

# Inside the Issue: Optimizing the Management of Metastatic BRCA-Negative, Triple-Negative Breast Cancer

*A CME/MOC-Accredited Live Webinar*

**Monday, September 11, 2023**

**5:00 PM – 6:00 PM ET**

## **Faculty**

**Hope S Rugo, MD**

**Tiffany A Traina, MD, FASCO**

## **Moderator**

**Neil Love, MD**

# Faculty



**Hope S Rugo, MD**

Professor of Medicine  
Winterhof Family Professor of Breast Cancer  
Director, Breast Oncology and Clinical Trials Education  
Medical Director, Cancer Infusion Services  
University of California, San Francisco  
Helen Diller Family Comprehensive Cancer Center  
San Francisco, California



**Tiffany A Traina, MD, FASCO**

Vice Chair, Department of Medicine  
Section Head  
Triple-Negative Breast Cancer Clinical Research Program  
Associate Attending Physician  
Breast Medicine Service  
Memorial Sloan Kettering Cancer Center  
Associate Professor  
Weill Cornell Medical College  
New York, New York



**Moderator**

**Neil Love, MD**

Research To Practice

## Commercial Support

This activity is supported by educational grants from Gilead Sciences Inc and Merck.

## 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, 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, Legend Biotech, 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, R-Pharm US, 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.

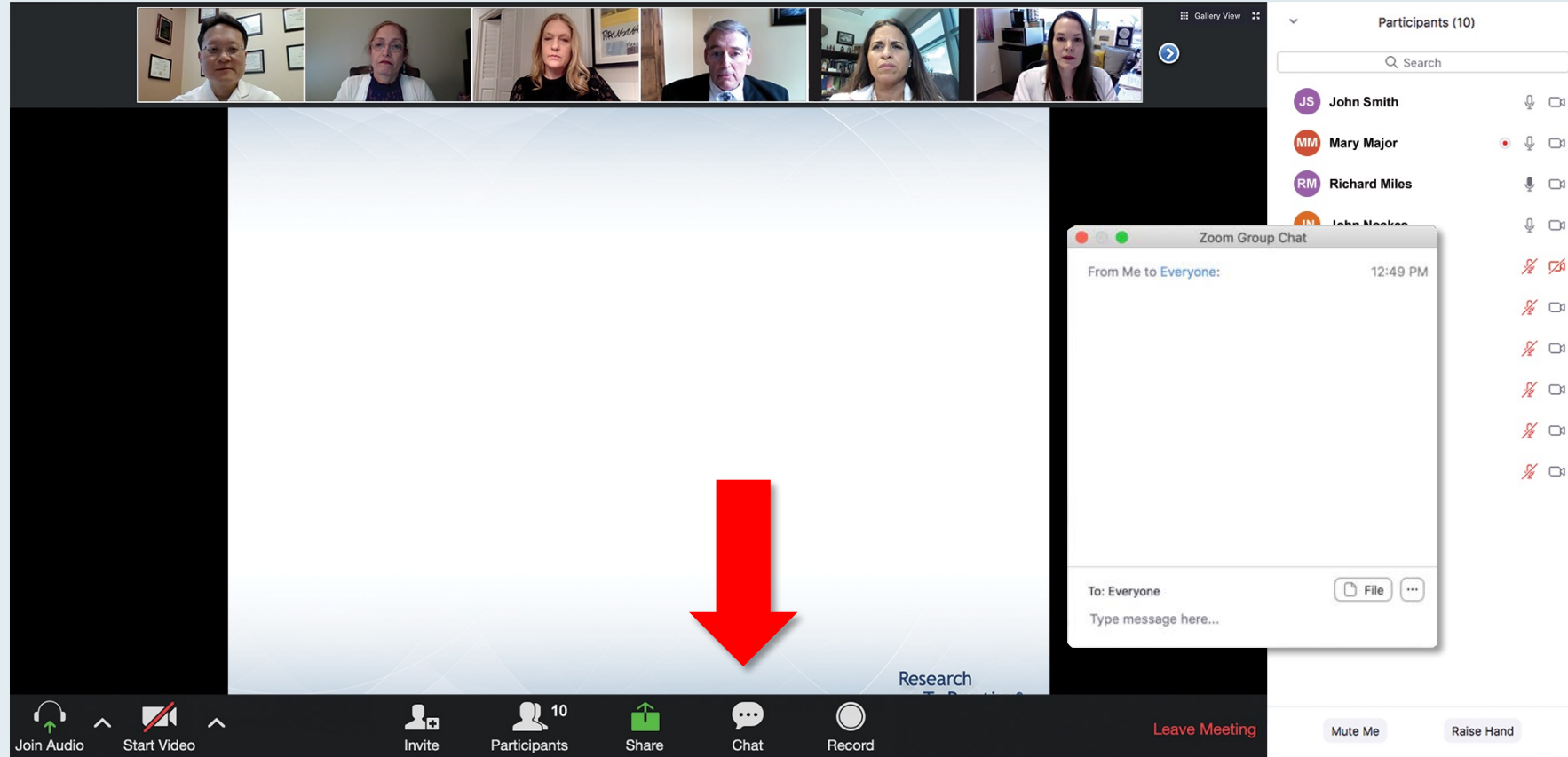
## Dr Rugo — Disclosures

<b>Consultancy/Advisory Support</b>	Daiichi Sankyo Inc, Napo Pharmaceuticals Inc, Puma Biotechnology Inc, Viatris
<b>Contracted Research</b>	Astellas, AstraZeneca Pharmaceuticals LP, Daiichi Sankyo Inc, F Hoffmann-La Roche Ltd, Genentech, a member of the Roche Group, Gilead Sciences Inc, GSK, Lilly, Merck, Novartis, OBI Pharma Inc, Pfizer Inc, Pionyr Immunotherapeutics, Sermonix Pharmaceuticals, Stemline Therapeutics Inc, Taiho Oncology Inc, Veru Inc
<b>Travel Support to Academic Meetings</b>	AstraZeneca Pharmaceuticals LP, Gilead Sciences Inc, Merck

