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

Tuesday, March 7, 2023 5:00 PM - 6:00 PM ET

Faculty
Sara M Tolaney, MD, MPH



Commercial Support

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



Dr Love — Disclosures

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Contracted Research	AstraZeneca Pharmaceuticals LP, Bristol-Myers Squibb Company, Cyclacel Pharmaceuticals Inc, Eisai Inc, Exelixis Inc, Genentech, a member of the Roche Group, Gilead Sciences Inc, Lilly, Merck, NanoString Technologies, Nektar, Novartis, Pfizer Inc, Sanofi, Seagen Inc



We Encourage Clinicians in Practice to Submit Questions

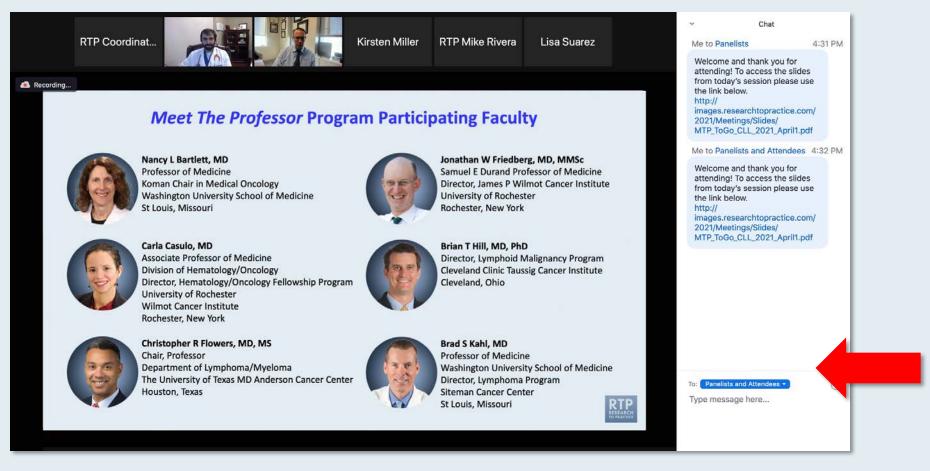


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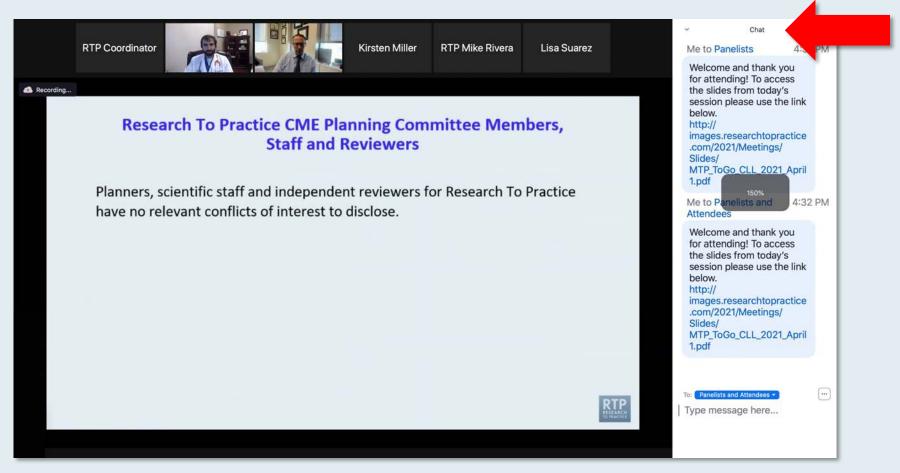


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Press Command (for Mac) or Control (for PC) and the + symbol. You may do this as many times as you need for readability.



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WITH DR NEIL LOVE

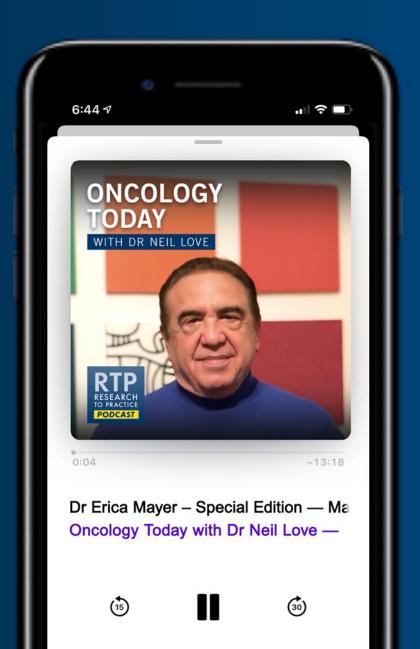
Special Edition — Management of ER-Positive Breast Cancer











Cases from the Community: Investigators Discuss Available Research Guiding the Care of Patients with Gastroesophageal and Hepatobiliary Cancers — A 2023 Post-ASCO GI Webcast

A CME/MOC-Accredited Virtual Event

Wednesday, March 8, 2023 5:00 PM - 6:00 PM ET

Consulting Clinical Investigators

Lipika Goyal, MD, MPhil Zev Wainberg, MD, MSc **Faculty Panel**

Eric H Lee, MD, PhD
Neil Morganstein, MD
Swati Vishwanathan, MD



Meet The Professor Optimizing the Management of Colorectal Cancer

Wednesday, March 22, 2023 5:00 PM - 6:00 PM ET

Faculty
John Strickler, MD



Cases from the Community: Investigators Discuss Available Research Guiding the Care of Patients with Ovarian Cancer

Part 1 of a 2-Part CME Symposium Series Held in Conjunction with the 2023 Society of Gynecologic Oncology (SGO) Annual Meeting on Women's Cancer®

Sunday, March 26, 2023 11:45 AM – 1:15 PM ET

Faculty

Mansoor Raza Mirza, MD
Amit M Oza, MD
Richard T Penson, MD, MRCP

Moderator
Joyce F Liu, MD, MPH



Cases from the Community: Investigators Discuss Available Research Guiding the Care of Patients with Endometrial Cancer

Part 2 of a 2-Part CME Symposium Series Held in Conjunction with the 2023 Society of Gynecologic Oncology (SGO) Annual Meeting on Women's Cancer®

Monday, March 27, 2023 11:45 AM – 1:15 PM ET

Faculty

Robert L Coleman, MD Matthew A Powell, MD Brian M Slomovitz, MD

Moderator
Shannon N Westin, MD, MPH



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

Acute Myeloid Leukemia and Myelodysplastic Syndromes

Tuesday, April 4, 2023 5:00 PM - 6:00 PM ET

Faculty

Uma Borate, MD, MS Andrew H Wei, MBBS, PhD



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



Thank you for joining us!

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



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

Sara M Tolaney, MD, MPH Chief, Division of Breast Oncology Associate Director, Susan F Smith Center for Women's Cancers Senior Physician Dana-Farber Cancer Institute **Associate Professor of Medicine** Harvard Medical School Boston, Massachusetts



Meet The Professor Program Participating Faculty



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Professor of Medicine
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David Geffen School of Medicine at UCLA
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Kathy D Miller, MD
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Director, Program for Young Women with
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Director, Adult Survivorship Program
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Professor of Medicine
Harvard Medical School
Boston, Massachusetts



Meet The Professor Program Participating Faculty



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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
for Women's Cancers
Senior Physician
Dana-Farber Cancer Institute
Associate Professor of Medicine
Harvard Medical School
Boston, Massachusetts



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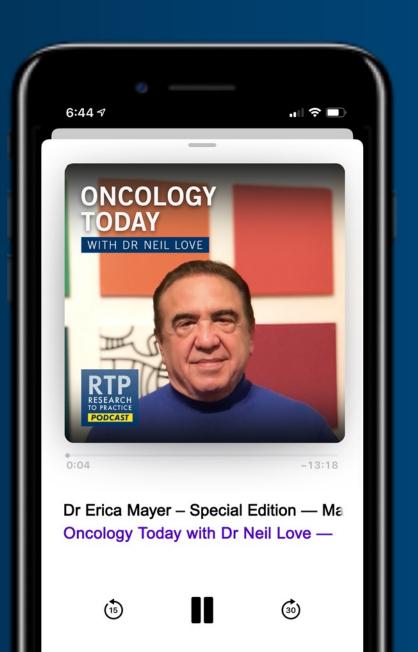
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Meet The Professor with Dr Tolaney

Introduction: Male Breast Cancer

MODULE 1: Hormone Receptor-Positive Breast Cancer

MODULE 2: Triple-Negative Breast Cancer

MODULE 3: Appendix



Meet The Professor with Dr Tolaney

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JNCI: Journal of the National Cancer Institute, 2023, 00(0), 1–8

Advance Access Publication Date: December 30, 2022

Article

Survival in male breast cancer over the past 3 decades

José P. Leone (D), MD,^{1,*} Rachel A. Freedman, MD, MPH,¹ Julieta Leone, MD,² Sara M. Tolaney, MD, MPH,¹ Carlos T. Vallejo, MD,² Bernardo A. Leone, MD,^{2,†} Eric P. Winer, MD,^{1,3} Nancy U. Lin, MD,¹ Michael J. Hassett, MD, MPH¹



Mortality Risks Over 20 Years in Men with Stage I-III Hormone Receptor-Positive Breast Cancer

Leone JP et al.

SABCS 2022; Abstract PD6-08.



Cancer 2022;128:3796-803.

Original Article

Efficacy of neoadjuvant chemotherapy in male breast cancer compared with female breast cancer

José Pablo Leone, MD D; Michael J. Hassett, MD; Julieta Leone, MD; Sara M. Tolaney, MD, MPH; Carlos T. Vallejo, MD; Bernardo A. Leone, MD; Eric P. Winer, MD; and Nancy U. Lin, MD



editorials

Can a Late Interception by Circulating Tumor DNA Deliver a Win in Estrogen Receptor— Positive Early Breast Cancer?

