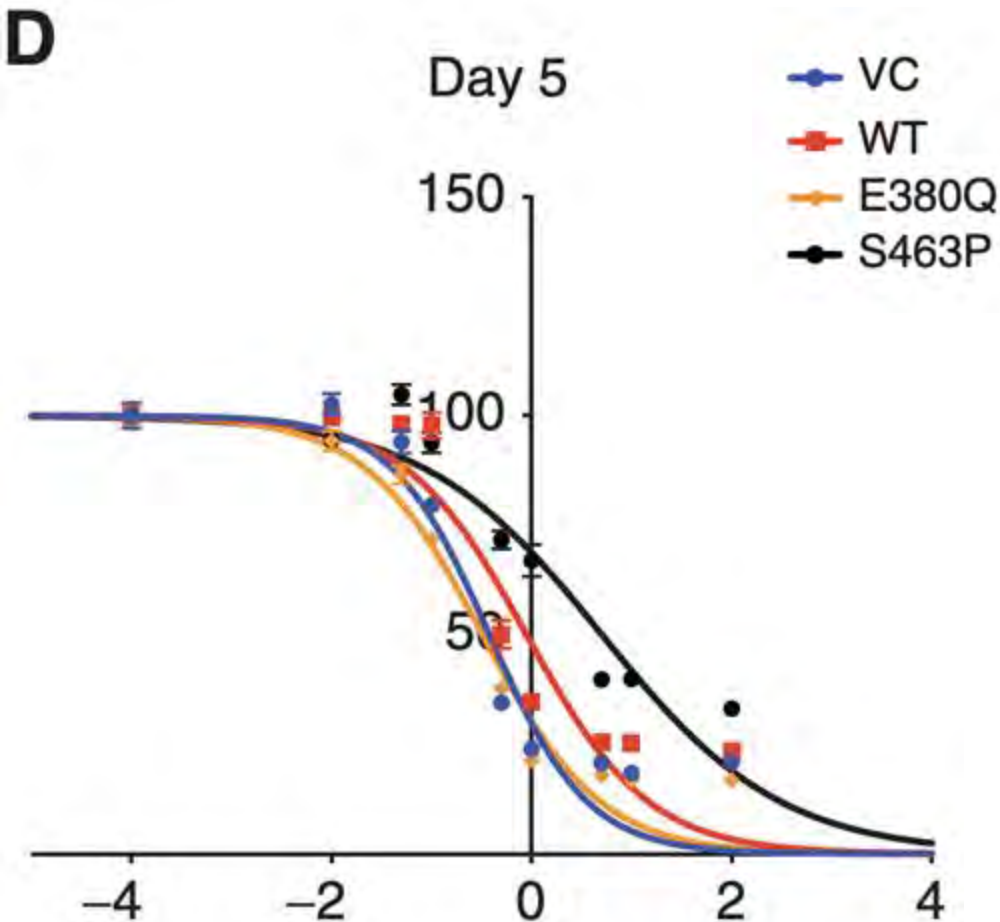
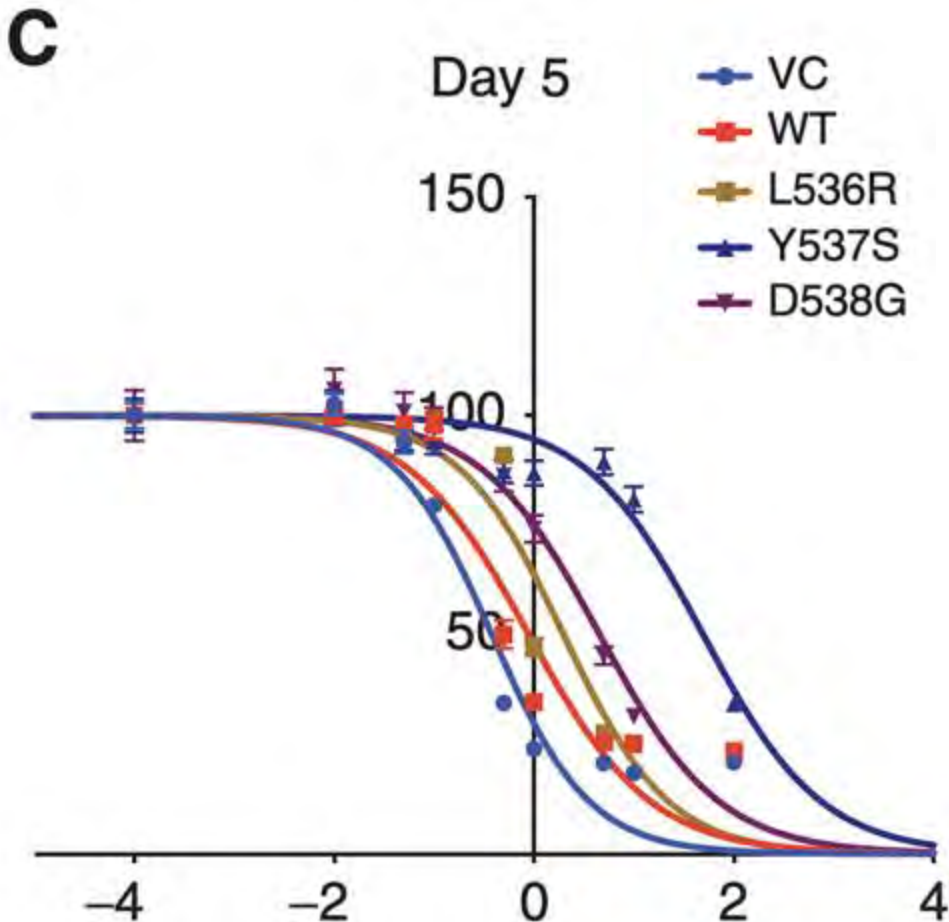
Figure 3. OS in the combined analysis of SoFEA and EFECT by *ESR1* mutation status and treatment. Patients with *ESR1* mutation detected: restricted mean survival analysis $P = 0.04$. Patients without *ESR1* mutation detected: restricted mean survival analysis $P = 0.69$. E, exemestane; F, fulvestrant; mth, month; mutant, *ESR1* mutation detected; wild-type, *ESR1* not detected.

ESR1 Mutations

Trial	Study treatment	Patient population	Patients (n substudy/ total N on trial)	ESR1 mutation frequency
MONALEESA-2^[1]	Letrozole ± Ribociclib	1st line ER+ MBC	494/668	4.0%
BOLERO-2^[2]	Exemestane ± Everolimus	ER+ MBC after PD on ET	541/724	28.8%
FERGI^[3]	Fulvestrant ± Pictilisib	ER+ MBC after PD on ET	153/168	37.3%
PALOMA-3^[4]	Fulvestrant ± Palbociclib	ER+ MBC after PD on ET	360/521	25.3%

1. Hortobagyi GN et al. Ann Oncol. 2018;29:1541-1547. 2. Chandarlapaty S et al. JAMA Oncol. 2016;2:1310-1315. 3. Spoerke JM et al. Nat Commun. 2016;7:11579. 4. Fribbens C et al. J Clin Oncol. 2016;34:2961-2968.

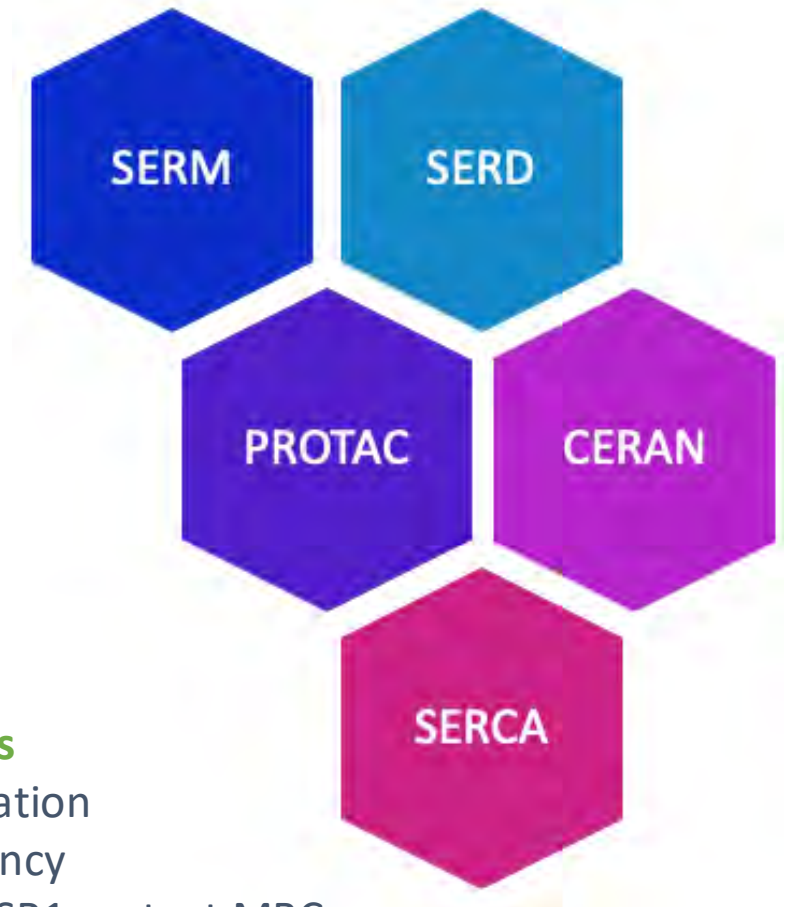
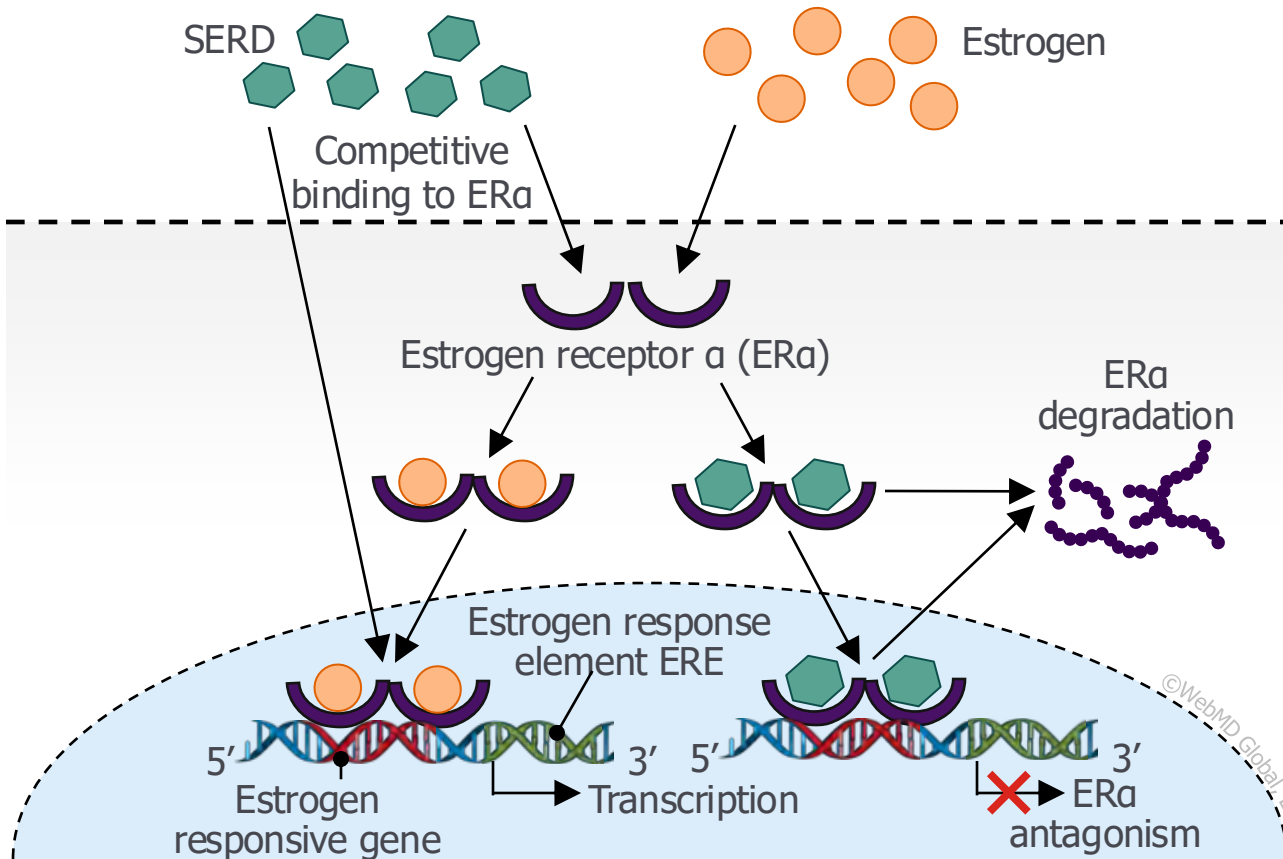
In Vivo Activity of Fulvestrant Against Different ESR1m



Y537S mutants required highest IC_{50} (55-fold higher than WT)

