

Meet The Professor

Optimizing the Management of ER-Positive and Triple-Negative Breast Cancer

Wednesday, April 12, 2023

5:00 PM – 6:00 PM ET

Faculty

Sara A Hurvitz, MD

Moderator

Neil Love, MD

Commercial Support

This activity is supported by educational grants from AstraZeneca Pharmaceuticals LP, Exact Sciences Corporation, Sanofi, and TerSera Therapeutics LLC.

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, Astellas, AstraZeneca Pharmaceuticals LP, Aveo Pharmaceuticals, Bayer HealthCare Pharmaceuticals, BeiGene Ltd, BeyondSpring Pharmaceuticals Inc, Blueprint Medicines, Boehringer Ingelheim Pharmaceuticals Inc, Bristol-Myers Squibb Company, Celgene Corporation, Clovis Oncology, Coherus BioSciences, CTI BioPharma Corp, 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, Gilead Sciences Inc, Grail Inc, GSK, Halozyme Inc, Helsinn Healthcare SA, 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, Lilly, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, MEI Pharma Inc, Merck, Mersana Therapeutics Inc, Mirati Therapeutics 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, Sanofi, Seagen Inc, Servier Pharmaceuticals LLC, SpringWorks Therapeutics Inc, Stemline Therapeutics Inc, Sumitomo Dainippon Pharma Oncology Inc, Taiho Oncology Inc, Takeda Pharmaceuticals USA Inc, TerSera Therapeutics LLC, Tesaro, A GSK Company, TG Therapeutics Inc, Turning Point Therapeutics Inc, Verastem Inc, and Zymeworks Inc.

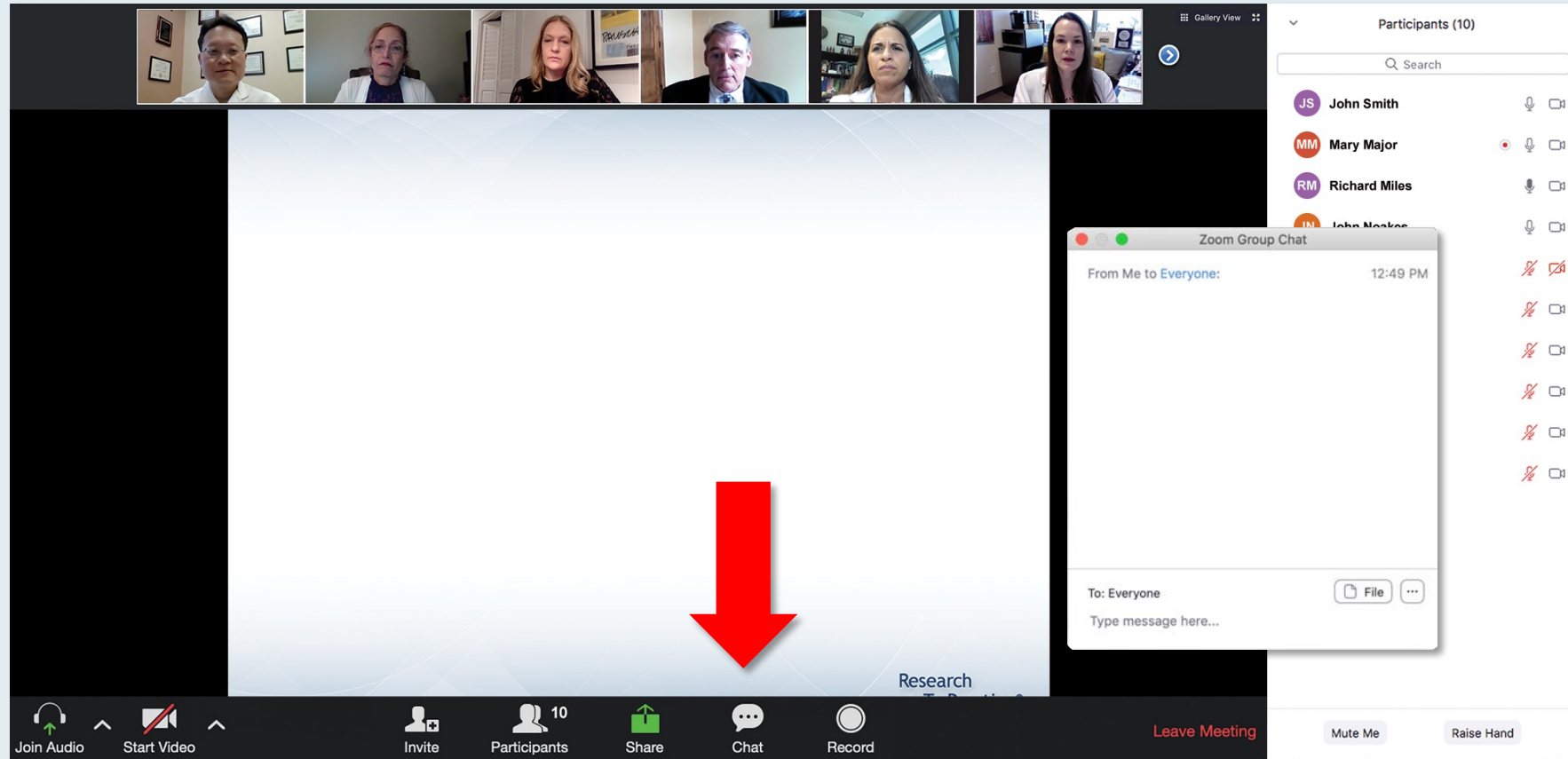
Research To Practice CME Planning Committee Members, Staff and Reviewers

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

Dr Hurvitz — Disclosures

Contracted Research	Ambrx, Amgen Inc, Arvinas, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Celcuity, CytomX Therapeutics, Daiichi Sankyo Inc, Dantari, Dignitana AB, G1 Therapeutics Inc, Genentech, a member of the Roche Group, Gilead Sciences Inc, Greenwich LifeSciences Inc, GSK, Lilly, MacroGenics Inc, Novartis, OBI Pharma Inc, Orinove Inc, Orum Therapeutics, Pfizer Inc, Phoenix Molecular Designs, Pieris Pharmaceuticals Inc, Puma Biotechnology Inc, Radius Health Inc, Samumed, Sanofi, Seagen Inc, Stemline Therapeutics Inc, Zymeworks Inc
Nonrelevant Financial Relationship	Ideal Implant (spouse)

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

The chat window on the right shows two messages from "Me to Panelists" and "Me to Panelists and Attendees" with a link to a PDF. A red arrow points to the chat submission box at the bottom right, which has a white line above it that can be dragged up to expand the space.

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, and a small grey box with "150%" is overlaid on the chat message, indicating the font size has been increased. The chat input field at the bottom shows "To: Panelists and Attendees" and "Type message here..."

**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 presentation slide on the left and a 'Quick Survey' overlay on the right. The slide text reads: 'Meet The Prof...', 'Optimizing the Selection and...', 'of Therapy for Patients with...', 'Gastrointestinal Ca...', 'Wednesday, August 25, 5:00 PM – 6:00 PM E...', 'Faculty Wells A Messersmith, Moderator Neil Love, MD'. The survey overlay lists several treatment combinations with radio buttons for selection.

Quick Survey

- Certizomb +/- dexamethasone
- Pomalidomide +/- dexamethasone
- Certizomb + pomalidomide +/- dexamethasone
- Ektuzumab + lenalidomide +/- dexamethasone
- Ektuzumab + pomalidomide +/- dexamethasone
- Daratumumab + lenalidomide +/- dexamethasone
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Participants (10): John Smith, Mary Major, Richard Miles, John Noakes, Alice Suarez, Jane Perez, Robert Stiles, Juan Fernandez, Ashok Kumar, Jeremy Smith.

The screenshot shows a Zoom meeting with a presentation slide on the left and a 'Quick Poll' overlay on the right. The slide text reads: '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)?'. The poll overlay lists eight treatment options with radio buttons for selection.

Quick Poll

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- Avelumab/axitinib
- Pembrolizumab/axitinib
- Pembrolizumab/lenvatinib
- Nivolumab/cabozantinib
- Tyrosine kinase inhibitor (TKI) monotherapy
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- Other

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ONCOLOGY TODAY

WITH DR NEIL LOVE

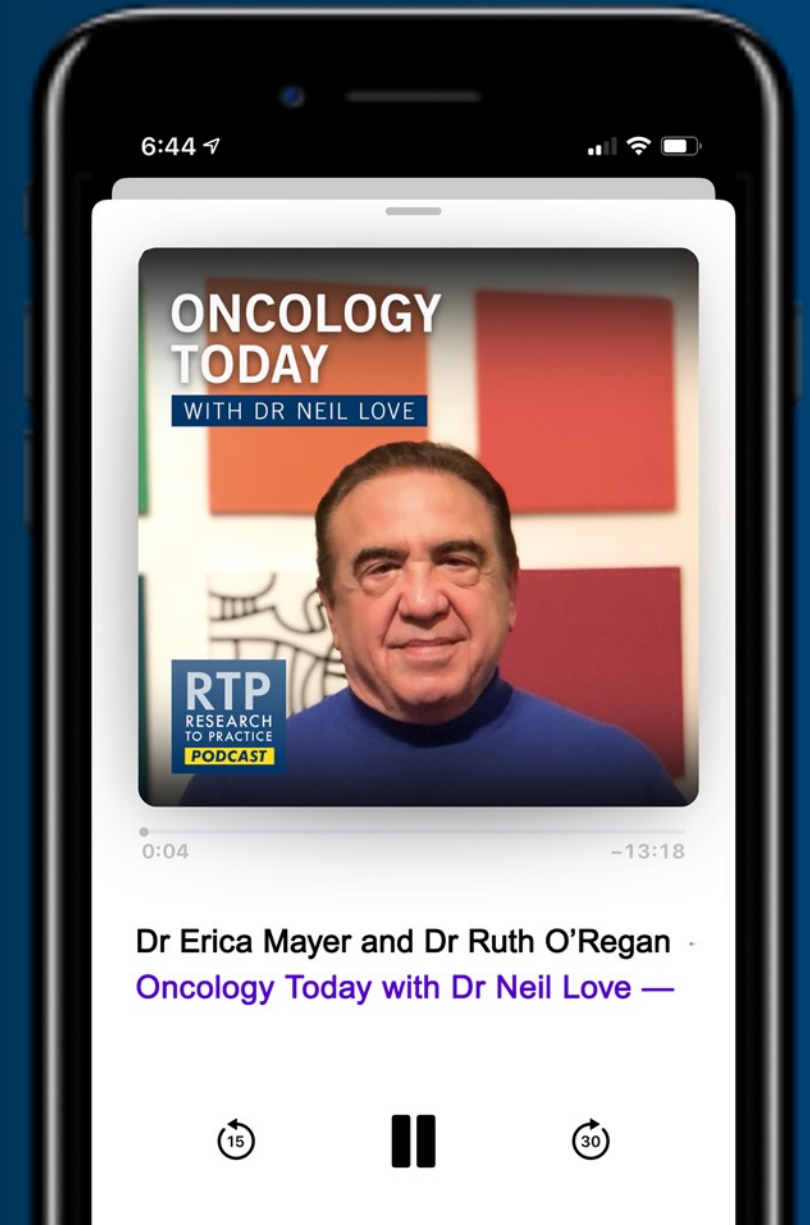
Special Edition — Management of ER-Positive Breast Cancer



DR ERICA MAYER
DANA-FARBER CANCER INSTITUTE



DR RUTH O'REGAN
UNIVERSITY OF ROCHESTER



Year in Review: Clinical Investigator Perspectives on the Most Relevant New Data Sets and Advances in Oncology

A Multitumor CME/MOC-Accredited Live Webinar Series

Immunotherapy and Other Nontargeted Approaches for Lung Cancer

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Heather Wakelee, MD

Moderator

Neil Love, MD

Year in Review: Clinical Investigator Perspectives on the Most Relevant New Data Sets and Advances in Oncology

A Multitumor CME/MOC-Accredited Live Webinar Series

Colorectal Cancer

Wednesday, April 19, 2023

5:00 PM – 6:00 PM ET

Faculty

Pashtoon M Kasi, MD, MS

Wells A Messersmith, MD

Moderator

Neil Love, MD

What I Tell My Patients: Expert Insights into Patient Education on New Treatments and Clinical Trial Participation

Fifteenth Annual RTP Symposium Series Held During the Annual ONS Congress

Cervical and Endometrial Cancer

Wednesday, April 26, 2023

11:15 AM – 12:45 PM CT (12:15 PM – 1:45 PM ET)

Faculty

Paula J Anastasia, MN, RN, AOCN

Michael J Birrer, MD, PhD

Jennifer Filipi, MSN, NP

Brian M Slomovitz, MD

Diffuse Large B-Cell Lymphoma

Thursday, April 27, 2023

6:00 AM – 7:30 AM CT (7:00 AM – 8:30 AM ET)

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Amy Goodrich, CRNP

Robin Klebig, APRN, CNP, AOCNP

Matthew Lunning, DO

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Jamie Carroll, APRN, MSN, CNP

Virginia Kaklamani, MD, DSc

Joyce O'Shaughnessy, MD

Ronald Stein, JD, MSN, NP-C, AOCNP

Chronic Lymphocytic Leukemia

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Caroline Kuhlman, MSN, APRN-BC

Zev Wainberg, MD, MSc

Additional faculty to be announced

Ovarian Cancer

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Faculty

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David M O'Malley, MD

Richard T Penson, MD, MRCP

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Kathy D Burns, RN, MSN, AGACNP-BC, OCN

Susan K Roethke, MSN, CRNP, AOCNP, ANP-BC

Sandy Srinivas, MD

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Joshua J Meeks, MD, PhD

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J Alfred Witjes, MD, PhD

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Thank you for joining us!

CME and MOC credit information will be emailed to each participant within 5 business days.

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Los Angeles, California

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Kathy D Miller, MD
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The Indiana University Melvin and Bren Simon
Cancer Center
Indianapolis, Indiana



Komal Jhaveri, MD
Associate Attending Physician
Breast Medicine Service and Early Drug
Development Service
Section Head, Endocrine Therapy Research Program
Clinical Director, Early Drug Development Service
Department of Medicine
Memorial Sloan Kettering Cancer Center
Assistant Professor of Medicine
Weill Cornell College of Medicine
New York, New York



Ann Partridge, MD, MPH
Vice Chair of Medical Oncology
Director, Program for Young Women with
Breast Cancer
Director, Adult Survivorship Program
Dana-Farber Cancer Institute
Professor of Medicine
Harvard Medical School
Boston, Massachusetts

Meet The Professor Program Participating Faculty



Melinda Telli, MD

Associate Professor of Medicine
Stanford University School of Medicine
Director, Breast Cancer Program
Stanford Cancer Institute
Stanford, California



MODERATOR

Neil Love, MD

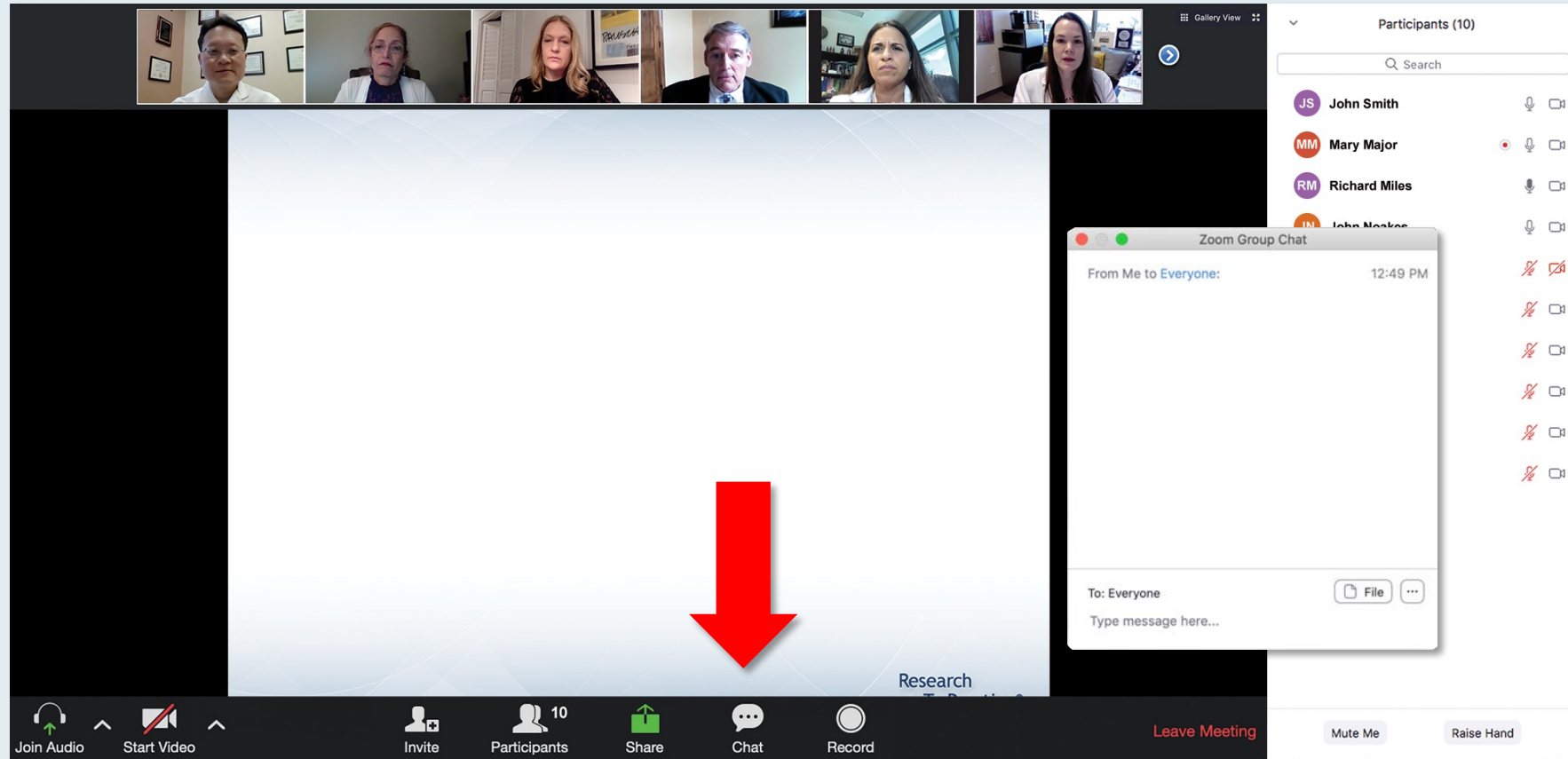
Research To Practice
Miami, Florida



Sara M Tolaney, MD, MPH

Chief, Division of Breast Oncology
Associate Director, Susan F Smith Center
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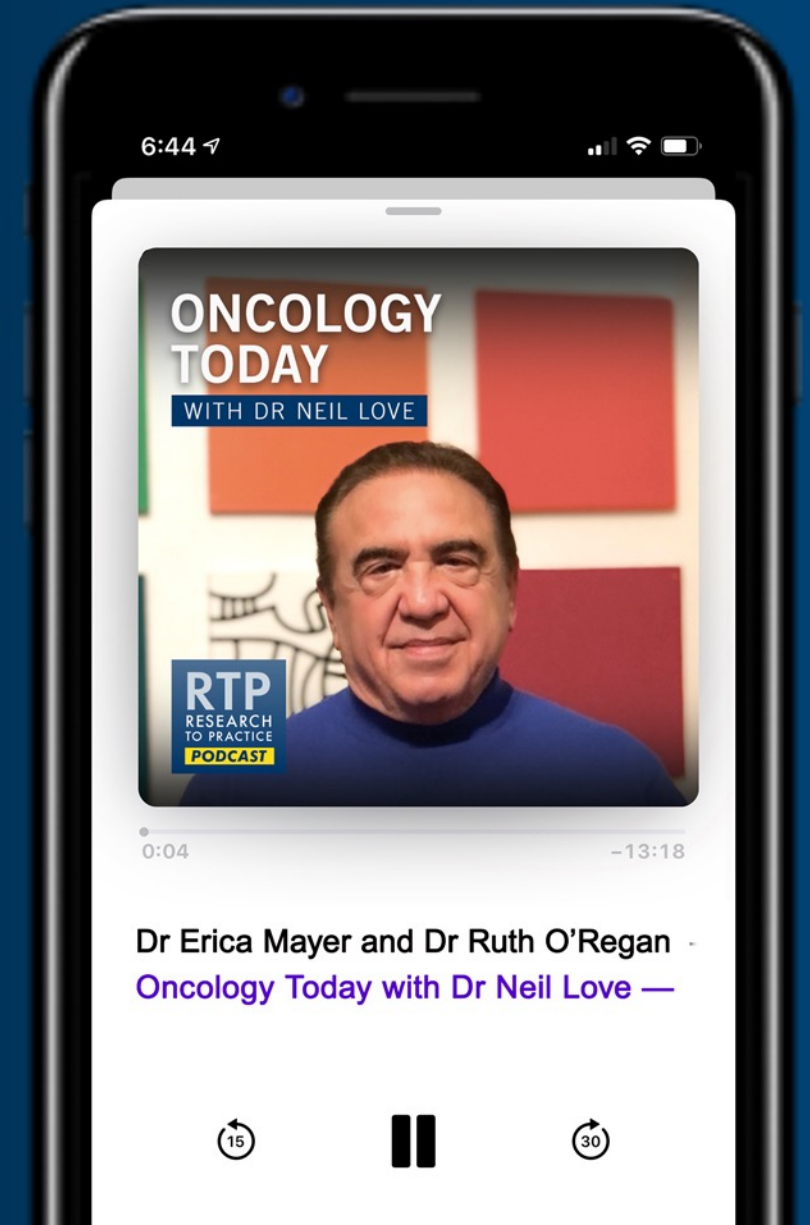
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Nonrelevant Financial Relationship	Ideal Implant (spouse)