David W. Cescon, MD, PhD1; Kevin Kalinsky, MD2; and Angela M. DeMichele, MD, MSCE3

J Clin Oncol 2022 Aug 1;40(22):2395-2397

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Circulating Tumor DNA and Late Recurrence in High-Risk Hormone Receptor— Positive, Human Epidermal Growth Factor Receptor 2—Negative Breast Cancer

Marla Lipsyc-Sharf, MD^{1,2}; Elza C. de Bruin, PhD³; Katheryn Santos, BS¹; Robert McEwen, PhD³; Daniel Stetson, MS⁴; Ashka Patel, BS¹; Gregory J. Kirkner, MPH¹; Melissa E. Hughes, MSc¹; Sara M. Tolaney, MD, MPH^{1,2}; Ann H. Partridge, MD, MPH^{1,2}; Ian E. Krop, MD, PhD^{1,2,5}; Charlene Knape, MT⁶; Ute Feger, PhD⁶; Giovanni Marsico, PhD⁷; Karen Howarth, PhD⁷; Eric P. Winer, MD^{1,2,5}; Nancy U. Lin, MD^{1,2}; and Heather A. Parsons, MD, MPH^{1,2}

J Clin Oncol 2022;40:2408-19



Meet The Professor with Dr Tolaney

Introduction: Male Breast Cancer

MODULE 1: Hormone Receptor-Positive Breast Cancer – Part 1

- Dr Astrow: 32-year-old premenopausal woman with T1cN0 ER/PR-positive, HER2-negative, gBRCA2-mutant IDC with an Oncotype DX® Recurrence Score® (RS) of 30 receives adjuvant chemotherapy followed by leuprolide/letrozole but wishes to discontinue treatment to attempt pregnancy
- Dr Gupta: 38-year-old woman with T2N0 ER/PR-positive, HER2-negative IDC; RS of 35; has severe menopause after adjuvant TC, TAH/BSO and letrozole
- Dr Lamar: 53-year-old postmenopausal woman with bilateral ER-positive, HER2-negative breast cancer; RS on the left is low and on the right is 30 but the tumor is 4 mm
- Dr Leasure: 42-year-old premenopausal woman with a 5-cm ER/PR-positive (100%), HER2-negative Grade I IDC

MODULE 2: Triple-Negative Breast Cancer

MODULE 3: Appendix



Case Presentation: 32-year-old premenopausal woman with T1cN0 ER/PR-positive, HER2-negative, gBRCA2-mutant IDC with an Oncotype DX Recurrence Score (RS) of 30 receives adjuvant chemotherapy followed by leuprolide/letrozole but wishes to discontinue treatment to attempt pregnancy



Dr Alan Astrow (Brooklyn, New York)



Clinicopathological Characteristics, Treatment Patterns and Disease Outcomes of Germline BRCA1/2 Carriers with Early Stage HER2-Negative Breast Cancer and Potential Eligibility for Adjuvant Olaparib

Morganti S et al.

SABCS 2022; Abstract P2-01-02.



J Clin Oncol 2021 September 10;39(26):2959-61.

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.



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 <u>germline PALB2</u> mutation and TNBC who has residual disease after neoadjuvant chemotherapy?





Case Presentation: 38-year-old woman with T2N0 ER/PR-positive, HER2-negative IDC; RS of 35; has severe menopausal symptoms after adjuvant TC, TAH/BSO and letrozole



Dr Ranju Gupta (Bethlehem, Pennsylvania)



Inside the Issue — Exploring the Current Role of Ovarian Suppression in the Management of Breast Cancer

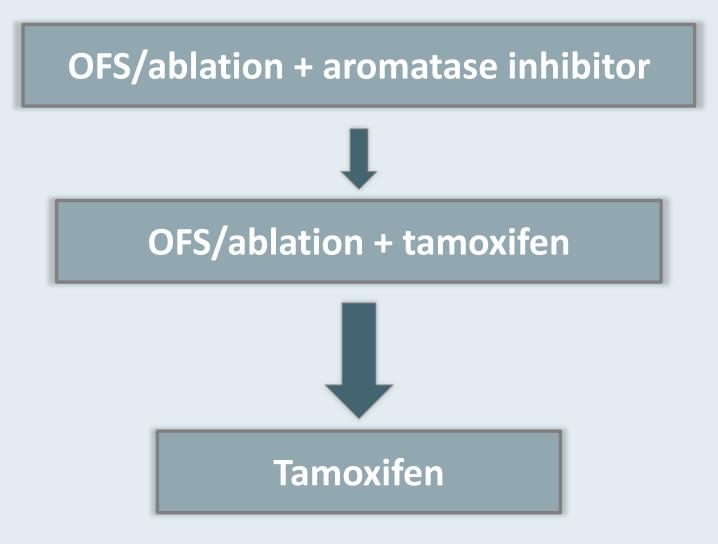
Wednesday, February 8, 2023 5:00 PM - 6:00 PM ET

Faculty
Kathy D Miller, MD
Ann Partridge, MD, MPH

Moderator Neil Love, MD



Hierarchy of Endocrine Therapy for Premenopausal Women





Adjuvant Endocrine Therapy in Premenopausal Breast Cancer: 12-Year Results From SOFT

Prudence A. Francis, MD^{1,2,3}; Gini F. Fleming, MD⁴; István Láng, MD^{5,6}; Eva M. Ciruelos, MD, PhD⁷; Hervé R. Bonnefoi, MD⁸; Meritxell Bellet, MD⁹; Antonio Bernardo, MD¹⁰; Miguel A. Climent, MD¹¹; Silvana Martino, DO¹²; Begoña Bermejo, MD, PhD^{13,14}; Harold J. Burstein, MD, PhD¹⁵; Nancy E. Davidson, MD¹⁶; Charles E. Geyer Jr, MD¹⁷; Barbara A. Walley, MD¹⁸; James N. Ingle, MD¹⁹; Robert E. Coleman, MD, MBBS, FRCP^{20,21,22}; Bettina Müller, MD²³; Fanny Le Du, MD²⁴; Sibylle Loibl, MD, PhD^{25,26}; Eric P. Winer, MD^{15,27,28}; Barbara Ruepp, PharmD²⁹; Sherene Loi, MD, PhD³⁰; Marco Colleoni, MD³¹; Alan S. Coates, MD³²; Richard D. Gelber, PhD³³; Aron Goldhirsch, MD³⁴; and Meredith M. Regan, ScD³⁵; for the SOFT Investigators and the International Breast Cancer Study Group (a division of ETOP IBCSG Partners Foundation)

J Clin Oncol 2023 March 1;41(7):1370-5.

clinical trial update

Adjuvant Exemestane With Ovarian Suppression in Premenopausal Breast Cancer: Long-Term Follow-Up of the Combined TEXT and SOFT Trials

Olivia Pagani, MD^{1,2}; Barbara A. Walley, MD³; Gini F. Fleming, MD⁴; Marco Colleoni, MD⁵; István Láng, MD, PhD^{6,7}; Henry L. Gomez, MD, PhD^{8,9}; Carlo Tondini, MD¹⁰; Harold J. Burstein, MD, PhD¹¹; Matthew P. Goetz, MD¹²; Eva M. Ciruelos, MD, PhD¹³; Vered Stearns, MD¹⁴; Hervé R. Bonnefoi, MD¹⁵; Silvana Martino, DO¹⁶; Charles E. Geyer Jr, MD¹⁷; Claudio Chini, MD¹⁸; Fabio Puglisi, MD, PhD¹⁹; Simon Spazzapan, MD²⁰; Thomas Ruhstaller, MD²¹; Eric P. Winer, MD^{22,11}; Barbara Ruepp, PharmD²³; Sherene Loi, MD, PhD²⁴; Alan S. Coates, MD²⁵; Richard D. Gelber, PhD²⁶; Aron Goldhirsch, MD^{27,1}; Meredith M. Regan, ScD²⁸; and Prudence A. Francis, MD^{29,30}; for the SOFT and TEXT Investigators and the International Breast Cancer Study Group (a division of ETOP IBCSG Partners Foundation)

J Clin Oncol 2023 March 1;41(7):1376-82.



Back to the Beginning: The Role of Ovarian Suppression in Management of Hormone Sensitive Breast Cancer in Premenopausal Women

Roisin M. Connolly, MBBCh, MD¹ and Kathy D. Miller, MD²

J Clin Oncol 2023 March 1;41(7):1339-41.











HER2 and estrogen receptor status drive decisions regarding the use of neoadjuvant chemotherapy

Neil Love, MD¹, Kimberly L Blackwell, MD², Eleftherios P Mamounas, MD, MPH³, Jonathan Moss, BS¹, Kathryn Ziel, PhD¹

1 Research To Practice, Miami, FL; 2 Duke Cancer Institute, Durham, NC; 3 UF Cancer Center at Orlando Health, Orlando, FL

BACKGROUND:

Needpower chemotherapy (NC) is wishly utilized to beliliais beaut-cross-oring surgery and is considered operation to achieve chemotherapy with regard in recurrence-tree and overall survival. However, contraversy states about specific indication for NC and its offices on other concerns, particularly related to surgery in the bruset and actila. Limited this are available about the NC recommendations of bruse cannor clinical investigators (CI).

METHODS:

In May 205, a 139-horn survey was sort to 94 US-based surgical (5) and medical encology (MO) CI from a proprietary deaduse to assess their practice patterns. A modest horometum was offered.

RESULTS

The assessment was completed by 60 Ct (26 5 and 22 MO; 64% of those sent the survey). Most (67%) recommend NC to patients with estrogen receptor-registry/HSD2 engative (36, 7450Cs) and HSD2 positive (HSD2) amons larger than 2 cm or with biopsyprove auxiliary node involvement.

For such patients with HSECs turnors, MO matrixly (60%) use portraments O'J with insecurants (1) combined with NC sither choosinus/carbopistin (60%), a tensors and description (27%), pacinized (64%) or decentral (65%), for patients with these higher-citic HSCS-turnors not moving NC, 47% of MO use P in the adjuvent setting, either during chemodromapy or during chemodromapy and continuing the a year.

There was more heterogeneity and lose use of NC in potients with 18-positive (18-ph/1825) names, and 47-s of Mb will use generate prefiling (generally the 21-years Recurrence Score³) to helitate this deciden in select situations. Calcular, for the 26-defined commission that were evaluated, recurrence/decime of 5 and MO were similar, subrough 5-were somewhat more 18-oby to recommend to C (70%) than MO (47%).

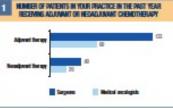
5 typically employ post-NC sentinel node biopsy (SNI); 87%, even for patients with initial solilary roots involvement, and only proceed to sullary dissection if the SNE is positive.

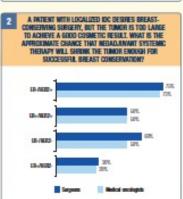
CONCLUSIONS:

- S and MO consider ER and HSSQ (as well as turner size and sofflary node status) essential factors in NC decidents and generally recommend MC to patients with HSSQ+ or SR-/HSSQturners larger than 2 cm or with addlary node involvement.
- Two years after P (in combination with NC/T) became the first agent approved in the meadurent setting, it is now community used in both adjuvant and recodjuvant treatment scenarios.
- The approach to 18+/1592- tumors is different than the algorithms used for FBSDs and 18-/1693- disease, with much less use of NC. A substantial fraction of CI will use general: profiling to assist in decision-making for some patients.
- Although clinical mesenth evidence has not demonstrated a long-term advantage with nonedparant versus adjacent chemothempy in terms of risk of recurrence or death, the fact that 5 generally use post-NC SNB to decide on additory dissociate suggests that one advantage of this fluoraposatic approach is downstaging of the addit.
- The turnor marker-based algorithms generated by this assessment will be useful in educating and assisting community-based physicians, and an online point-of-care look based on this information is being evaluated.