Novel endocrine therapies may address endocrine resistance in MBC

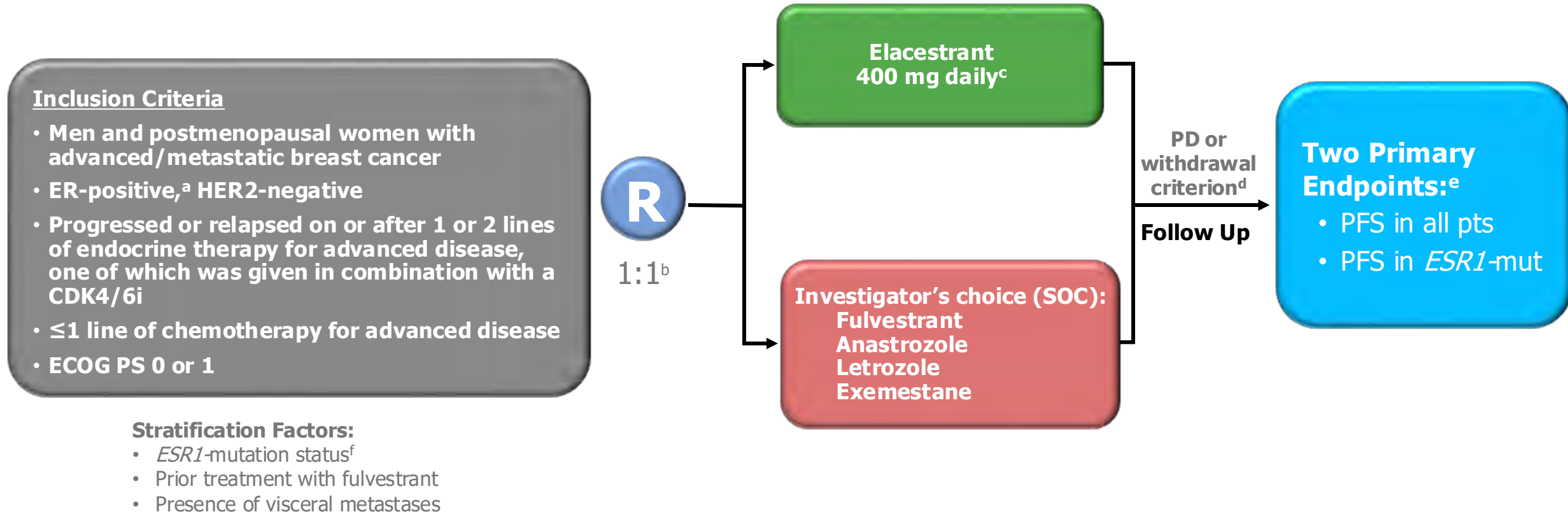
SERD: Mechanism of action



Key advantages

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

EMERALD Phase 3 Study Design

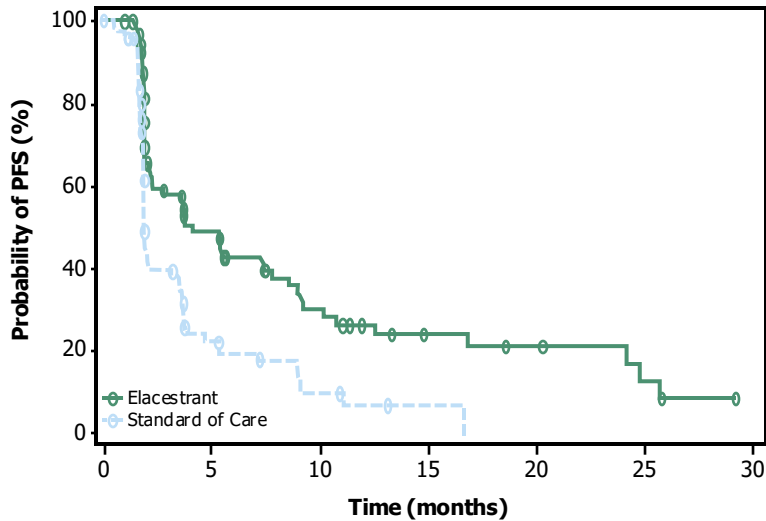


^aDocumentation of ER+ tumor with ≥ 1% staining by immunohistochemistry; ^bRecruitment from February 2019 to October 2020; ^cProtocol-defined dose reductions permitted; ^dRestaging CT scans every 8 weeks; ^eBlinded Independent Central Review; ^f*ESR1*-mutation status was determined by ctDNA analysis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

PFS, progression-free survival; Pts, patients; R, randomized; SOC, standard of care.

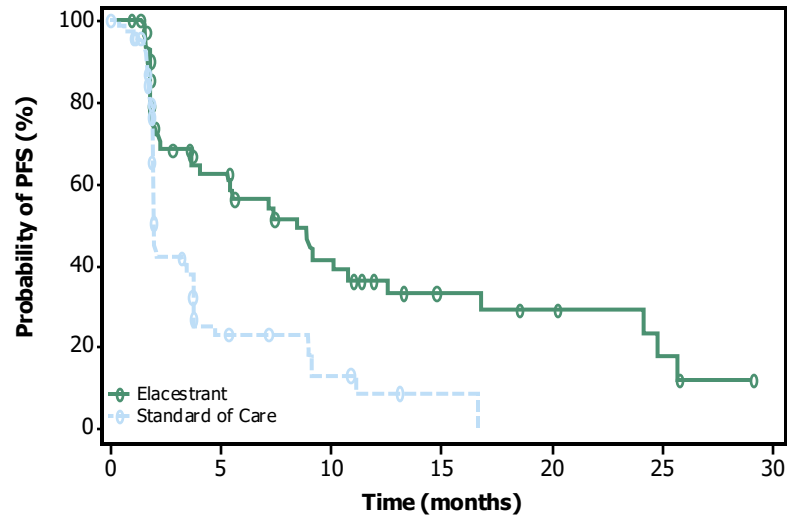
Patients with *ESR1*-mut Tumors: PFS by Duration of CDK4/6i

At least 6 mo CDK4/6i



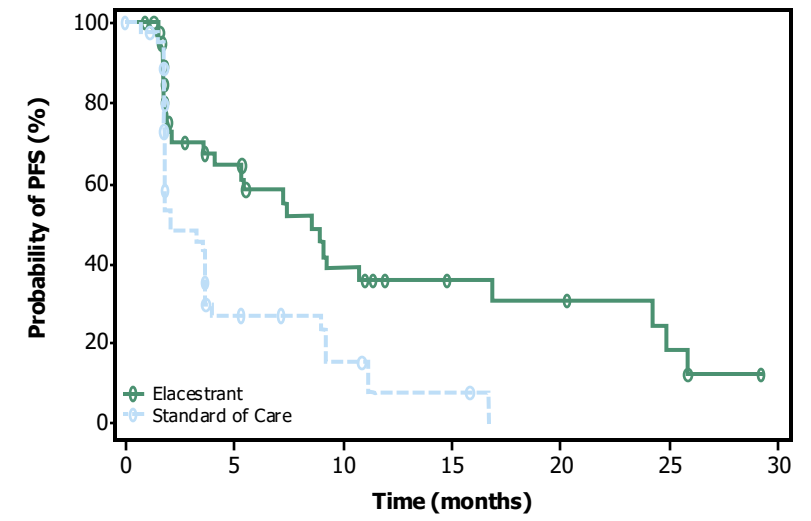
Elacestrant 103 50 33 25 20 16 11 9 8 7 6 5 5 1 1 0
 SOC 102 34 16 11 9 5 2 1 1 0

At least 12 mo CDK4/6i



Elacestrant 78 42 31 24 20 16 11 9 8 7 6 5 5 1 1 0
 SOC 81 26 12 10 9 5 2 1 1 0

At least 18 mo CDK4/6i



Elacestrant 55 30 23 18 16 12 8 8 7 6 6 5 5 1 1 0
 SOC 56 21 9 8 7 4 1 1 1 0

	Elacestrant	SOC Hormonal Therapy
Median PFS, months (95% CI)	4.14 (2.20 - 7.79)	1.87 (1.87 - 3.29)
PFS rate at 12 months, % (95% CI)	26.02 (15.12 - 36.92)	6.45 (0.00 - 13.65)
Hazard ratio (95% CI)	0.517 (0.361 - 0.738)	

	Elacestrant	SOC Hormonal Therapy
Median PFS, months (95% CI)	8.61 (4.14 - 10.84)	1.91 (1.87 - 3.68)
PFS rate at 12 months, % (95% CI)	35.81 (21.84 - 49.78)	8.39 (0.00 - 17.66)
Hazard ratio (95% CI)	0.410 (0.262 - 0.634)	

	Elacestrant	SOC Hormonal Therapy
Median PFS, months (95% CI)	8.61 (5.45 - 16.89)	2.10 (1.87 - 3.75)
PFS rate at 12 months, % (95% CI)	35.79 (19.54 - 52.05)	7.73 (0.00 - 20.20)
Hazard ratio (95% CI)	0.466 (0.270 - 0.791)	

Various oral SERDs are being investigated on the horizon, pionERA is the only study addressing specific endocrine resistance and building on learnings from ESR1 mutation unmet need from previous studies

SERD	giredestrant	elacestrant	camizestrant	imlunestrant	amcnestrant* (discont.)
mBC					
1L PhIII +CDKi	persevERA BC¹ gired vs. let (+palbo) pionERA BC[†] gired vs. fulv (+CDKi) in ET-resistant	--	SERENA-4⁹ cami vs. ana (+palbo) SERENA-6¹⁰ cami vs. AI (+palbo/abema) in emerging <i>ESR1</i> m	--	AMEERA-5¹⁷ amce vs. let (+palbo)
2L PhII-III	aceIERA BC² PhII gired vs. PCE evERA BC³ PhIII gired vs. PCE (+evero)	EMERALD⁶ PhIII ela vs. PCE	SERENA-2¹¹ PhII cami (2 dose arms) vs. fulv	EMBER-3¹⁴ PhIII imlu vs. PCE vs imlu+abema	AMEERA-3¹⁸ amce vs. PCE
eBC					
Neoadj / WoO PhI-II	coopERA BC⁴ PhII gired vs. ana (+palbo)	ELIPSE⁷ PhI ela single-arm	SERENA-3¹² PhII cami (3 dose arms)	EMBER-2¹⁵ PhI imlu (3 dose arms)	AMEERA-4¹⁹ PhII amce vs. let I-SPY EOP²⁰ PhII amce+/-abema
Adjuvant PhIII	lidERA BC⁵ gired vs. PCE, upfront	TREAT⁸ ela vs. PCE, switch in rising ctDNA	CAMBRIA-1¹³ cami vs PCE, switch	EMBER-4¹⁶ imlu vs. PCE, switch	AMEERA-6²¹ amce vs. tam, switch

* Discontinued clinical development of amcnestrant.

† Planned for 2023.

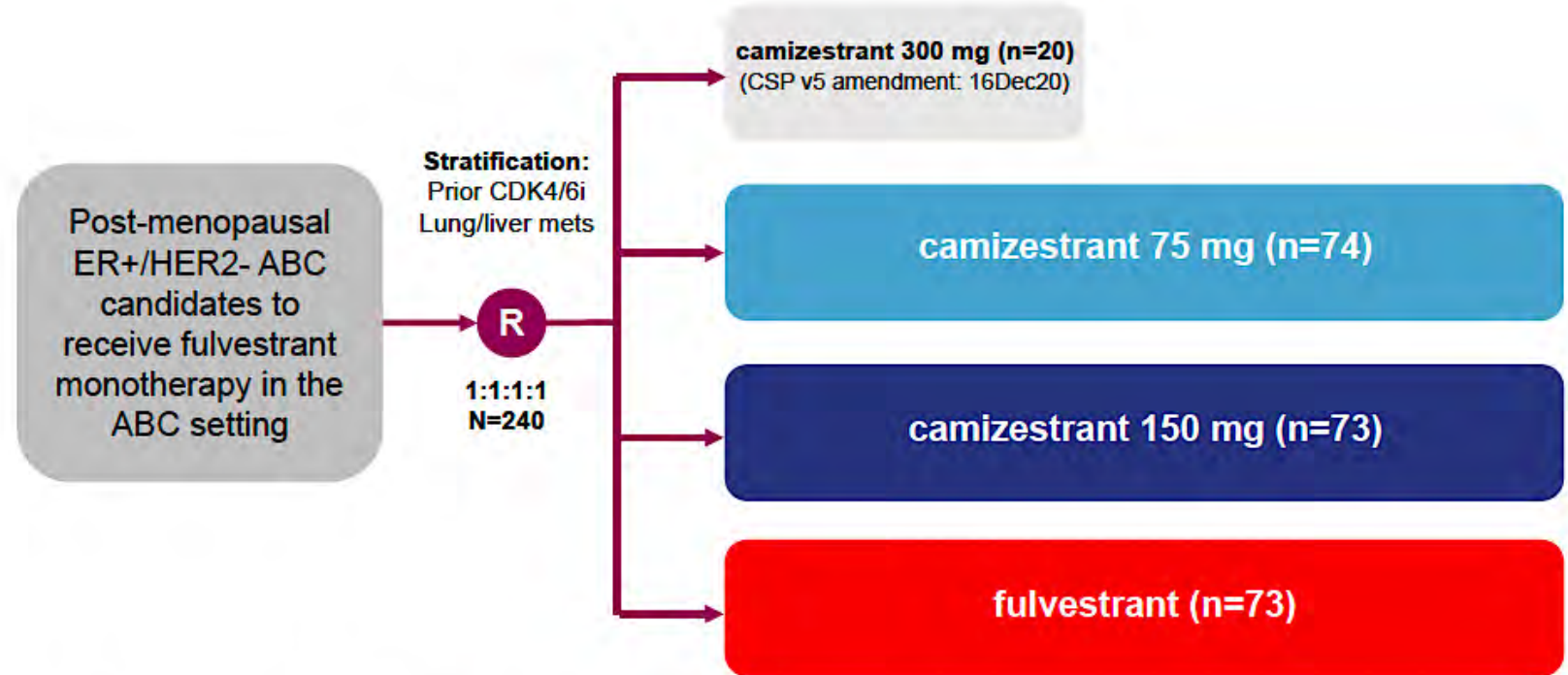
AI, aromatase inhibitor; amce, amcnestrant; ana, anastrozole; cami, camizestrant; CDKi, cyclin-dependent kinase inhibitor; ela, elacestrant; fulv, fulvestrant; gired, giredestrant; imlu, imlunestrant; let, letrozole; PCE: physician's choice endocrine therapy; tam, tamoxifen; WoO, window of opportunity. References in slide notes.

Questions?