## Dr Traina — Disclosures

<b>Consulting or Advisory Role</b>	AstraZeneca Pharmaceuticals LP, Biotheranostics Inc, Daiichi Sankyo Inc, Exact Sciences Corporation, G1 Therapeutics Inc, GE Healthcare, Genentech, a member of the Roche Group, Gilead Sciences Inc, GSK, Hengrui Therapeutics Inc, Merck, Novartis, Pfizer Inc, Stemline Therapeutics Inc, TerSera Therapeutics LLC
<b>Research Funding (to Institution)</b>	Astellas, AstraZeneca Pharmaceuticals LP, Ayala Pharmaceuticals, Daiichi Sankyo Inc, Genentech, a member of the Roche Group, Pfizer Inc

# 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 participants: RTP Coordinat..., Kirsten Miller, RTP Mike Rivera, and Lisa Suarez. Below the thumbnails is a slide titled "Meet The Professor Program Participating Faculty" featuring six faculty members:

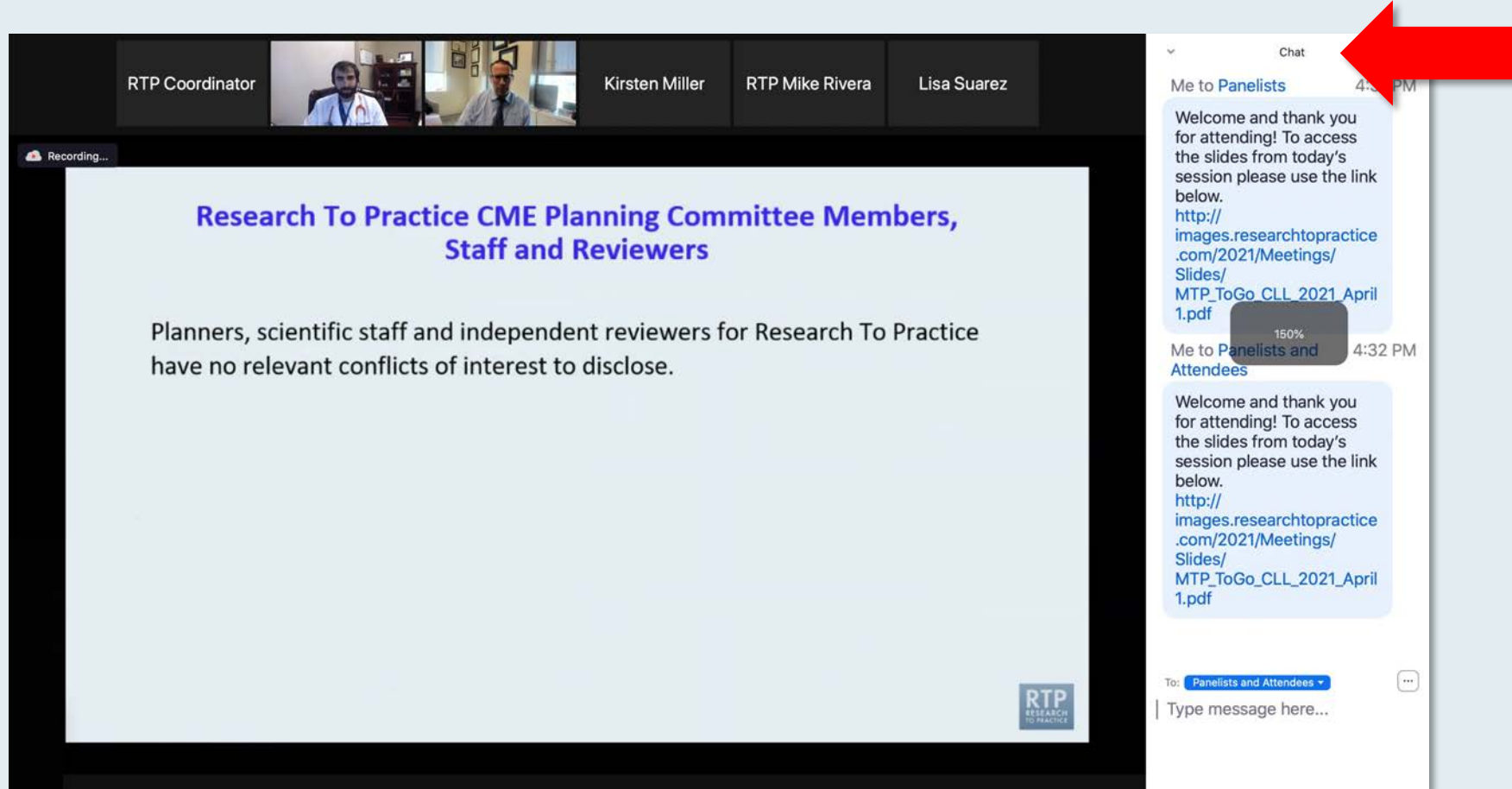
- Nancy L Bartlett, MD**  
Professor of Medicine  
Koman Chair in Medical Oncology  
Washington University School of Medicine  
St Louis, Missouri
- Jonathan W Friedberg, MD, MMSc**  
Samuel E Durand Professor of Medicine  
Director, James P Wilmot Cancer Institute  
University of Rochester  
Rochester,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

On the right side of the interface is a chat window. It shows two messages from "Me to Panelists" and "Me to Panelists and Attendees" at 4:31 PM and 4:32 PM respectively. The messages contain a welcome message and a link to a PDF file: [http://images.researchtopractice.com/2021/Meetings/Slides/MTP\\_ToGo\\_CLL\\_2021\\_April1.pdf](http://images.researchtopractice.com/2021/Meetings/Slides/MTP_ToGo_CLL_2021_April1.pdf). At the bottom of the chat window, there is a "To:" dropdown menu set to "Panelists and Attendees" and a text input field labeled "Type message here...". A red arrow points to the white line above the text input field, indicating where to drag to expand the box.