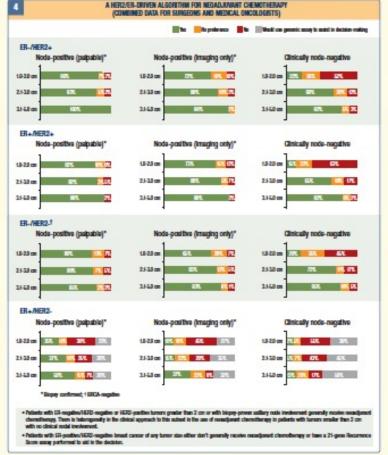
This project was supported by an anomalysis of substanting years to Research to Practice field.

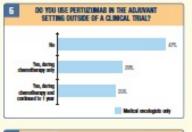
Communical Data Producting. The authors shall not receive should efficient the field this grander.

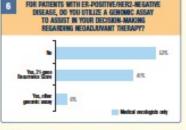


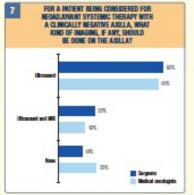


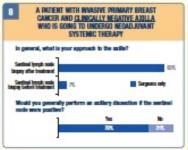


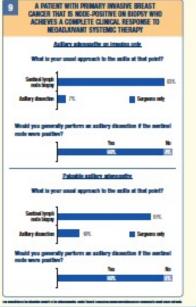














Which adjuvant treatment would you most likely recommend for a 30-year-old premenopausal woman with <u>1-cm</u> ER-positive, HER2-negative, node-negative localized breast cancer and the RS below?

	RS = 8 ET	RS = 20 ET	
Dr Hurvitz	Tamoxifen	OFS/ablation and tamoxifen	
Dr Jhaveri	Tamoxifen	Discuss OFS with tamoxifen/Al	
Dr Miller	OFS/ablation	OFS/ablation	
Dr Partridge	Tamoxifen	OFS/ablation and letrozole	
Dr Telli	Tamoxifen	OFS/ablation and exemestane	
Dr Tolaney	Tamoxifen	OFS/ablation and letrozole	

ET = endocrine therapy; OFS = ovarian function suppression; AI = aromatase inhibitor

Which adjuvant treatment would you most likely recommend for a 30-year-old premenopausal woman with <u>1.5-cm</u> ER-positive, HER2-negative, node-negative localized breast cancer and the RS below?

	RS = 8 ET	RS = 20 ET	
Dr Hurvitz	Tamoxifen OFS/ablation and tamox		
Dr Jhaveri	Tamoxifen	Discuss OFS with tamoxifen/AI	
Dr Miller	OFS/ablation	OFS/ablation	
Dr Partridge	Tamoxifen	OFS/ablation and letrozole	
Dr Telli	Tamoxifen	OFS/ablation and exemestane	
Dr Tolaney	Tamoxifen	OFS/ablation and exemestane	

Which adjuvant treatment would you most likely recommend for a 30-year-old premenopausal woman with <u>2-cm</u> ER-positive, HER2-negative, node-negative localized breast cancer and the RS below?

	RS = 8 ET	RS = 20 ET	
Dr Hurvitz	OFS/ablation and tamoxifen	OFS/ablation and tamoxifen	
Dr Jhaveri	Tamoxifen	Discuss OFS with tamoxifen/AI	
Dr Miller	OFS/ablation	OFS/ablation	
Dr Partridge	OFS/ablation and letrozole	OFS/ablation and letrozole	
Dr Telli	Tamoxifen	OFS/ablation and exemestane	
Dr Tolaney	Tamoxifen	OFS/ablation and letrozole	

Which adjuvant treatment would you most likely recommend for a 30-year-old premenopausal woman with <u>2.5-cm</u> ER-positive, HER2-negative, node-negative localized breast cancer and the RS below?

	RS = 8 ET	RS = 20 ET	
Dr Hurvitz	OFS/ablation and tamoxifen	OFS/ablation and tamoxifen	
Dr Jhaveri	Discuss OFS with tamoxifen/AI	OFS/ablation and AI	
Dr Miller	OFS/ablation	OFS/ablation	
Dr Partridge	OFS/ablation and letrozole	OFS/ablation and letrozole	
Dr Telli	Tamoxifen	OFS/ablation and exemestane	
Dr Tolaney	Tamoxifen	OFS/ablation and letrozole	

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

	RS = 8 ET	RS = 20 ET	
Dr Hurvitz	OFS/ablation and anastrozole	OFS/ablation and anastrozole	
Dr Jhaveri	OFS/ablation + tamoxifen	OFS/ablation + anastrozole	
Dr Miller	OFS/ablation + tamoxifen or letrozole	OFS/ablation + tamoxifen or letrozole	
Dr Partridge	OFS/ablation + tamoxifen or + letrozole	OFS/ablation + letrozole	
Dr Telli	OFS/ablation + exemestane	OFS/ablation + exemestane	
Dr Tolaney	OFS/ablation + letrozole	OFS/ablation + letrozole	

For premenopausal patients (<u>age 40-50 years</u>) with <u>ER-positive</u>, <u>HER2-negative</u> 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	No	Yes	
Dr Telli	Yes, for select younger patients	No	
Dr Tolaney	No	Yes	

^{*}Fertility specialist discusses with patient

Case Presentation: 53-year-old postmenopausal woman with bilateral ER-positive, HER2-negative breast cancer; RS on the left is low and on the right is 30 but the tumor is 4 mm



Dr Zanetta Lamar (Naples, Florida)



Case Presentation: 42-year-old premenopausal woman with a 5-cm ER/PR-positive (100%), HER2-negative Grade I IDC



Dr Nick Leasure (West Reading, Pennsylvania)



Impact of RxPONDER and monarchE on the Surgical Management of the Axilla in Patients With Breast Cancer

Elizabeth A. Mittendorf, MD, PhD^{1,2}; Tari A. King, MD^{1,2}; and Sara M. Tolaney, MD, MPH^{2,3}

J Clin Oncol 2022 October 10;40(29):3361-4.



Is there a role for the Oncotype DX Breast Recurrence Score Genomic Assay in Estrogen Receptor-low Positive Breast Cancer?

Julia Giordano^{1,2}, Monica McGrath^{1,2}, Beth Harrison³, Olga Kantor^{1,2,4}, Harold Burstein^{2,4,5}, Halley Vora^{1,2}, Sara M. Tolaney^{2,4,5}, Tari A. King^{1,2,4}, Elizabeth A. Mittendorf^{1,2,4}







DANA-FARBER/BRIGHAM AND WOMEN'S CANCER CENTER

ASCO 2022; Abstract 564.



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."



ASCO Rapid Recommendation Update for Abemaciclib for HR-Positive, HER2-Negative, Node-Positive Localized Breast Cancer

- Abemaciclib with endocrine therapy (ET; tamoxifen or an aromatase inhibitor) is FDA approved for adjuvant treatment of HR-positive, HER2-negative, node-positive localized breast cancer with high risk of recurrence and a Ki-67 score ≥20%.
- Based on analyses reported by Harbeck and colleagues, the panel recommends that abemaciclib for 2 years with ET for 5 years or longer may be offered to the broader intent-to-treat population of patients with resected HR-positive, HER2-negative, node-positive localized breast cancer at high risk of recurrence, defined as having >4 positive axillary lymph nodes **or** as having 1 to 3 positive axillary lymph nodes and 1 or more of the following features: histologic Grade III, tumor size >5 cm **or Ki-67 index >20%**.
- Despite similar hazard ratios in favor of abemaciclib regardless of Ki-67 status, relatively few low Ki-67 tumors were reported in monarchE. When discussing treatment options with patients, the potential benefits (improved IDFS) should be weighed against the potential harms (treatment toxicity, financial cost).





Available online at www.sciencedirect.com

ScienceDirect

journal homepage: www.ejcancer.com



Original Research

Estimating long-term mortality in women with hormone receptor-positive breast cancer: The 'ESTIMATE' tool*,**

José P. Leone ^{a,*}, Noah Graham ^a, Sara M. Tolaney ^a, Bernardo A. Leone ^{b,2}, Rachel A. Freedman ^a, Michael J. Hassett ^a, Julieta Leone ^b, Carlos T. Vallejo ^b, Eric P. Winer ^{a,1}, Nancy U. Lin ^a, Nabihah Tayob ^a



Which adjuvant endocrine therapy (ET) would you most likely recommend for a <u>30-year-old</u> premenopausal woman with <u>node-negative</u>, 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 <u>30-year-old</u> premenopausal woman with ER-positive, HER2-negative localized breast cancer with <u>1 positive node</u> 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

Meet The Professor with Dr Tolaney

Introduction: Male Breast Cancer

MODULE 1: Hormone Receptor-Positive Breast Cancer – Part 2

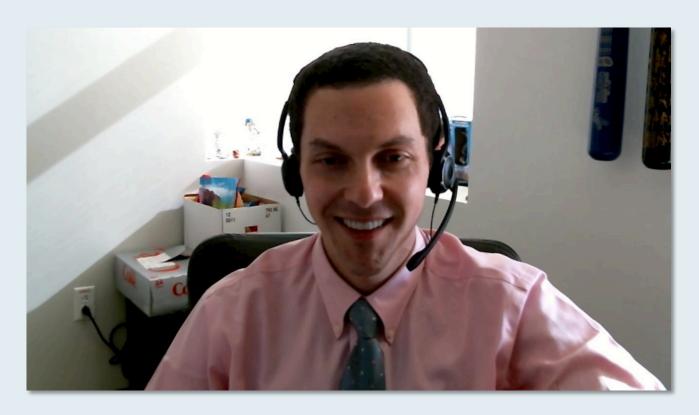
- Dr Lorber: 42-year-old premenopausal woman (gBRCA2) with Stage IIB ER/PR-positive, HER2-low (IHC 1+) IDC treated with adjuvant tamoxifen develops extensive mets and receives OFS, letrozole and palbociclib
- Dr Malik: 72-year-old woman with multiregimen-recurrent ER/PR-positive, HER2-low (IHC 1+) metastatic breast cancer receives T-DXd