SERENA-2 Phase II Study Design

Key inclusion/exclusion criteria:

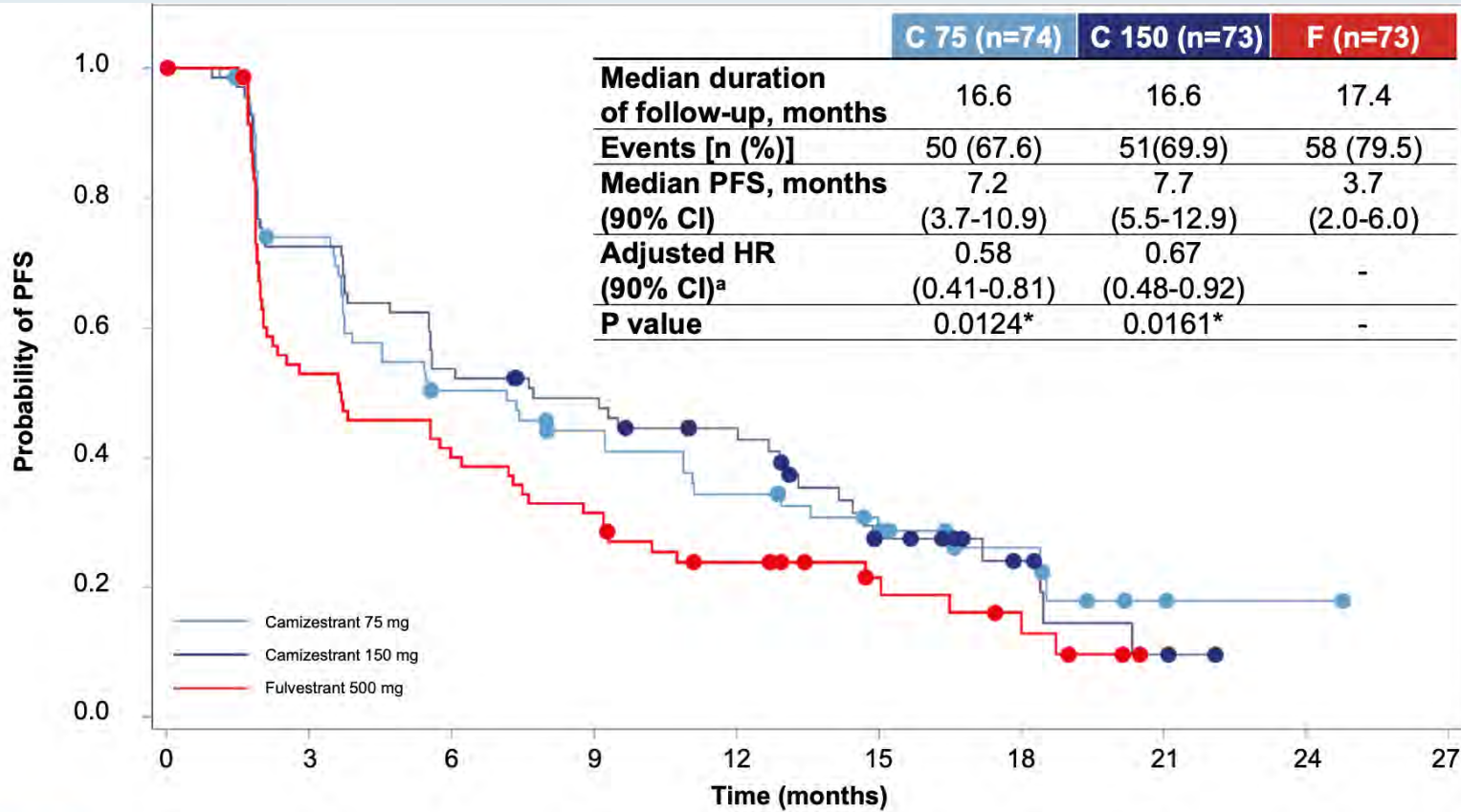
- Recurrence or progression on at least one line of ET
- No prior fulvestrant or oral SERD in ABC
- No more than one line of ET in ABC setting
- No more than one line CT in ABC setting
- Measurable and non-measurable disease



- **Primary endpoint:** PFS (investigator assessment*)
- **Secondary endpoints:** CBR24, ORR, OS, safety
- **Translational endpoints:** serial ctDNA analysis including *ESR1m*, serial CTCs analysis

ET = endocrine therapy; ABC = advanced breast cancer; CT = chemotherapy; PFS = progression-free survival; CBR24 = clinical benefit rate at 24 weeks; ORR = objective response rate; OS = overall survival; ctDNA = circulating tumor DNA; CTCs = circulating tumor cells

Phase II SERENA-2 Trial: PFS by Investigator Assessment (Primary Endpoint)

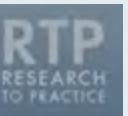


In the overall population, camizestrant produces a statistically significant and clinically meaningful improvement in PFS for both 75 and 150 mg camizestrant doses over fulvestrant

	C 75	C 150	F	0	3	6	9	12	15	18	21	24	27
C 75	74	50	33	27	21	14	7	2	1	0			
C 150	73	50	37	32	25	12	6	2	0				
F	73	37	28	22	14	8	5	0					

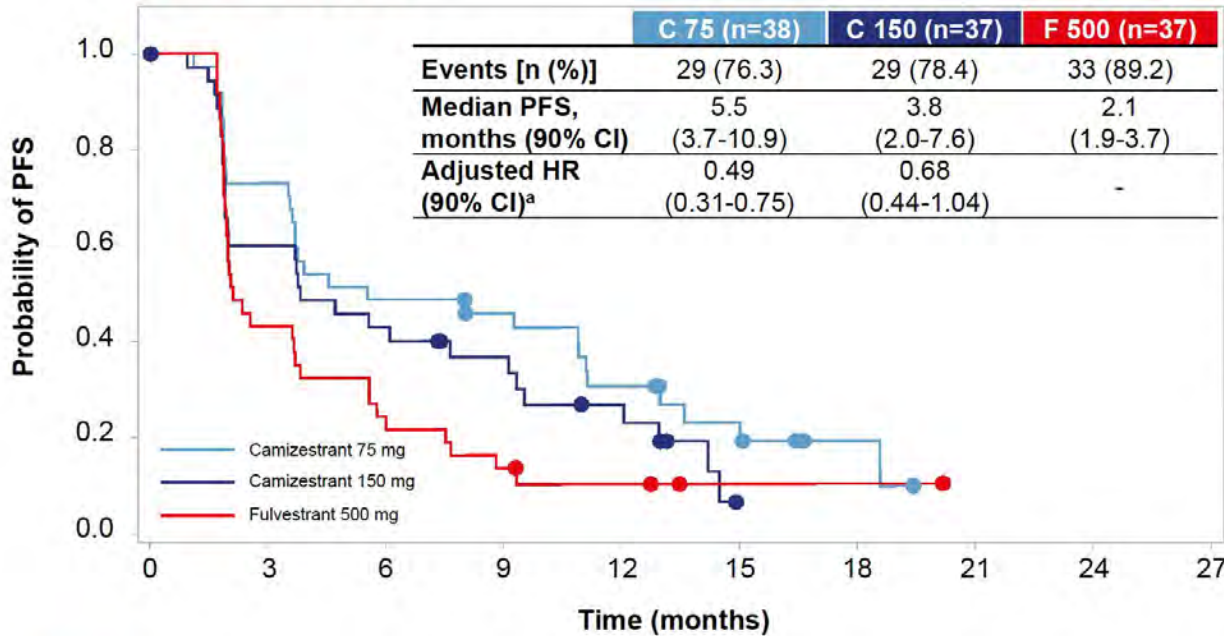
*Statistically significant; ^aHRs adjusted for prior use of CDK4/6i and liver/lung metastases

CDK4/6i: CDK4/6 inhibitor; CI: confidence interval; HR: hazard ratio; PFS: progression-free survival



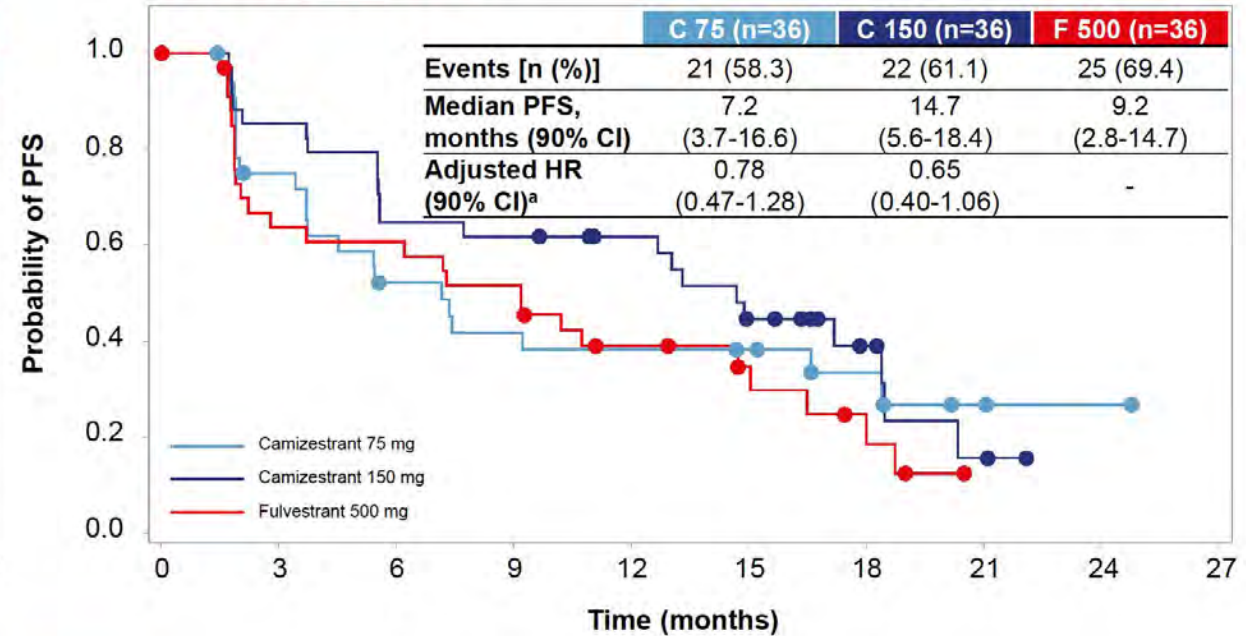
Phase II SERENA-2 Trial: PFS by Prior CDK4/6 Inhibitor (CDK4/6i)

Prior CDK4/6i



	C 75	C 150	F
38	27	18	15
10	5	2	0
2	0	1	0

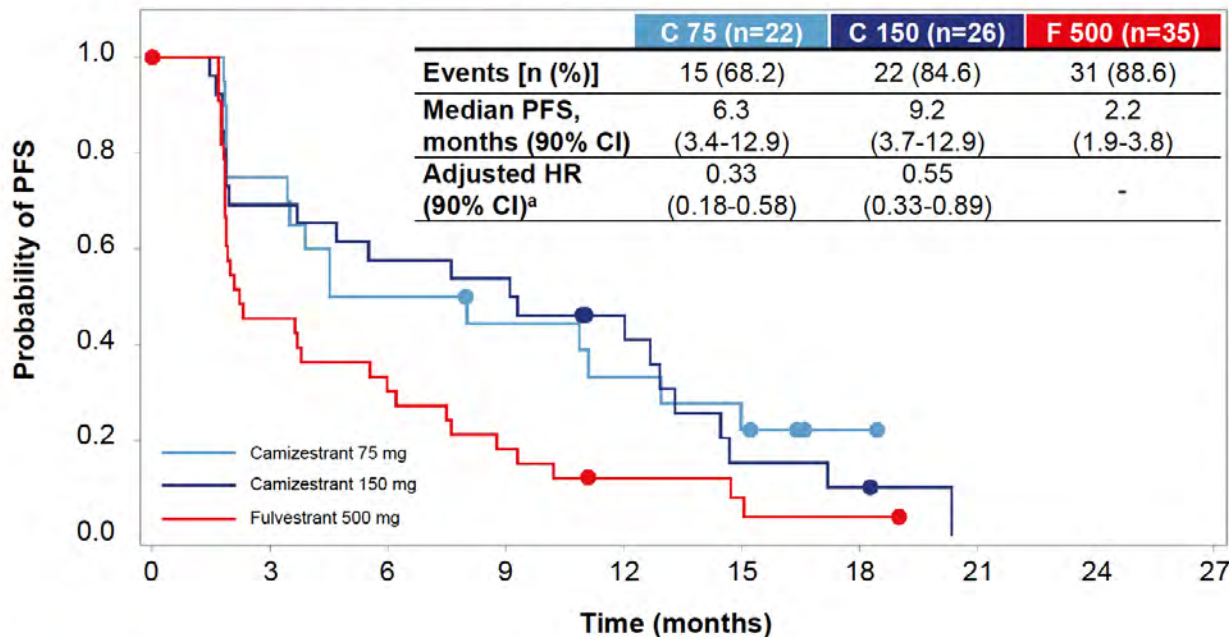
No prior CDK4/6i



	C 75	C 150	F
36	23	15	12
11	9	5	2
2	1	0	0

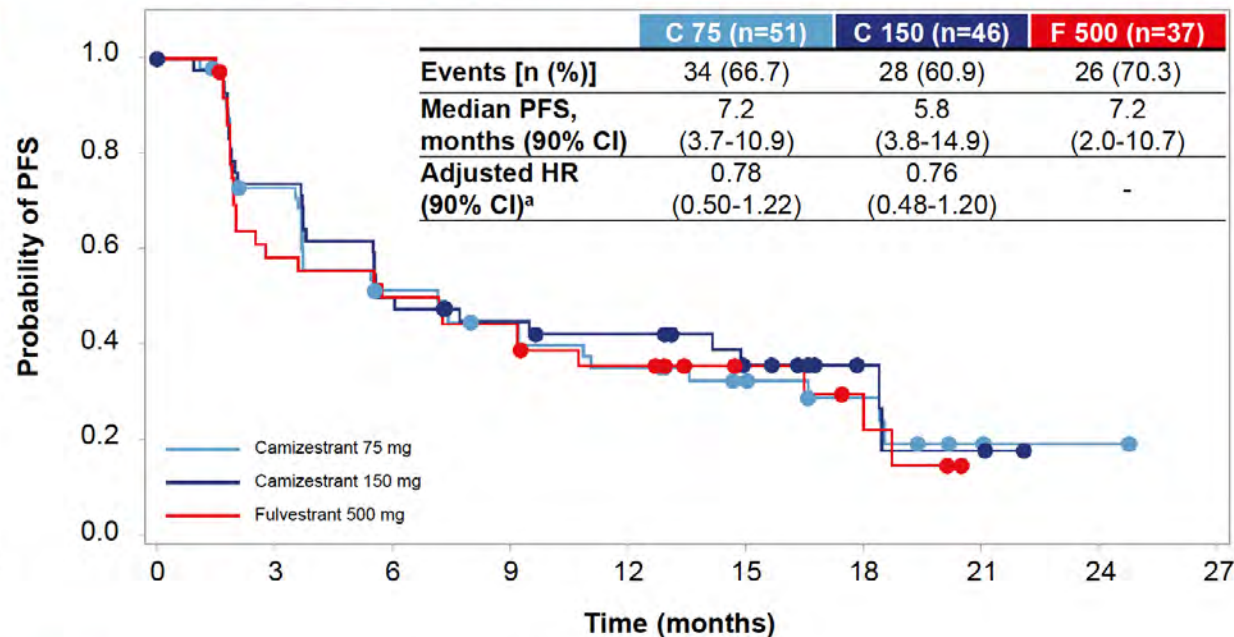
Phase II SERENA-2 Trial: PFS by Detectable ESR1

ESR1m detectable at baseline



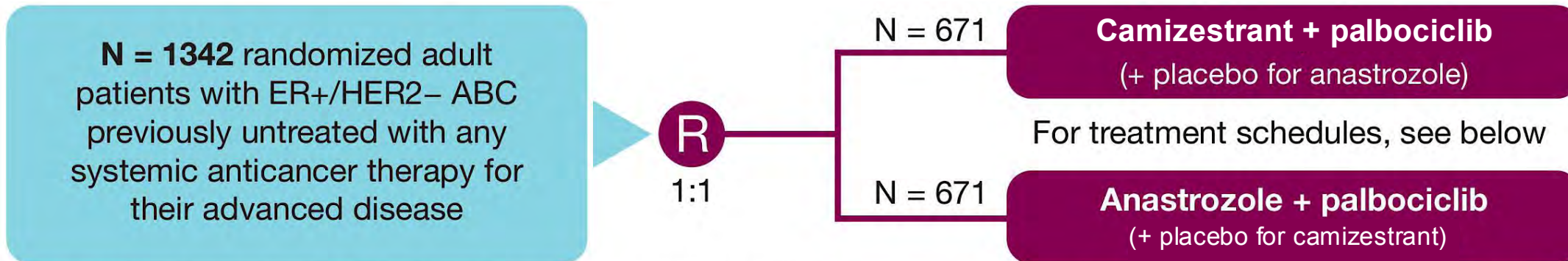
C 75	22	15	10	8	6	4	1	0
C 150	26	18	15	14	9	3	2	0
F	35	15	10	6	3	2	1	0