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

# Familiarizing Yourself with the Zoom Interface

## Increase chat font size



**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 window. At the top, a row of seven participant video thumbnails is visible. The main content area on the left displays a slide titled "Meet The Professor" with the subtitle "Optimizing the Selection and Sequencing of Therapy for Patients with Advanced Gastrointestinal Cancer". Below the title, it says "Wednesday, August 25, 5:00 PM – 6:00 PM EST" and lists "Faculty: Wells A Messersmith, MD" and "Moderator: Neil Love, MD". A "Quick Survey" pop-up window is centered over the slide, listing various treatment combinations with radio button options. To the right of the main content is a "Participants (10)" list showing names and icons for audio, video, and chat status. At the bottom is a Zoom toolbar with icons for Join Audio, Start Video, Invite, Participants, Share, Chat, Record, and a red "Leave Meeting" button.

**Meet The Professor**  
**Optimizing the Selection and Sequencing of Therapy for Patients with Advanced Gastrointestinal Cancer**

Wednesday, August 25, 5:00 PM – 6:00 PM EST

**Faculty**  
Wells A Messersmith, MD

**Moderator**  
Neil Love, MD

**Quick Survey**

- ☐ Ceritinib +/- dexamethasone
- ☐ Pomalidomide +/- dexamethasone
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- ☐ Elotuzumab + lenalidomide +/- dexamethasone
- ☐ Elotuzumab + pomalidomide +/- dexamethasone
- ☐ Daratumumab + lenalidomide +/- dexamethasone
- ☐ Daratumumab + pomalidomide +/- dexamethasone
- ☐ Daratumumab + bortezomib +/- dexamethasone
- ☐ Isaxozimab + Rd
- ☐ Other

Submit

**Participants (10)**

- JS John Smith
- MM Mary Major
- RM Richard Miles
- JN John Noakes
- AS Alice Suarez
- JP Jane Perez
- RS Robert Stiles
- JF Juan Fernandez
- AK Ashok Kumar
- JS Jeremy Smith

Join Audio Start Video Invite Participants Share Chat Record Leave Meeting

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**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)?**

1. Nivolumab/ipilimumab
2. Avelumab/axitinib
3. Pembrolizumab/axitinib
4. Pembrolizumab/lenvatinib
5. Nivolumab/cabozantinib
6. Tyrosine kinase inhibitor (TKI) monotherapy
7. Anti-PD-1/PD-L1 monotherapy
8. Other

**Quick Poll**

- ☐ Nivolumab/ipilimumab
- ☐ Avelumab/axitinib
- ☐ Pembrolizumab/axitinib
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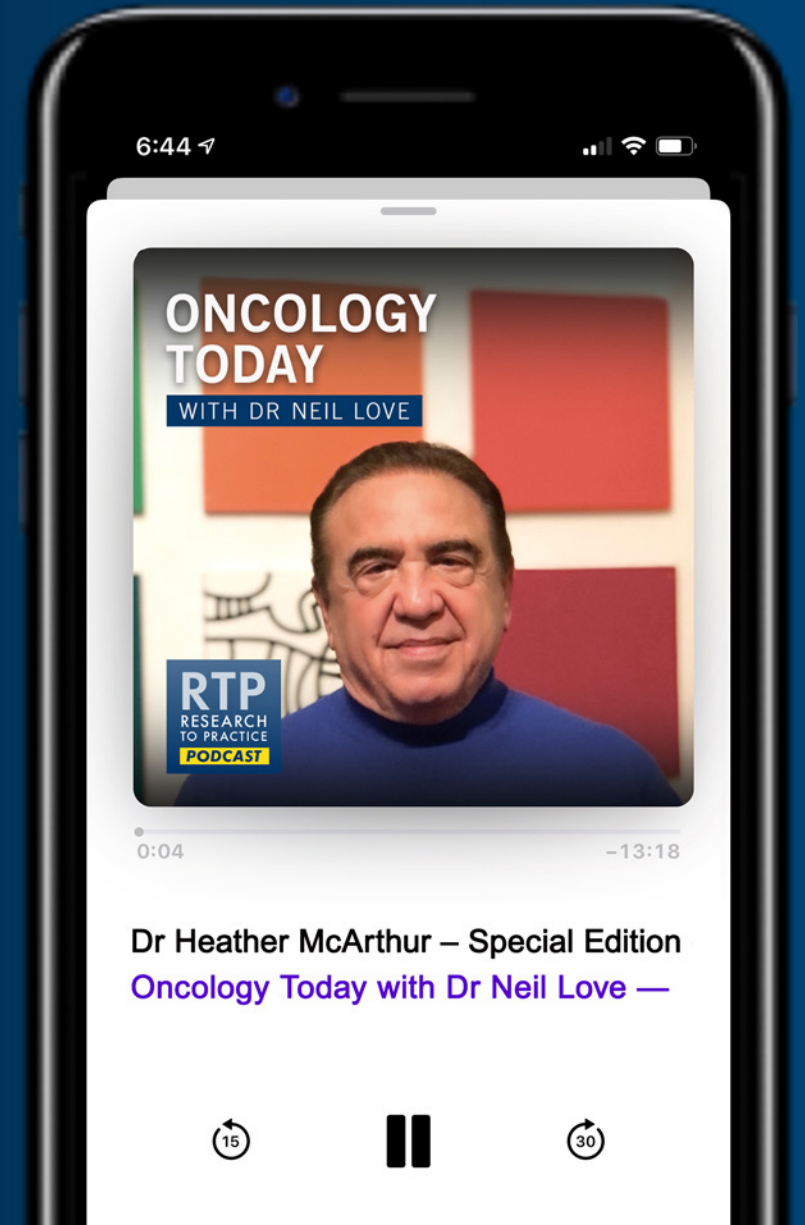
# ONCOLOGY TODAY