MODULE 2: Triple-Negative Breast Cancer

MODULE 3: Appendix



Case Presentation: 42-year-old premenopausal woman (gBRCA2) with Stage IIB ER/PR-positive, HER2-low (IHC1+) IDC treated with adjuvant tamoxifen develops extensive mets and receives OFS, letrozole and palbociclib



Dr Jeremy Lorber (Beverly Hills, California)



Breast Cancer Research and Treatment (2022) 192:303-311

CLINICAL TRIAL

Factors leading to alpelisib discontinuation in patients with hormone receptor positive, human epidermal growth factor receptor-2 negative breast cancer

Yee-Ming M. Cheung^{1,2} • Grace E. Cromwell¹ · Sara M. Tolaney³ · Le Min¹ · Marie E. McDonnell¹



Alpelisib Treatment Details

Alpelisib therapy	n = 62 n (%)			
Median exposure to alpelisib (days, IQR)	97 (29–189)			
Dose reduction	28 (45)			
Median dose of alpelisib (mg, IQR)	250 (250–300)			
Permanent cessation of alpelisib				
Yes	53 (85.5)			
No	7 (14.5)			
Reason for cessation				
Progression	26 (42)			
Adverse effect other than hyperglycemia	17 (27.4)			
Rash	9 (52.9)			
Gastrointestinal (diarrhea, decreased appetite and abdominal discomfort)	7 (41.2)			
Anaphylaxis	1 (5.9)			
Hyperglycemia	9 (14.5)			
Died	2 (3.2)			
Reason for early cessation (≤30 days)				
Progression	1 (1.7)			
Adverse effect other than hyperglycemia	8 (14.5)			
Hyperglycemia	6 (10.9)			
Died	0 (0)			



Hyperglycemia During Alpelisib Treatment

Hyperglycemia during alpelisib	n = 55 n (%)
Hyperglycemia in the diabetes range (peak RBG>200)	24 (39)
Median post-alpelisib HbA1c (%, IQR)	6.2 (5.5–6.9)
Median post-alpelisib RBG (mg/dL, IQR)	121 (107–153)
Median peak RBG during alpelisib (mg/dL, IQR)	190 (152–298)
Median time to peak RBG during alpelisib (days, IQR)	27 (14–63.5)
Anti-diabetic agents commenced	n = 28 (%)
Metformin	21 (75)
Thiazolidinediones	1 (3.6)
Sulfonylurea	4 (14.3)
Insulin	10 (35.7)
GLP-1 analogue	1 (3.6)
SGLT2 inhibitor	1 (3.6)
Other	1 (3.6)
Referral to endocrinology	
Yes	13 (46.4)
No	13 (46.4)
Nurse practitioner	2 (7.2)

GLP-1Glucagon-like peptide, HbA1c hemaglobin A1c, IQR interquartile range, n number, SGLT2 sodium-glucose co-transporter-2, SD standard deviation, RBG random blood glucose



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.

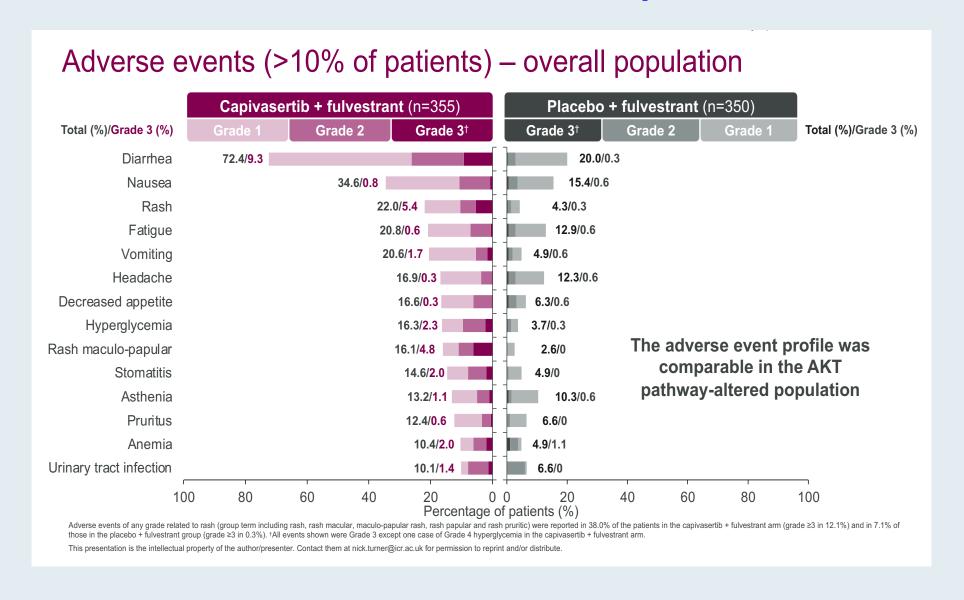


CAPItello-291: Overall Response per Investigator Assessment

	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

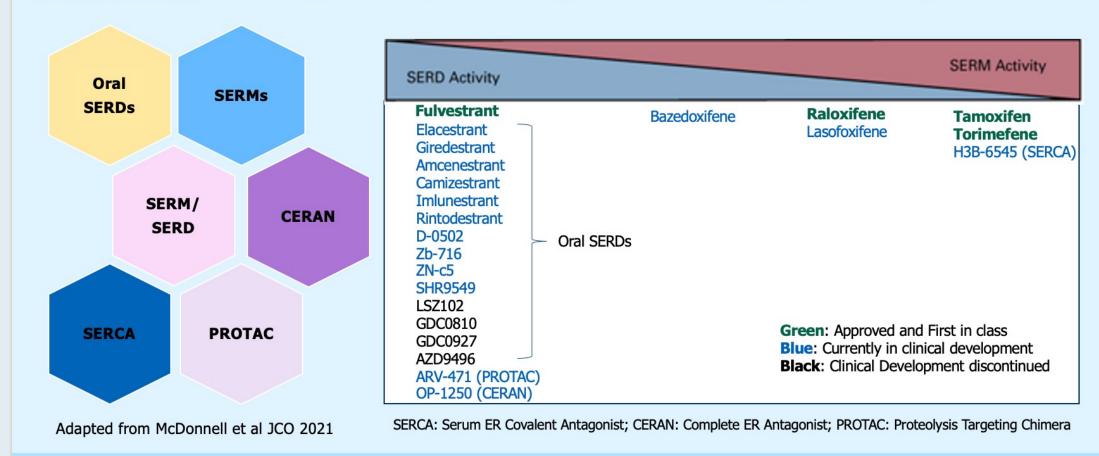




San Antonio Breast Cancer Symposium®, December 7-10, 2021

Novel ER Targeting Agents

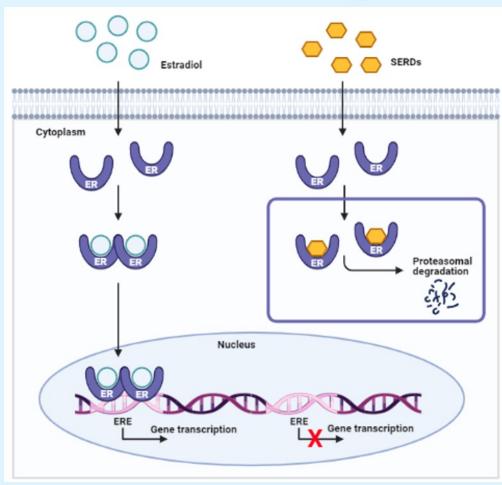
<u>Ultimate Goal</u>: Downregulate ERa with an agent that has an optimal Therapeutic Index





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

Oral Selective Estrogen Receptor Degraders (SERDs)



Key Advantages

- Oral Formulation
- High Potency
- Activity against endocrine resistant and ESR1 mutant models including Y537S

Shomali M, et al. Mol Cancer Ther. 2021;20(2):250-62.



Safety: Oral SERDs

<u>Gastrointestinal most</u> <u>common)</u>

- Nausea
- Vomiting
- Diarrhea

Bradycardia

-Grade 1 -QTc Prolongation

Visual Disturbances

Adverse Events with Oral SERDs

Fatigue

Hot flashes Arthralgia



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

Key Takeaways for Oral SERDs

Oral SERDs are ACTIVE in metastatic setting

- 1) Work post CDK4/6 inhibitors and fulfill an unmet need
 - PFS post CDK4/6i with single agent Fulvestrant is ~2 months (**Lindemann et al ASCO2021**)
- 2) Superior to current approved ET in 2/3L metastatic setting (Bardia et al SABCS2021). New SOC?
- 3) Effective in ESR1 WT and in patients whose tumor harbor ESR1 mutation
- 4) Safe and tolerable



Abstract GS3-02

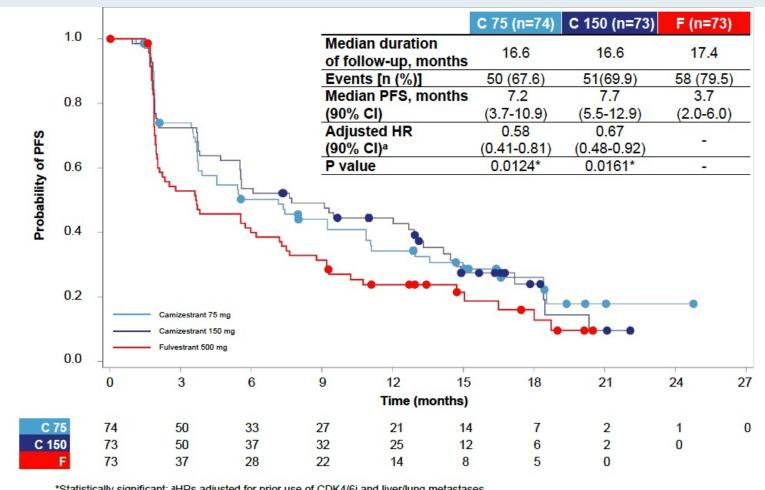
Camizestrant, a next-generation oral SERD vs fulvestrant in post-menopausal women with advanced ER-positive HER2-negative breast cancer: Results of the randomized, multi-dose Phase 2 SERENA-2 trial

Mafalda Oliveira, MD, PhD¹, Denys Pominchuk, PhD², Zbigniew Nowecki MD³, Erika Hamilton, MD⁴, Yaroslav Kulyaba, MD⁵, Timur Andabekov, PhD⁶, Yevhen Hotko, MD⁷, Tamar Melkadze, MD⁶, Gia Nemsadze, MD, PhD⁶, 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, PhD¹⁶, Bistra Kirova, MBChB, MSc¹ց, Teresa Klinowska, PhD²⁰, Justin P O Lindemann, MBChB, MB¹⁶, Delphine Lissa, PharmD, PhD¹⁶, Alastair Mathewson, PhD¹⁶, Christopher J Morrow, PhD¹⁶, 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; ⁶Oncology and Hematology Department, Academician Fridon Todua Medical Center – Research Institute of Clinical Medicine Tbilisi, Georgia; ⁶The Institute of Clinical Oncology, Tbilisi, Georgia; ⁶Multidisciplinary Breast Center, University Hospitals Leuven – Campus Gasthuisberg, Leuven, Belgium; ¹¹Bukovynsky Clinical Oncology Center, Chernivtsi, Ukraine; ¹²Pyatigorsky 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; ¹⁵Center of Oncoradiology, Bács-Kiskun County Teaching Hospital, Kecskemét, Hungary; ¹¬Republican Clinical Oncology Dispensary of the Ministry of Health of the Republic of Tatarstan, Russian Federation; ¹³Research and Early Development, Oncology R&D, AstraZeneca, Cambridge, UK; ¹¹Parexel International, Prague, Czech Republic; ^{2²}Parexel International, Bloemfontein, South Africa; ²³Helsicore Israeli Georgian Medical Research Clinic, Tbilisi, Georgia.