ESR1m not detectable at baseline



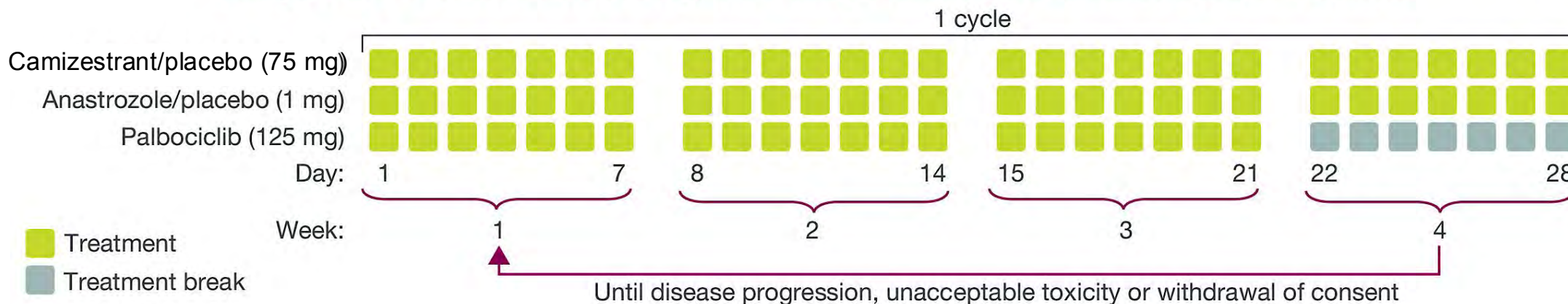
C 75	51	34	23	19	15	10	6	2	1	0
C 150	46	31	21	17	15	9	4	2	0	0
F	37	21	18	16	11	6	4	1	0	0

SERENA-4 Phase III Study Design



Pre-/peri-menopausal women or male participants must receive a concurrent monthly luteinizing hormone-releasing hormone agonist (goserelin or leuprorelin), as medically applicable. ABC, advanced breast cancer; ER, estrogen receptor; HER2, human epidermal growth factor receptor 2; R, randomization.

Drugs will be administered orally, once daily following the schedule detailed below



Rapid Recommendation Update

Recommendation

- Routine testing for emergence of *ESR1* mutations at recurrence or progression on ET (with or without CDK4/6 inhibitor) in pts with ER-positive, HER2-negative MBC.

Testing with a CLIA-certified assay should be performed on blood or tissue obtained at the time of progression. Blood-based ctDNA is preferred owing to greater sensitivity.

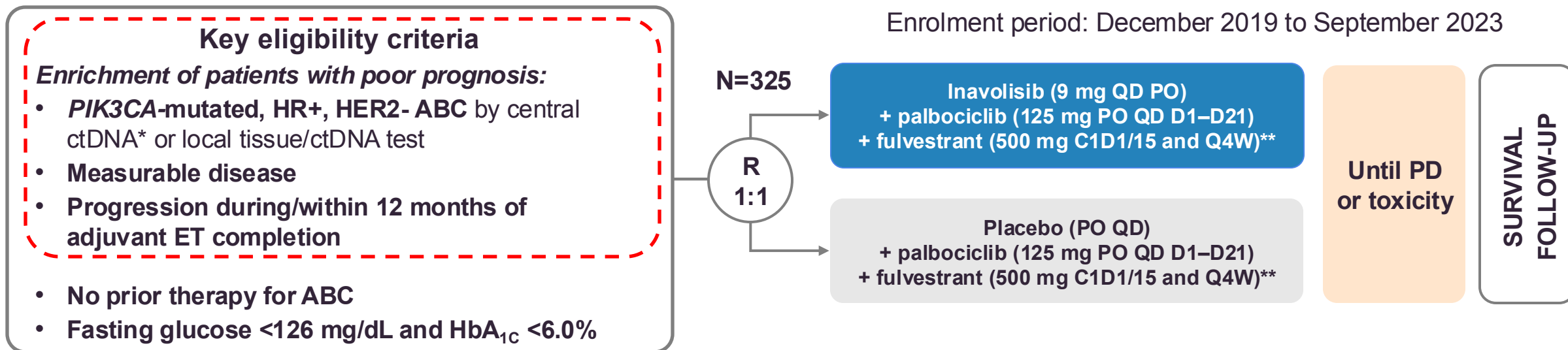
Pts whose tumor or ctDNA tests remain *ESR1* wildtype may warrant retesting at subsequent progression(s) to determine if an *ESR1* mutation has arisen.

Evidence-based
benefits outweigh harms

Evidence Quality
High

Strength of Recommendation
Strong

INAVO120 study design



Stratification factors:

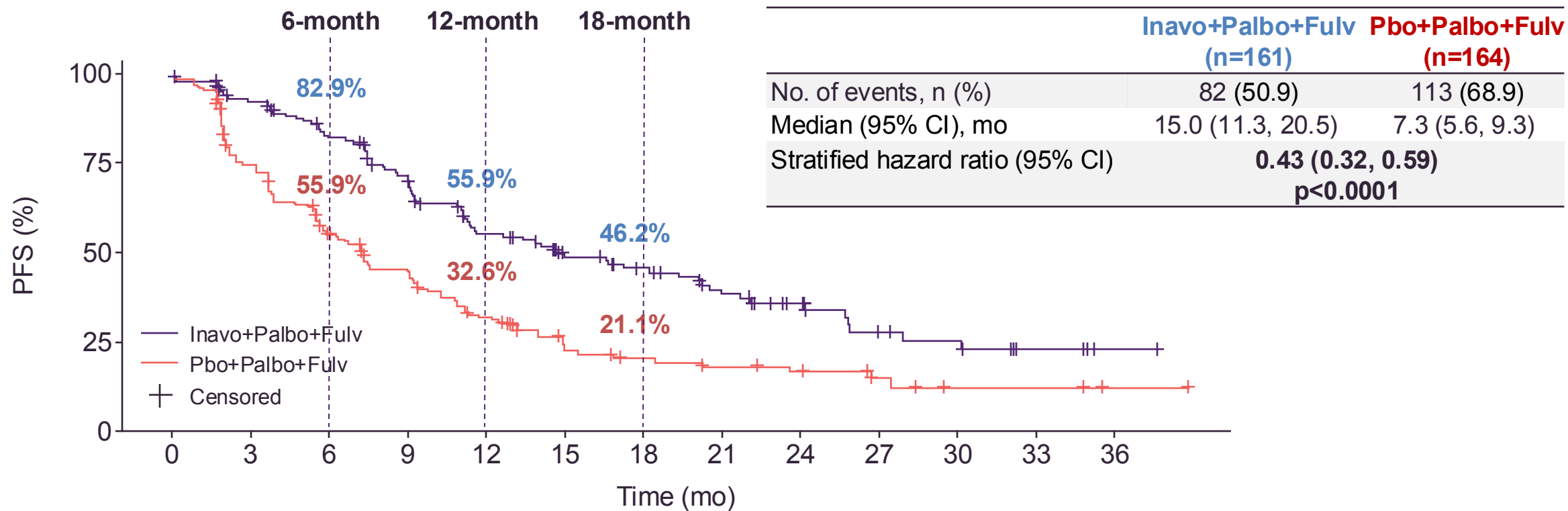
- Visceral Disease (Yes vs. No)
- Endocrine Resistance (Primary vs. Secondary)[†]
- Region (North America/Western Europe; Asia; Other)

Endpoints

- Primary: PFS by Investigator
- Secondary: OS[‡], ORR, BOR, CBR, DOR, PROs

* Central testing for *PIK3CA* mutations was done on ctDNA using FoundationOne®Liquid (Foundation Medicine). In China, the central ctDNA test was the PredicineCARE NGS assay (Huidu). [†] Defined per 4th European School of Oncology (ESO)–European Society for Medical Oncology (ESMO) International Consensus Guidelines for Advanced Breast Cancer.¹ Primary: relapse while on the first 2 years of adjuvant ET; Secondary: relapse while on adjuvant ET after at least 2 years or relapse within 12 months of completing adjuvant ET. [‡] OS testing only if PFS is positive; interim OS analysis at primary PFS analysis; ** Pre-menopausal women received ovarian suppression. ctDNA, circulating tumor DNA; R, randomized. 1. Cardoso F, *et al. Ann Oncol* 2018;**29**:1634–1657.

Primary endpoint: PFS (investigator-assessed)



Patients at risk:

	0	3	6	9	12	15	18	21	24	27	30	33	36
Inavo+Palbo+Fulv	161	134	111	92	66	48	41	31	22	13	11	5	1
Pbo+Palbo+Fulv	164	113	77	59	40	23	19	16	12	6	3	3	1

Median follow-up:
21.3 months

CCOD: 29th September 2023
 CI, confidence interval; Fulv, fulvestrant; Inavo, inavolisib; mo, months; Palbo, palbociclib; Pbo, placebo; PFS, progression-free survival.

Novel endocrine therapy, including oral SERDs, will continue to have important role in HR+ mBC

Case 1: Second-Line Treatment of HR-Positive/HER2-Negative *ESR1*-Mutated Metastatic Breast Cancer



Dr Kalinsky – Case Presentation

- Patient is a 42-yo **premenopausal** healthy female who is diagnosed with a right breast invasive ductal carcinoma, grade 2, ER+ 95% PR+ 80% HER2 1+
- No prior breast imaging until it was T3N2
- Staging and lung biopsy confirmed **bone and lung metastases**
- Her performance status is excellent
- She has **moderate back pain** from metastases
- Hereditary Genetic Testing: no pathogenic variants

Dr Kalinsky – Case Presentation (Continued)

- Patient undergoes TAH/BSO
- She receives ribociclib plus AI
- After 34 mo of therapy, the patient has progressive disease
- She undergoes ctDNA testing: biomarker testing reveals a pathogenic *ESR1* Y537S mutation

What therapy would you recommend next?

1. Alpelisib + fulvestrant
2. Chemotherapy
3. Capivasertib + fulvestrant
4. Elacestrant
5. Switch CDK4/6 inhibitor + AI combination
6. Trastuzumab Deruxtecan
7. Sacituzumab Govitecan

Dr Kalinsky – Case Presentation (Continued)

- Pt started single agent elacestrant and is tolerating

Agenda

Introduction: Confronting Metastatic Breast Cancer (mBC)

**Module 1: Mechanisms of Resistance to Endocrine Therapy in HR-Positive mBC;
Use of Oral Selective Estrogen Receptor Degraders (SERDs) — Dr Kalinsky**

**Module 2: Ongoing Evaluation of Early Therapeutic Switching for HR-Positive
mBC Harboring ESR1 Mutations — Prof Bidard**

Module 3: Other Key Datasets and Ongoing Trials in HR-Positive Breast Cancer

Early Therapeutic Switching in Patients Found to Harbor *ESR1* Mutations

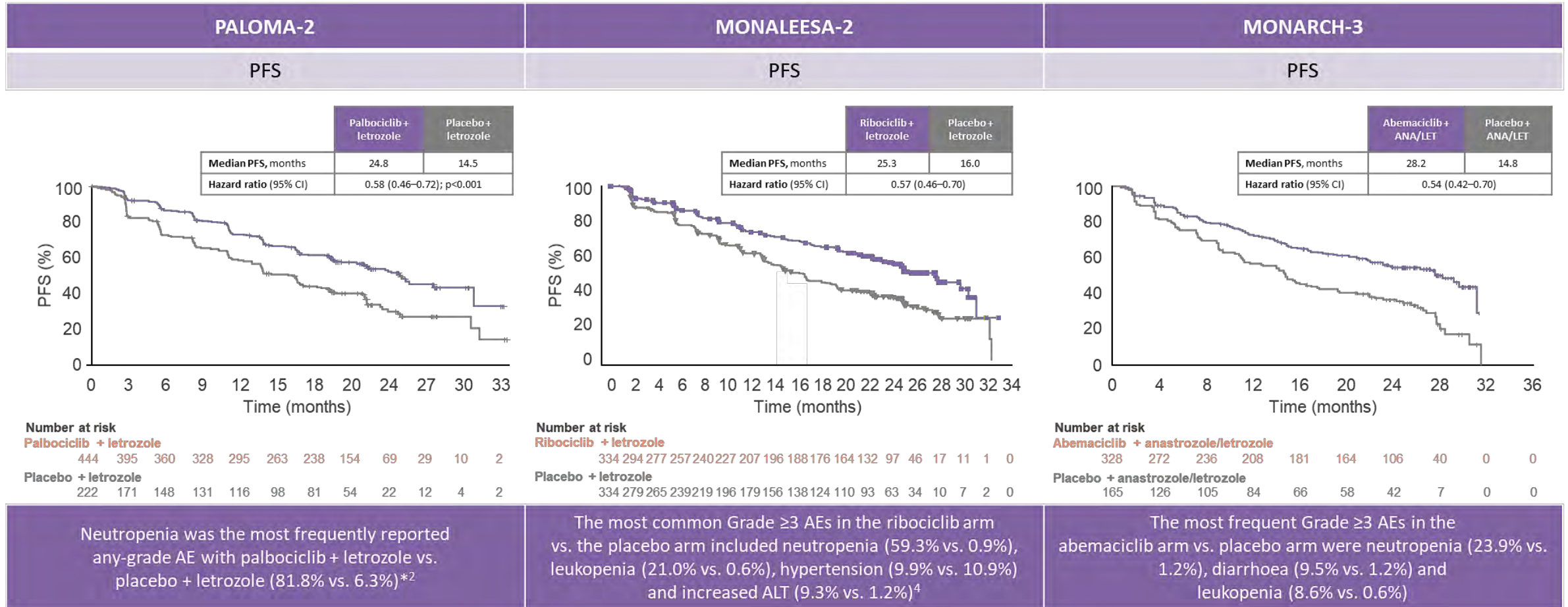
Francois-Clement Bidard

Curie Institute & Versailles University, France

Extending the first line

In ER+ HER2- endocrine sensitive mBC, AI+CDK4/6i is the current standard of care in L1

Longest PFS ever observed in mBC (~ 24 months mPFS)



with an overall **very good tolerability**

Extending the first line

In ER+ HER2- endocrine sensitive mBC, AI+CDK4/6i is the current standard of care in L1