Alan B Astrow, MD
NewYork-Presbyterian Brooklyn
Methodist Hospital
Brooklyn, New York



Rahul Gosain, MD
Guthrie Corning Cancer Center
Corning, New York



Gigi Chen, MD
John Muir Health
Pleasant Hill, California



Ranju Gupta, MD
Cancer Institute
Lehigh Valley Topper Cancer Institute
Bethlehem, Pennsylvania



Jennifer L Dallas, MD
Oncology Specialists of Charlotte
Charlotte, North Carolina



Zanetta S Lamar, MD
Florida Cancer Specialists
Naples, Florida



Victoria Giffi, MD
Meritus Hematology and
Oncology Specialists
Hagerstown, Maryland



Nick Leasure, MD
Tower Health Reading
West Reading, Pennsylvania



Rajalaxmi McKenna, MD
Southwest Medical
Consultants SC
Willowbrook, Illinois



Nasfat Shehadeh, MD
Oncology Specialists of Charlotte
Charlotte, North Carolina



William R Mitchell, MD
Southern Oncology Specialists
Charlotte, North Carolina

Meet The Professor with Dr Hurvitz

Introduction: Antibody-Drug Conjugates in Breast Cancer

MODULE 1: Case Presentations

Appendix

- Dr Gupta: 48-year-old premenopausal woman with 0.8-cm ER/PR-positive, HER2-negative IDC with 2 positive nodes and an *Oncotype DX*[®] Recurrence Score[®] (RS) of 9
- Dr Leasure: 42-year-old premenopausal woman with 5-cm ER/PR-positive, HER2-negative Grade I IDC
- Dr Chen: 70-year-old woman with ER/PR-positive, HER2-low (IHC 1+) metastatic IDC receiving T-DXd with mixed response
- Dr Lamar: 48-year-old woman with multicentric gBRCA1-mutant TNBC who receives treatment per KEYNOTE-522 and achieves a CR to neoadjuvant treatment
- Dr Mitchell: 50-year-old premenopausal woman with bilateral ER/PR-positive, HER2-negative, PALB2-mutant IDC and multiple, bilateral positive nodes
- Dr Shehadeh: 46-year-old woman with ER/PR-positive, HER2-negative, gBRCA1-mutant metastatic breast cancer receiving fulvestrant/Palbociclib
- Dr Astrow: 36-year-old woman who is 18 weeks pregnant with ER/PR-positive, HER2-negative IDC and an *Oncotype DX* RS of 17
- Dr Gosain: 49-year-old woman with ER/PR-positive, HER2-negative, NTRK-mutant metastatic breast cancer with CNS involvement who receives entrectinib
- Dr McKenna: 63-year-old woman with ER/PR-positive, HER2-negative metaplastic breast cancer with an *Oncotype DX* RS of 51 who has received adjuvant AI x 16 years
- Dr Dallas: 73-year-old woman with ER/PR-positive, HER2-negative, node-negative breast cancer and an *Oncotype DX* RS of 29 who receives adjuvant TC and develops taxane-associated pain syndrome
- Dr Giffi: 35-year-old woman with ER/PR-positive, HER2-negative, node-positive IDC and residual disease after neoadjuvant chemotherapy and mastectomy who receives adjuvant RT and abemaciclib with goserelin and letrozole

Meet The Professor with Dr Hurvitz

Introduction: Antibody-Drug Conjugates in Breast Cancer

MODULE 1: Case Presentations

Appendix

Clinical outlook

<https://doi.org/10.1038/s43018-022-00495-7>

Recent progress in antibody–drug conjugate therapy for cancer

Sara A. Hurvitz

Nat Cancer 2022 December;3(12):1412-3.

Lancet 2023;401:105-17.

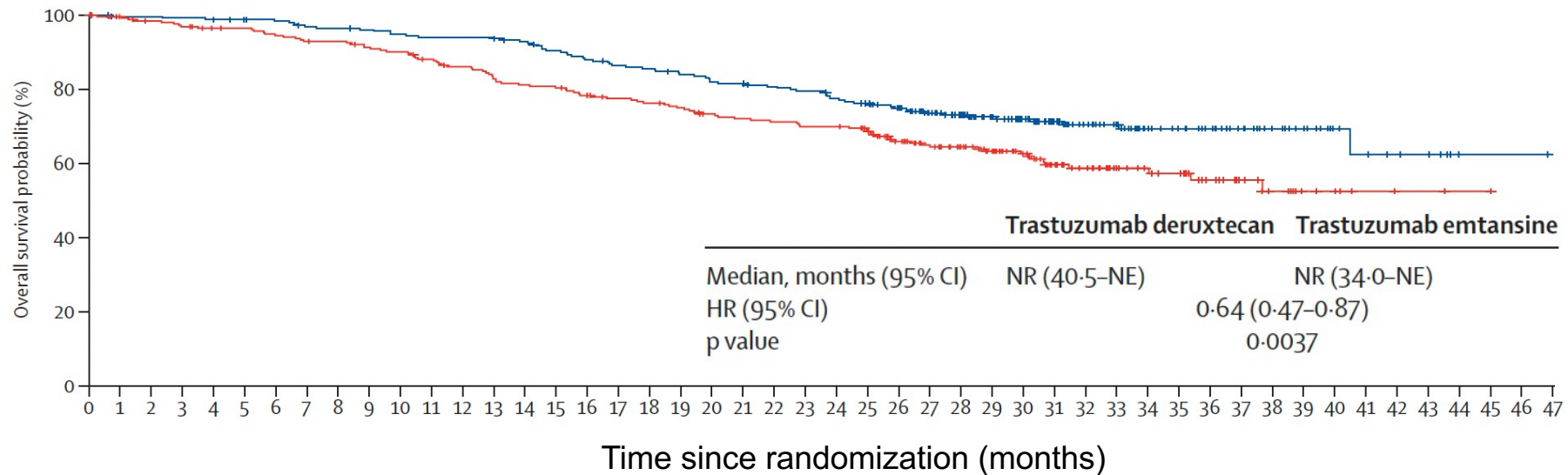
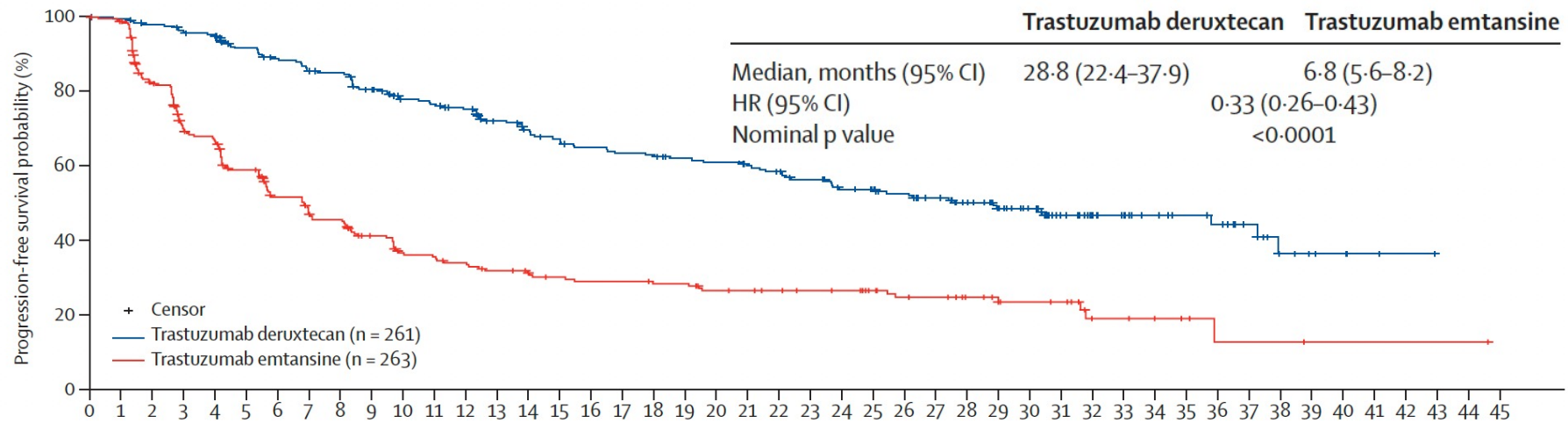
Trastuzumab deruxtecan versus trastuzumab emtansine in patients with HER2-positive metastatic breast cancer: updated results from DESTINY-Breast03, a randomised, open-label, phase 3 trial



Sara A Hurvitz, Roberto Hegg, Wei-Pang Chung, Seock-Ah Im, William Jacot, Vinod Ganju, Joanne Wing Yan Chiu, Binghe Xu, Erika Hamilton, Srinivasan Madhusudan, Hiroji Iwata, Sevilay Altintas, Jan-Willem Henning, Giuseppe Curigliano, José Manuel Perez-Garcia, Sung-Bae Kim, Vanessa Petry, Chiun-Sheng Huang, Wei Li, Jean-Sebastien Frenel, Silvia Antolin, Winnie Yeo, Giampaolo Bianchini, Sherene Loi, Junji Tsurutani, Anton Egorov, Yali Liu, Jillian Cathcart, Shahid Ashfaq, Javier Cortés

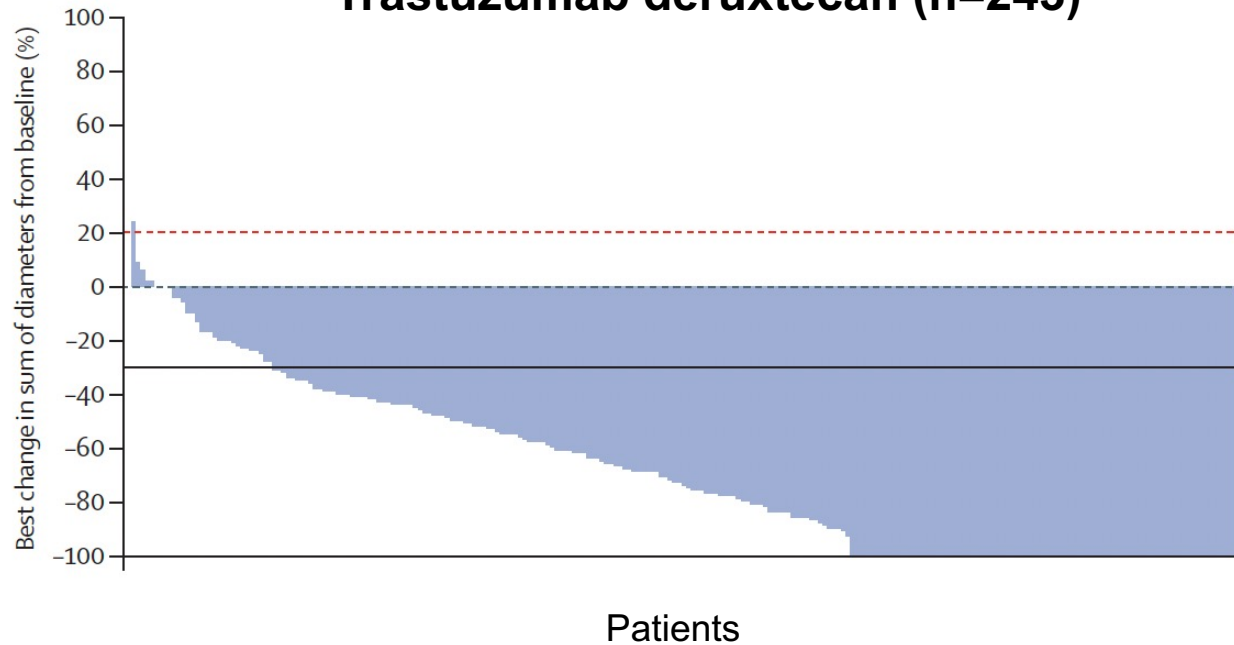


DESTINY-Breast03: Progression-Free and Overall Survival

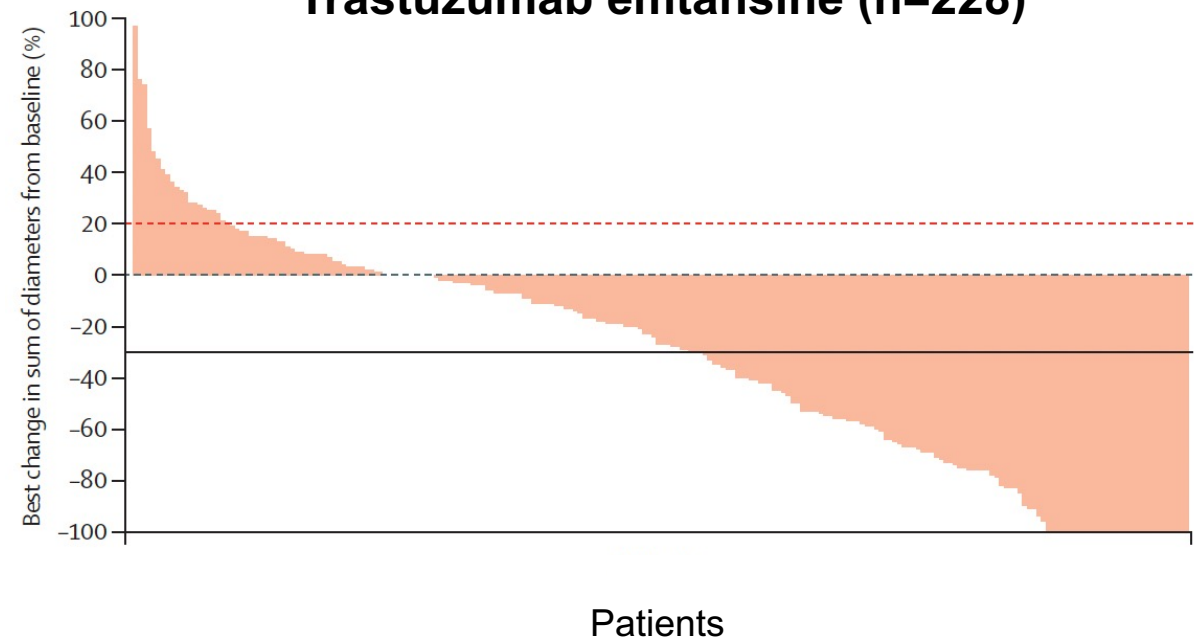


DESTINY-Breast03: Antitumor Activity of Trastuzumab Deruxtecan and Trastuzumab Emtansine

Trastuzumab deruxtecan (n=243)



Trastuzumab emtansine (n=228)



The NEW ENGLAND JOURNAL of MEDICINE

2022 July 7;387(1):75-6.

EDITORIALS



DESTINY-Changing Results for Advanced Breast Cancer

Sara A. Hurvitz, M.D.

The NEW ENGLAND
JOURNAL of MEDICINE

ESTABLISHED IN 1812

JULY 7, 2022

VOL. 387 NO. 1

Trastuzumab Deruxtecan in Previously Treated HER2-Low Advanced Breast Cancer

S. Modi, W. Jacot, T. Yamashita, J. Sohn, M. Vidal, E. Tokunaga, J. Tsurutani, N.T. Ueno, A. Prat, Y.S. Chae, K.S. Lee, N. Niikura, Y.H. Park, B. Xu, X. Wang, M. Gil-Gil, W. Li, J.-Y. Pierga, S.-A. Im, H.C.F. Moore, H.S. Rugo, R. Yerushalmi, F. Zagouri, A. Gombos, S.-B. Kim, Q. Liu, T. Luo, C. Saura, P. Schmid, T. Sun, D. Gambhire, L. Yung, Y. Wang, J. Singh, P. Vitazka, G. Meinhardt, N. Harbeck, and D.A. Cameron, for the DESTINY-Breast04 Trial Investigators*

JC
JOURNAL CLUB

RTP
RESEARCH
TO PRACTICE

“The implications of the results of the DESTINYBreast04 trial reported by Modi et al in this issue of the Journal are difficult to overstate...”

“This will undoubtedly translate into a new therapeutic option for nearly half the patients who receive a diagnosis of metastatic breast cancer, an extraordinary finding...”

“These results should inspire scientists to begin the rigorous yet critically important translational components of this trial, including efforts to accurately identify those patients who are most likely to benefit.”