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

*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



Discontinuation of the Amcenestrant Clinical Development Program Press Release: August 17, 2022

"[Manufacturer] is discontinuing the global clinical development program of amcenestrant, an investigational oral selective estrogen receptor degrader (SERD). The decision is based on the outcome of a prespecified interim analysis of the Phase 3 AMEERA-5 trial evaluating amcenestrant in combination with palbociclib compared with letrozole in combination with palbociclib in patients with estrogen receptor-positive (ER+)/human epidermal growth factor receptor 2-negative (HER2-) advanced breast cancer.

An Independent Data Monitoring Committee (IDMC) found that amcenestrant in combination with palbociclib did not meet the prespecified boundary for continuation in comparison with the control arm and recommended stopping the trial. No new safety signals were observed. Trial participants will be transitioned to letrozole in combination with palbociclib or another appropriate standard of care therapy, as determined by their physician.

All other studies of amcenestrant, including in early-stage breast cancer (AMEERA-6), will be discontinued."



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	Camizestrant + palbociclibAnastrozole + palbociclib	Untreated ABC	August 2026
persevERA	978	Giredestrant + palbociclibLetrozole + palbociclib	Untreated ABC	April 2024
SERENA-6	302	 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	 Imlunestrant Imlunestrant + abemaciclib Investigator's choice of ET 	ABC previously treated with ET + CDK4/6i	April 2024
evERA	320	Giredestrant + everolimusExemestane + everolimus	ABC previously treated with ET + CDK4/6i	July 2024
heredERA	812	 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	Node-negative or node-positive	 Giredestrant +/- LHRH agonist ET of physician's choice +/- LHRH agonist
EMBER-4	6,000	 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 	 Imlunestrant ET of physician's choice
EORTC-2129-BCG	220	 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 	 Elacestrant Tamoxifen or aromatase inhibitor at time of ctDNA detection

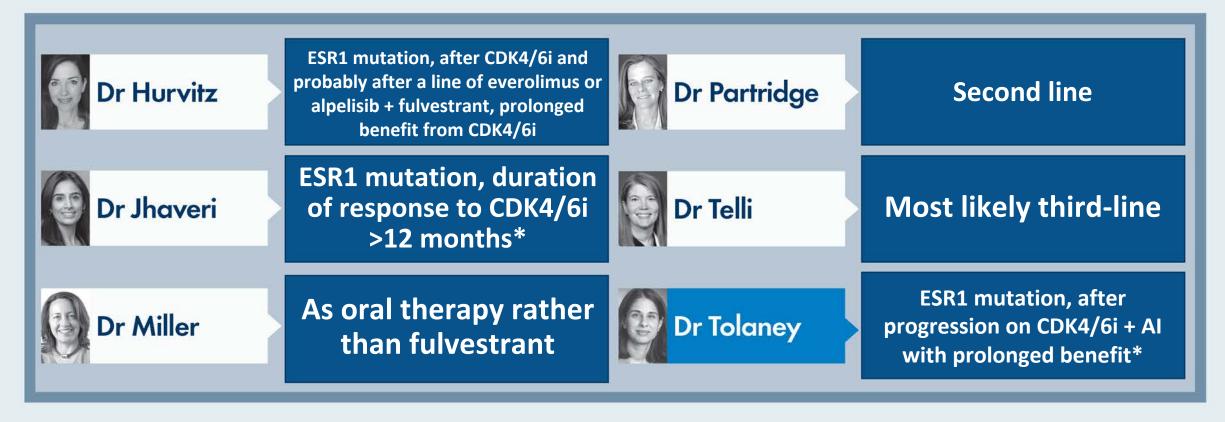
ctDNA = circulating tumor DNA



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

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



Case Presentation: 72-year-old woman with multiregimenrecurrent ER/PR-positive, HER2-low (IHC 1+) metastatic breast cancer receives T-DXd



Dr Henna Malik (Houston, Texas)



The Breast 67 (2023) 116-123



Contents lists available at ScienceDirect

The Breast



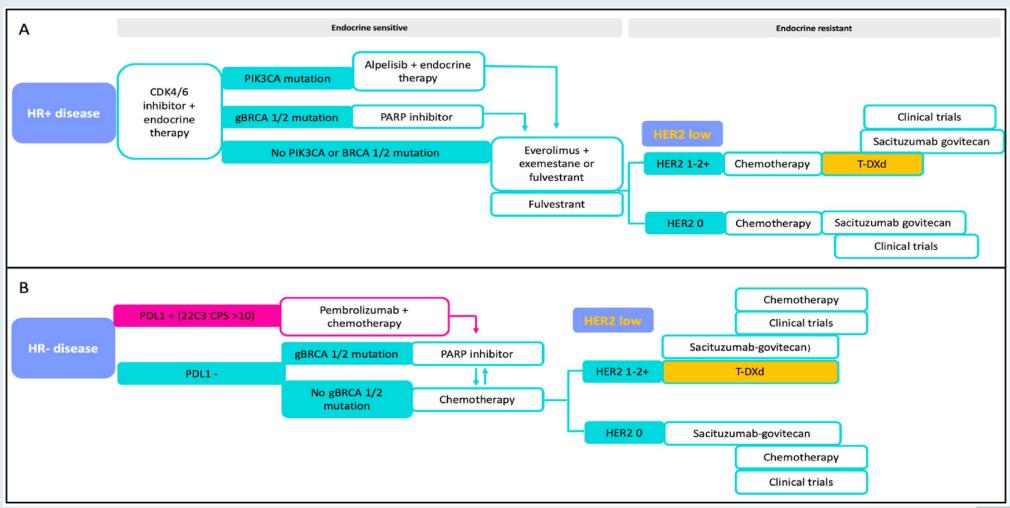


How I treat HER2-low advanced breast cancer

Ilana Schlam^a, Sara M. Tolaney^b, Paolo Tarantino^{b,c,*}



Proposed Treatment Algorithm for Hormone Receptor-Positive and Hormone Receptor-Negative HER2-Low Breast Cancer









Expert Review of Anticancer Therapy

January 24, 2023;[Online ahead of print].

ISSN: (Print) (Online) Journal homepage: https://www.tandfonline.com/loi/iery20

The efficacy of trastuzumab-deruxtecan for the treatment of patients with advanced pretreated HER2-low breast cancer

Ilana Schlam, Sara M. Tolaney & Paolo Tarantino



JAMA Oncol 2022 September 15;[Online ahead of print].

Clinical Review & Education

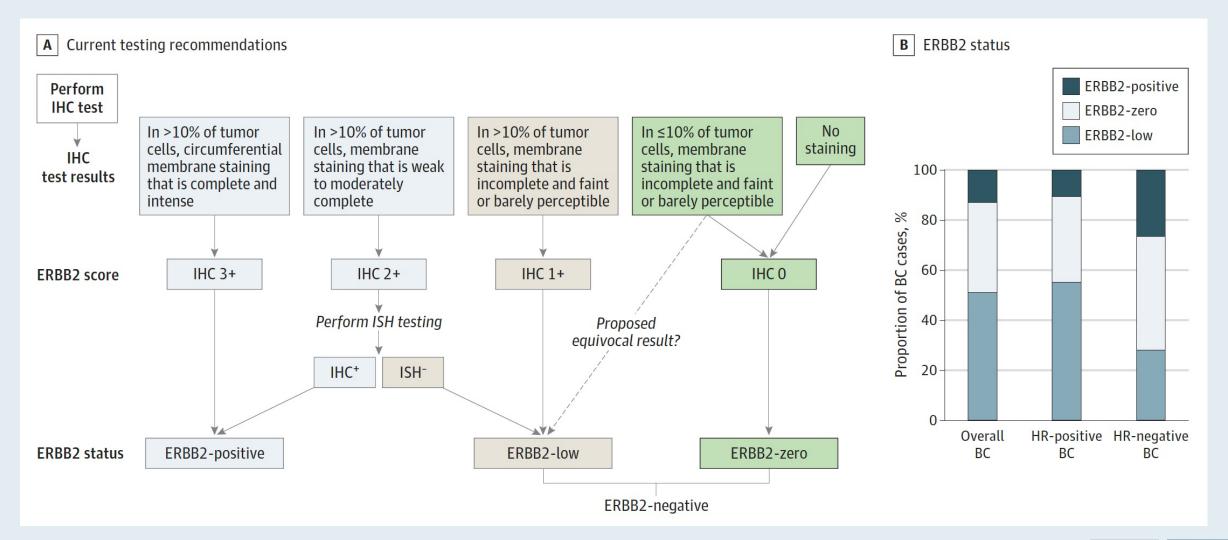
JAMA Oncology | Review

An Overview of Clinical Development of Agents for Metastatic or Advanced Breast Cancer Without *ERBB2* Amplification (HER2-Low)

Aleix Prat, MD, PhD; Aditya Bardia, MD, MPH; Giuseppe Curigliano, MD, PhD; M. Elizabeth H. Hammond, MD; Sibylle Loibl, MD, PhD; Sara M. Tolaney, MD, MPH; Giuseppe Viale, MD