WITH DR NEIL LOVE

**Special Edition — Key Presentations  
on Breast Cancer from the 2023  
American Society of Clinical Oncology  
(ASCO) Annual Meeting**



DR HEATHER MCARTHUR  
UT SOUTHWESTERN MEDICAL CENTER





# ***Meet The Professor***

## **Optimizing the Management of Ovarian Cancer**

**Thursday, September 14, 2023**  
**5:00 PM – 6:00 PM ET**

**Faculty**

**Kathleen N Moore, MD, MS**

**Moderator**

**Neil Love, MD**

# ***Meet The Professor***

## **Optimizing the Management of Acute Myeloid Leukemia and Myelodysplastic Syndromes**

**Tuesday, September 19, 2023**

**5:00 PM – 6:00 PM ET**

**Faculty**

**Naval Daver, MD**

**Moderator**

**Neil Love, MD**

# **Practical Perspectives: Investigators Discuss Current Management and Actual Cases of Relapsed/Refractory Metastatic Colorectal Cancer**

*A CME/MOC-Accredited Virtual Event*

**Wednesday, September 20, 2023**

**5:00 PM – 6:00 PM ET**

## **Faculty**

**Kristen K Ciombor, MD, MSCI**

**J Randolph Hecht, MD**

## **Moderator**

**Neil Love, MD**

# Inside the Issue: Integrating Targeted and Immunotherapy into the Management of Localized Non-Small Cell Lung Cancer

*A CME/MOC-Accredited Live Webinar*

**Thursday, September 21, 2023**

**5:00 PM – 6:00 PM ET**

## **Faculty**

**Jamie E Chافت, MD**

**John V Heymach, MD, PhD**

## **Moderator**

**Neil Love, MD**

# What Clinicians Want to Know About the Management of Relapsed/Refractory Mantle Cell Lymphoma

*A CME/MOC-Accredited Virtual Event*

**Tuesday, September 26, 2023**

**5:00 PM – 6:00 PM ET**

## **Faculty**

**Toby A Eyre, MBChB, DipMedEd, MRCP, MD**

**Brad S Kahl, MD**

## **Moderator**

**Neil Love, MD**

# ***Meet The Professor***

## **Optimizing the Management of Gastroesophageal Cancers**

**Thursday, September 28, 2023  
5:00 PM – 6:00 PM ET**

**Faculty**

**Peter C Enzinger, MD**

**Moderator**

**Neil Love, MD**

**Join Us In Person or Virtually**

# **Current Approaches and Future Strategies in Oncology**

*A Multitumor Educational Symposium  
in Partnership with Florida Cancer Specialists*

**Saturday, October 7, 2023**

## **ER-Positive Breast Cancer**

**7:15 AM – 8:15 AM ET**

### **Faculty**

**Harold J Burstein, MD, PhD  
Komal Jhaveri, MD**

## **Prostate Cancer**

**8:15 AM – 9:15 AM ET**

### **Faculty**

**Alicia K Morgans, MD, MPH  
Matthew R Smith, MD, PhD**

### **Moderator**

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**Gregory J Riely, MD, PhD**

**Heather Wakelee, MD, FASCO**

## **Colorectal and Gastroesophageal Cancers**

**10:30 AM – 11:30 AM ET**

### **Faculty**

**Tanios Bekaii-Saab, MD**

**Philip A Philip, MD, PhD, FRCP**

### **Moderator**

**Neil Love, MD**



**Join Us In Person or Virtually**

# **Current Approaches and Future Strategies in Oncology**

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**Saturday, October 7, 2023**

**Chronic Lymphocytic Leukemia**

**11:30 AM – 12:30 PM ET**

**Faculty**

**Asher Chanan-Khan, MD**

**Brad S Kahl, MD**

**Moderator**

**Neil Love, MD**

**Join Us In Person or Virtually**

# **Oncology in the Real World**

*A Daylong Multitumor Educational Symposium  
in Partnership with the American Oncology Network*

**Saturday, October 14, 2023**

## **Lymphoma**

**9:30 AM – 10:30 AM PT  
(12:30 PM – 1:30 PM ET)**

### **Faculty**

**Christopher R Flowers, MD, MS  
Ann S LaCasce, MD, MMSc**

## **Urothelial Bladder Cancer and Renal Cell Carcinoma**

**10:30 AM – 11:30 AM PT  
(1:30 PM – 2:30 PM ET)**

### **Faculty**

**Thomas E Hutson, DO, PharmD  
Guru P Sonpavde, MD**

### **Moderator**

**Neil Love, MD**

**Join Us In Person or Virtually**

# **Oncology in the Real World**

*A Daylong Multitumor Educational Symposium  
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**Saturday, October 14, 2023**