RESEARCH BRIEF

Trastuzumab Deruxtecan in HER2-Positive Metastatic Breast Cancer Patients with Brain Metastases: A DESTINY-Breast01 Subgroup Analysis



Guy Jerusalem¹, Yeon Hee Park², Toshinari Yamashita³, Sara A. Hurvitz⁴, Shanu Modi⁵, Fabrice Andre⁶, Ian E. Krop⁷, Xavier González Farré⁸, Benoit You⁹, Cristina Saura¹⁰, Sung-Bae Kim¹¹, Cynthia R. Osborne^{12,13}, Rashmi K. Murthy¹⁴, Lorenzo Gianni¹⁵, Toshimi Takano¹⁶, Yali Liu¹⁷, Jillian Cathcart¹⁷, Caleb Lee¹⁷, and Christophe Perrin¹⁸

PD13-08

SABCS 2022

Phase 1 TROPION-PanTumor01 Study Evaluating Datopotamab Deruxtecan (Dato-DXd) in Unresectable or Metastatic Hormone Receptor–Positive/HER2-Negative Breast Cancer

Funda Meric-Bernstam,¹ Ian E. Krop,² Dejan Juric,³ Takahiro Kogawa,⁴ Erika P. Hamilton,^{5,6} Alexander I. Spira,⁷ Toru Mukohara,⁸ Takuya Tsunoda,⁹ Senthil Damodaran,¹ Jonathan Greenberg,^{10,11} Wen Gu,¹⁰ Fumiaki Kobayashi,¹² Hong Zebger-Gong,^{10,11} Yui Kawasaki,¹¹ Rie Wong,¹² Aditya Bardia³

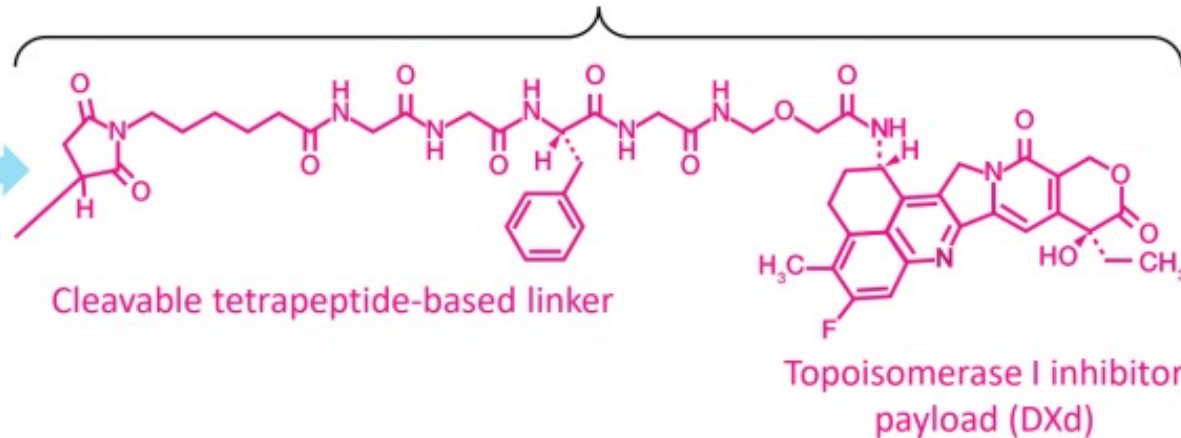
¹The University of Texas MD Anderson Cancer Center, Houston, TX; ²Yale Cancer Center, New Haven, CT; ³Massachusetts General Hospital Cancer Center, Department of Medicine, Harvard Medical School, Boston, MA; ⁴Department of Advanced Medical Development, Cancer Institute Hospital of JFCR, Tokyo, Japan; ⁵Sarah Cannon Research Institute, Nashville, TN; ⁶Tennessee Oncology, PLLC, Nashville, TN; ⁷Virginia Cancer Specialists (VCS) Research Institute, Fairfax, VA; ⁸National Cancer Center Hospital East, Kashiwa, Japan; ⁹Division of Medical Oncology, Showa University, School of Medicine, Tokyo, Japan; ¹⁰Daiichi Sankyo, Inc, Basking Ridge, NJ; ¹¹Daiichi Sankyo Europe GmbH, Munich, Germany; ¹²Daiichi Sankyo, Co., Ltd, Tokyo, Japan

Datopotamab Deruxtecan Mechanism of Action

Humanized anti-TROP2
IgG1 mAb⁵



Deruxtecan⁵



7 Key Attributes

Payload mechanism of action:
topoisomerase I inhibitor^{5-7,a}

High potency of payload^{5-7,a}

Optimized drug to antibody ratio ≈ 4 ^{5,a,b}

Payload with short systemic half-life^{5-7,a,b}

Stable linker-payload^{5-7,a}

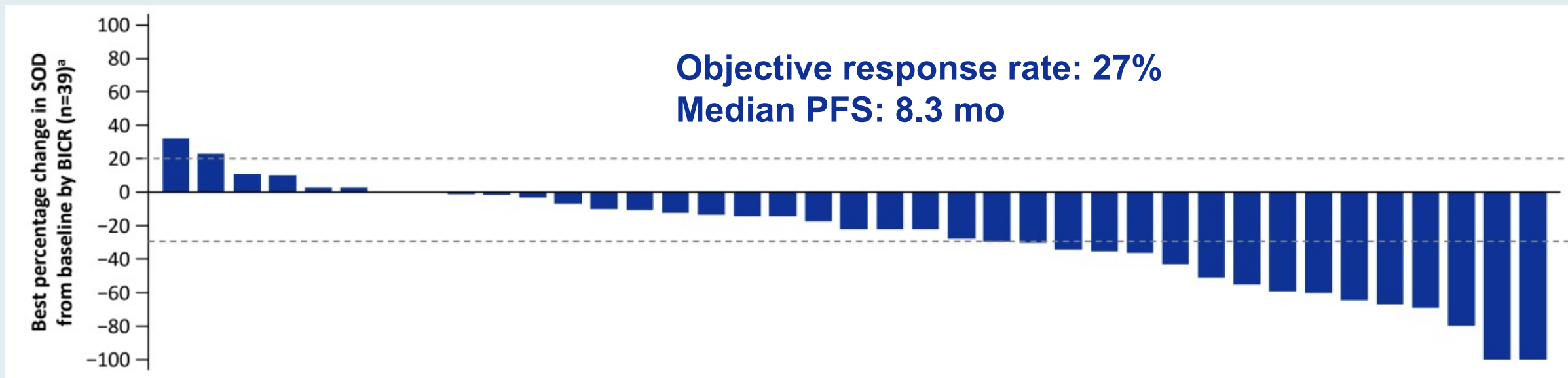
Tumor-selective cleavable linker^{5-7,a}

Bystander antitumor effect^{6,8,a}

^aThe clinical relevance of these features is under investigation.

^bBased on animal data.

TROPION-PanTumor01: Datopotamab Deruxtecan for HR-Positive, HER2-Negative Metastatic Breast Cancer



TROPION-PanTumor01: Safety Summary

Patients, n (%)	N=41	
	Any grade	Grade ≥3
TEAEs	41 (100)	17 (41)
Treatment-related TEAEs	41 (100)	9 (22)
Dose adjustments due to AEs		
Dose reductions ^a		5 (12)
Treatment interruptions ^b		15 (37)
Treatment discontinuations ^c		5 (12)
Serious TEAEs		6 (15)
Treatment related ^d		1 (2)

Meet The Professor with Dr Hurvitz

Introduction: Antibody-Drug Conjugates in Breast Cancer

MODULE 1: Case Presentations

- Dr Gupta: 48-year-old premenopausal woman with 0.8-cm ER/PR-positive, HER2-negative IDC with 2 positive nodes and an *Oncotype DX*[®] Recurrence Score[®] (RS) of 9
- Dr Leasure: 42-year-old premenopausal woman with 5-cm ER/PR-positive, HER2-negative Grade I IDC
- Dr Chen: 70-year-old woman with ER/PR-positive, HER2-low (IHC 1+) metastatic IDC receiving T-DXd with mixed response
- Dr Lamar: 48-year-old woman with multicentric gBRCA1-mutant TNBC who receives treatment per KEYNOTE-522 and achieves a CR to neoadjuvant treatment
- Dr Mitchell: 50-year-old premenopausal woman with bilateral ER/PR-positive, HER2-negative, PALB2-mutant IDC and multiple, bilateral positive nodes
- Dr Shehadeh: 46-year-old woman with ER/PR-positive, HER2-negative, gBRCA1-mutant metastatic breast cancer receiving fulvestrant/palbociclib

Appendix

Meet The Professor with Dr Hurvitz

Introduction: Antibody-Drug Conjugates in Breast Cancer

MODULE 1: Case Presentations (continued)

- Dr Astrow: 36-year-old woman who is 18 weeks pregnant with ER/PR-positive, HER2-negative IDC and an *Oncotype* DX RS of 17
- Dr Gosain: 49-year-old woman with ER/PR-positive, HER2-negative, NTRK-mutant metastatic breast cancer with CNS involvement who receives entrectinib
- Dr McKenna: 63-year-old woman with ER/PR-positive, HER2-negative metaplastic breast cancer with an *Oncotype* DX RS of 51 who has received adjuvant AI x 16 years
- Dr Dallas: 73-year-old woman with ER/PR-positive, HER2-negative, node-negative breast cancer and an *Oncotype* DX RS of 29 who receives adjuvant TC and develops taxane-associated pain syndrome
- Dr Giffi: 35-year-old woman with ER/PR-positive, HER2-negative, node-positive IDC and residual disease after neoadjuvant chemotherapy and mastectomy who receives adjuvant RT and abemaciclib with goserelin and letrozole

Appendix

Case Presentation: 48-year-old premenopausal woman with 0.8-cm ER/PR-positive, HER2-negative IDC with 2 positive nodes and an Oncotype DX RS of 9









Dr Ranju Gupta (Bethlehem, Pennsylvania)

Case Presentation: 42-year-old premenopausal woman with 5-cm ER/PR-positive, HER2-negative Grade I IDC









Dr Nick Leasure (West Reading, Pennsylvania)

Which adjuvant endocrine therapy (ET) would you most likely recommend for a 30-year-old premenopausal woman with node-negative, ER-positive, HER2-negative localized breast cancer and the Recurrence Score® (RS) below? Would you recommend adjuvant chemotherapy?

		RS = 8		RS = 20	
		ET	Chemotherapy?	ET	Chemotherapy?
	Dr Hurvitz	OFS/ablation + tamoxifen, or Tam alone if small tumor	No	OFS/ablation + tamoxifen	Yes, but OFS/ablation as alternative
	Dr Jhaveri	Tamoxifen	No	OFS/ablation + tamoxifen or letrozole	Yes, but OFS/ablation as alternative
	Dr Miller	OFS/ablation + anastrozole	No	OFS/ablation + anastrozole	Yes, but OFS/ablation as alternative
	Dr Partridge	Tamoxifen +/- OFS/ablation	No	OFS/ablation + letrozole	Yes, but OFS/ablation as alternative
	Dr Telli	Tamoxifen	No	OFS/ablation + exemestane	No
	Dr Tolaney	Tamoxifen	No	OFS/ablation + letrozole	Yes, but OFS/ablation as alternative







OFS = ovarian function suppression

Which adjuvant ET would you most likely recommend for a 30-year-old premenopausal woman with ER-positive, HER2-negative localized breast cancer with 1 positive node and the RS below? Would you recommend adjuvant chemotherapy?







		RS = 8		RS = 20	
		ET	Chemotherapy?	ET	Chemotherapy?
	Dr Hurvitz	OFS/ablation + tamoxifen	Yes, but OFS/ablation as alternative	OFS/ablation + anastrozole	Yes
	Dr Jhaveri	OFS/ablation + tamoxifen or letrozole	Yes, but OFS/ablation as alternative	OFS/ablation + tamoxifen or letrozole	Yes
	Dr Miller	OFS/ablation + anastrozole	No	OFS/ablation + anastrozole	Yes, but OFS/ablation as alternative
	Dr Partridge	OFS/ablation + tamoxifen or + letrozole	Yes, but OFS/ablation as alternative	OFS/ablation + letrozole	Yes, but OFS/ablation as alternative
	Dr Telli	OFS/ablation + exemestane	Yes, but OFS/ablation as alternative	OFS/ablation + exemestane	Yes
	Dr Tolaney	OFS/ablation + letrozole	No	OFS/ablation + letrozole	Yes

OFS = ovarian function suppression







Which adjuvant ET would you most likely recommend for a 65-year-old postmenopausal woman with ER-positive, HER2-negative localized breast cancer with 1 positive node and the RS below? Would you recommend adjuvant chemotherapy?

		RS = 8		RS = 20	
		ET	Chemotherapy?	ET	Chemotherapy?
	Dr Hurvitz	Anastrozole	No	Anastrozole	No
	Dr Jhaveri	Letrozole	No	Letrozole	No
	Dr Miller	Anastrozole	No	Anastrozole	No
	Dr Partridge	Letrozole	No	Letrozole	No
	Dr Telli	Anastrozole	No	Anastrozole	No
	Dr Tolaney	Letrozole	No	Letrozole	No

Which adjuvant ET would you most likely recommend for a 65-year-old postmenopausal woman with ER-positive, HER2-negative localized breast cancer with 3 positive nodes and the RS below? Would you recommend adjuvant chemotherapy?







		RS = 8		RS = 20	
		ET	Chemotherapy?	ET	Chemotherapy?
	Dr Hurvitz	Anastrozole	No	Anastrozole	No
	Dr Jhaveri	Letrozole	No	Letrozole	No
	Dr Miller	Anastrozole	No	Anastrozole	No
	Dr Partridge	Letrozole	No	Letrozole	No
	Dr Telli	Anastrozole	No	Anastrozole	No
	Dr Tolaney	Letrozole	No	Letrozole	No

For premenopausal patients (age 20-40 years) with ER-positive, HER2-negative localized breast cancer who are about to receive adjuvant chemotherapy, do you generally offer the option of using OFS during chemotherapy in the following clinical scenarios?

	For fertility preservation	For ovarian function preservation
 Dr Hurvitz	Yes	Yes
 Dr Jhaveri	No*	Yes
 Dr Miller	Yes	No
 Dr Partridge	Yes	Yes
 Dr Telli	Yes	Yes
 Dr Tolaney	Yes	Yes







OFS = ovarian function suppression; *Fertility specialist discusses with patient

For premenopausal patients (age 20-40 years) with ER-positive, HER2-positive localized breast cancer who are about to receive adjuvant chemotherapy, do you generally offer the option of using OFS during chemotherapy in the following clinical scenarios?







	For fertility preservation	For ovarian function preservation
 Dr Hurvitz	Yes	Yes
 Dr Jhaveri	No*	Yes
 Dr Miller	No	No
 Dr Partridge	Yes	Yes
 Dr Telli	Yes	Yes
 Dr Tolaney	Yes	Yes

OFS = ovarian function suppression; *Fertility specialist discusses with patient

In general, which CDK4/6 inhibitor do you recommend in combination with endocrine therapy as first-line treatment for women with ER-positive, HER2-negative metastatic breast cancer if they are...?

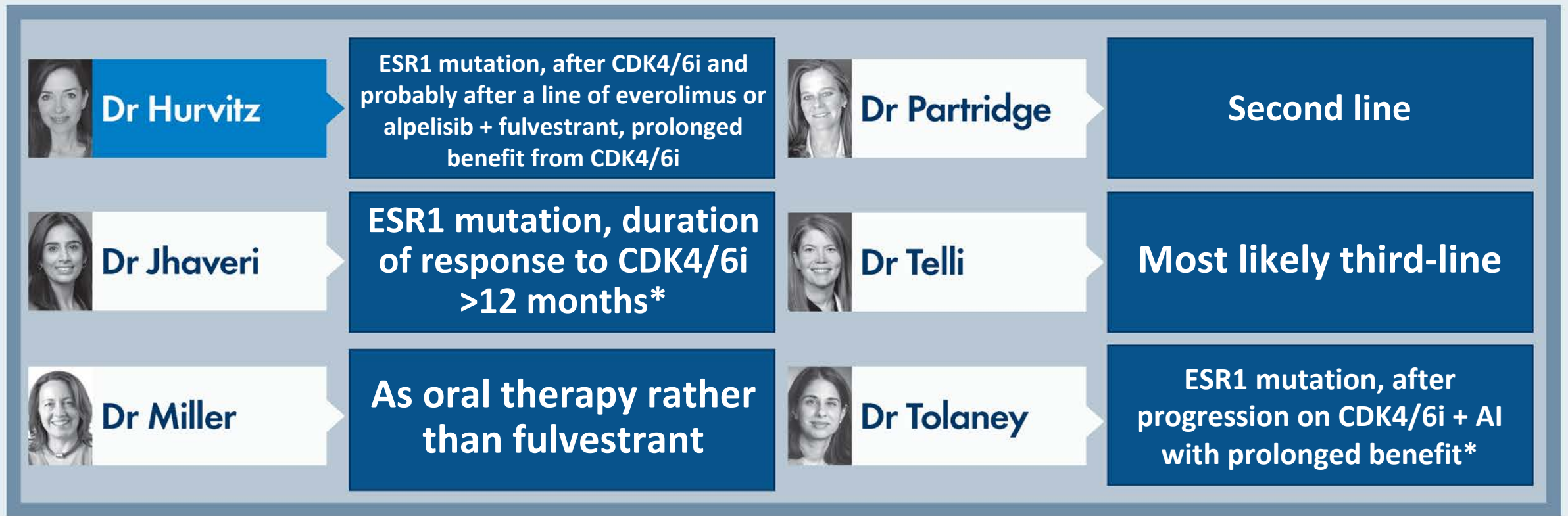
	Postmenopausal	Premenopausal
 Dr Hurvitz	Ribociclib	Ribociclib
 Dr Jhaveri	Ribociclib	Ribociclib
 Dr Miller	Palbociclib	Palbociclib
 Dr Partridge	No preference	Ribociclib
 Dr Telli	No preference – decision based on patient characteristics, side-effect profile	Ribociclib
 Dr Tolaney	Ribociclib	Ribociclib

A patient who is receiving palbociclib/letrozole for ER-positive, HER2 IHC 1+ metastatic breast cancer experiences disease progression. Regulatory and reimbursement issues aside, which systemic treatment would you most likely recommend if genomic testing revealed the following results?

	PIK3CA mutation	PIK3CA wild type
 Dr Hurvitz	Alpelisib/fulvestrant	Everolimus/fulvestrant
 Dr Jhaveri	Alpelisib/fulvestrant	Everolimus/fulvestrant
 Dr Miller	Alpelisib/fulvestrant	Everolimus/fulvestrant
 Dr Partridge	Alpelisib/fulvestrant, or possibly T-DXd	Everolimus/exemestane, or possibly T-DXd
 Dr Telli	Alpelisib/fulvestrant	Fulvestrant +/- exemestane
 Dr Tolaney	Alpelisib/fulvestrant	Everolimus/fulvestrant

T-DXd = trastuzumab deruxtecan

Following the recent FDA approval of the oral SERD elacestrant for postmenopausal women or men with ER-positive, HER2-negative, ESR1-mutated advanced breast cancer with disease progression after at least 1 line of endocrine therapy, in what situations, if any, do you plan to use this agent?