Longest PFS ever observed in mBC (~ 24 months mPFS)

but

Acquired resistance eventually appears in all patients → disease progression

Extending the first line

In ER+ HER2- endocrine sensitive mBC, AI+CDK4/6i is the current standard of care in L1
Longest PFS ever observed in mBC (~ 24 months mPFS)

but

Acquired resistance eventually appears in all patients → disease progression

PFS of subsequent lines of therapy shortened by the prior use of CDK4/6i

e.g. : fulvestrant + alpelisib in 2nd line

CDK4/6i-naïve mBC: 11months mPFS (SOLAR-1^(a))

CDK4/6i-pretreated mBC: 50.4% progression-free at 6 months, (BYLIEVE^(b))

Extending the first line

In ER+ HER2- endocrine sensitive mBC, AI+CDK4/6i is the current standard of care in L1
Longest PFS ever observed in mBC (~ 24 months mPFS)

but

Acquired resistance eventually appears in all patients → disease progression

PFS of subsequent lines of therapy shortened by the prior use of CDK4/6i

Limited efficacy of the 2nd line after progression on CDK4/6i

	mPFS		
elacestrant	3.8 months	<i>ESR1_{mut}</i> mBC	100% CDK4/6i (+/- chemo) pre-treated, EMERALD trial ^(a)
fulvestrant + abemaciclib	6 months	All comers	100% CDK4/6i pre-treated, postMONARCH trial ^(b)
fulvestrant + capivasertib	7.3 months	<i>PIK3CA/AKT/PTEN_{mut}</i> mBC	73% CDK4/6i pre-treated, CAPItello-291 trial ^(c)

Extending the first line

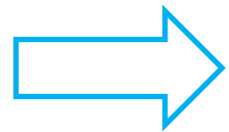
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Extending the time on 1st line CDK4/6i is critical

Understanding acquired resistance mechanisms
to CDK4/6i + AI

Extending the first line

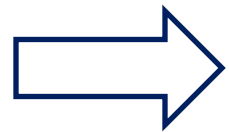
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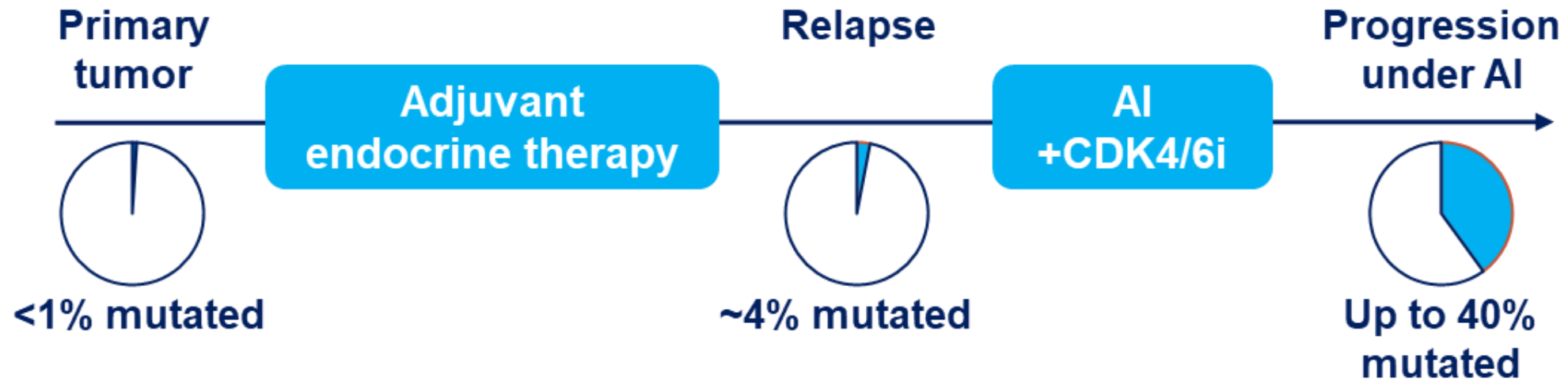


Extending the time on 1st line CDK4/6i is critical

Understanding acquired resistance mechanisms to CDK4/6i + AI

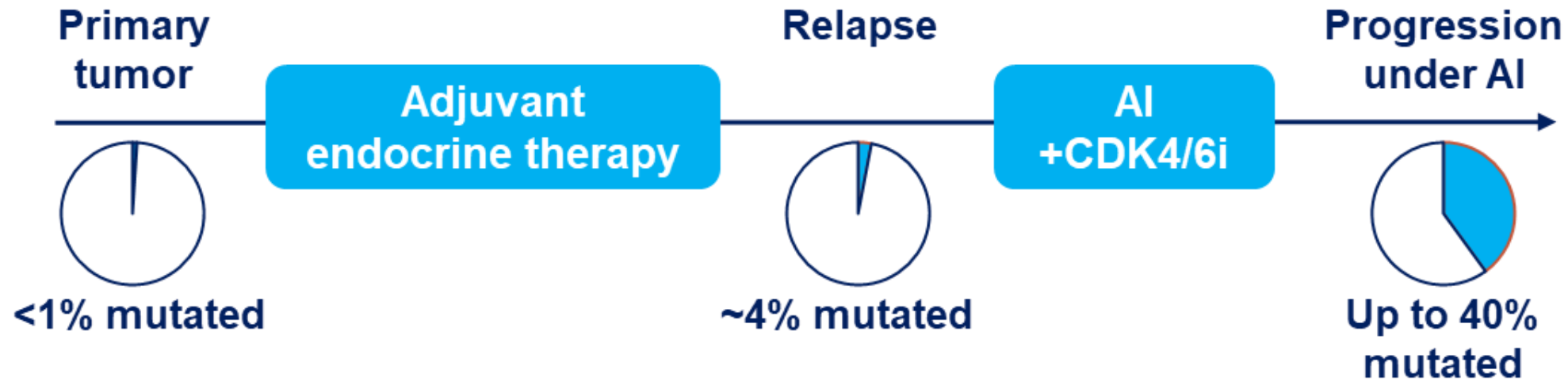
CDK4/6i → known resistance mechanisms are rare and not (yet) targetable

ESR1 mutations: a major opportunity... not to be missed !



*ESR1*_{mut} become detectable during AI + CDK4/6i
mutant clones rising in ctDNA
Tumor cells may still be sensitive to CDK4/6i

ESR1 mutations: a major opportunity... not to be missed !



ESR1_{mut} become detectable during AI + CDK4/6i

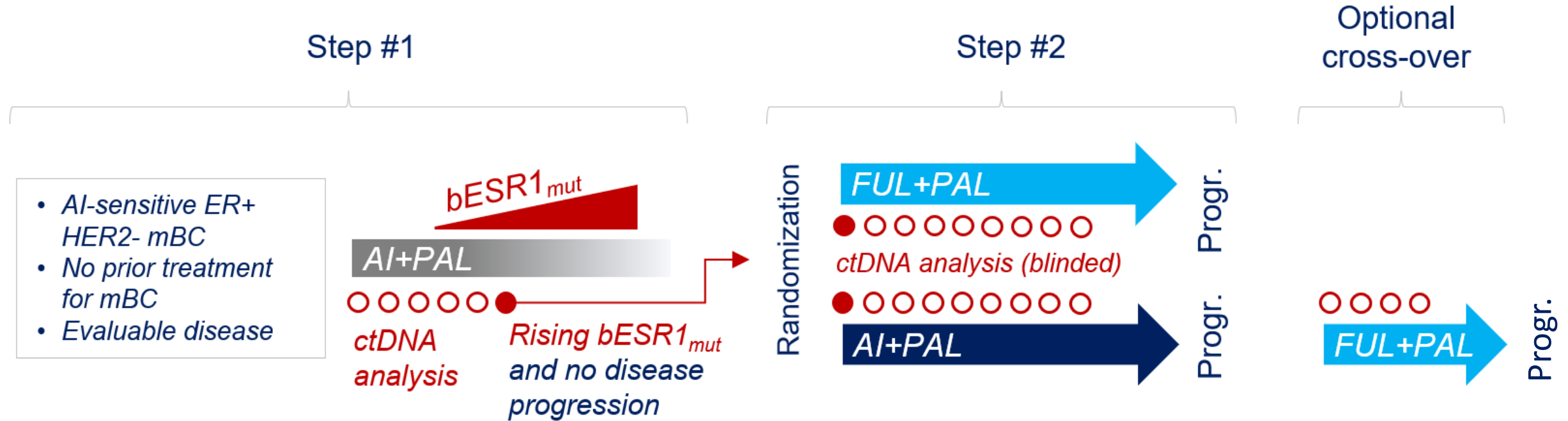
Mutant estrogen receptors are degradable by **fulvestrant** (SoFEA & EFECT trials^(a))

However, fulvestrant has **no relevant efficacy after disease progression:**

plasmaMATCH^(b) **2.2 months** mPFS in *ESR1_{mut}* mBC

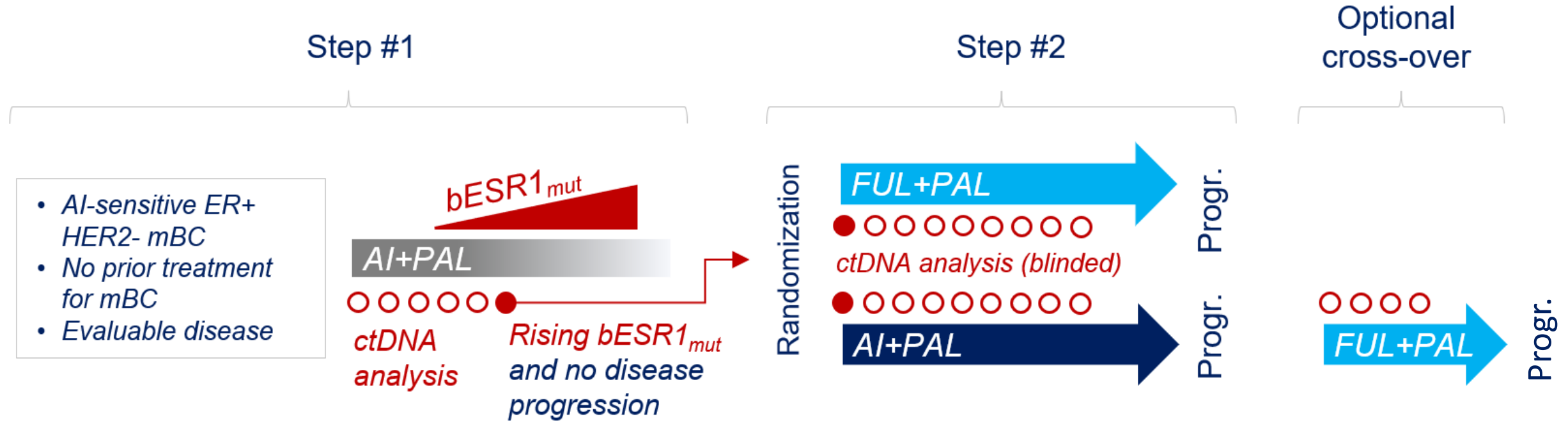
EMERALD^(c) **1.9 month** mPFS in *ESR1_{mut}* mBC

PADA-1, the academic proof-of-concept trial



PADA-1
THE RISE OF ESR1

PADA-1, the academic proof-of-concept trial



Delaying disease progression on CDK4/6i ?

Optimal use of SERD as a targeted therapy against $ESR1_{mut}$?

Feasibility / acceptance ?

Updated PFS results – primary endpoint

N= 1,017 pts enrolled in step #1

N= 283 pts with a rising *bESR1_{mut}*

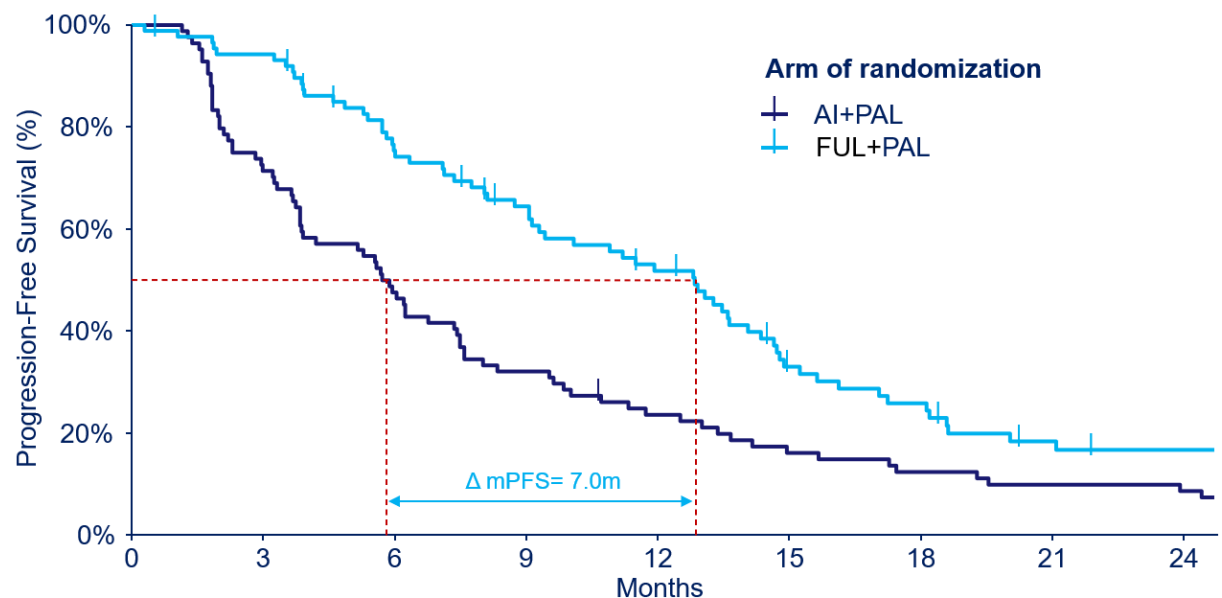
while the study was ongoing

N= 172 pts randomized

- N= 88 pts allocated to FUL+PAL
- N= 84 pts allocated to AI+PAL

Data cut-off: June 21, 2022 Median FU from randomization: 28.2 months; N= 152 PFS events (89% maturity)

Progression-Free Survival, from randomization



N at risk	88 (0)	63 (4)	40 (8)	18 (11)	9 (14)
(censored)	84 (0)	40 (0)	19 (1)	10 (1)	7 (1)

FUL+PAL mPFS: 12.8 months, 95%CI [9.3;14.7]

AI+PAL mPFS: 5.8 months, 95%CI [3.9;7.5]

PFS HR= 0.54 [0.38;0.75]

Optional cross-over (N=49 patients)
mPFS: 3.5 months, 95%CI [2.4;5.4]