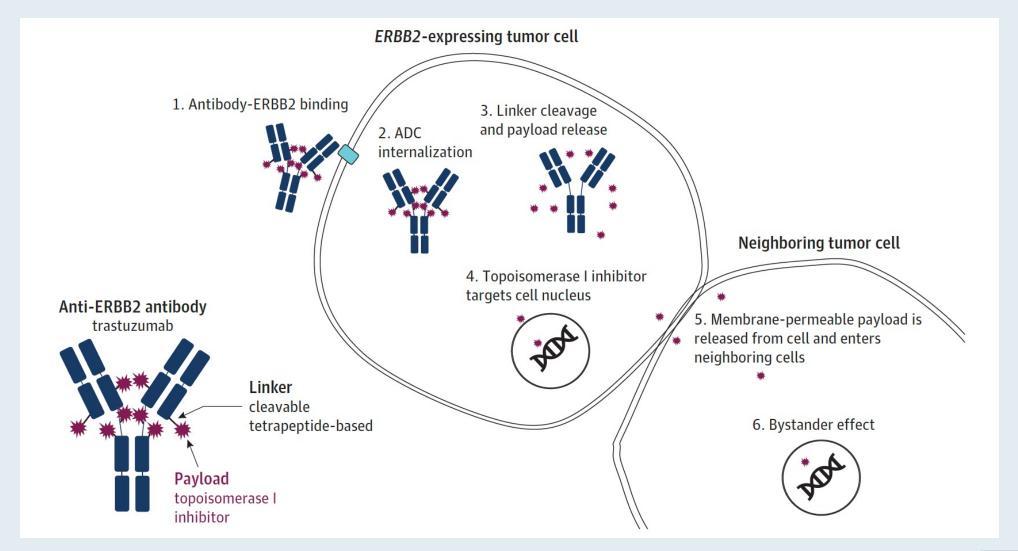


Testing for ERBB2 (HER2) Status in Breast Cancer





Mechanism of Action of Trastuzumab Deruxtecan





JAMA Oncol 2022 August 1;8(8):1177-83.

Research

JAMA Oncology | Original Investigation

Prognostic and Biologic Significance of ERBB2-Low Expression in Early-Stage Breast Cancer

Paolo Tarantino, MD; Qingchun Jin, MPH; Nabihah Tayob, PhD; Rinath M. Jeselsohn, MD; Stuart J. Schnitt, MD; Julie Vincuilla, BS; Tonia Parker, BS; Svitlana Tyekucheva, PhD; Tianyu Li, MS; Nancy U. Lin, MD; Melissa E. Hughes, MSc; Anna C. Weiss, MD; Tari A. King, MD; Elizabeth A. Mittendorf, MD, PhD; Giuseppe Curigliano, MD, PhD; Sara M. Tolaney, MD, MPH



Comprehensive Genomic Characterization of HER2-Low Breast Cancer

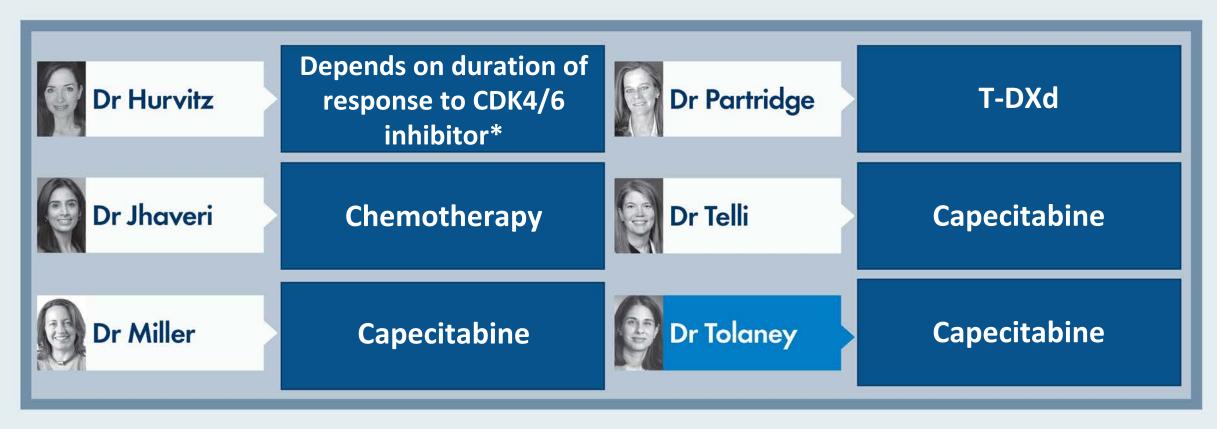
Tarantino P et al.

SABCS 2022; Abstract HER2-05.



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



Meet The Professor with Dr Tolaney

Introduction

MODULE 1: Hormone Receptor-Positive Breast Cancer

MODULE 2: Triple-Negative Breast Cancer (TNBC)

- Dr Agrawal: 45-year-old woman with node-positive localized TNBC has residual disease after neoadjuvant pembrolizumab/chemotherapy and surgery
- Dr Zelkowitz: 46-year-old woman with TxN1 BRCA-WT TNBC

MODULE 3: Appendix



Case Presentation: 45-year-old woman with node-positive localized TNBC has residual disease after neoadjuvant pembrolizumab/chemotherapy and surgery



Dr Laila Agrawal (Louisville, Kentucky)



Case Presentation: 46-year-old woman with TxN1 BRCA-WT TNBC



Dr Richard Zelkowitz (Bridgeport, Connecticut)



Hematol Oncol Clin North Am 2023 Feb;37(1):133-50.

Role of Immunotherapy in Early- and Late-Stage Triple-Negative Breast Cancer

Stefania Morganti, мр^{а,b,c,d,e}, Sara M. Tolaney, мр, мрн^{а,b,c,*}



PERSPECTIVE OPFN

Immunotherapy for early triple negative breast cancer: research agenda for the next decade

Paolo Tarantino (1)1, Chiara Corti (1)1,2, Peter Schmid³, Javier Cortes (1)1,5,6,7, Elizabeth A. Mittendorf^{8,9}, Hope Rugo (1)1, Sara M. Tolaney (D^{11,12}, Giampaolo Bianchini (D¹³, Fabrice Andrè (D¹⁴ and Giuseppe Curigliano (D^{1,2 ⋈}



Immunotherapy for the Treatment of Triple-Negative Breast Cancer

PRESENTED BY SARA M. TOLANEY, MD, MPH, AND LINDSAY SHAW, ANP-BC, AOCNP®

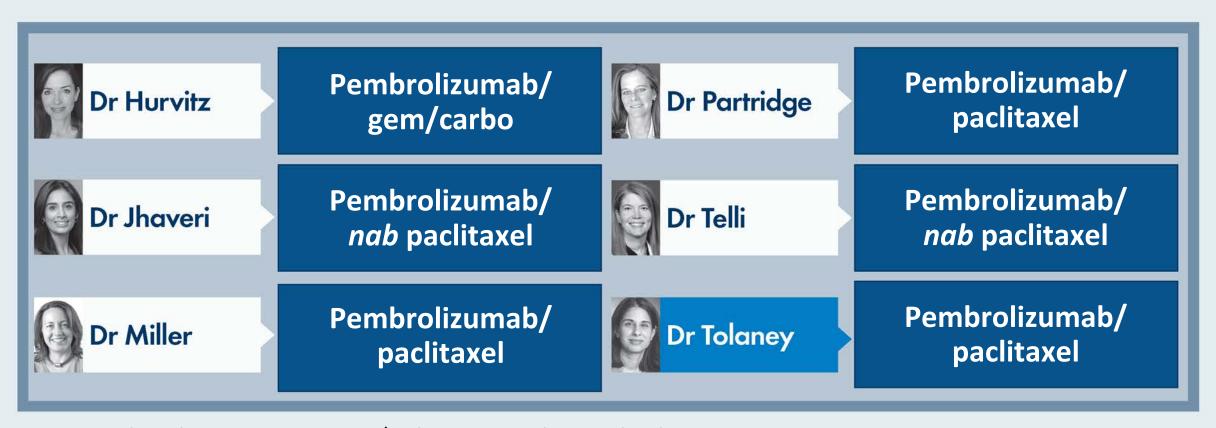
J Adv Pract Oncol 2022;13(3):298-301.



What would be your preferred treatment approach for a 60-year-old patient with a germline BRCA mutation and de novo metastatic TNBC and the following PD-L1 CPS?

	PD-L1 CPS 0	PD-L1 CPS >10
Dr Hurvitz	Nonplatinum chemotherapy	Pembrolizumab/nab paclitaxel
Dr Jhaveri	Olaparib	Pembrolizumab/nab paclitaxel
Dr Miller	Olaparib or talazoparib – coin flip	Pembrolizumab/paclitaxel
Dr Partridge	Olaparib	Olaparib
Dr Telli	Single agent PARPi or induction chemo → PARPi maintenance*	Pembrolizumab/gem/carbo
Dr Tolaney	Olaparib	Pembrolizumab/gem/carbo

What would be your preferred treatment approach for a 60-yearold patient with <u>BRCA wild-type</u> de novo metastatic TNBC with a PD-L1 CPS of >10?



CPS = combined positive score; gem/carbo = gemcitabine carboplatin



Meet The Professor with Dr Tolaney

Introduction

MODULE 1: Hormone Receptor-Positive Breast Cancer

MODULE 2: Triple-Negative Breast Cancer

MODULE 3: Appendix



HR-Positive Localized Breast Cancer



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

<u>Trial Assigning IndividuaLized Options for TReatment (TAILORx):</u> 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









Reshaping the future of patient care



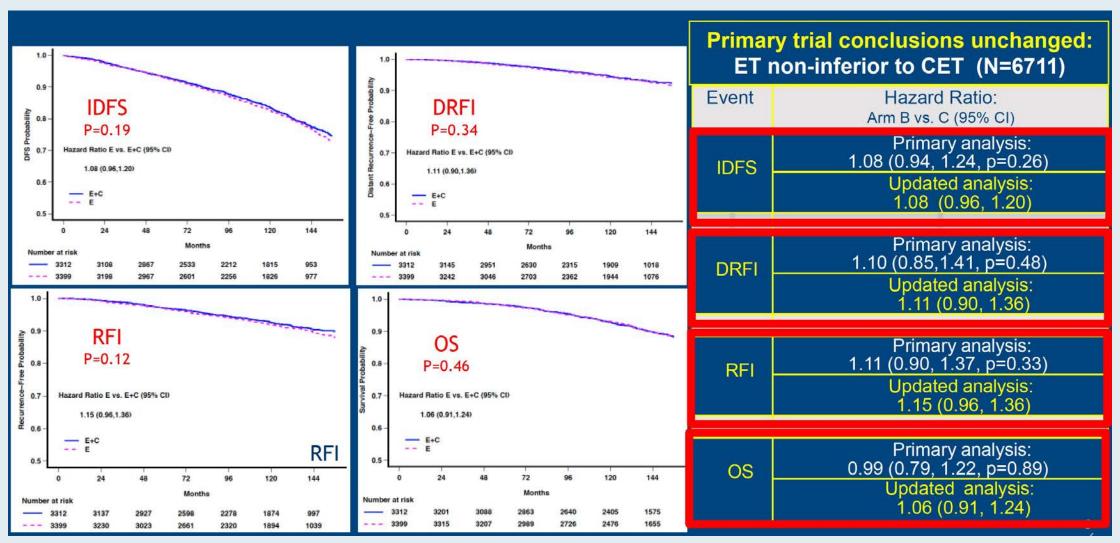




Funding: U.S. NIH/NCI U10CA180820, U10CA180794, UG1CA189859, UG1CA190140, UG1CA233160, UG1CA23337, UG1CA189869; U.S. Postal Service Breast Cancer Stamp Fund; Canadian Cancer Society Research Institute grants 015469, 021039; Breast Cancer Research Foundation, Komen Foundation.