*Also PIK3CA wild type

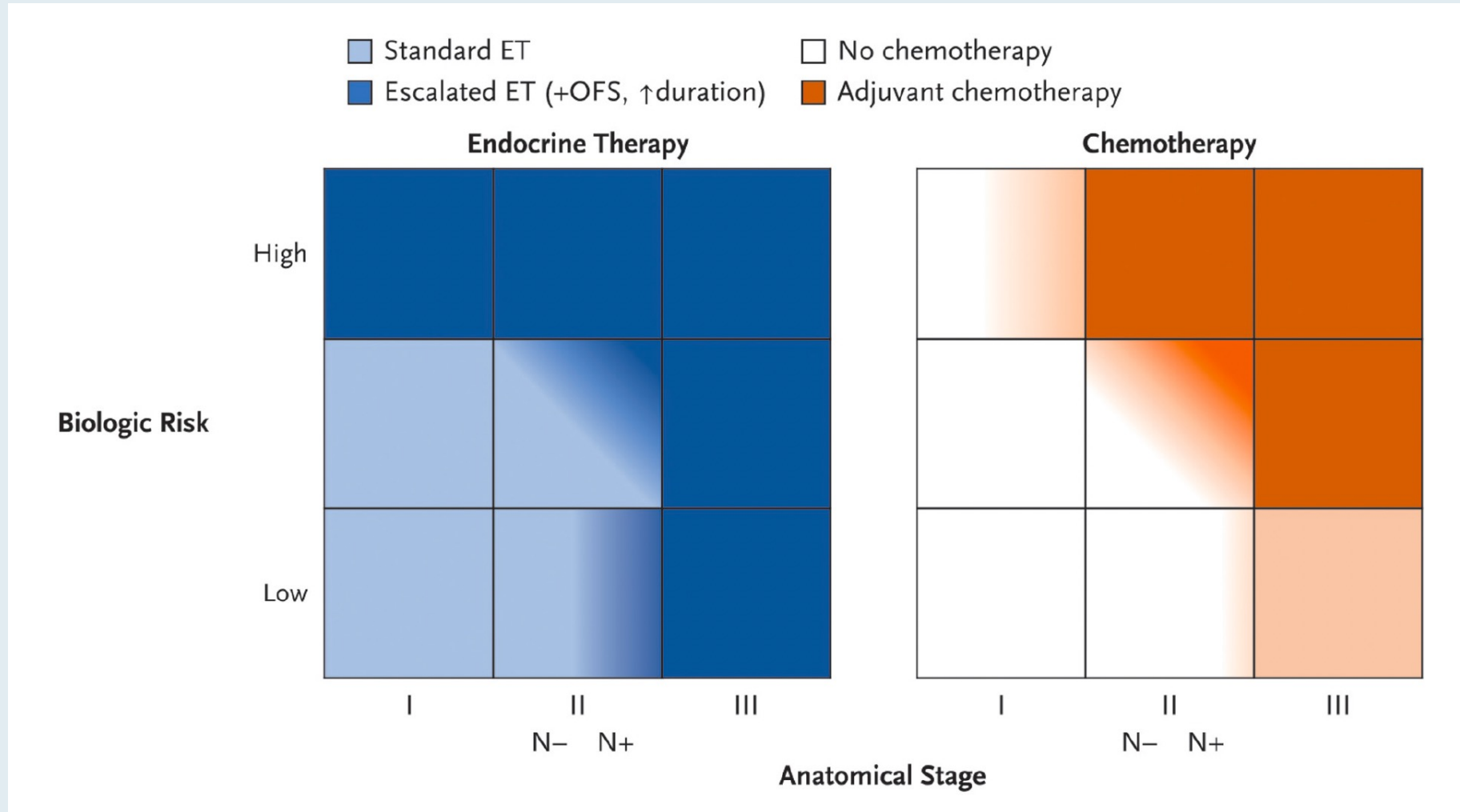
***Cancer* 2022 June 1;128 Suppl 11:2209-23.**

Original Article

A look at current and potential treatment approaches for hormone receptor-positive, HER2-negative early breast cancer

Nadia Harbeck, MD, PhD¹; Harold J. Burstein, MD, PhD²; Sara A. Hurvitz, MD^{3,4}; Stephen Johnston, MA, PhD, FRCP⁵; and Gregory A. Vidal, MD, PhD^{6,7}

Model of Treatment Decision-Making for Patients with HR-Positive Localized Breast Cancer



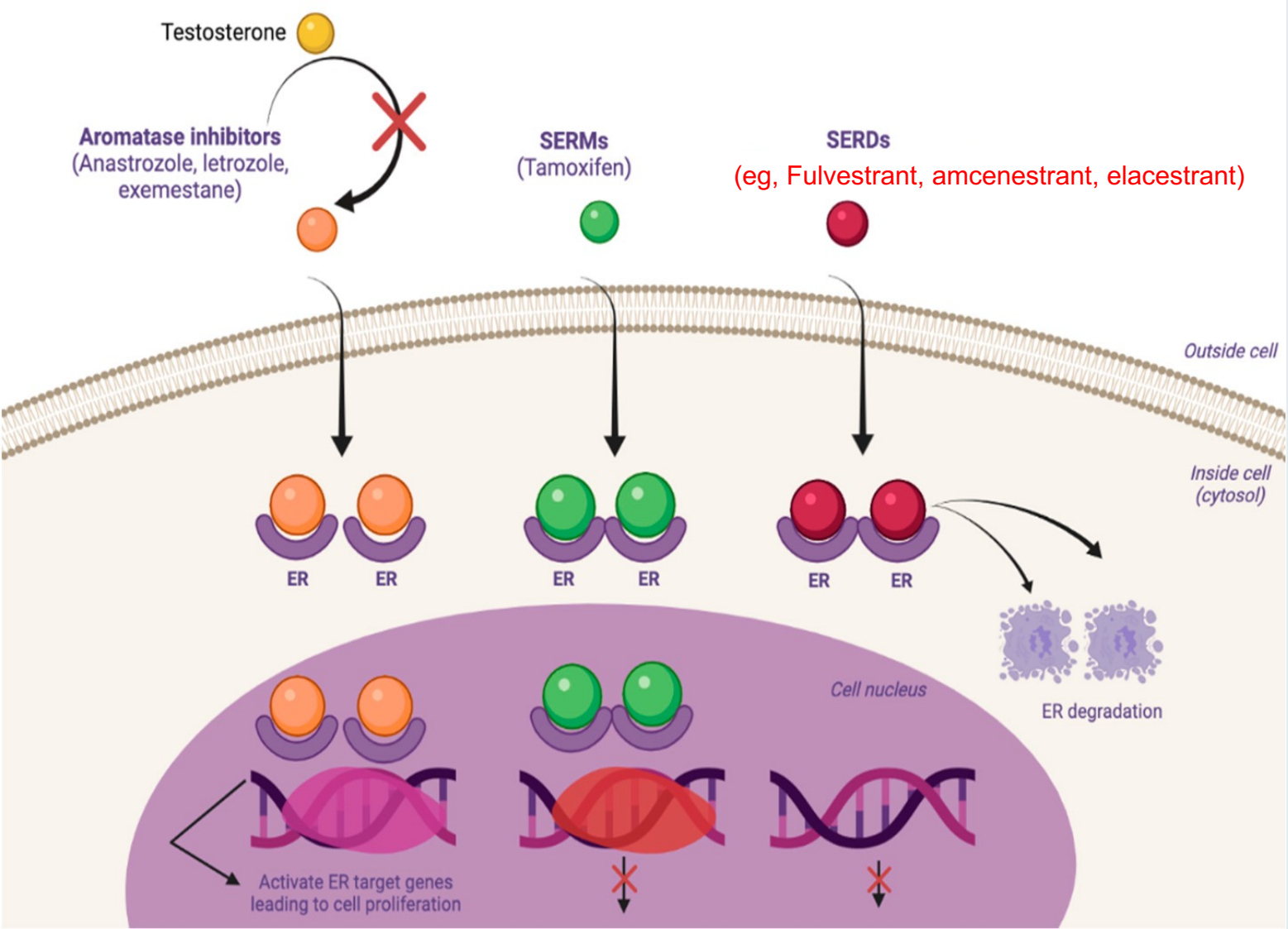
Phase III NATALEE Trial of Ribociclib Meets Its Primary Endpoint at Interim Analysis Demonstrating a Clinically Meaningful Benefit in a Broad Population of Patients with Localized Breast Cancer

Press Release: March 27, 2023

- “• *NATALEE is the first and only positive Phase III study of a CDK4/6 inhibitor demonstrating consistent benefit in a broad population of patients with Stage II and III HR+/HER2- early breast cancer (EBC) at risk of recurrence, including those with no nodal involvement*
- *Approximately 30% to 60% of people with HR+/HER2- Stage II and III EBC treated with ET only remain at risk of breast cancer recurrence*

Positive topline results [were announced] from an interim analysis of NATALEE, a Phase III trial evaluating ribociclib plus endocrine therapy (ET) in a broad population of patients with hormone receptor-positive/human epidermal growth factor receptor 2-negative (HR+/HER2-) early breast cancer (EBC) at risk of recurrence. The Independent Data Monitoring Committee recommended stopping the trial early as the primary endpoint of invasive disease-free survival (iDFS) has been met. Ribociclib plus ET significantly reduced the risk of disease recurrence, compared to standard adjuvant ET alone, with consistent benefit in patients with stage II and stage III EBC regardless of nodal involvement.”

Mechanism of Action of Different Endocrine Therapies

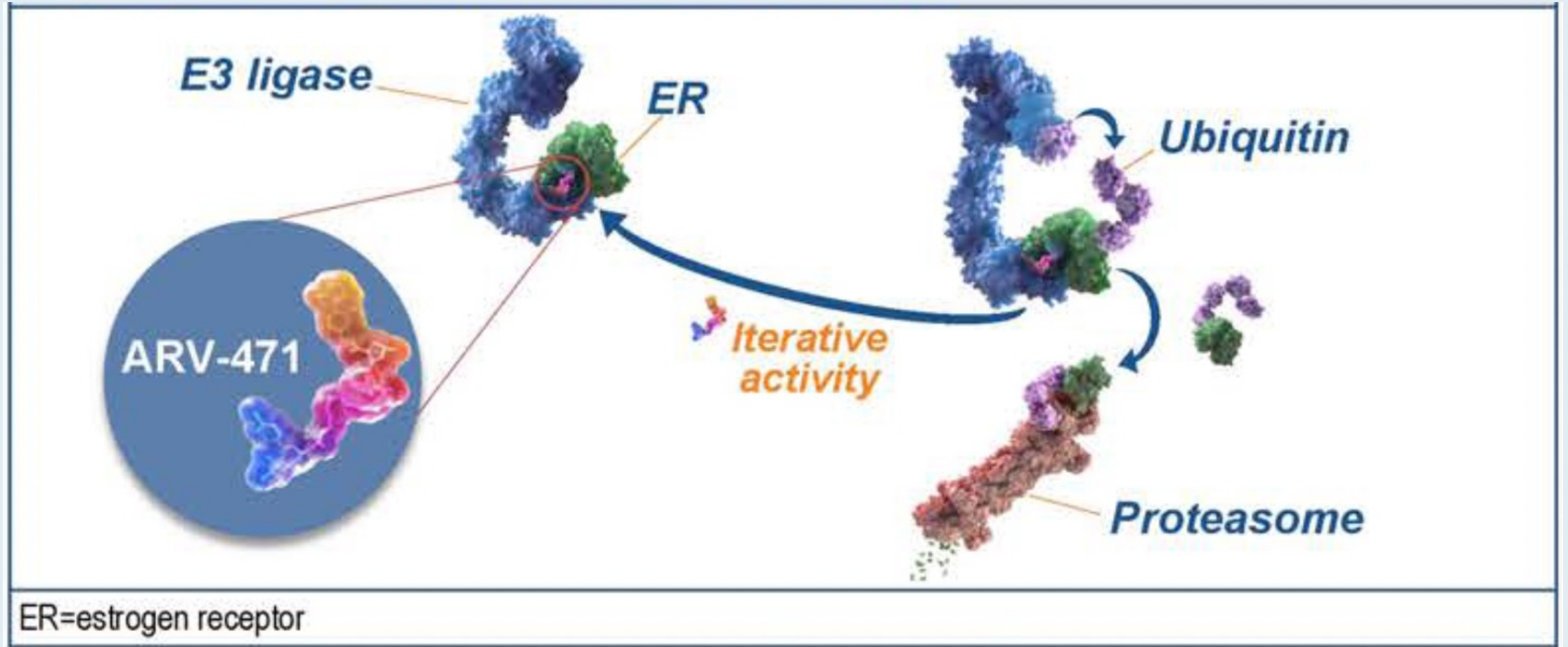


**ARV-471, an Estrogen Receptor (ER) PROTAC
Degradar, Combined with Palbociclib in
Advanced ER+/Human Epidermal Growth Factor
Receptor 2-Negative (HER2-) Breast Cancer:
Phase 1b Cohort (Part C) of a Phase 1/2 Study**

Hamilton EP et al.

ASCO 2022;Abstract TPS1120.

ARV-471 Mechanism of Action



2022 March 10;14:17588359221081077



Therapeutic Advances in Medical Oncology

Oncotype DX Recurrence Score in premenopausal women

Shiliang Zhang, Kasey C. Fitzsimmons and Sara A. Hurvitz

Timeline of Key Studies Validating Oncotype DX 21-Gene Assay Recurrence Score and its Incorporation into Breast Cancer Treatment Guidelines

Key studies validating Oncotype DX RS

<p>Oncotype DX 21-gene assay recurrence score is launched.</p> <p>Retrospective analysis of NSABP B14:</p> <ul style="list-style-type: none"> RS is a prognostic indicator for likelihood of distant recurrence in tamoxifen treated node negative ER+ breast cancer <p>(Paik et al. 2004)</p>	<p>Retrospective analysis of NSABP B20:</p> <ul style="list-style-type: none"> RS not only quantifies likelihood of recurrence in node negative ER+ breast cancer but also predicts benefit from chemotherapy. <p>(Paik et al. 2006)</p>			<p>Retrospective analysis of SWOG 8814:</p> <ul style="list-style-type: none"> RS is a prognostic indicator for chemotherapy benefit depending on RS score in post-menopausal women with node positive ER+ breast cancer. <p>(Albain et al. 2010)</p>	<p>Retrospective analysis of TransATAC:</p> <ul style="list-style-type: none"> RS is a prognostic indicator for rate of distant recurrence in post-menopausal women with node positive ER+ breast cancer. <p>(Dowsett et al. 2010)</p>	<p>Retrospective analysis of ECOG 2197:</p> <ul style="list-style-type: none"> RS is a prognostic indicator for local and local-regional recurrence in ER+, node negative and node positive breast cancer. <p>(Solin et al. 2012)</p>		<p>Landmark prospective TAILORx trial</p> <ul style="list-style-type: none"> RS predicts chemotherapy benefit depending on RS risk category Pre-menopausal women with intermediate risk scores may derive significant benefit from chemotherapy <p>(Sparano et al. 2018)</p>		<p>Prospective RXPONDER trial:</p> <ul style="list-style-type: none"> RS predicts chemotherapy benefit in node positive patients depending on RS risk category. Pre-menopausal women with positive nodes derive significant benefit from chemotherapy <p>(Kalinsky et al. 2020)</p>
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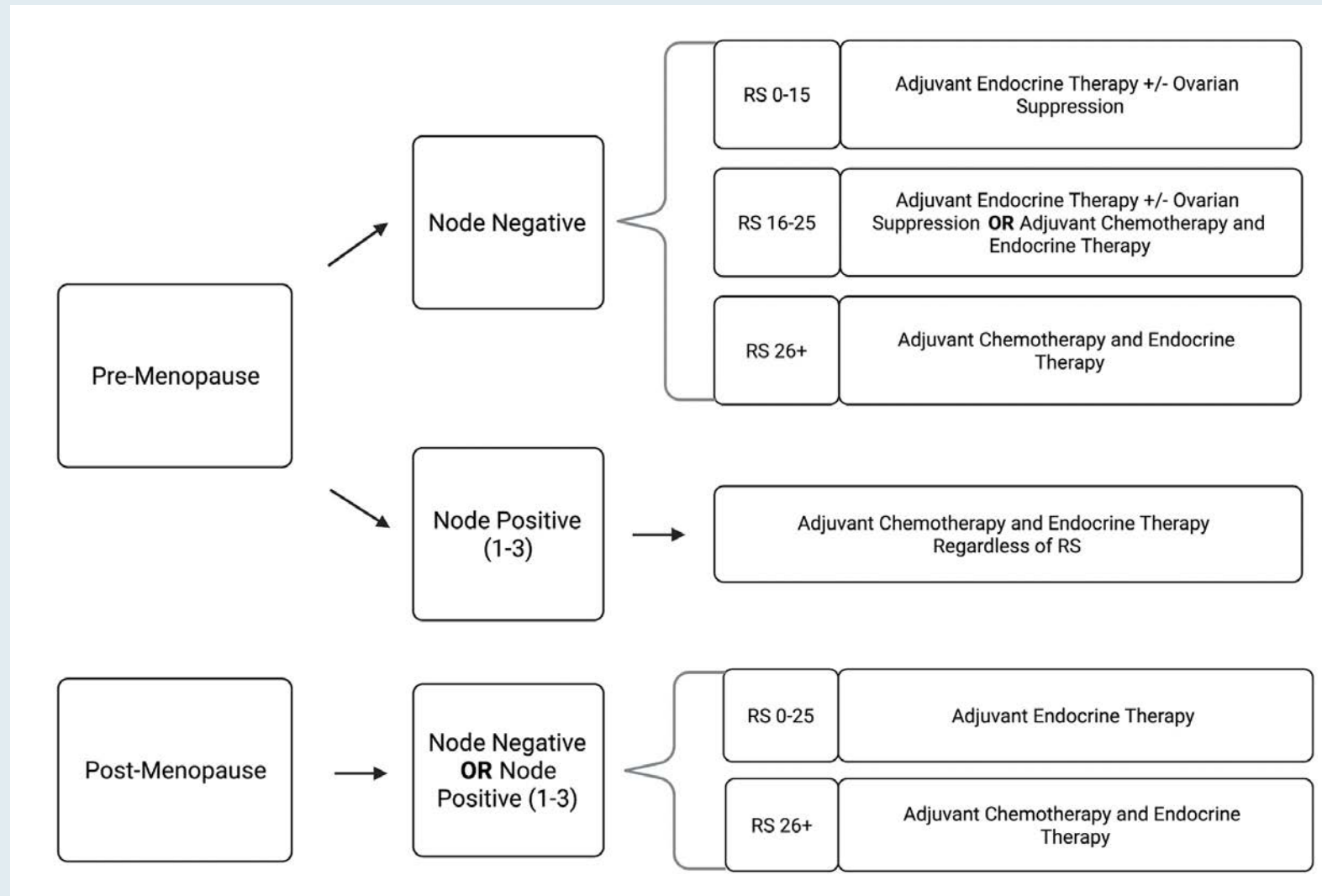
2004 **2006** **2007** **2008** **2009** **2010** **2012** **2017** **2018** **2019** **2020**

Clinical Practice Guidelines

<p>ASCO guidelines recommend patients with low RS may not require adjuvant chemotherapy in addition to endocrine therapy.</p>	<p>NCCN guidelines incorporate the use of RS in treatment decisions regarding addition of adjuvant chemotherapy.</p>						<p>NCCN guidelines incorporates RS in treatment decisions regarding addition of adjuvant chemotherapy in ER+ breast cancer with up to 3 positive nodes.</p>			<p>ASCO guidelines update to reflect TAILORx cut-offs when interpreting RS for treatment decisions regarding adjuvant chemotherapy in ER+, HER2-, node negative breast cancer</p>
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OncoType DX 21-Gene Assay Recurrence Score Interpretation for Premenopausal and Postmenopausal Women with Localized ER-Positive, HER2-Negative Breast Cancer



(OT2-03-02) lidERA Breast Cancer: A phase III adjuvant study of giredestrant (GDC-9545) vs physician's choice of endocrine therapy in patients with estrogen receptor+, HER2- early breast cancer

Schmid P et al.

SABCS 2022;Abstract OT-03-02.