## **Hepatobiliary and Pancreatic Cancers**

**11:50 AM – 12:50 PM PT  
(2:50 PM – 3:50 PM ET)**

### **Faculty**

**Mitesh J Borad, MD  
Anthony El-Khoueiry, MD**

## **Gynecologic Cancers**

**1:30 PM – 2:30 PM PT  
(4:30 PM – 5:30 PM ET)**

### **Faculty**

**Bradley J Monk, MD  
Kathleen N Moore, MD, MS**

### **Moderator**

**Neil Love, MD**

**Join Us In Person or Virtually**

# **Oncology in the Real World**

*A Daylong Multitumor Educational Symposium  
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**Saturday, October 14, 2023**

## **Multiple Myeloma**

**2:30 PM – 3:30 PM PT  
(5:30 PM – 6:30 PM ET)**

### **Faculty**

**Amrita Krishnan, MD  
Robert Z Orlowski, MD, PhD**

## **HER2-Positive and Triple-Negative Breast Cancer**

**3:50 PM – 4:50 PM PT  
(6:50 PM – 7:50 PM ET)**

### **Faculty**

**Sara A Hurvitz, MD, FACP  
Heather McArthur, MD, MPH**

**Moderator  
Neil Love, MD**

***Thank you for joining us!***

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

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Memorial Sloan Kettering Cancer Center  
Associate Professor  
Weill Cornell Medical College  
New York, New York



**Moderator**

**Neil Love, MD**

Research To Practice

# Survey Participants



**Aditya Bardia, MD, MPH**

Director, Breast Cancer Research Program  
Associate Professor  
Harvard Medical School  
Attending Physician  
Massachusetts General Hospital  
Boston, Massachusetts



**Melinda Telli, MD**

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



**Adam M Brufsky, MD, PhD**

Professor of Medicine  
Co-Director, Comprehensive Breast Cancer Center  
UPMC Hillman Cancer Center  
Department of Medicine  
University of Pittsburgh  
Pittsburgh, Pennsylvania

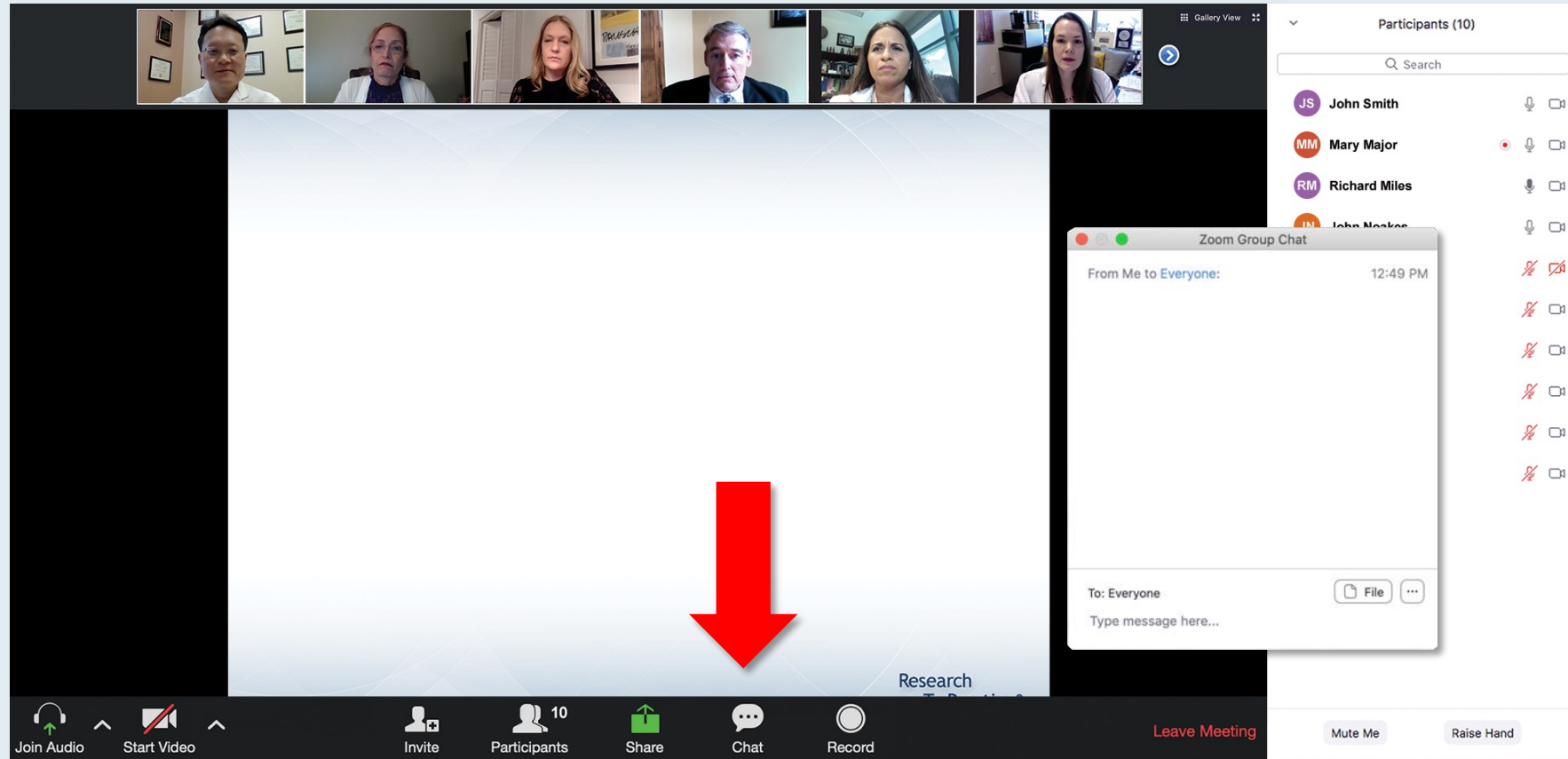


**Sara M Tolaney, MD, MPH**

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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### **Faculty**