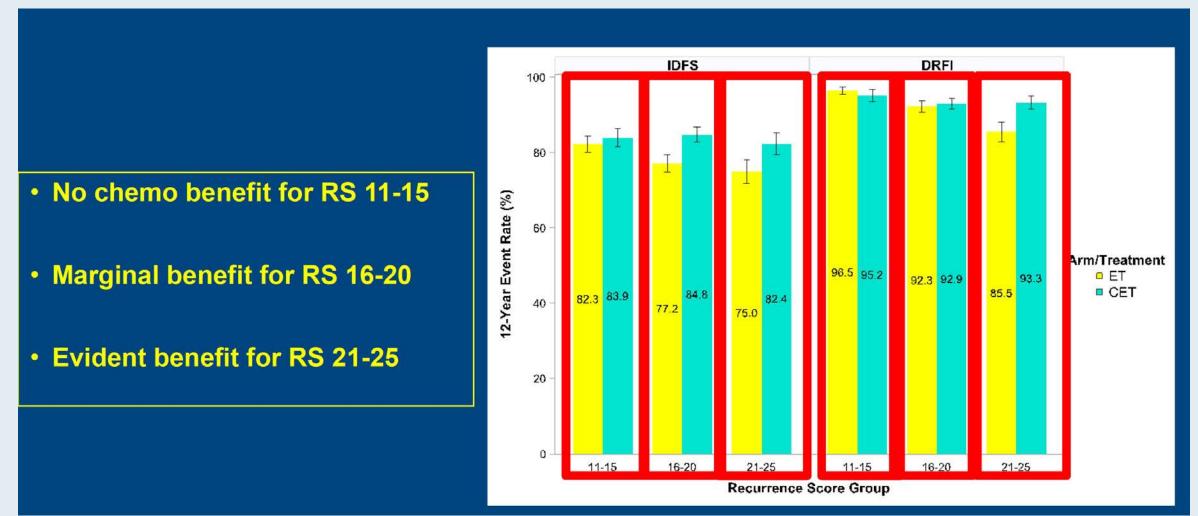
TAILORx Updated Analysis: Kaplan-Meier Curves in RS 11-25 Arms (ITT Population)







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





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; ⁵Landspitali – 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;

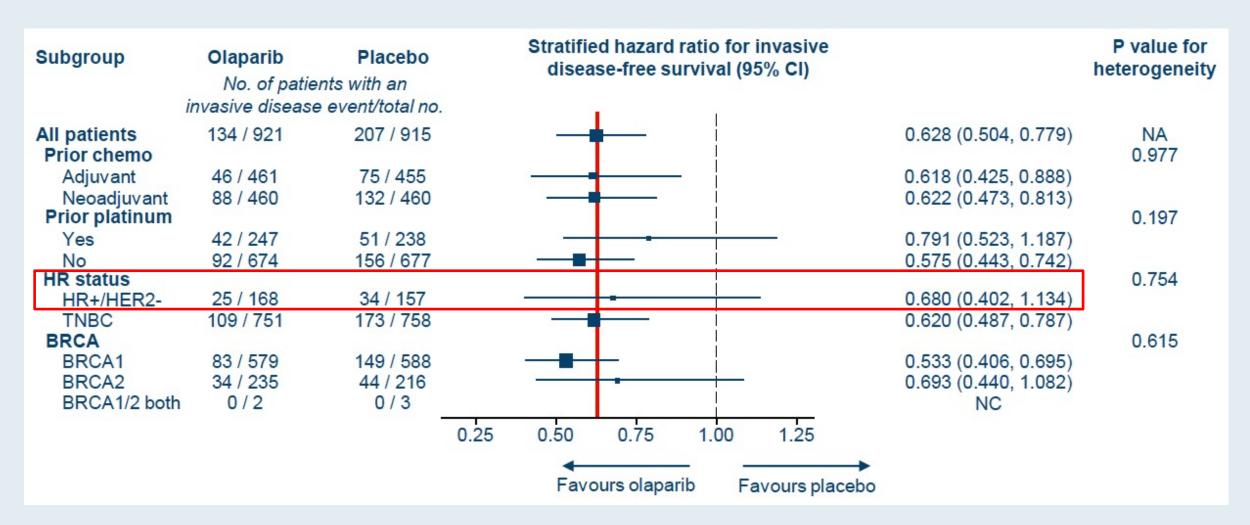
¹⁴Center for Breast Health, Medical University of Vienna, Vienna, Austria; ¹⁵Department of Oncology, Instituto de Oncología de Rosario, Rosario, Santa Fe, Argentina; ¹⁶Skane University Hospital, Lund, Sweden; ¹⁷Department of Oncology, Edinburgh Cancer Centre, Edinburgh, United Kingdom; ¹⁸Frontier Science Scotland, Kincraig, United Kingdom; ¹⁹Department of Clinical Research, Houston Methodist Cancer Center, Houston, TX, USA







OlympiA: IDFS (Primary Endpoint) – Subgroup Analysis



IDFS = invasive disease-free survival



JOURNAL OF CLINICAL ONCOLOGY

ASCO SPECIAL ARTICLE

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



The NEW ENGLAND JOURNAL of MEDICINE

2015;372(10):923-32

ORIGINAL ARTICLE

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)
- Owing to missing primary endpoint data, sensitivity analyses were performed, and the results were consistent with the main findings



Localized Triple-Negative Breast Cancer (TNBC)



JOURNAL OF CLINICAL ONCOLOGY

REVIEW ARTICLE

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



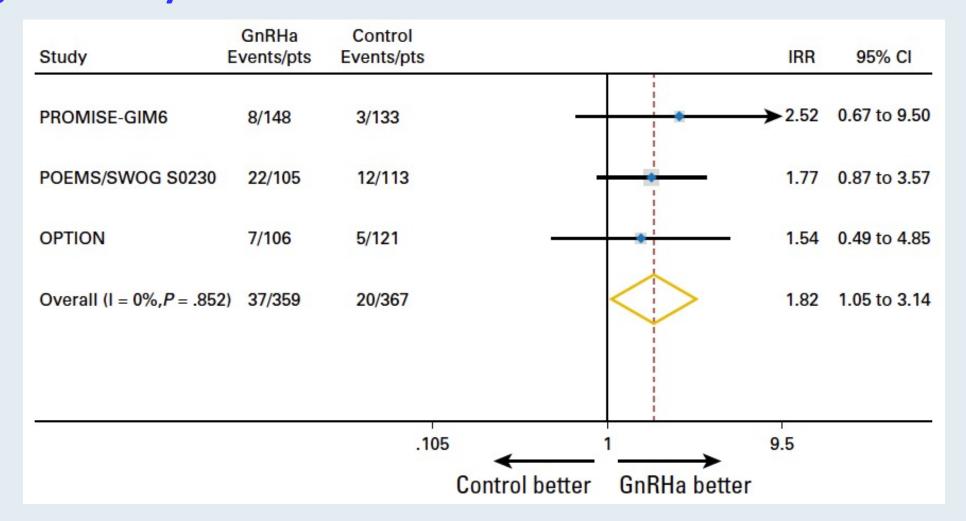
Meta-analysis of Gonadotropin-Releasing Hormone Analogues During Chemotherapy for Localized Breast Cancer: Premature Ovarian Insufficiency by Trial

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

Study	GnRHa Events/pts	Control Events/pts			OR	95% CI
PROMISE-GIM6	16/148	40/133			0.29	0.15 to 0.57
POEMS/SWOG S0230	5/66	15/69	· i	-	0.33	0.10 to 1.14
Moffitt-led trial	3/26	2/21		+	1.17	0.14 to 9.55
GBG-37 ZORO	6/28	13/29	-	 	0.54	0.14 to 2.07
OPTION	21/95	41/107			0.41	0.20 to 0.81
Overall (I = 0%,P = .726) 51/363	111/359	\Diamond		0.37	0.25 to 0.57
		.098	2 GnRHa better	1 Control better	10.2	



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





HR-Positive Metastatic Breast Cancer



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

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

Bardia A,^{1*} Bidard FC,^{2*} Neven P,³ Streich G,⁴ Montero AJ,⁵ Forget F, ⁶ Mouret-Reynier MA,⁷ Sohn JH,⁸ Taylor D,⁹ Harnden KK,¹⁰ Khong H,¹¹ Kocsis J,¹² Dalenc F,¹³ Dillon P,¹⁴ Babu S,¹⁵ Waters S,¹⁶ Deleu I,¹⁷ Garcia-Saenz J,¹⁸ Bria E,¹⁹ Cazzaniga M,²⁰ Aftimos P,²¹ Cortes J,²² Tonini G,²³ Tarek Sahmoud,²⁴ Habboubi N,²⁴ Grzegorzewski KJ,²⁴ **Kaklamani V**²⁵**