PFS2 results – secondary endpoint

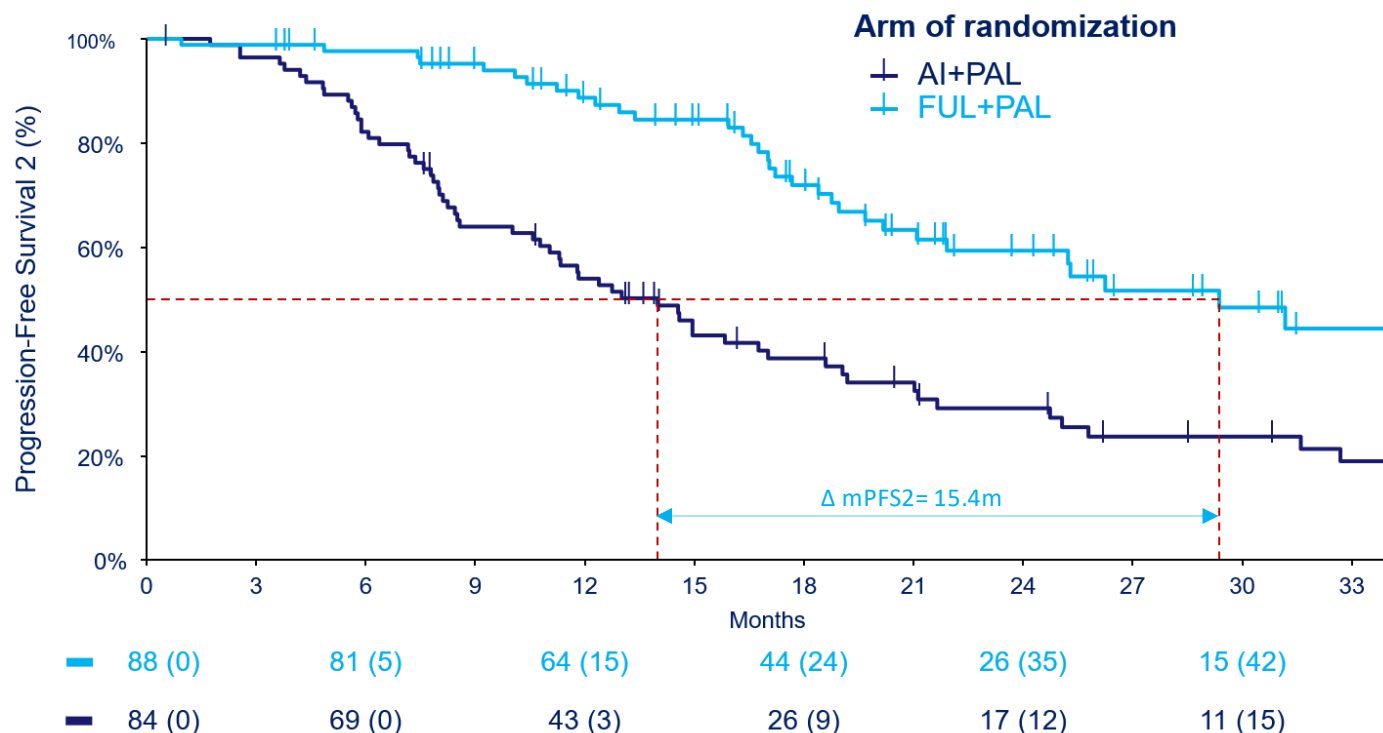
Data cut-off: June 21, 2022 N= 93 PFS2 events (54% maturity)

Progression-Free Survival 2, from randomization

FUL+PAL mPFS2: 29.4 months, 95%CI [21.9;NR]

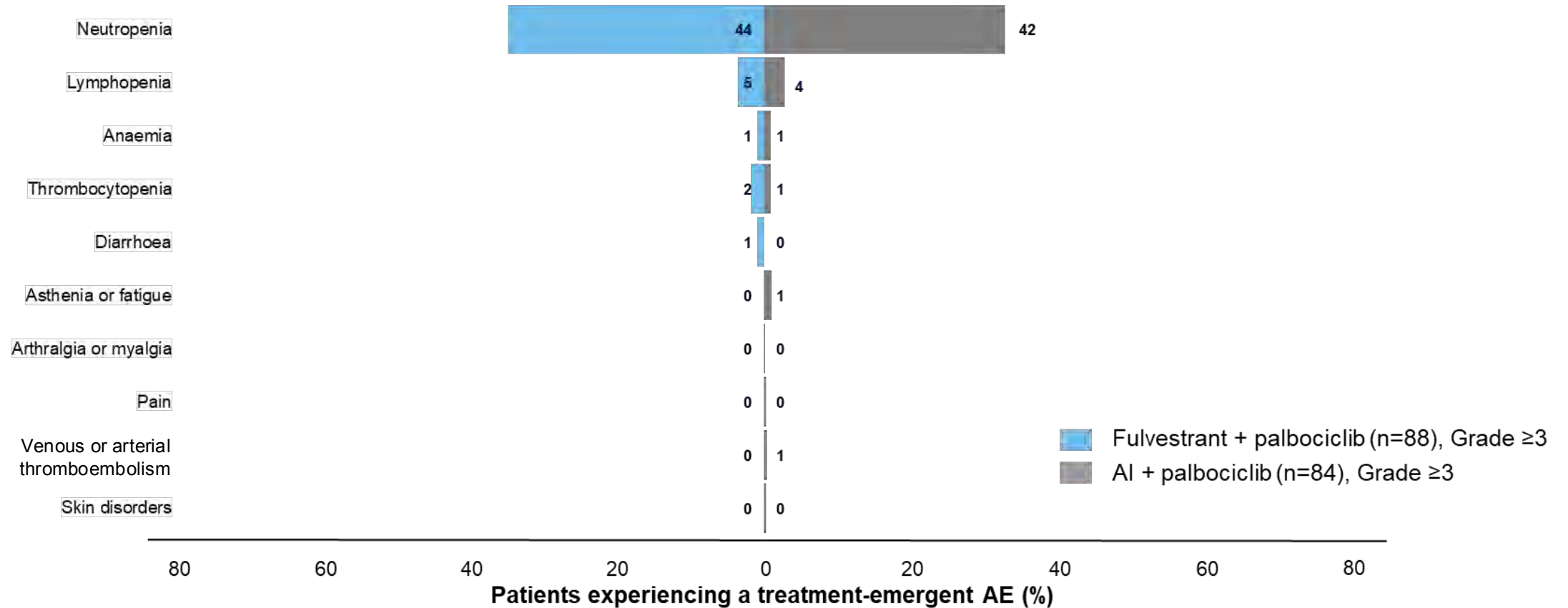
AI+PAL mPFS2: 14.0 months, 95%CI [11.0;18.6]

PFS2 HR= 0.37 [0.24;0.56]



PFS2: time from randomization to 2nd progression or death in both arms

PADA-1 Safety– most frequent grade 3-4 AEs in step #2



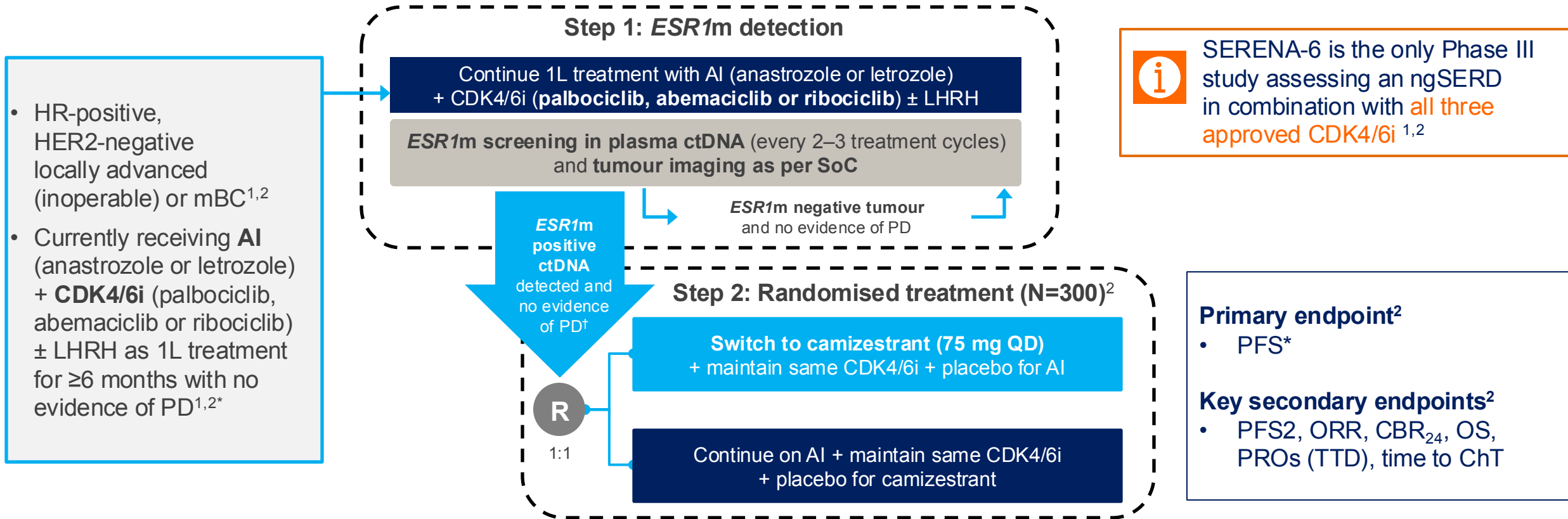
Grade 3 and 4 AEs of interest are reported in the slide, only Grade ≥3 events are reported unless it was a serious AE.

AE=adverse event; AI=aromatase inhibitor.

Bidard FC, et al. *Lancet Oncol.* 2022;23:1367–1377.

Questions?

SERENA-6: the global trial with camizestrant (oral ngSERD)

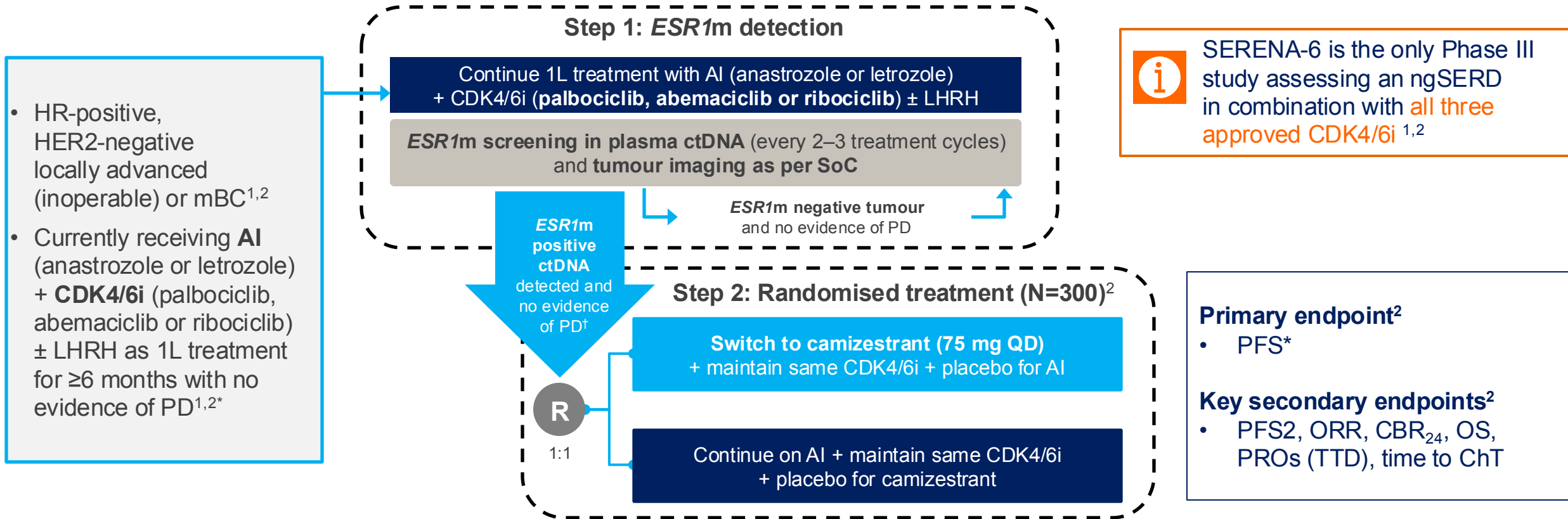


*By investigator assessment; †Inclusion criteria for Step 2 include evaluable disease as per RECIST v1.1.2

1L=first-line; AI=aromatase inhibitor; CBR₂₄=clinical benefit rate at 24 weeks; CDK4/6i=cyclin-dependent kinase 4/6 inhibitor; ChT=chemotherapy; CI=confidence interval; ctDNA=circulating tumour DNA; *ESR1m*=oestrogen receptor alpha mutation; ET=endocrine therapy; HER2=human epidermal growth factor receptor 2; HR=hormone receptor; LHRH=luteinising hormone-releasing hormone; mBC=metastatic breast cancer; ngSERD=next-generation selective oestrogen receptor degrader; ORR=objective response rate; OS=overall survival; PD=disease progression; PFS=progression-free survival; PRO=patient reported outcome; QD=once daily; R=randomisation; RECIST=response evaluation criteria in solid tumors; SoC=standard of care; TTD=time to deterioration.

1. NIH. SERENA-6. Available at: <https://www.clinicaltrials.gov/study/NCT04964934> (Accessed September 2024); 2. Bidard F-C, et al. Presented at SABCS Annual Meeting 2021, December 7–10. San Antonio, Tx. Abstract #OT2-11-05.

SERENA-6: the global trial with camizestrant (oral ngSERD)



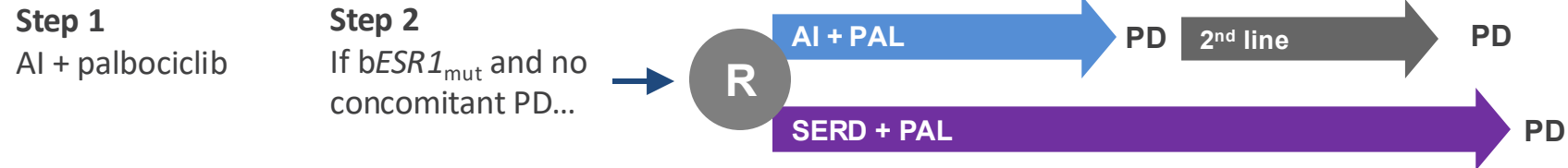
Enrollment completed in 07/2024, read-out expected in 2025

*By investigator assessment; †Inclusion criteria for Step 2 include evaluable disease as per RECIST v1.1.²

1L=first-line; AI=aromatase inhibitor; CBR₂₄=clinical benefit rate at 24 weeks; CDK4/6i=cyclin-dependent kinase 4/6 inhibitor; ChT=chemotherapy; CI=confidence interval; ctDNA=circulating tumour DNA; *ESR1m*=oestrogen receptor alpha mutation; ET=endocrine therapy; HER2=human epidermal growth factor receptor 2; HR=hormone receptor; LHRH=luteinising hormone-releasing hormone; mBC=metastatic breast cancer; ngSERD=next-generation selective oestrogen receptor degrader; ORR=objective response rate; OS=overall survival; PD=disease progression; PFS=progression-free survival; PRO=patient reported outcome; QD=once daily; R=randomisation; RECIST=response evaluation criteria in solid tumors; SoC=standard of care; TTD=time to deterioration.