**Christopher R Flowers, MD, MS  
Ann S LaCasce, MD, MMSc**

## **Urothelial Bladder Cancer and Renal Cell Carcinoma**

**10:30 AM – 11:30 AM PT  
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### **Faculty**

**Thomas E Hutson, DO, PharmD  
Guru P Sonpavde, MD**

**Moderator  
Neil Love, MD**

**Join Us In Person or Virtually**

# **Oncology in the Real World**

*A Daylong Multitumor Educational Symposium  
in Partnership with the American Oncology Network*

**Saturday, October 14, 2023**

## **Hepatobiliary and Pancreatic Cancers**

**11:50 AM – 12:50 PM PT  
(2:50 PM – 3:50 PM ET)**

### **Faculty**

**Mitesh J Borad, MD  
Anthony El-Khoueiry, MD**

## **Gynecologic Cancers**

**1:30 PM – 2:30 PM PT  
(4:30 PM – 5:30 PM ET)**

### **Faculty**

**Bradley J Monk, MD  
Kathleen N Moore, MD, MS**

### **Moderator**

**Neil Love, MD**

**Join Us In Person or Virtually**

# **Oncology in the Real World**

*A Daylong Multitumor Educational Symposium  
in Partnership with the American Oncology Network*

**Saturday, October 14, 2023**

## **Multiple Myeloma**

**2:30 PM – 3:30 PM PT  
(5:30 PM – 6:30 PM ET)**

### **Faculty**

**Amrita Krishnan, MD  
Robert Z Orlowski, MD, PhD**

## **HER2-Positive and Triple-Negative Breast Cancer**

**3:50 PM – 4:50 PM PT  
(6:50 PM – 7:50 PM ET)**

### **Faculty**

**Sara A Hurvitz, MD, FACP  
Heather McArthur, MD, MPH**

**Moderator  
Neil Love, MD**

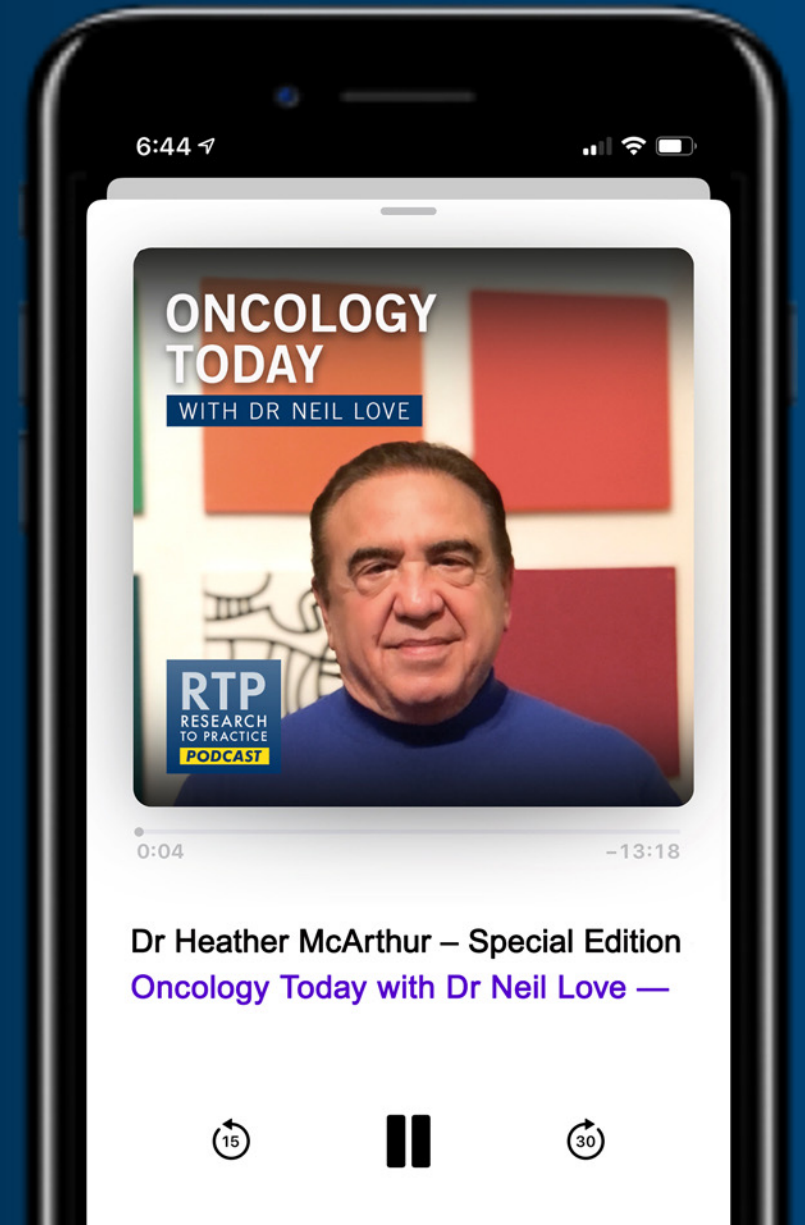
# ONCOLOGY TODAY

WITH DR NEIL LOVE

**Special Edition — Key Presentations  
on Breast Cancer from the 2023  
American Society of Clinical Oncology  
(ASCO) Annual Meeting**