^{*=}Co-first

^{**=}Presenting author

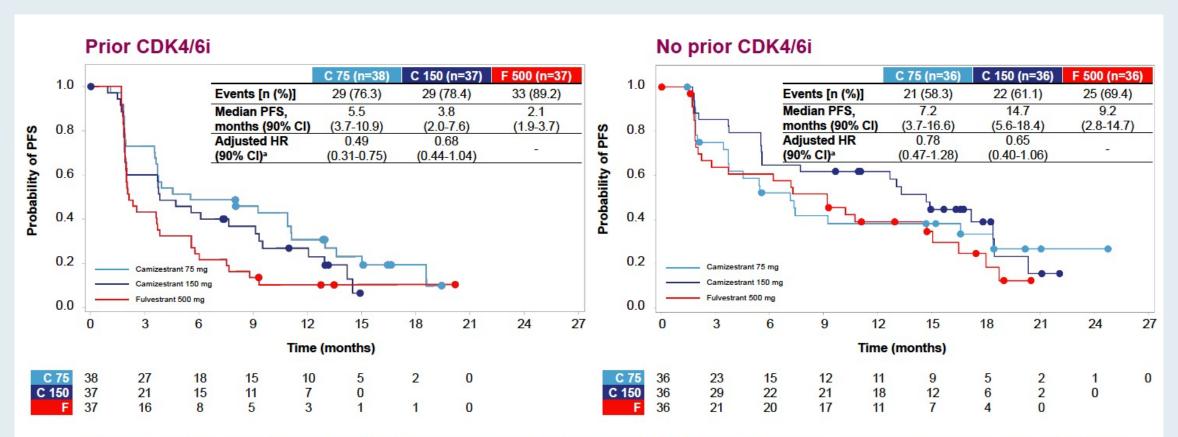
^{1.} Massachusetts General Hospital Cancer Center, Harvard Medical School, Boston, MA, USA; 2. Institut Curie, Paris and Saint Cloud, France 3. Universitare Ziekenhuizen (UZ) - Leuven Cancer Institute, Leuven, Belgium; 4. Centro Médico Austral, Buenos Aires, Argentina; 5. University Hospitals Seidman Cancer Center- Case Western Reserve University, Cleveland, OH, USA; 6. Centre Hospitalier de l'Ardenne - Site de Libramont, Libramont-Chevigny, Belgium; 7. Centre Jean Perrin, Clermont-Ferrand, France; 8. Yonsei Cancer Center, Yonsei University Health System -Medical Oncology, Seoul, Republic of Korea; 9. Universite catholiqué de Louvain, CHU UCL Namur—Site Sainte-Elisabeth, Namur, Belgium; 10. Inova Schar Cancer Institute, Fairfax, VA, USA; 11. Moffit Cancer Center & Research Institute, Tampa, FL, USA; 12. Bács-Kiskun Megyei Kórház, Kecskemét, Hungary; 13. Institut Claudius Regaud, IUCT-Oncopole, Toulouse, France; 14. University of Virginia Cancer Center, Charlottesville, VA, USA; 15. Fort Wayne Medical Oncology and Hematology, Fort Wayne, IN, USA; 16. Velindre Cancer Centre, Cardiff, UK; 17. AZ Nikolaas, Sint-Niklaas, Belgium; 18. Instituto de Investigación Sanitaria Hospital Clinico San Carlos (IdISSC), Madrid, Spain; 19. Fondazione Policlinico Universitario Agostino Gemelli IRCCS, Università Cattolica del Sacro Cuore, Roma, Italy; 20. Ospedale San Gerardo-ASST Monza, Monza, Italy; 21. Institut Jules Bordet – Université Libre de Bruxelles, Brussels, Belgium; 22. International Breast Cancer Center (IBCC), Quiron Group, Barcelona, Spain; 23. Menarini Group, Florence, Italy; 24. Stemline Therapeutics/Menarini Group, New York, NY, USA; 25. University of Texas Health Sciences Center, San Antonio, TX, USA

EMERALD: PFS Analyses by CDK4/6 Inhibitor Duration

Duration of CDK4/6i	<6 months		6-12 months		12-18 months		≥18 months	
All patients	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)
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	Elacestrant (n = 9)	SOC ET (n = 8)	Elacestrant (n = 25)	SOC ET (n = 21)	Elacestrant (n = 23)	SOC ET (n = 25)	Elacestrant (n = 55)	SOC ET (n = 56)
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



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



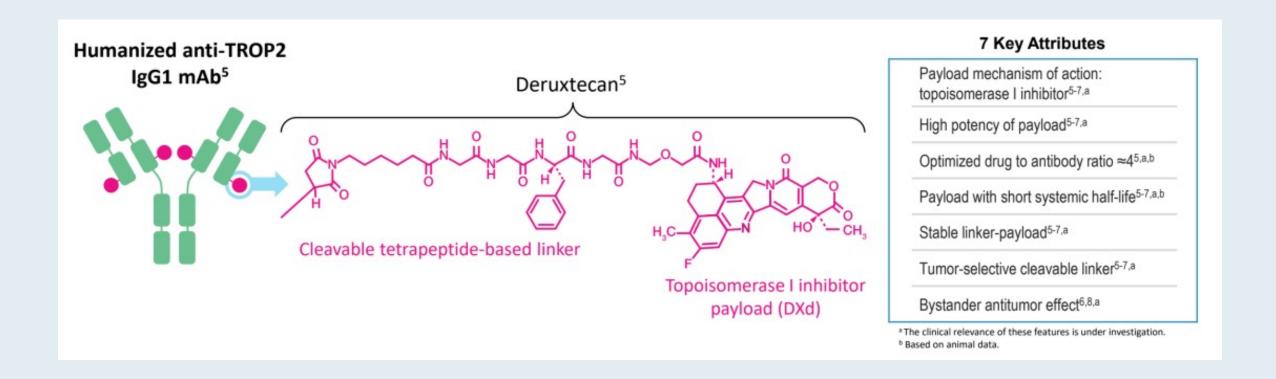
 In the sub-population of patients previously treated with CDK4/6i + endocrine therapy, camizestrant at both doses produces a clinically meaningful improvement in PFS over fulvestrant

^aHRs adjusted for liver/lung metastases

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



Datopotamab Deruxtecan Mechanism of Action







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 Niikura, 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





Shanu Modi, MD

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JULY 7, 2022

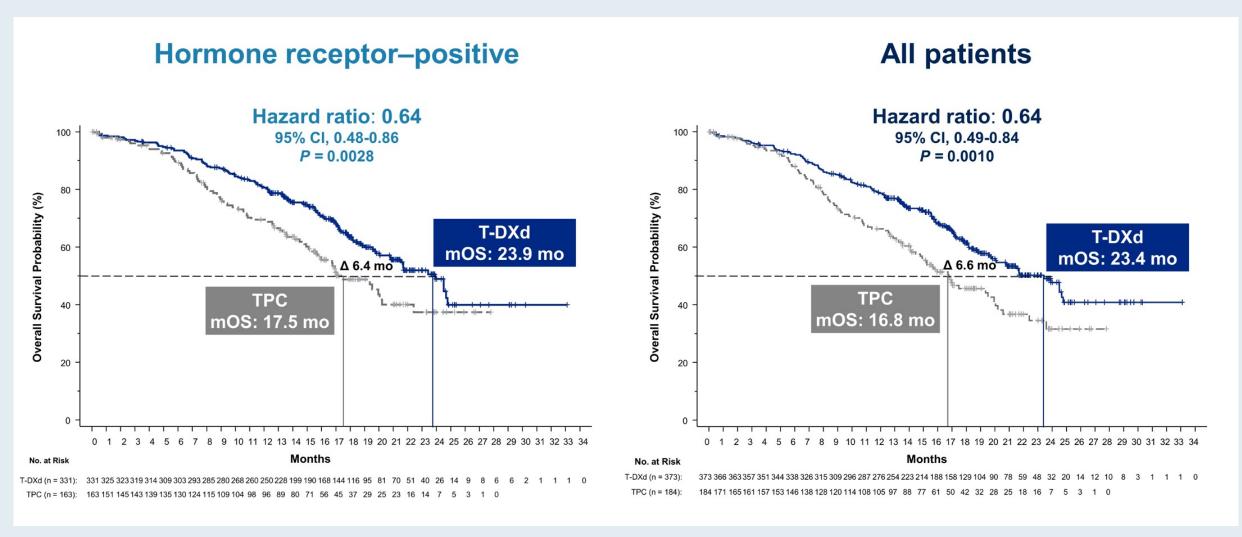
VOL. 387 NO. 1

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. 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*



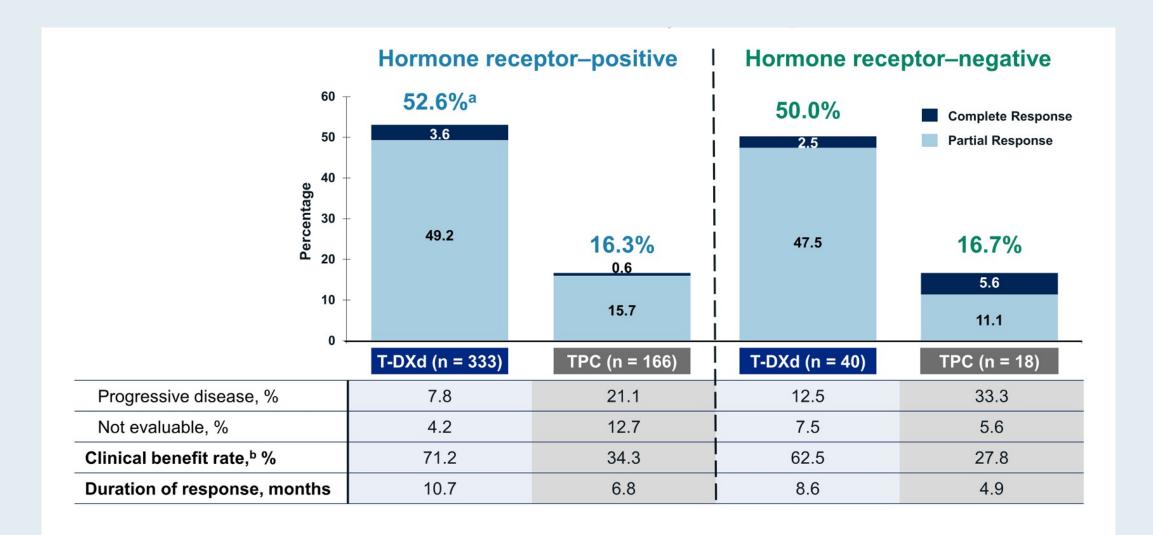
DESTINY-Breast04: OS for HR-Positive and All Patients



mOS = median overall survival



DESTINY-Breast04: Confirmed Objective Response Rate





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 (<i>p</i> -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%	_	





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Cases from the Community: Investigators Discuss Available Research Guiding the Care of Patients with Gastroesophageal and Hepatobiliary Cancers — A 2023 Post-ASCO GI Webcast

A CME/MOC-Accredited Virtual Event

Wednesday, March 8, 2023 5:00 PM - 6:00 PM ET

General Medical Oncologists

Eric H Lee, MD, PhD
Neil Morganstein, MD
Swati Vishwanathan, MD

Moderator Neil Love, MD



Thank you for joining us!

Please take a moment to complete the survey currently up on Zoom. Your feedback is very important to us. The survey will remain open up to 5 minutes after the meeting ends.

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