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Potential benefits of intercepting $ESR1_{mut}$



Maximizing SERD efficacy: 6 mo absolute mPFS gain in PADA-1
vs ~2 mo mPFS if used after PD [7,8]

Targeting resistant subclones when they are still a minority ?

Results of a trial in $EGFR_{mut}$ NSCLC also support the concept of early targeting [9]

Extending the length of CDK4/6i exposure

Prof Bidard – Case Presentation

69 y.o. woman, retired seamstress

Family history: her sister had a breast cancer at age 50

Personal history: obesity (BMI=34), diabetes & hypertension

Diagnosed with de novo stage IV breast cancer, cT2N1 with many asymptomatic bone lesions, PS=0

Breast biopsy: ER+ 90%, PR+ 20%, HER2- (1+)

1st line treatment with letrozole and ribociclib has been initiated

Three months later, patient comes back to her planned consultation

- Treatment is very well tolerated
- CT scan shows stable bone lesions.
- Clinical exam shows a clinical response of the breast mass and axillary lymph nodes.

Prof Bidard – Case Presentation (Continued)

You also received the results of

- Somatic NGS testing (breast tumor tissue): *PIK3CA*_{mut}. No *ESR1*_{mut} detected.
- Germline NGS testing (blood): no germline alteration.

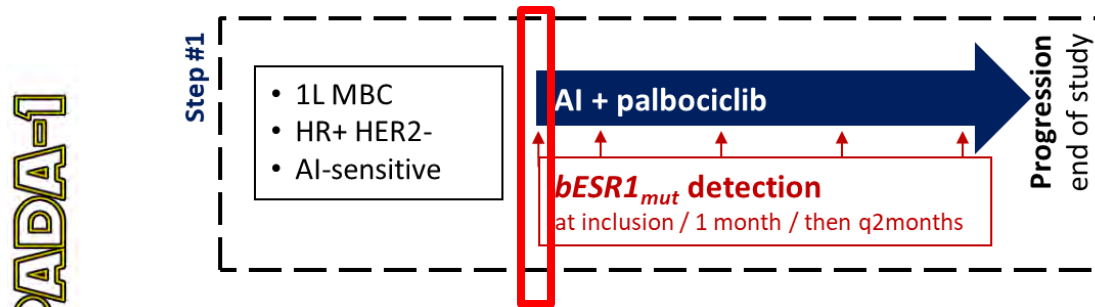
Questions

- **Did you expect to find an *ESR1*_{mut} in the tumor tissue ?**
- The likelihood to develop an *ESR1*_{mut} during AI+CDK4/6i is ~40%
but **how do patients with either somatic *PIK3CA*_{mut} or with *gBRCA2*_{mut} behave in that regard ?**

Prof Bidard – Case Presentation (Continued)

- Did you expect to find an *ESR1_{mut}* in the tumor tissue ?

No -- *ESR1_{mut}* mostly appear **after** exposure to aromatase inhibitor, given for mBC



Prior to AI+PAL, N= 33 /1,017 pts (3.2%) were *ESR1_{mut}* positive [4]

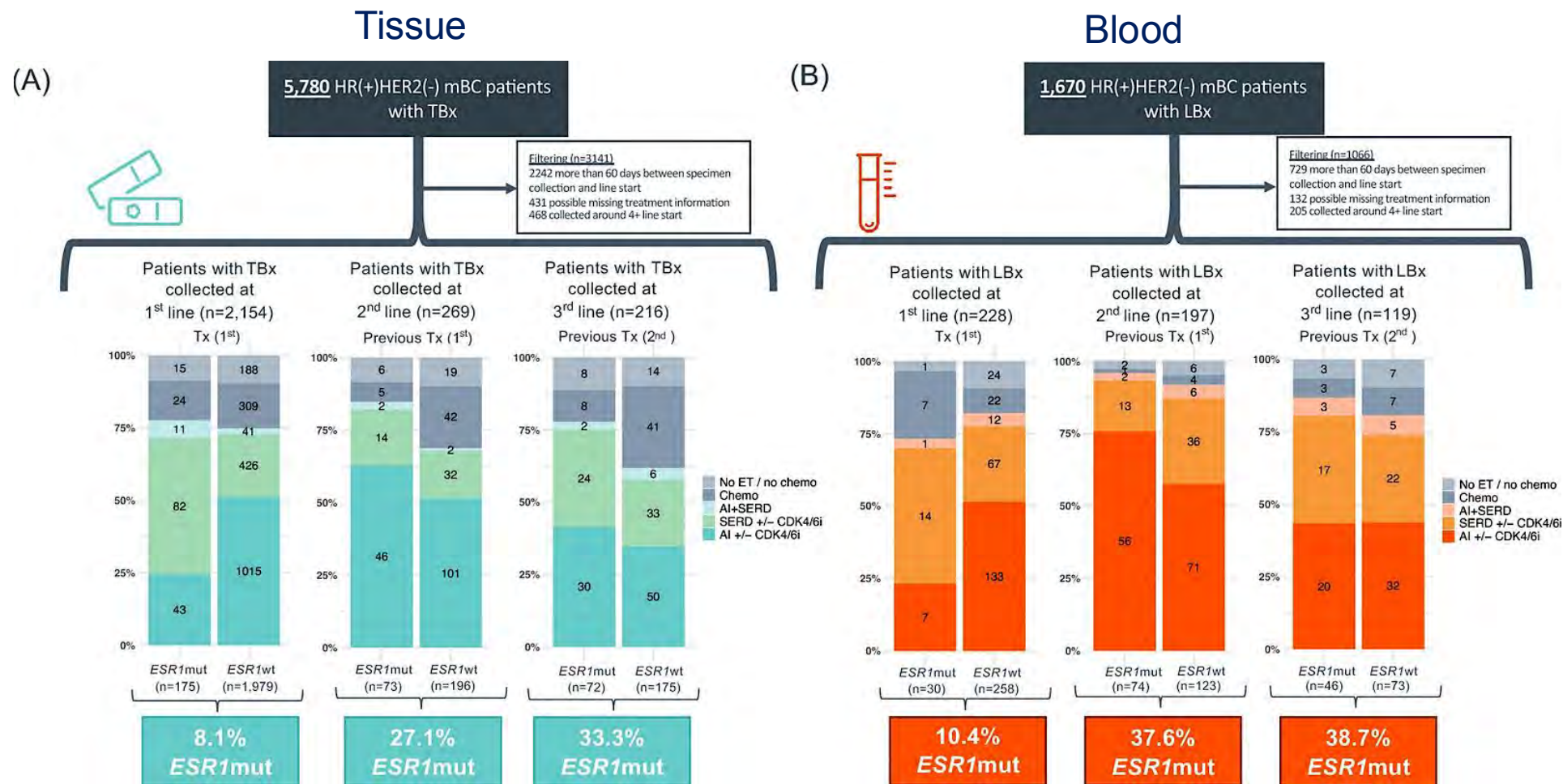
Factors associated with higher prevalence at mBC diagnosis

Bone mets:	detection rate:	4.0%; OR=3.4
Menopause:		4.1%; OR=5.4
Prior exposure to AI:		7.1%; OR=3.0

[4] Bidard et al, ASCO 2020, abstract 1010

Prof Bidard – Case Presentation (Continued)

Prevalence of *ESR1*_{mut} in samples analyzed by CDx 2011-2023

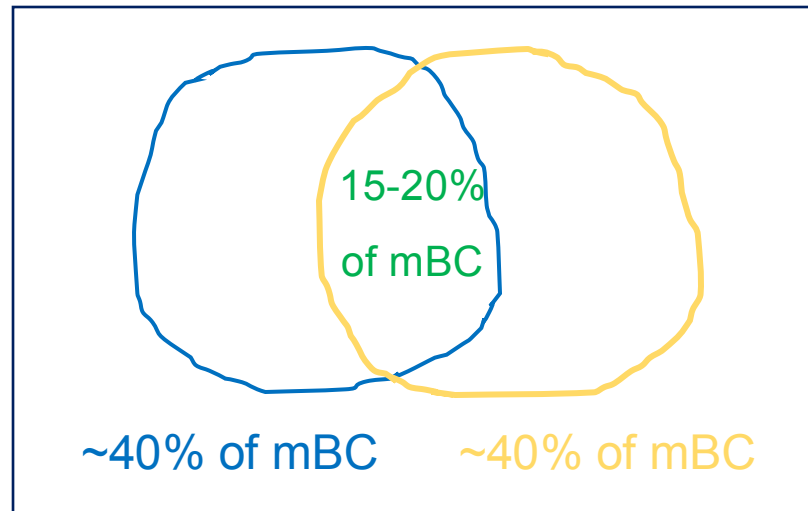


Prof Bidard – Case Presentation (Continued)

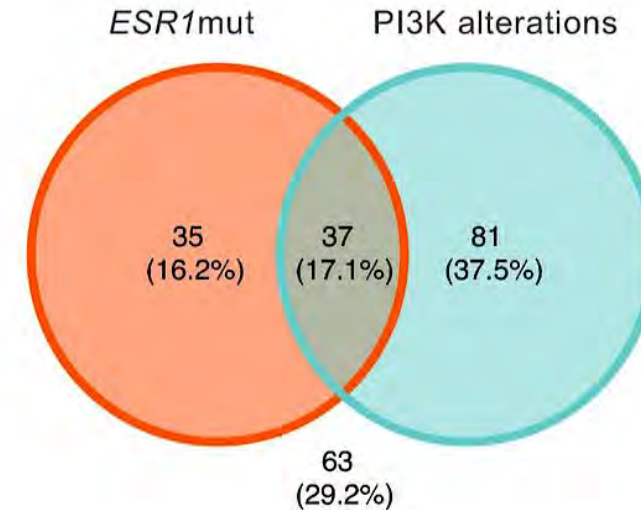
- Does the presence of $PIK3CA_{mut}$ or $gBRCA2_{mut}$ influence the appearance of $ESR1_{mut}$?

No $PIK3CA_{mut}$ are detected in ~40% of BC

$ESR1_{mut}$ incidence is independent of $PIK3CA_{mut}$ status



(C) $ESR1_{mut}$ and PI3K/AKT pathway alterations co-occurrence in 3rdline (n=216)



Prof Bidard – Case Presentation (Continued)

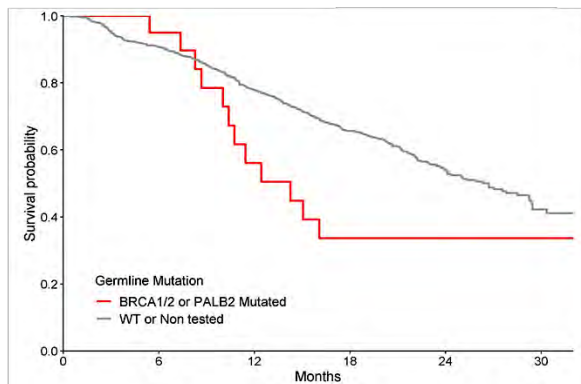
- Does the presence of $PIK3CA_{mut}$ or $gBRCA2_{mut}$ influence the appearance of $ESR1_{mut}$?

No

$gBRCA2_{mut}$

- shortened PFS on AI+CDK4/6, due to a frequent co-loss of BRCA2 and RB1 in tumors (a)
- PADA-1: no impact on the onset of $ESR1_{mut}$ (b)

Median PFS according to $gBRCA1/2/PALB2$ status

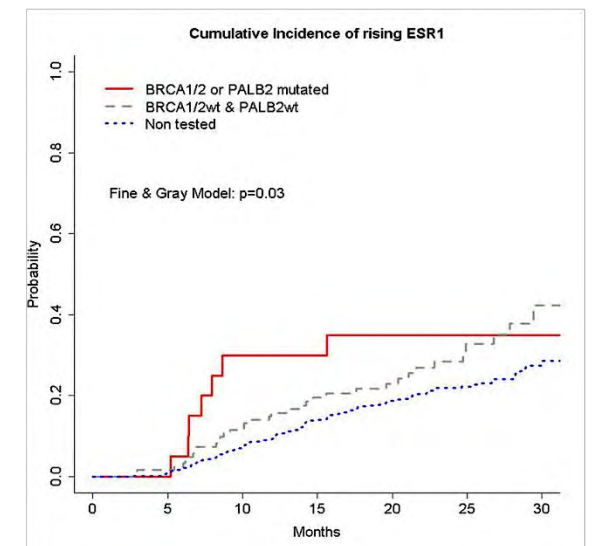


Incidence of rising $ESR1$ mutation

$gBRCA1/2/PALB2$ mutated: n=7/20 (35%)
(Median follow-up: 22.2m IC95% [16.3 ; NR])

$gBRCA1/2/PALB2$ non mutated: n=35/125 (28%)
(Median follow-up: 20.6m IC95% [19.4 ; 22.3])

$gBRCA1/2/PALB2$ non tested: n=176/872 (20%)
(Median follow-up: 21.2m IC95% [20.7; 21.6])



Prof Bidard – Case Presentation (Continued)

You are telling the patient about the risk of *ESR1_{mut}* appearing during therapy.

What are the main talking points ?

She understands the benefits and is willing to begin non-invasive monitoring by serial ctDNA analyses.