**DR HEATHER MCARTHUR**  
UT SOUTHWESTERN MEDICAL CENTER



# Inside the Issue: Optimizing the Management of Metastatic BRCA-Negative, Triple-Negative Breast Cancer

*A CME/MOC-Accredited Live Webinar*

**Monday, September 11, 2023**

**5:00 PM – 6:00 PM ET**

## **Faculty**

**Hope S Rugo, MD**

**Tiffany A Traina, MD, FASCO**

## **Moderator**

**Neil Love, MD**



## Commercial Support

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## Research To Practice CME Planning Committee Members, Staff and Reviewers

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## Dr Rugo — Disclosures

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## Dr Traina — Disclosures

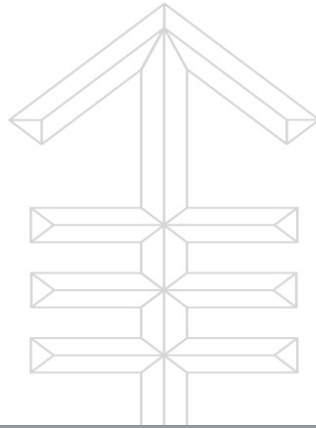
<b>Consulting or Advisory Role</b>	AstraZeneca Pharmaceuticals LP, Biotheranostics Inc, Daiichi Sankyo Inc, Exact Sciences Corporation, G1 Therapeutics Inc, GE Healthcare, Genentech, a member of the Roche Group, Gilead Sciences Inc, GSK, Hengrui Therapeutics Inc, Merck, Novartis, Pfizer Inc, Stemline Therapeutics Inc, TerSera Therapeutics LLC
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Memorial Sloan Kettering  
Cancer Center

# Biomarker-Based Decision-Making for Patients with BRCA-wildtype mTNBC

Tiffany A. Traina, MD FASCO  
Associate Attending, Breast Medicine Service  
Vice Chair, Department of Medicine  
Section Head, TNBC Clinical Research Program  
Memorial Sloan Kettering Cancer Center  
Associate Professor, Weill Cornell Medicine  
September 2023



UCSF Helen Diller Family  
Comprehensive  
Cancer Center



## Current and Future Role of Non-Biomarker-Based Strategies for Patients with BRCA-Negative mTNBC: Focus on TROP2 ADCs

**Hope S. Rugo, MD**  
Professor of Medicine

Director, Breast Oncology and Clinical Trials Education  
University of California San Francisco Comprehensive Cancer Center

# Key Data Sets

## Tiffany A Traina, MD, FASCO

- Hugo RS et al. KEYNOTE-355: Final results from a randomized, double-blind phase III study of first-line pembrolizumab + chemotherapy vs placebo + chemotherapy for metastatic TNBC. ESMO 2021;Abstract LBA16.
- Cortes J et al. Pembrolizumab plus chemotherapy in advanced triple-negative breast cancer. *N Engl J Med* 2022;387(3):217-26.
- Tung NM et al. TBCRC 048: Phase II study of olaparib for metastatic breast cancer and mutations in homologous recombination-related genes. *J Clin Oncol* 2020 December 20;38(36):4274-82.
- Sammons SL et al. DORA: A phase II, multicenter, international, non-comparator study of olaparib (O) +/- durvalumab (D) as a chemotherapy-free maintenance strategy in platinum treated advanced triple-negative breast cancer (aTNBC). SABCS 2022;Abstract PD11-12.
- Modi S et al. Trastuzumab deruxtecan in previously treated HER2-low advanced breast cancer. *N Engl J Med* 2022 July 7;387(1):9-20.

# Key Data Sets

## Tiffany A Traina, MD, FASCO (continued)

- Mosele F et al. Trastuzumab deruxtecan in metastatic breast cancer with variable HER2 expression: The phase 2 DAISY trial. *Nat Med* 2023 August;29(8):2110-20.
- Schmid P et al. Trastuzumab deruxtecan (T-DXd) + durvalumab (D) as first-line (1L) treatment for unresectable locally advanced/metastatic hormone receptor-negative (HR-), HER2-low breast cancer: Updated results from BEGONIA, a phase 1b/2 study. SABCS 2022;Abstract PD11-08.
- Bardia A. Datopotamab deruxtecan (Dato-DXd), a TROP2-directed antibody-drug conjugate (ADC), for triple-negative breast cancer (TNBC): Preliminary results from an ongoing phase 1 trial. *Ann Oncol* 2021;32(Suppl 2):60-78;Abstract LBA4.
- Schmid P et al. Datopotamab deruxtecan (Dato-DXd) + durvalumab (D) as first-line (1L) treatment for unresectable locally advanced/metastatic triple-negative breast cancer (a/mTNBC): Updated results from BEGONIA, a phase 1b/2 study. SABCS 2022;Abstract PD11-09.

# Key Data Sets

## Tiffany A Traina, MD, FASCO (continued)

- Krop I et al. Results from the phase 1/2 study of patritumab deruxtecan, a HER3-directed antibody-drug conjugate (ADC), in patients with HER3-expressing metastatic breast cancer (MBC). ASCO 2022;Abstract 1002.
- Jhaveri K et al. Latest findings from the breast cancer cohort in SUMMIT — A phase 2 ‘basket’ trial of neratinib + trastuzumab + fulvestrant for HER2-mutant, hormone receptor-positive, metastatic breast cancer. SABCS 2021;Abstract PD1-05.
- Dent R et al. Double-blind placebo (PBO)-controlled randomized phase III trial evaluating first-line ipatasertib (IPAT) combined with paclitaxel (PAC) for PIK3CA/AKT1/PTEN-altered locally advanced unresectable or metastatic triple-negative breast cancer (aTNBC): Primary results from IPATunity130 Cohort A. SABCS 2020;Abstract GS3-04.
- Schmid P et al. Mature survival update of the double-blind placebo-controlled randomised phase II PAKT trial of first-line capivasertib plus paclitaxel for metastatic triple-negative breast cancer. SABCS 2020;Abstract PD1-11.