2022 March 15;14:17588359221083956

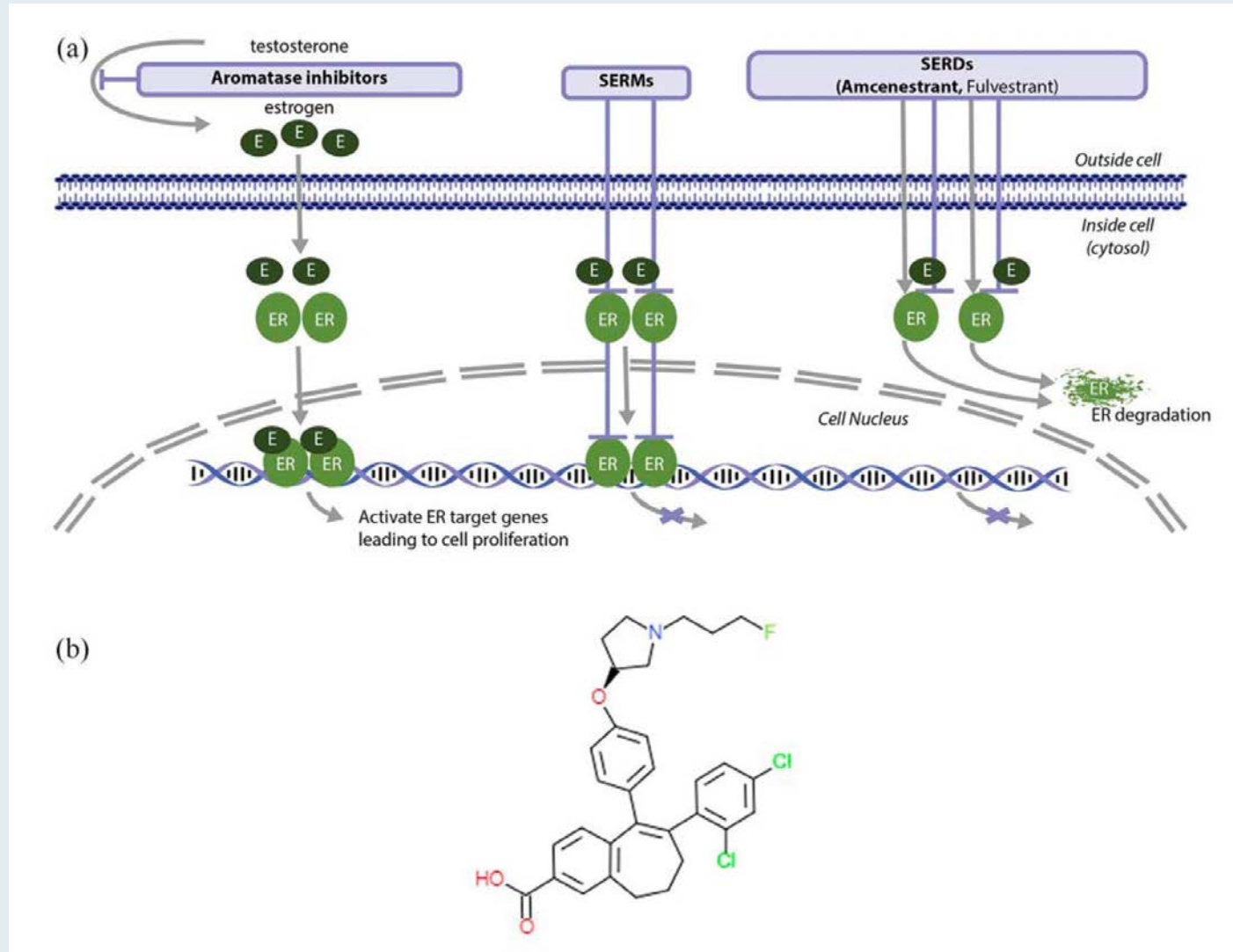


Therapeutic Advances in Medical Oncology

AMEERA-5: a randomized, double-blind phase 3 study of amcenenstrant plus palbociclib *versus* letrozole plus palbociclib for previously untreated ER⁺/HER2⁻ advanced breast cancer

Aditya Bardia , Javier Cortes , Sara A. Hurvitz, Suzette Delaloge, Hiroji Iwata, Zhi-Ming Shao, Dheepak Kanagavel, Patrick Cohen, Qianying Liu, Sylvaine Cartot-Cotton, Vasiliki Pelekanou* and Joyce O'Shaughnessy

Amcenenstrant, an Oral SERD, Antagonizes and Degrades the Estrogen Receptor, Resulting in Inhibition of the ER Signaling Pathway



Neoadjuvant Giredestrant (GDC-9545) plus Palbociclib (P) versus Anastrozole (A) plus P in Postmenopausal Women with Estrogen Receptor-Positive, HER2-Negative, Untreated Early Breast Cancer (ER+/HER2-eBC): Final Analysis of the Randomized, Open-Label, International Phase 2 coopERA BC Study

Fasching PA et al.

ASCO 2022;Abstract 589.

BIOMARKERS

original reports

Genomic Profiling of Premenopausal HR+ and HER2– Metastatic Breast Cancer by Circulating Tumor DNA and Association of Genetic Alterations With Therapeutic Response to Endocrine Therapy and Ribociclib

Aditya Bardia, MD¹; Fei Su, PhD²; Nadia Solovieff, PhD³; Seock-Ah Im, MD⁴; Joohyuk Sohn, MD⁵; Keun Seok Lee, MD⁶; Saul Campos-Gomez, MD⁷; Kyung Hae Jung, MD⁸; Marco Colleoni, MD⁹; Rafael Villanueva Vázquez, MD¹⁰; Fabio Franke, MD¹¹; Sara Hurvitz, MD¹²; Nadia Harbeck, MD¹³; Louis Chow, MD¹⁴; Tetiana Taran, MD²; Karen Rodriguez Lorenc, MD²; Naveen Babbar, PhD³; Debu Tripathy, MD¹⁵; and Yen-Shen Lu, MD¹⁶

Abstract GS3-02

Camizestrant, a next-generation oral SERD vs fulvestrant in post-menopausal women with advanced ER-positive HER2-negative breast cancer: Results of the randomized, multi-dose Phase 2 SERENA-2 trial

Mafalda Oliveira, MD, PhD¹, Denys Pominchuk, PhD², Zbigniew Nowecki MD³, Erika Hamilton, MD⁴, Yaroslav Kulyaba, MD⁵, Timur Andabekov, PhD⁶, Yevhen Hotko, MD⁷, Tamar Melkadze, MD⁸, Gia Nemsadze, MD, PhD⁹, Patrick Neven, MD¹⁰, Yuriy Semegen, MD¹¹, Vladimir Vladimirov, MD¹², Claudio Zamagni, MD¹³, Hannelore Denys, MD, PhD¹⁴, Frédéric Forget, MD¹⁵, Zsolt Horvath, MD, PhD¹⁶, Alfiya Nesterova, MD, PhD¹⁷, Maxine Bennett, PhD¹⁸, Bistra Kirova, MBChB, MSc¹⁹, Teresa Klinowska, PhD²⁰, Justin P O Lindemann, MBChB, MB¹⁸, Delphine Lissa, PharmD, PhD¹⁸, Alastair Mathewson, PhD¹⁸, Christopher J Morrow, PhD¹⁸, Zuzana Traugottova, MD²¹, Ruaan van Zyl, PhD²², Ekaterine Arkania, MD²³

¹Medical Oncology Department, Vall d'Hebron University Hospital and Breast Cancer Group, Vall d'Hebron Institute of Oncology, Barcelona, Spain; ²Medical Center Verum, Kyiv, Ukraine; ³The Maria Sklodowska Curie Memorial Cancer Center and Institute of Oncology, Warsaw, Poland; ⁴Sarah Cannon Research Institute/Tennessee Oncology, Nashville, TN, USA; ⁵Makiivka City Hospital of Donetsk Region, Makiivka, Ukraine; ⁶AV Medical Group, St Petersburg, Russian Federation; ⁷Central City Hospital, Uzhgorod National University, Uzhgorod, Ukraine; ⁸Oncology and Hematology Department, Academician Fridon Todua Medical Center – Research Institute of Clinical Medicine Tbilisi, Georgia; ⁹The Institute of Clinical Oncology, Tbilisi, Georgia; ¹⁰Multidisciplinary Breast Center, University Hospitals Leuven – Campus Gasthuisberg, Leuven, Belgium; ¹¹Bukovynsky Clinical Oncology Center, Chernivtsi, Ukraine; ¹²Pyatigorsk Oncology Dispensary, Pyatigorsk, Russia; ¹³IRCCS Azienda Ospedaliero-Universitaria di Bologna, Bologna, Italy; ¹⁴Department of Medical Oncology, Ghent University Hospital, Belgium; ¹⁵Centre Hospitalier de l'Ardenne-Site de Libramont, Libramont-Chevigny, Belgium; ¹⁶Center of Onco-radiology, Bács-Kiskun County Teaching Hospital, Kecskemét, Hungary; ¹⁷Republican Clinical Oncology Dispensary of the Ministry of Health of the Republic of Tatarstan, Russian Federation; ¹⁸Research and Early Development, Oncology R&D, AstraZeneca, Cambridge, UK; ¹⁹Oncology Patient Safety, Oncology R&D, AstraZeneca, Cambridge, UK; ²⁰Late Development, Oncology R&D, AstraZeneca, Cambridge, UK; ²¹Parexel International, Prague, Czech Republic; ²²Parexel International, Bloemfontein, South Africa; ²³Helsicore Israeli Georgian Medical Research Clinic, Tbilisi, Georgia.

Select Ongoing Phase III Trials of Oral SERDs in Development for HR-Positive Advanced Breast Cancer (ABC)

Trial	N	Randomization	Setting	Est primary completion
SERENA-4	1,342	<ul style="list-style-type: none"> Camizestrant + palbociclib Anastrozole + palbociclib 	Untreated ABC	August 2026
persevERA	978	<ul style="list-style-type: none"> Giredestrant + palbociclib Letrozole + palbociclib 	Untreated ABC	April 2024
SERENA-6	302	<ul style="list-style-type: none"> Camizestrant + (palbociclib or abemaciclib) (Anastrozole or letrozole) + (palbociclib or abemaciclib) 	Detectable ESR1 mutation w/o PD during 1 st -line AI + CDK4/6i	Sept 2023
EMBER-3	860	<ul style="list-style-type: none"> Imlunestrant Imlunestrant + abemaciclib Investigator's choice of ET 	ABC previously treated with ET + CDK4/6i	April 2024
evERA	320	<ul style="list-style-type: none"> Giredestrant + everolimus Exemestane + everolimus 	ABC previously treated with ET + CDK4/6i	July 2024
heredERA	812	<ul style="list-style-type: none"> Giredestrant + pertuzumab/trastuzumab/hyaluronidase-zzxf Pertuzumab/trastuzumab/hyaluronidase-zzxf 	Untreated ER+, HER2+ ABC after first-line pertuzumab/trastuzumab/hyaluronidase-zzxf + taxane	August 2026

SERD = selective ER degrader

Ongoing Phase III Trials of Adjuvant Oral SERDs for HR-Positive, HER2-Negative Localized Breast Cancer

Study	N	Setting	Randomization
lidERA	4,100	<ul style="list-style-type: none"> • Node-negative or node-positive 	<ul style="list-style-type: none"> • Giredestrant +/- LHRH agonist • ET of physician's choice +/- LHRH agonist
EMBER-4	6,000	<ul style="list-style-type: none"> • Elevated risk of recurrence after definitive treatment • Completion of at least 2 years and up to 5 years of ET • Previous adjuvant CDK4/6i or PARPi allowed 	<ul style="list-style-type: none"> • Imlunestrant • ET of physician's choice
EORTC-2129-BCG	220	<ul style="list-style-type: none"> • Elevated risk of recurrence after definitive treatment • Completion of at least 2 years and up to 7 years of ET • ctDNA-positive • Previous adjuvant CDK4/6i or PARPi allowed 	<ul style="list-style-type: none"> • Elacestrant • Tamoxifen or aromatase inhibitor at time of ctDNA detection

ctDNA = circulating tumor DNA

Lancet Oncol 2022 July;23(7):851-64.

Fulvestrant plus capivasertib versus placebo after relapse or progression on an aromatase inhibitor in metastatic, oestrogen receptor-positive, HER2-negative breast cancer (FAKTION): overall survival, updated progression-free survival, and expanded biomarker analysis from a randomised, phase 2 trial



Sacha J Howell, Angela Casbard*, Margherita Carucci, Kate Ingarfield, Rachel Butler, Sian Morgan, Magdalena Meissner, Catherine Bale, Pavel Bezecny, Sarah Moon, Chris Twelves, Ramachandran Venkitaraman, Simon Waters, Elza C de Bruin, Gaia Schiavon, Andrew Foxley, Robert H Jones*

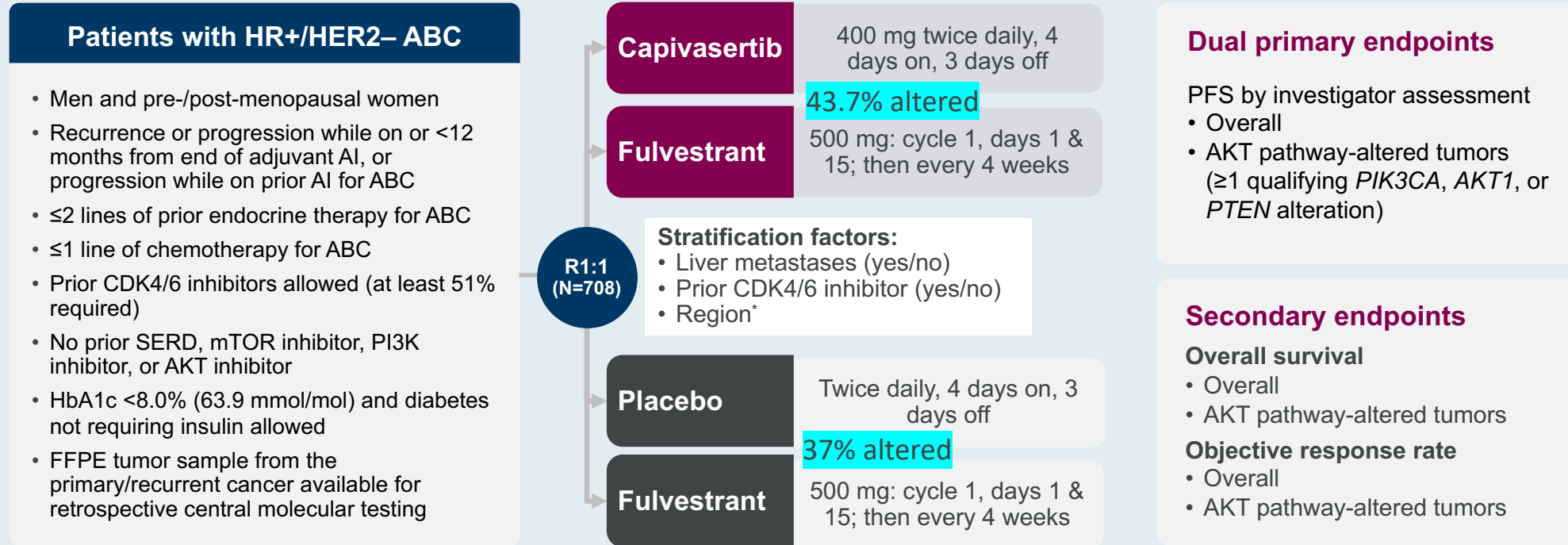


Capivasertib and Fulvestrant for Patients with Aromatase Inhibitor-Resistant Hormone Receptor-Positive/Human Epidermal Growth Factor Receptor 2-Negative Advanced Breast Cancer: Results from the Phase III CAPItello-291 Trial

Turner NC et al.

SABCS 2022;Abstract GS3-04.

CAPitello-291 Phase III Study Design



Summary of Demographics

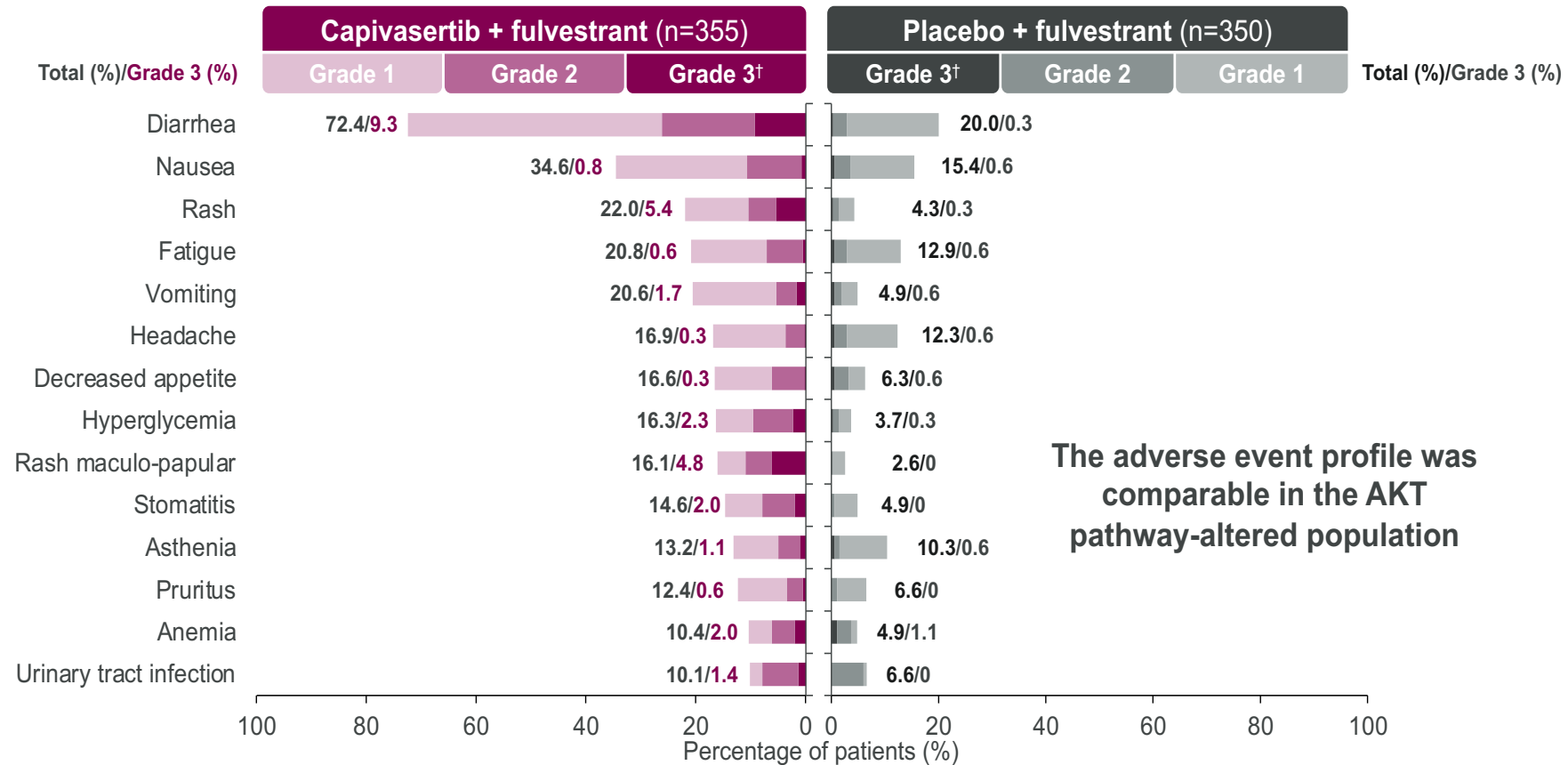
- Median age ~59
- Asian 26%, Black 1%
- Primary ET resistance ~38%
- Visceral metastases ~68%
- One line of prior ET for mBC ~75%
- Prior CDK4/6i for mBC ~70%
- Chemotherapy for ABC ~18%

CAPitello-291: Overall Response per Investigator Assessment

	Overall population		AKT pathway-altered population	
	Capivasertib + fulvestrant	Placebo + fulvestrant	Capivasertib + fulvestrant	Placebo + fulvestrant
Patients with measurable disease at baseline	310	320	132	124
Objective response rate; n (%)	71 (22.9)	39 (12.2)	38 (28.8)	12 (9.7)
Odds ratio (95% CI)	2.19 (1.42, 3.36)		3.93 (1.93, 8.04)	

CAPitello-291: Safety

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



The adverse event profile was comparable in the AKT pathway-altered 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 shown were Grade 3 except one case of Grade 4 hyperglycemia in the capivasertib + fulvestrant arm.

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CAPitello-292 Phase III Study Design

Estimated enrollment (N = 700)

- ER-positive, HER2-negative locally advanced unresectable or metastatic breast cancer
- Previous treatment with ET (tamoxifen or AI) as a single agent or in combination with
 - Radiological evidence of breast cancer recurrence or PD while on or within 12 months of completing a neoadjuvant ET regimen OR
 - Radiological evidence of PD while receiving the ET for locally advanced or metastatic breast cancer



**Capivasertib + fulvestrant
+ palbociclib**

**Placebo + fulvestrant
+ palbociclib**

Primary endpoint: Investigator-assessed PFS

Secondary endpoints: OS, PFS by subgroups, PFS2, objective response rate, duration of response, clinical benefit rate, quality of life, safety

Case Presentation: 70-year-old woman with ER/PR-positive, HER2-low (IHC 1+) metastatic IDC receiving T-DXd with mixed response



Dr Gigi Chen (Pleasant Hill, California)

Regulatory and reimbursement issues aside, what would be your most likely next therapy for a symptomatic patient with ER-positive, HER2-low breast cancer and diffuse bone pain who has experienced disease progression on adjuvant AC → T followed by an AI, then a CDK4/6 inhibitor and fulvestrant for metastatic disease?