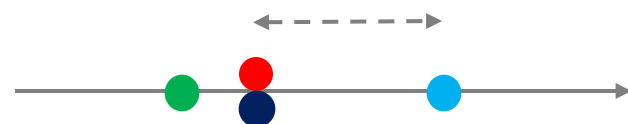
... but **when do you test, and at which frequency ?**

Prof Bidard – Case Presentation (Continued)

Main talking points (suggestion)

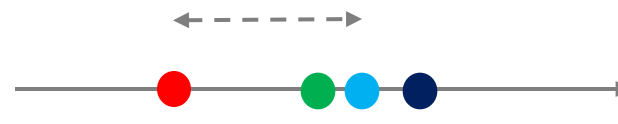
- Her mBC is very likely to develop a resistance to either therapy of the combination she is receiving
- If the disease progresses, subsequent treatment lines may be more toxic and with limited efficacy
- Part of her routine monitoring of the tumor response to therapy, serial blood draw can detect some form of tumor resistance in ~40% of patients.
- It is possible to switch to the endocrine therapy if a resistance to the first endocrine therapy is detected, while continuing CDK4/6 inhibition, thus delaying the time of tumor progression

+ discuss the timing of blood analyses... when their results will be known (and if the patient should expect a call)



Imaging

Consultation



Blood draw

ctDNA results known

Prof Bidard – Case Presentation (Continued)

When do you test ? At which frequency ? (suggestions)

- **Not before 6 months on AI+CDK4/6i**

few *ESR1_{mut}* detected before 6 months

mBC resistance within the first 6 months = endocrine-refractory; an ET switch unlikely to have any impact

Prof Bidard – Case Presentation (Continued)

When do you test ? At which frequency ? (suggestions)

- **Not before 6 months on AI+CDK4/6i**

few *ESR1_{mut}* detected before 6 months

mBC resistance within the first 6 months = endocrine-refractory; an ET switch unlikely to have any impact

- **At anytime thereafter**

ESR1_{mut} screening can be initiated in any patient under AI+CDK4/6i, as long the disease has not yet progressed

Note that the first ctDNA analysis has a higher probability to be positive than the following (pts should be warned)

Prof Bidard – Case Presentation (Continued)

When do you test ? At which frequency ? (suggestions)

- **Not before 6 months on AI+CDK4/6i**

few *ESR1_{mut}* detected before 6 months

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- **At anytime thereafter**

ESR1_{mut} screening can be initiated in any patient under AI+CDK4/6i, as long the disease has not yet progressed

Note that the first ctDNA analysis has a higher probability to be positive than the following (pts should be warned)

- **Frequency ?**

every 2 months in PADA-1 ^(b)

every 3 months in SERENA-6 ^(c)

Other, non-evidence based: longer interval ?

tumor growth not reaching RECIST PD criteria ? Or other early sign of resistance ?

Prof Bidard – Case Presentation: Same Patient, 2 Years Later

After 2 years on letrozole+ribociclib, ctDNA analysis reports an *ESR1*_{mut}.

The ctDNA report shows the *ESR1*_{mut} has been detected at a very low allelic fraction (0.5%), while *PIK3CA*_{mut} was found at 1.3%.

What is/are the best thing(s) to do ?

- Wait until the next blood draw to confirm *ESR1*_{mut} positivity
- Request a tumor evaluation
- Discuss with patient an immediate switch from letrozole+ribociclib to SERD+ribociclib

Prof Bidard – Case Presentation: Same Patient, 2 Years Later (Continued)

After 2 years on letrozole+ribociclib, ctDNA analysis reports an *ESR1*_{mut}.

The ctDNA report shows the *ESR1*_{mut} has been detected at a very low allelic fraction (0.5%), while *PIK3CA*_{mut} was found at 1.3%.

What is/are the best thing(s) to do ?

~~—Wait until the next blood draw~~

No need of a confirmation...

- False positive results are exceptional with current ctDNA analyses
- Subclonality is frequent for *ESR1*_{mut}

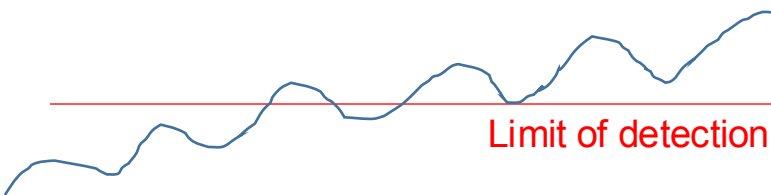
Prof Bidard – Case Presentation: Same Patient, 2 Years Later (Continued)

After 2 years on letrozole+ribociclib, ctDNA analysis reports an $ESR1_{mut}$.

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What is/are the best thing(s) to do ?

~~— Wait until the next blood draw~~



No need of a confirmation...

- False positive results are exceptional with current ctDNA analyses
- Subclonality is frequent for $ESR1_{mut}$

Rising $ESR1_{mut}$ detection made at the limit of detection (~0.1-0.5%)

- Low allelic fraction is typical of the first detection of a rising ctDNA

PADA-1: median MAF = 0.8% ^(a)

- $ESR1_{mut}$ may be missed in a second sample

PADA-1: $ESR1_{mut}$ not detected in ~40% of pts at next blood draw ^(a)

Prof Bidard – Case Presentation: Same Patient, 2 Years Later (Continued)

After 2 years on letrozole+ribociclib, ctDNA analysis reports an *ESR1*_{mut}.

The ctDNA report shows the *ESR1*_{mut} has been detected at a very low allelic fraction (0.5%), while *PIK3CA*_{mut} was found at 1.3%.

What is/are the best thing(s) to do ?

~~—Wait until the next blood draw~~

The next blood draw may be too late !

ctDNA in PADA-1 was detected by ddPCR:

~25% of patients with rising *ESR1*_{mut} had a synchronous progression

ctDNA in SERENA-6: NGS

Factors influencing the rate of patients with synchronous progression:

- ctDNA test sensitivity
- Interval between two tests
- Biologic features

Prof Bidard – Case Presentation: Same Patient, 2 Years Later (Continued)

After 2 years on letrozole+ribociclib, ctDNA analysis reports an *ESR1*_{mut}.

The ctDNA report shows the *ESR1*_{mut} has been detected at a very low allelic fraction (0.5%), while *PIK3CA*_{mut} was found at 1.3%.

What is/are the best thing(s) to do ?

- Request a tumor evaluation
- Discuss with patient an immediate switch from letrozole+ribociclib to SERD+ribociclib

Benefit to extend the 1st line & limited toxicity → attractive option

Not in current clinical guidelines -- as of October 2024

- At the moment, relies only on PADA-1 results. SERENA-6 trial will read out in 2025
- Only SERD available now: Fulvestrant (IM shots, etc).
- Camizestrant may become the only ngSERD with a label for the switch, depending on SERENA-6 results

Prof Bidard – Case Presentation: Same Patient, 2 Years Later (Continued)

Patient has no synchronous disease progression and *ESR1_{mut}* in ctDNA triggered a switch to a SERD+ribociclib

How do you monitor the disease after the switch ? (ctDNA, imaging...)

Prof Bidard – Case Presentation: Same Patient, 2 Years Later (Continued)

Patient has no synchronous disease progression and $ESR1_{mut}$ in ctDNA triggered a switch to a SERD+ribociclib

How do you monitor the disease after the switch ? (ctDNA, imaging...)

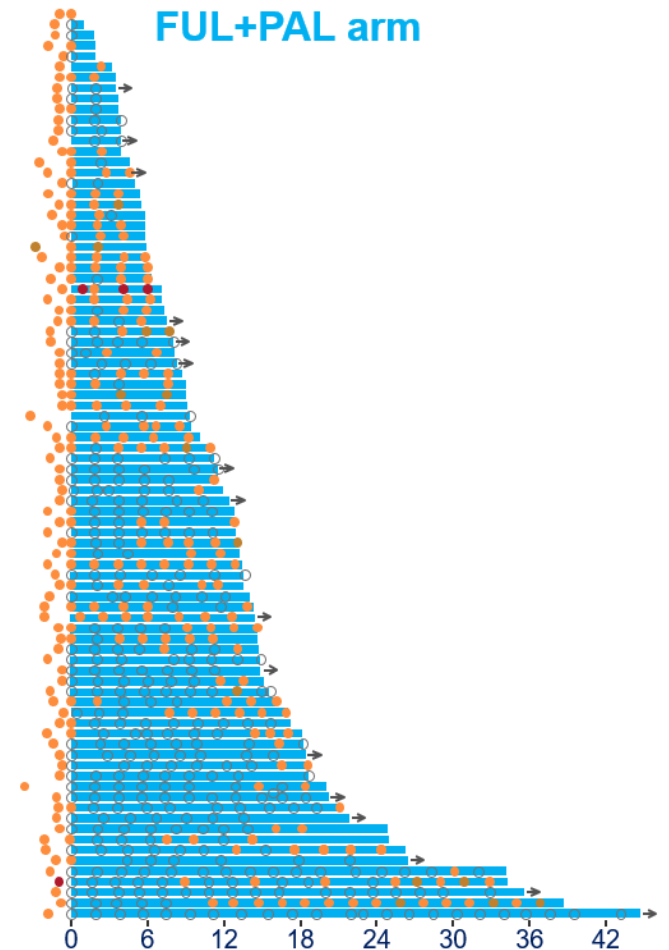
There is **NO** data to support the utility $ESR1_{mut}$ monitoring **during SERD-based therapy**

Clearance/decrease of ctDNA → longer PFS in several reports...

... but no threshold a timing validated / no benefit demonstrated

**Rising ctDNA is an easy call (from negative to positive results)
and is clinically actionable**

But, once switched, patients should rather discontinue ctDNA monitoring
(unless within a research program)



Agenda

Introduction: Confronting Metastatic Breast Cancer (mBC)

Module 1: Mechanisms of Resistance to Endocrine Therapy in HR-Positive mBC; Use of Oral Selective Estrogen Receptor Degraders (SERDs) — Dr Kalinsky

Module 2: Ongoing Evaluation of Early Therapeutic Switching for HR-Positive mBC Harboring ESR1 Mutations — Prof Bidard

Module 3: Other Key Datasets and Ongoing Trials in HR-Positive Breast Cancer

Key Datasets and Ongoing Trials: Adjuvant Therapy

Ignatiadis M et al. EORTC-2129-BCG: **Elacestrant** for treating ER+/HER2- breast cancer patients with **ctDNA relapse (TREAT ctDNA)**. ESMO 2024;Abstract 338TiP.

Hamilton E et al. A phase III randomised open-label study of **extended adjuvant therapy with camizestrant vs standard endocrine therapy (ET)** in patients with ER+/HER2- early breast cancer (BC) and an intermediate or high risk of recurrence (**CAMBRIA-1**) ESMO 2023;Abstract 354 TiP.

NCT05952557. An **adjuvant endocrine-based therapy study of camizestrant (AZD9833)** in ER+/HER2- early breast cancer (CAMBRIA-2).

Jhaveri K et al. **EMBER-4: A phase 3 adjuvant trial of imlunestrant vs standard endocrine therapy (ET)** in patients with ER+, HER2- early breast cancer (EBC) with an increased risk of recurrence who have previously received 2 to 5 years of adjuvant ET. SABCS 2022;Abstract OT1-01-02.

Geyer C et al. **lidERA Breast Cancer (BC): Phase III adjuvant study of giredestrant vs physician's choice of endocrine therapy (PCET)** in patients (pts) with estrogen receptor-positive, HER2-negative early BC (ER+, HER2- eBC). ASCO 2023;Abstract TPS616.

Key Datasets and Ongoing Trials: Neoadjuvant Therapy or Window of Opportunity

Vidal M et al. Solti-1905. **Elacestrant in preoperative setting**, a window of opportunity study (**ELIPSE** trial). SABCS 2022;Abstract PD13-01.

Robertson J et al. **SERENA-3: A randomized pre-surgical window of opportunity study** assessing dose and duration of **camizestrant** treatment in postmenopausal women with ER-positive, HER2-negative primary breast cancer. SABCS 2023;Abstract RF01-01.

Neven P et al. A **preoperative window-of-opportunity (WOO)** study of **imlunestrant** in ER+, HER2- early breast cancer (EBC): Final analysis from **EMBER-2**. ESMO 2023;Abstract 273P.

Hurvitz SA et al. **Neoadjuvant palbociclib plus either giredestrant or anastrozole** in oestrogen receptor-positive, HER2-negative, early breast cancer (**coopERA** Breast Cancer): An open-label, randomised, controlled, phase 2 study. *Lancet Oncol* 2023;24(9):1029-41.

Key Datasets and Ongoing Trials: Proteolysis Targeting Chimeras (PROTACS)

Hamilton E et al. First-in-human safety and activity of **ARV-471**, a novel **PROTAC estrogen receptor degrader**, in ER+/HER2- locally advanced or metastatic breast cancer. SABCS 2021;Abstract PD13-08.

Hamilton E et al. **Vepdegestrant**, a proteolysis targeting chimera (PROTAC) estrogen receptor (ER) degrader, **plus palbociclib** (palbo) in ER+/human epidermal growth factor receptor 2 (HER2)- advanced breast cancer: Updated **phase Ib cohort** results. ESMO Breast 2024;Abstract 218P.

Hamilton E et al. **VERITAC-2**: A global, randomized **phase 3 study of ARV-471**, a PROteolysis TArgeting Chimera (PROTAC) estrogen receptor (ER) degrader, **vs fulvestrant** in ER+/human epidermal growth factor receptor 2 (HER2)- advanced breast cancer. ESMO Breast 2023;Abstract 257TiP.

Wander S et al. **VERITAC-3**: A randomized **phase 3 study**, with a lead-in, of **first-line vepdegestrant + palbociclib vs letrozole + palbociclib** in estrogen receptor–positive/human epidermal growth factor receptor 2–negative advanced breast cancer. SABCS 2023;Abstract PO2-20-03.

Hamilton E et al. **AC699**, a novel chimeric estrogen receptor degrader, in a **phase I study** in breast cancer. ESMO 2024;Abstract 637P.

**Case 2: First-Line Treatment
of HR-Positive/HER2-Negative
PIK3CA-Mutated Metastatic
Breast Cancer**



Dr Kalinsky – Case Presentation

- Patient is a 65-yo **postmenopausal** healthy female who is diagnosed with a right breast invasive ductal carcinoma, grade 2, ER+ 100% PR+ 100% HER2 0
- She undergoes lumpectomy, SLNB: 3 cm, 2/3 lymph nodes in 4/21
- Oncotype 20
- No chemo. s/p XRT
- Compliant with aromatase inhibitor. s/p 1 year of Abemaciclib – stopped in 6/22 due to intolerance
- Develops new bone metastases in 5/24 while on an aromatase inhibitor
- Her performance status is excellent
- She has **minimal pain** from metastases
- Hereditary Genetic Testing: no pathogenic variants

Dr Kalinsky – Case Presentation (Continued)

- She undergoes ctDNA testing: biomarker testing reveals a pathogenic *PIK3CA* H1047R mutation

What therapy would you recommend next?

1. Alpelisib + fulvestrant
2. Chemotherapy
3. Capivasertib + fulvestrant
4. Ribociclib + fulvestrant
5. Trastuzumab Deruxtecan
6. Sacituzumab Govitecan

Dr Kalinsky – Case Presentation (Continued)

- Pt started fulvestrant + ribociclib

The Implications of Recent Datasets for the Current and Future Management of Gastrointestinal Cancers — An ESMO Congress 2024 Review

A CME/MOC-Accredited Live Webinar

Tuesday, October 15, 2024

5:00 PM – 6:00 PM ET

Faculty

Tanios Bekaii-Saab, MD

Philip A Philip, MD, PhD, FRCP

Moderator

Neil Love, MD

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