*If disease controlled ≥ 12 mo, would try another line of hormone therapy with everolimus or alpelisib; if disease controlled < 12 mo, would use capecitabine

**Trastuzumab deruxtecan (T-DXd)
vs treatment of physician's choice in patients with
HER2-low unresectable and/or metastatic breast cancer:
Results of DESTINY-Breast04, a randomized, phase 3 study**

Shanu Modi Memorial Sloan Kettering Cancer Center, Memorial Hospital, New York, NY, USA

June 5, 2022

Additional authors: William Jacot, Toshinari Yamashita, Joo Hyuk Sohn, Maria Vidal, Eriko Tokunaga, Junji Tsurutani, Naoto Ueno, Yee Soo Chae, Keun Seok Lee, Naoki Niiikura, Yeon Hee Park, Xiaojia Wang, Binghe Xu, Dhiraj Gambhire, Lotus Yung, Gerold Meinhardt, Yibin Wang, Nadia Harbeck, David Cameron

On behalf of the DESTINY-Breast04 investigators

The NEW ENGLAND
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JULY 7, 2022

VOL. 387 NO. 1

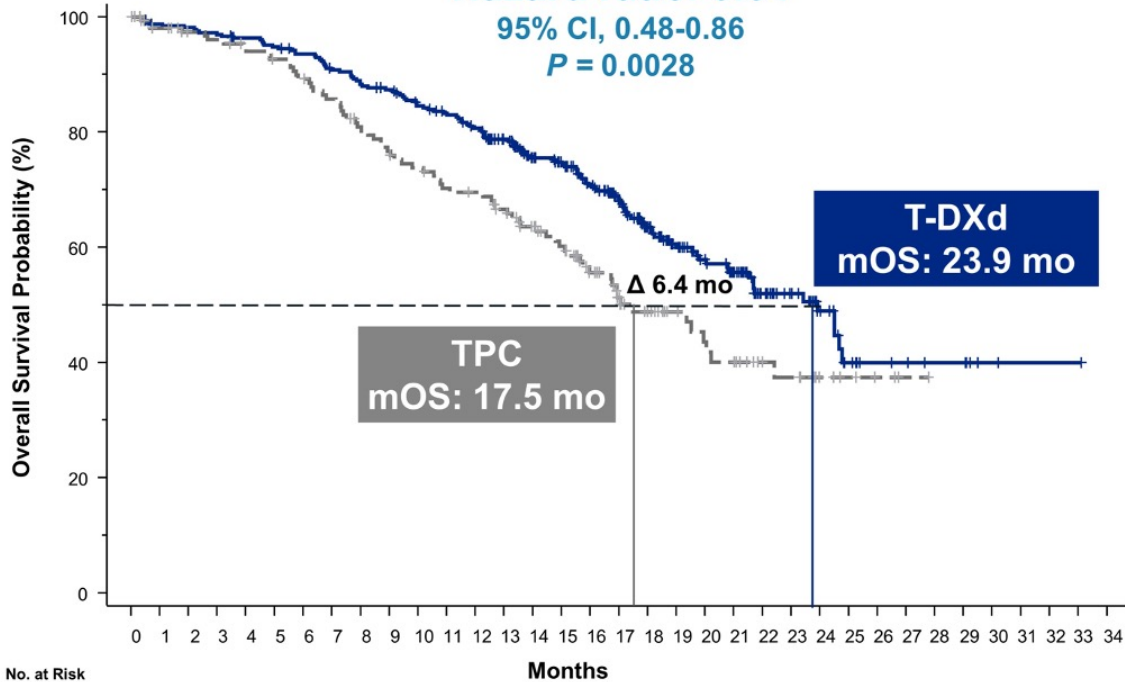
**Trastuzumab Deruxtecan in Previously Treated HER2-Low
Advanced Breast Cancer**

S. Modi, W. Jacot, T. Yamashita, J. Sohn, M. Vidal, E. Tokunaga, J. Tsurutani, N.T. Ueno, A. Prat, Y.S. Chae, K.S. Lee, N. Niiikura, Y.H. Park, B. Xu, X. Wang, M. Gil-Gil, W. Li, J.-Y. Pierga, S.-A. Im, H.C.F. Moore, H.S. Rugo, R. Yerushalmi, F. Zagouri, A. Gombos, S.-B. Kim, Q. Liu, T. Luo, C. Saura, P. Schmid, T. Sun, D. Gambhire, L. Yung, Y. Wang, J. Singh, P. Vitazka, G. Meinhardt, N. Harbeck, and D.A. Cameron, for the DESTINY-Breast04 Trial Investigators*

DESTINY-Breast04: Overall Survival (OS) for HR-Positive and All Patients

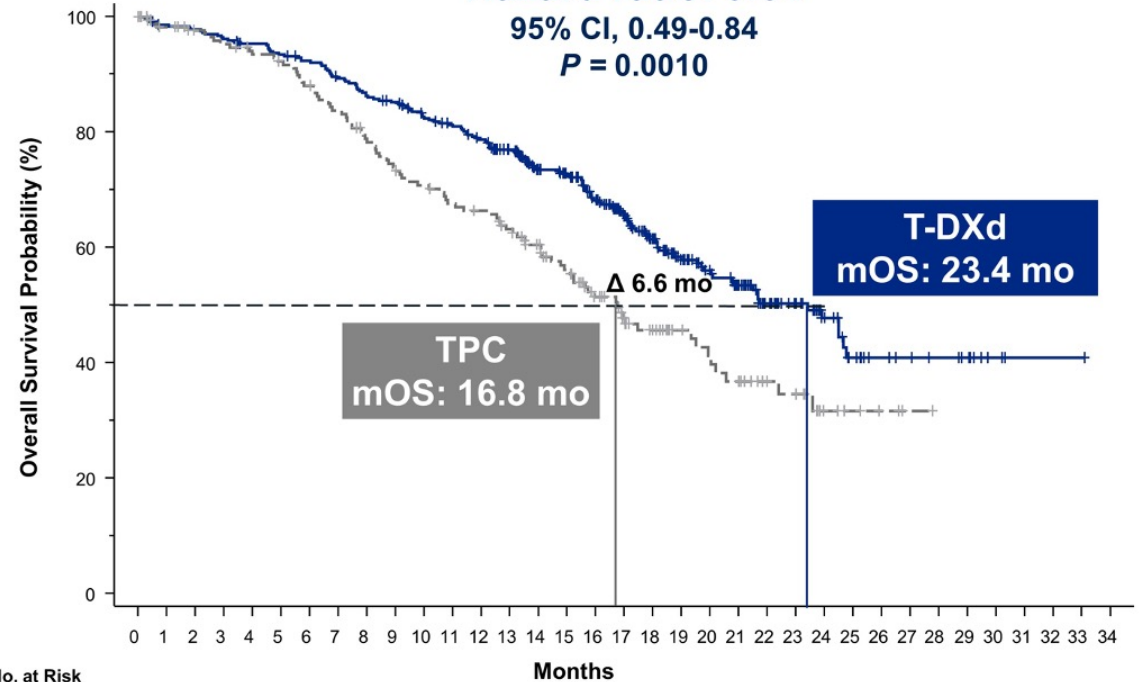
Hormone receptor–positive

Hazard ratio: 0.64
95% CI, 0.48-0.86
P = 0.0028



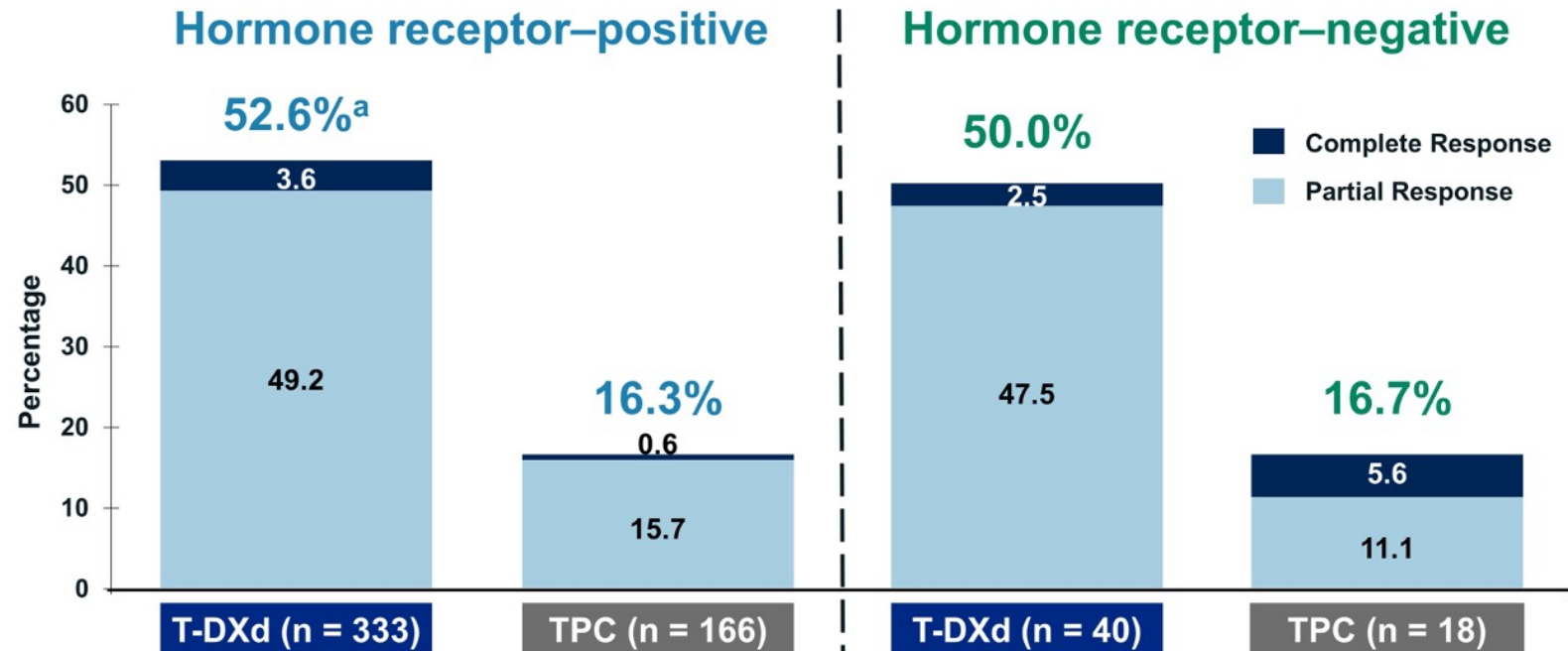
All patients

Hazard ratio: 0.64
95% CI, 0.49-0.84
P = 0.0010



mOS = median overall survival

DESTINY-Breast04: Confirmed Objective Response Rate



Progressive disease, %	7.8	21.1	12.5	33.3
Not evaluable, %	4.2	12.7	7.5	5.6
Clinical benefit rate,^b %	71.2	34.3	62.5	27.8
Duration of response, months	10.7	6.8	8.6	4.9

DESTINY-Breast04: Response and Survival with T-DXd in the HR-Negative Population

	All patients			Hormone receptor-negative		
	T-DXd (N = 373)	TPC (N = 184)	HR (p-value)	T-DXd (N = 40)	TPC (N = 18)	Hazard ratio
Median PFS	9.9 mo	5.1 mo	0.5 (<0.001)	8.5 mo	2.9 mo	0.46
Median OS	23.4 mo	16.8 mo	0.64 (0.001)	18.2 mo	8.3 mo	0.48
Objective response rate	52.3%	16.3%	—	50.0%	16.7%	—

Case Presentation: 48-year-old woman with multicentric gBRCA1-mutant TNBC who receives treatment per KEYNOTE-522 and achieves a CR to neoadjuvant treatment



Dr Zanetta Lamar (Naples, Florida)

Case Presentation: 50-year-old premenopausal woman with bilateral ER/PR-positive, HER2-negative, PALB2-mutant IDC and multiple, bilateral positive nodes









Dr William Mitchell (Charlotte, North Carolina)

Case Presentation: 46-year-old woman with ER/PR-positive, HER2-negative, gBRCA1-mutant metastatic breast cancer receiving fulvestrant/palbociclib



Dr Nasfat Shehadeh (Charlotte, North Carolina)

Regulatory and reimbursement issues aside, in general, what would you recommend as adjuvant therapy for a patient with TNBC, a germline BRCA mutation and a PD-L1 combined positive score (CPS) of 1 who has residual disease after neoadjuvant chemotherapy? Does level of PD-L1 expression have any bearing on your response?

	Adjuvant therapy	PD-L1 expression a factor?
 Dr Hurvitz	Olaparib for 1 year*	No
 Dr Jhaveri	Olaparib + pembrolizumab	No
 Dr Miller	Capecitabine + olaparib for 1 year*	No
 Dr Partridge	Olaparib for 1 year + or followed by pembrolizumab	No
 Dr Telli	Olaparib for 1 year*	No
 Dr Tolaney	Olaparib for 1 year*	No

*If patient received neoadjuvant pembrolizumab, I would complete pembrolizumab in combination with olaparib

Regulatory and reimbursement issues aside, have you attempted or would you attempt to access olaparib as part of adjuvant therapy for a patient with a somatic BRCA mutation and TNBC who has residual disease after neoadjuvant chemotherapy?

 Dr Hurvitz	I haven't but would for the right patient	 Dr Partridge	I haven't and would not
 Dr Jhaveri	I have	 Dr Telli	I haven't*
 Dr Miller	I have	 Dr Tolaney	I haven't but would for the right patient

*I do not order tumor NGS in the curative setting

Regulatory and reimbursement issues aside, have you attempted or would you attempt to access olaparib as part of adjuvant therapy for a patient with a germline PALB2 mutation and TNBC who has residual disease after neoadjuvant chemotherapy?



Dr Hurvitz

I haven't but would for the right patient



Dr Partridge

I haven't but would for the right patient



Dr Jhaveri

I haven't but would for the right patient



Dr Telli

I haven't but would for the right patient



Dr Miller

I haven't but would for the right patient



Dr Tolaney

I have

Regulatory and reimbursement issues aside, have you combined or would you combine olaparib with adjuvant pembrolizumab for a patient with a germline BRCA mutation and PD-L1-positive TNBC who has residual disease after neoadjuvant chemotherapy/pembrolizumab?



Dr Hurvitz

I have



Dr Partridge

I haven't but would for the right patient



Dr Jhaveri

I have



Dr Telli

I have



Dr Miller

I have



Dr Tolaney

I have

A 45-year-old woman with an ER-negative, HER2-low (IHC 2+) IDC and a germline BRCA mutation receives neoadjuvant AC-T and adjuvant capecitabine for residual disease and now presents with low-volume metastases to the lung and bones (PD-L1 CPS = 0). Regulatory and reimbursement issues aside, what would likely be your next systemic therapy?



IDC = infiltrating ductal carcinoma; CPS = combined positive score

2022 April 1;28(7):1383-90.

CLINICAL CANCER RESEARCH | PRECISION MEDICINE AND IMAGING

Determinants of Response to Talazoparib in Patients with HER2-Negative, Germline *BRCA1/2*-Mutated Breast Cancer

Joanne L. Blum¹, A. Douglas Laird², Jennifer K. Litton³, Hope S. Rugo⁴, Johannes Ettl⁵, Sara A. Hurvitz⁶, Miguel Martin⁷, Henri H. Roché⁸, Kyung-Hun Lee⁹, Annabel Goodwin¹⁰, Ying Chen², Silvana Lanzalone¹¹, Jijumon Chelliserry², Akos Czibere¹², Julia F. Hopkins¹³, Lee A. Albacker¹³, and Lida A. Mina¹⁴

Case Presentation: 36-year-old woman who is 18 weeks pregnant with ER/PR-positive, HER2-negative IDC and an *Oncotype* DX RS of 17



Dr Alan Astrow (Brooklyn, New York)

Case Presentation: 49-year-old woman with ER/PR-positive, HER2-negative, NTRK-mutant metastatic breast cancer with CNS involvement who receives entrectinib



Dr Rahul Gosain (Corning, New York)

Case Presentation: 63-year-old woman with ER/PR-positive, HER2-negative metaplastic breast cancer with an *Oncotype* DX RS of 51 who has received adjuvant AI x 16 years



Dr Rajalaxmi McKenna (Willowbrook, Illinois)

Case Presentation: 73-year-old woman with ER/PR-positive, HER2-negative, node-negative breast cancer and an *Oncotype* DX RS of 29 who receives adjuvant TC and develops taxane-associated pain syndrome



Dr Jennifer Dallas (Charlotte, North Carolina)

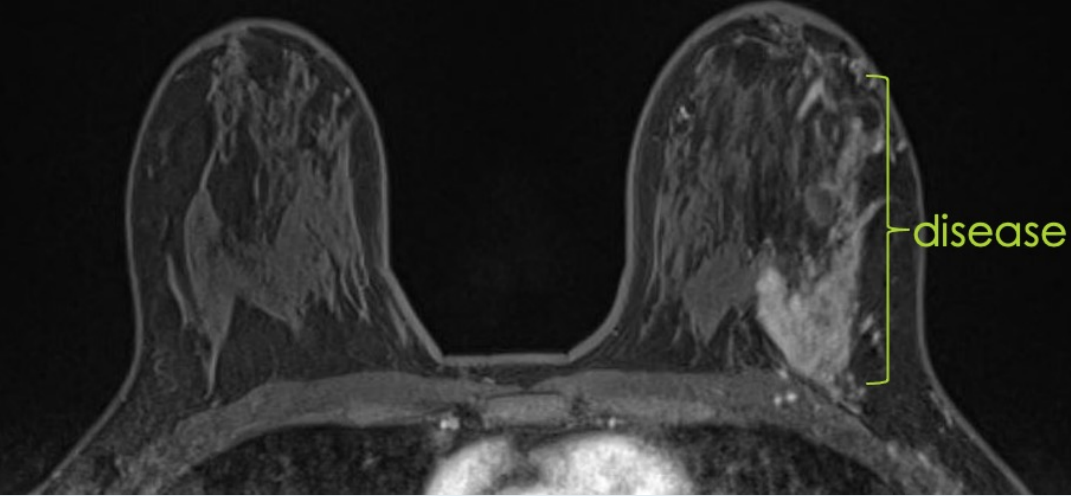
Case Presentation: 35-year-old woman with ER/PR-positive, HER2-negative, node-positive IDC and residual disease after neoadjuvant chemotherapy and mastectomy who receives adjuvant RT and abemaciclib with goserelin and letrozole



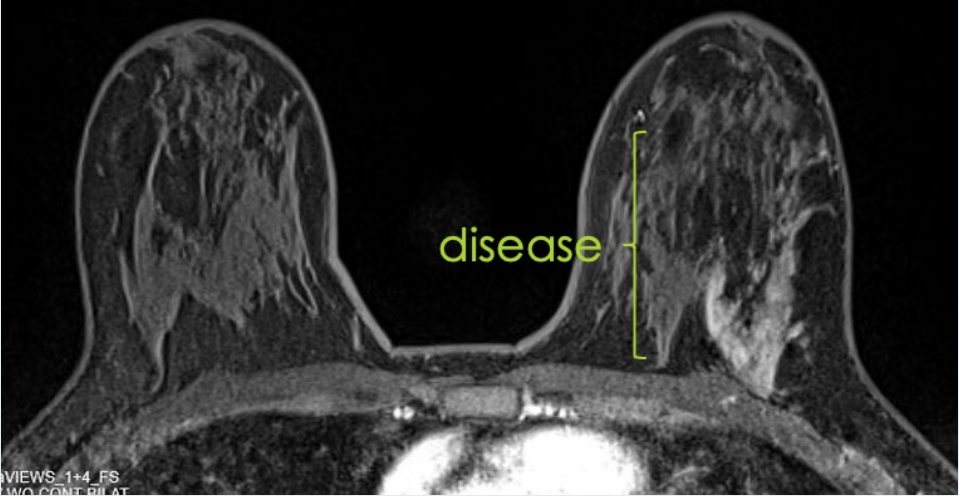
Dr Victoria Giffi (Hagerstown, Maryland)

MRI: Breast Disease

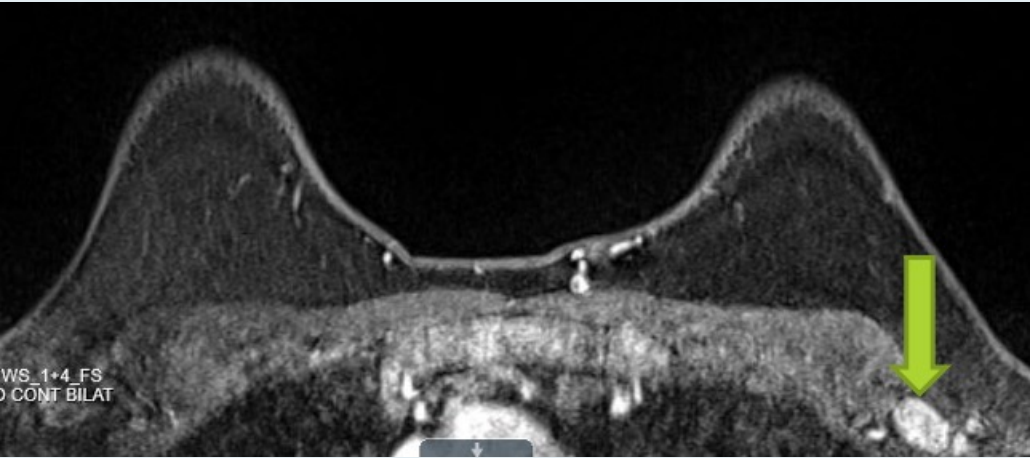
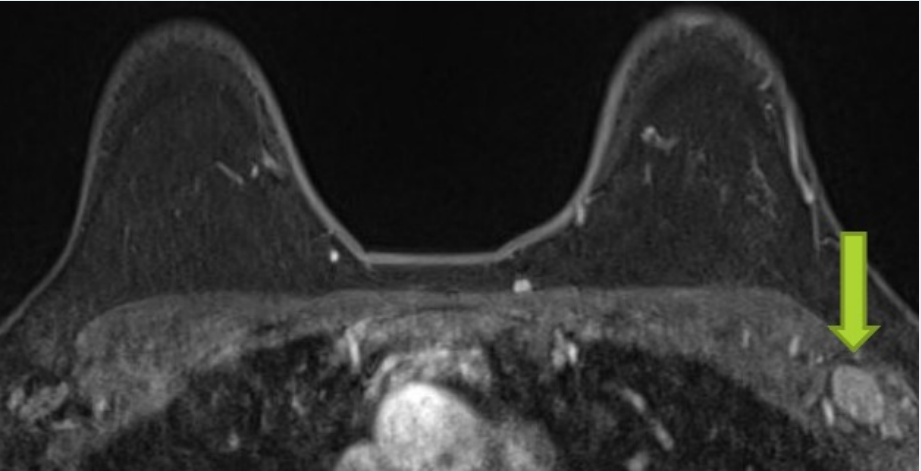
Before Treatment



After ddAC



MRI: Nodal Disease



Case Presentation: 35-year-old woman with ER/PR-positive, HER2-negative, node-positive IDC and residual disease after neoadjuvant chemotherapy and mastectomy who receives adjuvant RT and abemaciclib with goserelin and letrozole (continued)



Dr Victoria Giffi (Hagerstown, Maryland)

Meet The Professor with Dr Hurvitz

Introduction: Antibody-Drug Conjugates in Breast Cancer

MODULE 1: Case Presentations

Appendix

Indication Broadened for Abemaciclib in HR-Positive, HER2-Negative, High-Risk Localized Breast Cancer

Press Release: March 3, 2023

“The US Food and Drug Administration (FDA) approved an expanded indication for abemaciclib, in combination with endocrine therapy (ET), for the adjuvant treatment of adult patients with hormone receptor-positive (HR+), human epidermal growth factor receptor 2-negative (HER2-), node-positive, early breast cancer (EBC) at a high risk of recurrence. High risk patients eligible for abemaciclib can now be identified solely based on nodal status, tumor size, and tumor grade (4+ positive nodes, or 1-3 positive nodes and at least one of the following: tumors that are ≥ 5 cm or Grade 3). This expanded adjuvant indication removes the Ki-67 score requirement for patient selection.

This label expansion is supported by four-year data from the Phase 3 monarchE trial of adjuvant abemaciclib in combination with ET, which showed a deepened benefit in invasive disease-free survival (IDFS) beyond the two-year treatment course with adjuvant abemaciclib. The absolute difference in IDFS between treatment groups increased over time.”

San Antonio Breast Cancer Symposium – December 6-10, 2022

Trial Assigning Individualized Options for Treatment (TAILORx): An Update Including 12-Year Event Rates

Abstract GS1-05

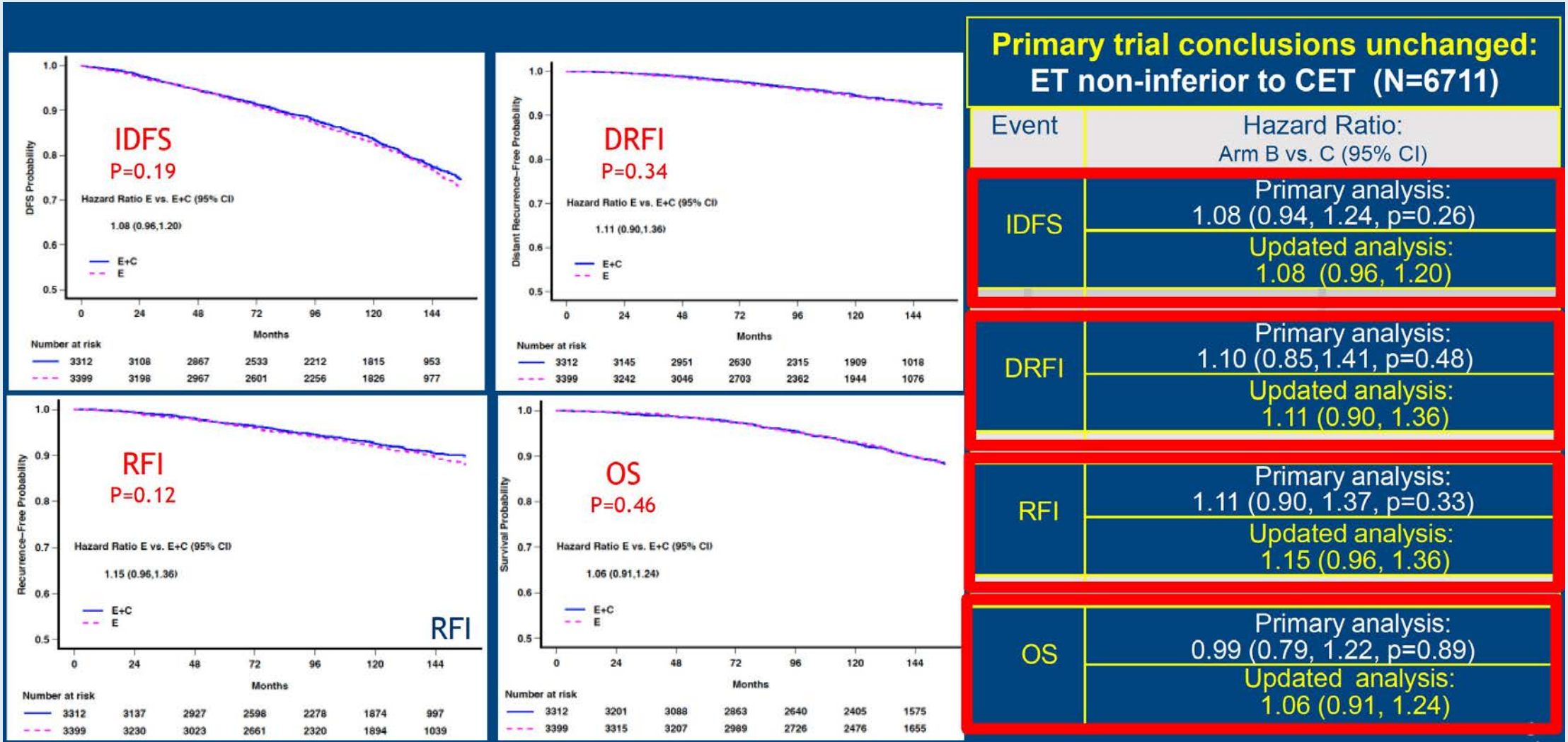
Joseph A. Sparano, Robert J. Gray, Della F. Makower, Kathy S. Albain, Daniel F. Hayes, Charles E. Geyer, Elizabeth Claire Dees, Matthew P. Goetz, John A. Olson, Jr., Tracy G. Lively, Sunil Badve, Thomas J. Saphner, Timothy J. Whelan, Virginia Kaklamani, & George W. Sledge, Jr.

on behalf of the TAILORx Investigators



Funding: U.S. NIH/NCI U10CA180820, U10CA180794, UG1CA189859, UG1CA190140, UG1CA233160, UG1CA23337, UG1CA189869; U.S. Postal Service Breast Cancer Stamp Fund; Canadian Cancer Society Research Institute grants 015469, 021039; Breast Cancer Research Foundation, Komen Foundation.

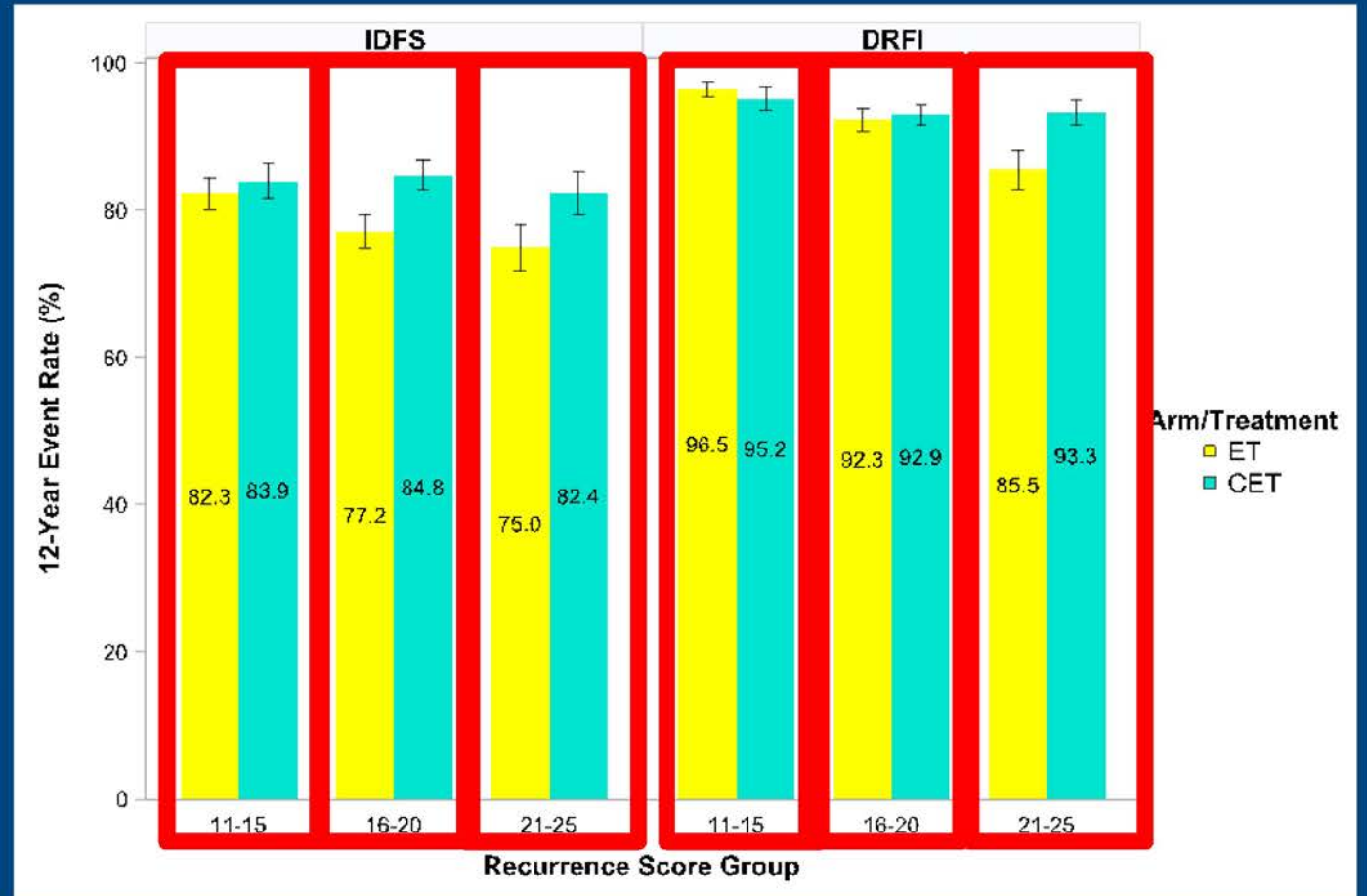
TAILORx Updated Analysis: Kaplan-Meier Curves in RS 11-25 Arms (ITT Population)



IDFS = invasive disease-free survival; DRFI = distant recurrence-free interval; RFI = recurrence-free interval; OS = overall survival

TAILORx Updated Analysis: Event Rates in RS 11-25 Arms for Age ≤50 Years (ITT Population)

- No chemo benefit for RS 11-15
- Marginal benefit for RS 16-20
- Evident benefit for RS 21-25



Adjuvant PARP Inhibitors in Patients With High-Risk Early-Stage HER2-Negative Breast Cancer and Germline *BRCA* Mutations: ASCO Hereditary Breast Cancer Guideline Rapid Recommendation Update

Nadine M. Tung, MD¹; Dana Zakalik, MD²; and Mark R. Somerfield, PhD³; for the Hereditary Breast Cancer Guideline Expert Panel

ASCO Rapid Recommendations Updates highlight revisions to select ASCO guideline recommendations as a response to the emergence of new and practice-changing data. The rapid updates are supported by an evidence review and follow the guideline development processes outlined in the ASCO Guideline Methodology Manual. The goal of these articles is to disseminate updated recommendations, in a timely manner, to better inform health practitioners and the public on the best available cancer care options.

ASCO 2021 Adjuvant PARP Inhibitor Updated Recommendations

- **For patients with localized, HER2-negative breast cancer** with high risk of recurrence and germline BRCA1 or BRCA2 pathogenic or likely pathogenic variants, 1 year of adjuvant olaparib should be offered after completion of (neo)adjuvant chemotherapy and local treatment, including radiation therapy.
- **For those who underwent surgery first**, 1 year of adjuvant olaparib should be offered for patients with triple-negative breast cancer and tumor size >2 cm or any involved axillary nodes.
- **For those with hormone receptor (HR)-positive disease**, 1 year of adjuvant olaparib should be offered to those with at least 4 involved axillary lymph nodes.
- **For patients who received neoadjuvant chemotherapy**, 1 year of adjuvant olaparib should be offered to patients with triple-negative breast cancer and any residual cancer; **for patients with HR-positive disease**, 1 year of adjuvant olaparib should be offered to patients with residual disease and a clinical stage, pathologic stage, estrogen receptor and tumor grade score ≥ 3 .

Abstract VP1-2022

ESMO VIRTUAL PLenary

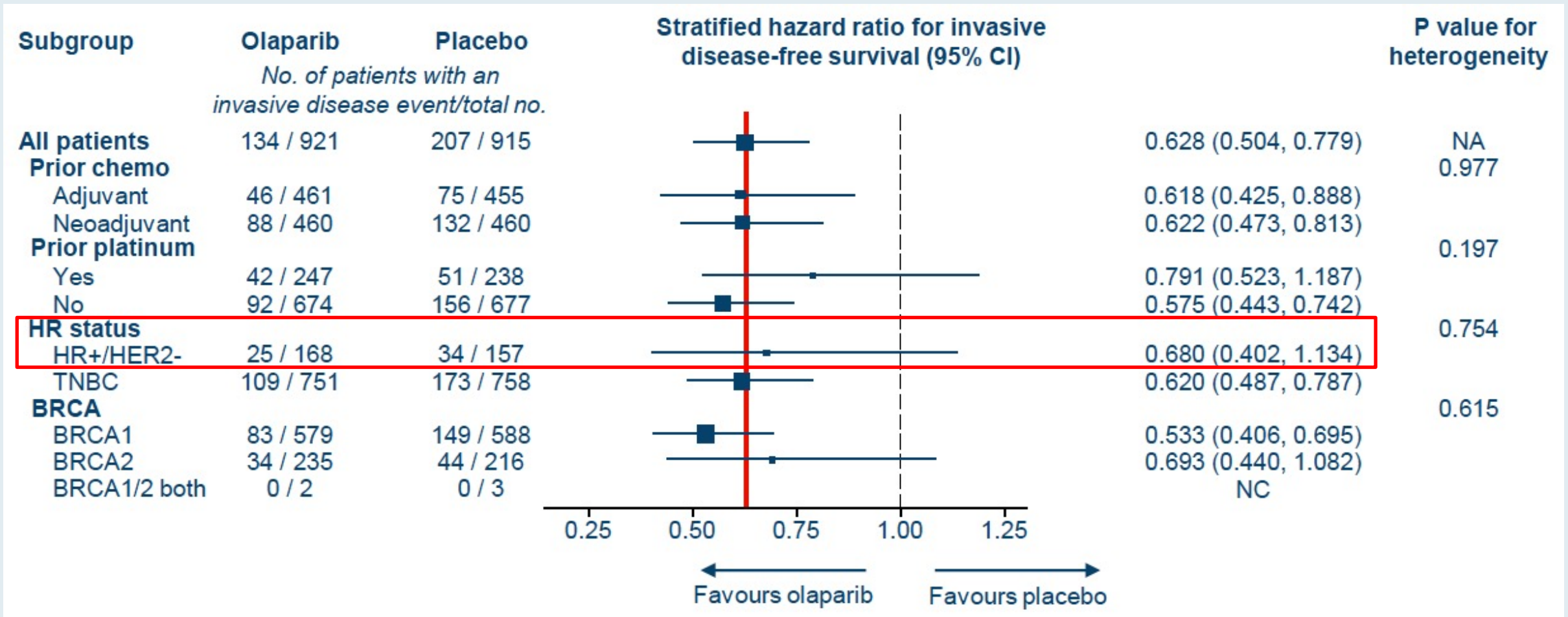
PRE-SPECIFIED EVENT DRIVEN ANALYSIS OF OVERALL SURVIVAL (OS) IN THE OLYMPIA PHASE III TRIAL OF ADJUVANT OLAPARIB (OL) IN GERMLINE *BRCA1/2* MUTATION (*gBRCAm*) ASSOCIATED BREAST CANCER

Andrew Nicholas James Tutt¹, Judy Garber², Richard D. Gelber², Kelly-Anne Phillips³, Andrea Eisen⁴, Oskar Thor Jóhannsson⁵, Priya Rastogi⁶, Karen Yongzhi Cui⁷, Seock-Ah Im⁸, Rinat Yerushalmi⁹, Adam Matthew Brufsky¹⁰, Maria Taboada¹¹, Giovanna Rossi¹², Greg Yothers¹³, Christian Singer¹⁴, Luis E. Fein¹⁵, Niklas Loman¹⁶, David Cameron¹⁷, Christine Campbell¹⁸, Charles Edward Geyer Jr¹⁹

¹Breast Cancer Now Research Unit, Institute of Cancer Research, London, United Kingdom; ²Dana Farber Cancer Institute, Boston, MA, USA; ³Department of Medical Oncology, Peter MacCallum Cancer Center, Melbourne, Australia; ⁴Odette Cancer Centre, Sunnybrook Health Sciences Centre, Toronto, Canada; ⁵Landsþítali – The National University Hospital of Iceland, Reykjavik, Iceland; ⁶Department of Oncology, NSABP Foundation, Pittsburgh, PA, USA; ⁷Global Medicine Development, AstraZeneca US, Gaithersburg, MD, USA; ⁸Department of Internal Medicine, Seoul National University Hospital, Seoul, Korea; ⁹Department of Oncology, Clalit Health Services, Petah Tikva, Israel; ¹⁰Department of Hematology-Oncology, Magee-Womens Hospital of UPMC, Pittsburgh, PA, USA; ¹¹AstraZeneca, Royston, United Kingdom; ¹²Department of R&D, Breast International Group (BIG) – AISBL, Brussels, Belgium; ¹³Department of Biostatistics, University of Pittsburgh, Pittsburgh, PA, USA; ¹⁴Center for Breast Health, Medical University of Vienna, Vienna, Austria; ¹⁵Department of Oncology, Instituto de Oncología de Rosario, Rosario, Santa Fe, Argentina; ¹⁶Skane University Hospital, Lund, Sweden; ¹⁷Department of Oncology, Edinburgh Cancer Centre, Edinburgh, United Kingdom; ¹⁸Frontier Science Scotland, Kincaig, United Kingdom; ¹⁹Department of Clinical Research, Houston Methodist Cancer Center, Houston, TX, USA



OlympiA: IDFS (Primary Endpoint) – Subgroup Analysis



IDFS = invasive disease-free survival

Fertility Preservation in Patients With Cancer: ASCO Clinical Practice Guideline Update

Kutluk Oktay, Brittany E. Harvey, Ann H. Partridge, Gwendolyn P. Quinn, Joyce Reinecke, Hugh S. Taylor, W. Hamish Wallace, Erica T. Wang, and Alison W. Loren

- Sperm, oocyte and embryo cryopreservation are considered standard practice and are widely available
- There is conflicting evidence to recommend gonadotrophin-releasing hormone agonists (GnRHa) and other means of ovarian suppression for fertility preservation
- The panel recognizes that, when proven fertility preservation methods are not feasible, and in the setting of young women with breast cancer, GnRHa may be offered to patients in the hope of reducing the likelihood of chemotherapy-induced ovarian insufficiency
- GnRHa should not be used in place of proven fertility preservation methods

Goserelin for Ovarian Protection during Breast-Cancer Adjuvant Chemotherapy

Halle C.F. Moore, M.D., Joseph M. Unger, Ph.D., Kelly-Anne Phillips, M.D., Frances Boyle, M.B., B.S., Ph.D., Erika Hitre, M.D., David Porter, M.D., Prudence A. Francis, M.D., Lori J. Goldstein, M.D., Henry L. Gomez, M.D., Carlos S. Vallejos, M.D., Ann H. Partridge, M.D., M.P.H., Shaker R. Dakhil, M.D., Agustin A. Garcia, M.D., Julie Gralow, M.D., Janine M. Lombard, M.D., John F. Forbes, M.B., B.S., Silvana Martino, D.O., William E. Barlow, Ph.D., Carol J. Fabian, M.D., Lori Minasian, M.D., Frank L. Meyskens, Jr., M.D., Richard D. Gelber, Ph.D., Gabriel N. Hortobagyi, M.D., and Kathy S. Albain, M.D.,
for the POEMS/S0230 Investigators

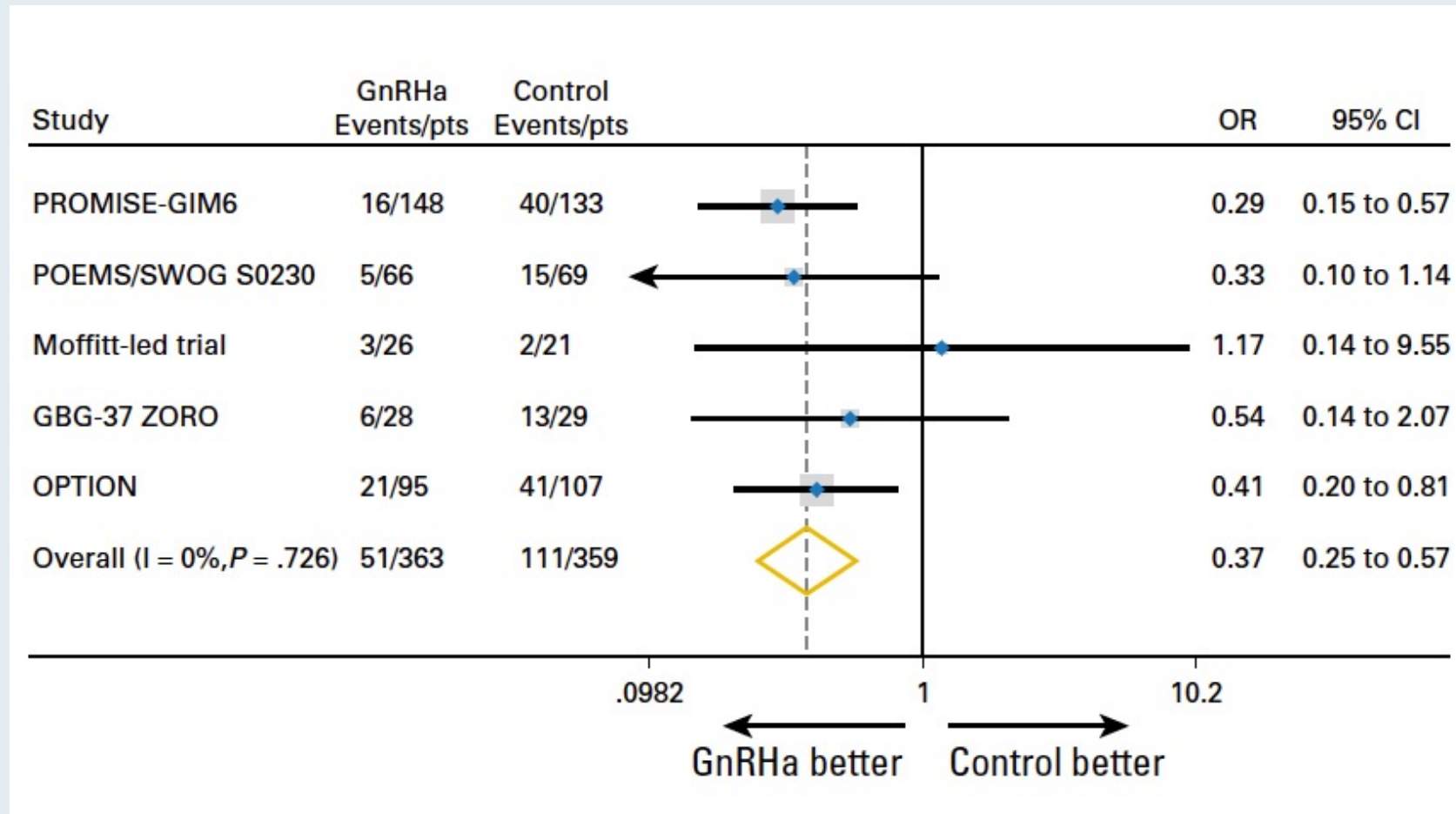
- Among 135 patients with complete primary endpoint data, the ovarian failure rate was 8% in the goserelin group and 22% in the chemotherapy-alone group (odds ratio 0.30, two-sided $p = 0.04$)
- Due to missing primary endpoint data, sensitivity analyses were performed; the results were consistent with the main findings

Gonadotropin-Releasing Hormone Agonists During Chemotherapy for Preservation of Ovarian Function and Fertility in Premenopausal Patients With Early Breast Cancer: A Systematic Review and Meta-Analysis of Individual Patient–Level Data

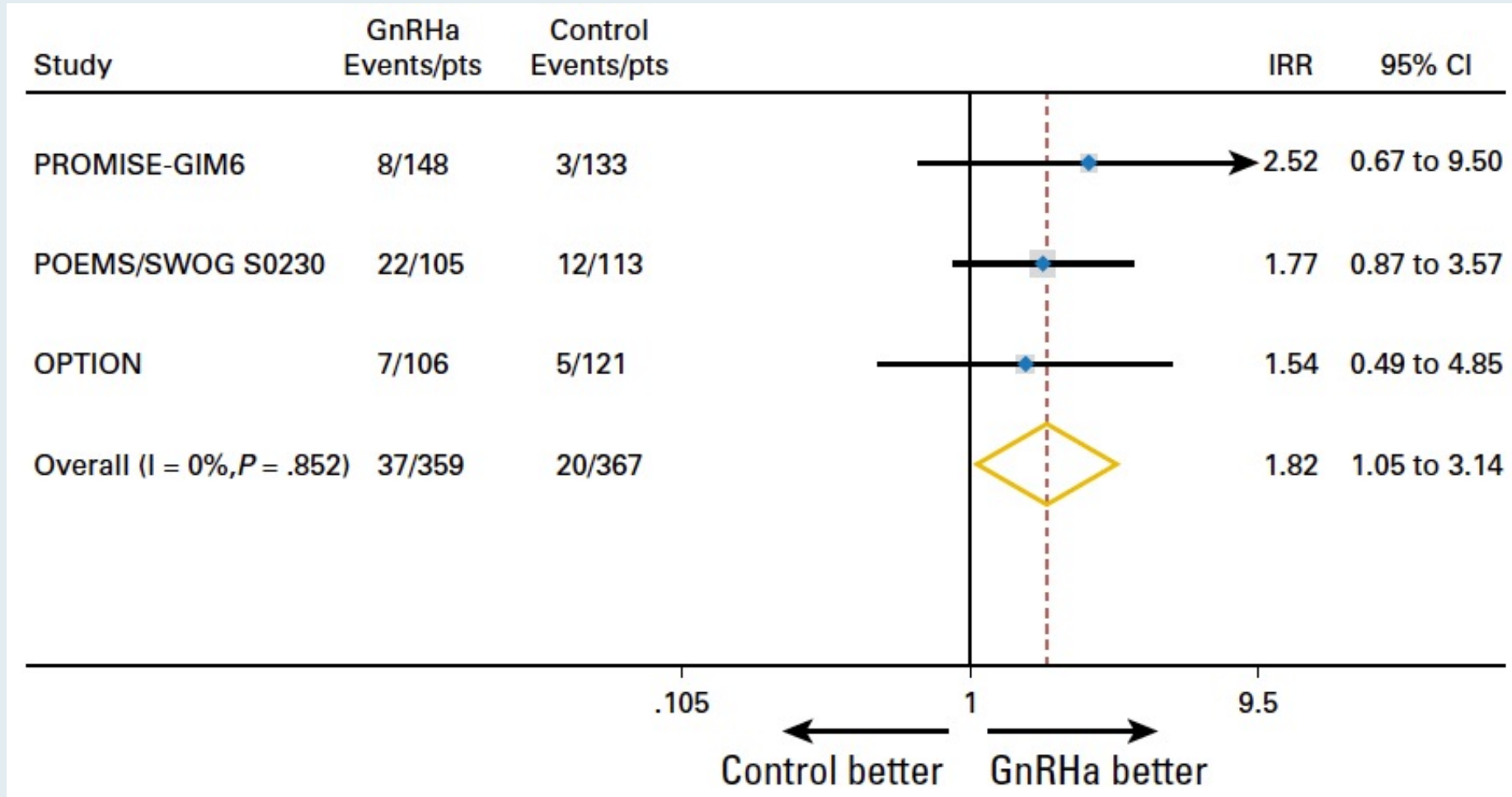
Matteo Lambertini, Halle C.F. Moore, Robert C.F. Leonard, Sibylle Loibl, Pamela Munster, Marco Bruzzone, Luca Boni, Joseph M. Unger, Richard A. Anderson, Keyur Mehta, Susan Minton, Francesca Poggio, Kathy S. Albain, Douglas J.A. Adamson, Bernd Gerber, Amy Cripps, Gianfilippo Bertelli, Sabine Seiler, Marcello Ceppi, Ann H. Partridge, and Lucia Del Mastro

Meta-analysis of Gonadotropin-Releasing Hormone Analogues During Chemotherapy for Localized Breast Cancer: Premature Ovarian Insufficiency by Trial

- 873 randomized patients from 5 major trials were included in the meta-analysis



Meta-analysis of Gonadotropin-Releasing Hormone Analogues During Chemotherapy for Localized Breast Cancer: Post-treatment Pregnancies by Trial



Abstract GS3-01



EMERALD phase 3 trial of elacestrant versus standard of care endocrine therapy in patients with ER+ /HER2- metastatic breast cancer: updated results by duration of prior CDK4/6i in metastatic setting

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EMERALD: PFS Analyses by CDK4/6 Inhibitor Duration

Duration of CDK4/6i	<6 months		6-12 months		12-18 months		≥18 months	
	Elacestrant (n = 29)	SOC ET (n = 29)	Elacestrant (n = 52)	SOC ET (n = 46)	Elacestrant (n = 52)	SOC ET (n = 40)	Elacestrant (n = 98)	SOC ET (n = 119)
All patients								
Median PFS	3.6 mo	1.9 mo	1.9 mo	1.9 mo	3.5 mo	1.8 mo	5.5 mo	3.3 mo
Patients with ESR1 mutations								
Median PFS	1.9 mo	1.9 mo	1.9 mo	1.8 mo	5.5 mo	1.8 mo	8.6 mo	2.1 mo

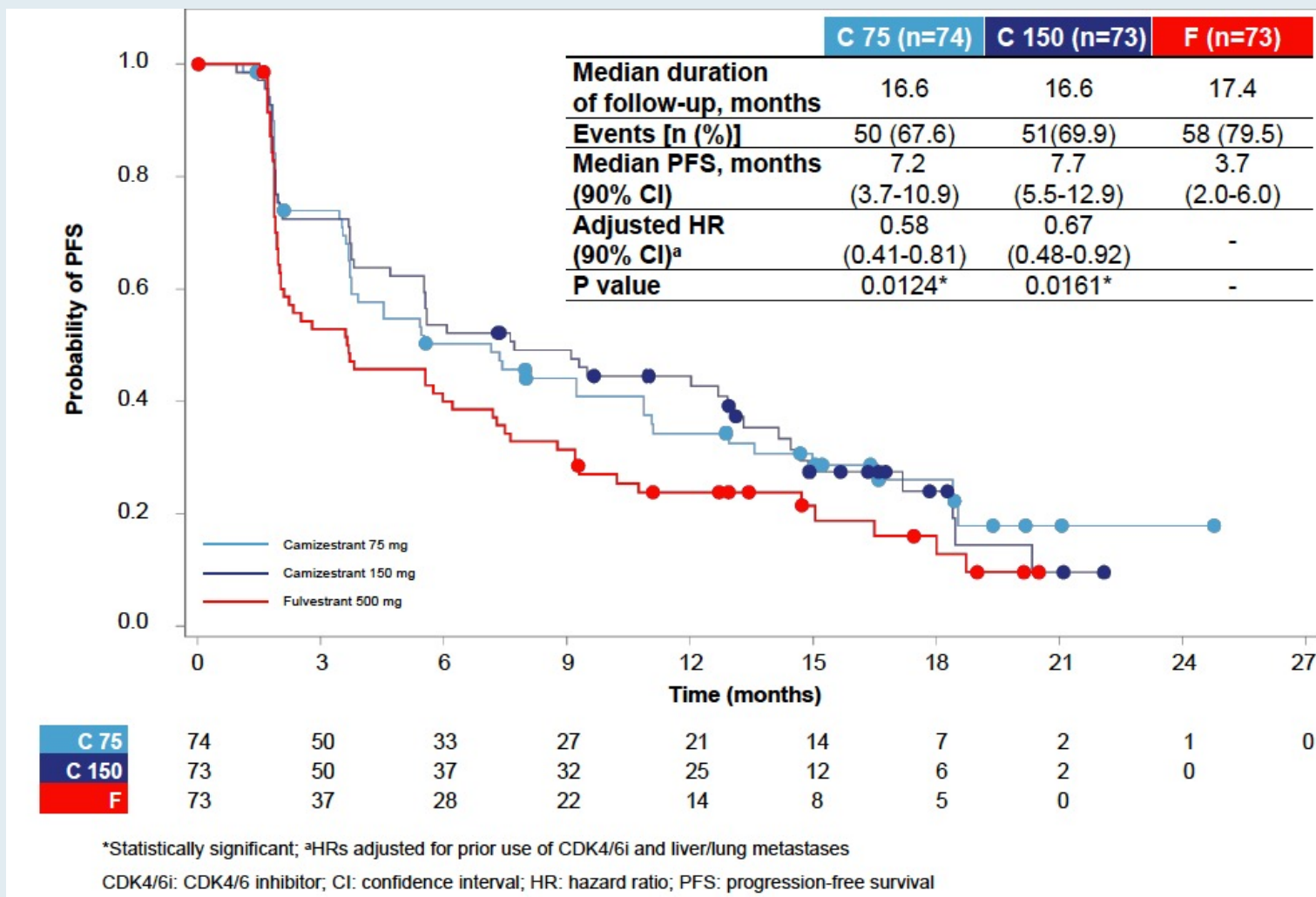
Abstract GS3-02

Camizestrant, a next-generation oral SERD vs fulvestrant in post-menopausal women with advanced ER-positive HER2-negative breast cancer: Results of the randomized, multi-dose Phase 2 SERENA-2 trial

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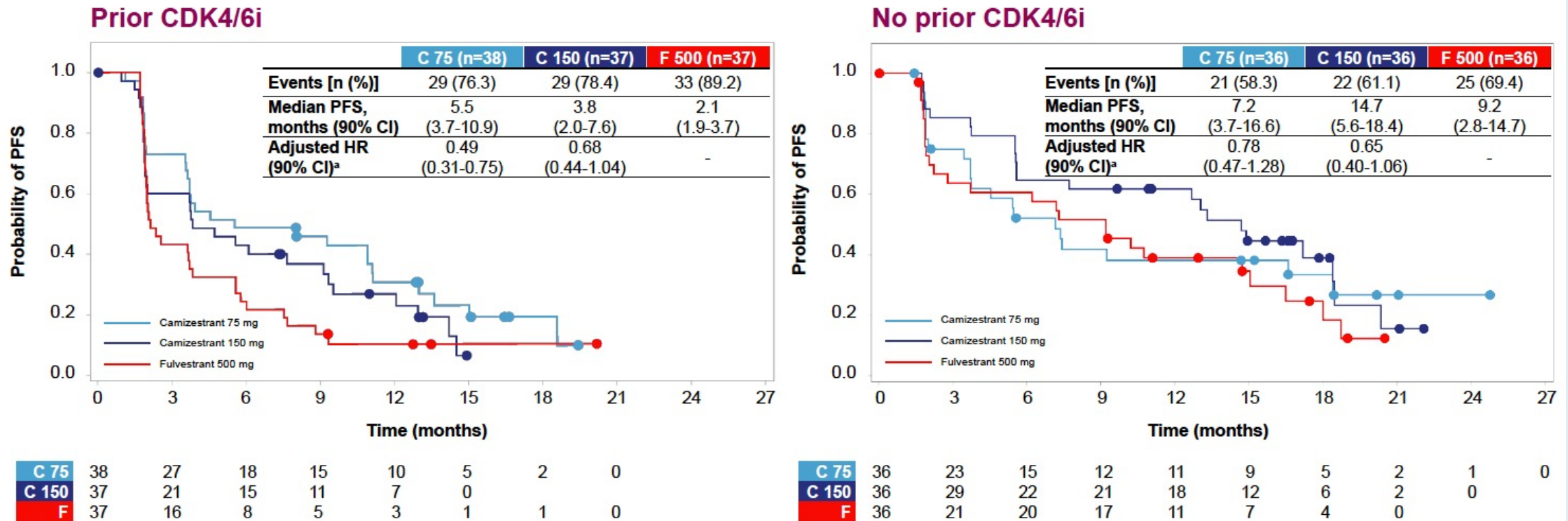
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SERENA-2 Primary Endpoint: PFS by Investigator Assessment



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

SERENA-2: PFS by Prior CDK4/6 Inhibitor Use



- In the sub-population of patients previously treated with CDK4/6i + endocrine therapy, camizestrant at both doses produces a clinically meaningful improvement in PFS over fulvestrant

^aHRs adjusted for liver/lung metastases

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



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