# Key Data Sets

## Hope S Rugo, MD

- Bardia A et al. Sacituzumab govitecan in metastatic triple-negative breast cancer. *N Engl J Med* 2021 April 22;384(16):1529-41.
- Bardia A et al. Sacituzumab govitecan-hziy in refractory metastatic triple-negative breast cancer. *N Engl J Med* 2019 February 21;380(8):741-51.
- O'Shaughnessy J et al. Assessment of sacituzumab govitecan (SG) versus treatment of physician's choice (TPC) cohort by agent in the phase 3 ASCENT study of patients (pts) with metastatic triple-negative breast cancer (mTNBC). ASCO 2021;Abstract 1077.
- O'Shaughnessy J et al. Analysis of patients without and with an initial triple-negative breast cancer diagnosis in the phase 3 randomized ASCENT study of sacituzumab govitecan in metastatic triple-negative breast cancer. *Breast Cancer Res Treat* 2022 September;195(2):127-39.
- Bardia A et al. Biomarker analyses in the phase III ASCENT study of sacituzumab govitecan versus chemotherapy in patients with metastatic triple-negative breast cancer. *Ann Oncol* 2021 September;32(9):1148-56



# Key Data Sets

## Hope S Rugo, MD (continued)

- Rugo HS et al. Safety analyses from the phase 3 ASCENT trial of sacituzumab govitecan in metastatic triple-negative breast cancer. *NPJ Breast Cancer* 2022 August 29;8(1):98.
- Loibl S et al. Health-related quality of life in the phase III ASCENT trial of sacituzumab govitecan versus standard chemotherapy in metastatic triple-negative breast cancer. *Eur J Cancer* 2023 January;178:23-33.
- Meric-Bernstam F et al. Phase 1 TROPION-PanTumor01 study evaluating datopotamab deruxtecan (Dato-DXd) in unresectable or metastatic hormone receptor-positive/HER2-negative breast cancer (BC). SABCS 2022;Abstract PD13-08.
- Rainey N et al. A phase 2 randomized study of magrolimab combination therapy in adult patients with unresectable locally advanced or metastatic triple-negative breast cancer (mTNBC): ELEVATE-TNBC. Abstract TPS1130.

# Agenda

**INTRODUCTION: “Isn’t oncology depressing?”**

**MODULE 1: Checkpoint inhibitors**

**MODULE 2: Antibody-drug conjugates**

**MODULE 3: HER2-low disease**

**MODULE 4: Other agents under development**

# Agenda

**INTRODUCTION: “Isn’t oncology depressing?”**

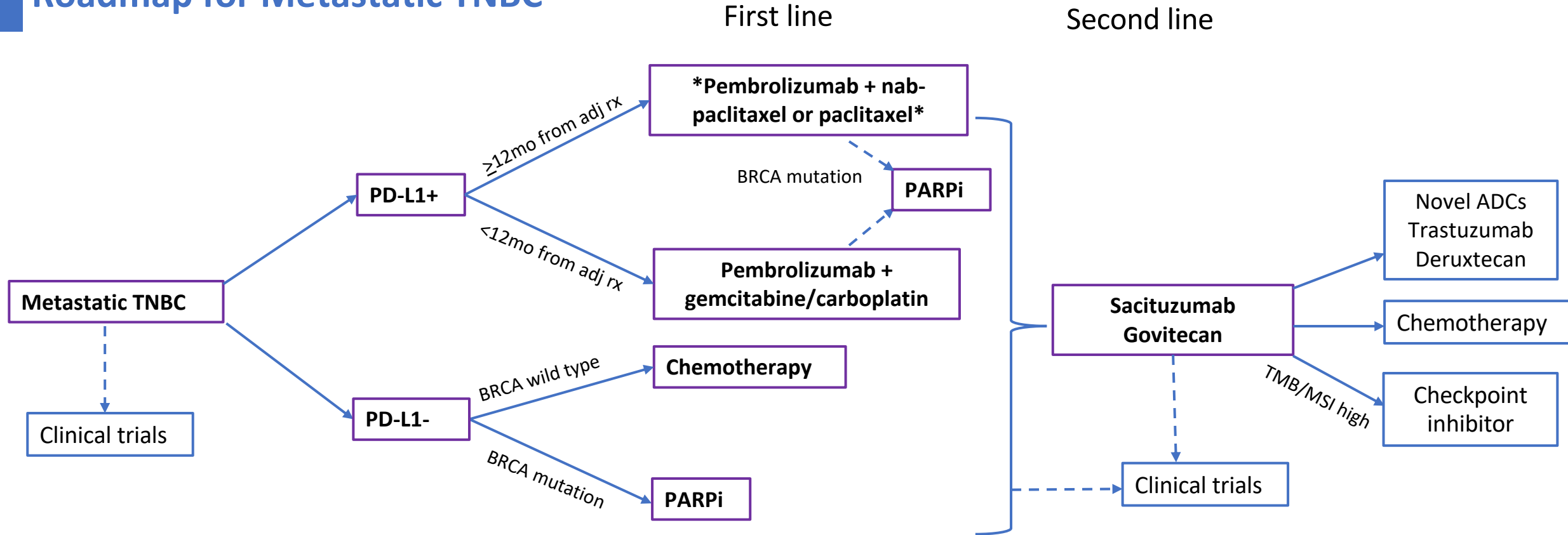
**MODULE 1: Checkpoint inhibitors**

**MODULE 2: Antibody-drug conjugates**

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# Roadmap for Metastatic TNBC

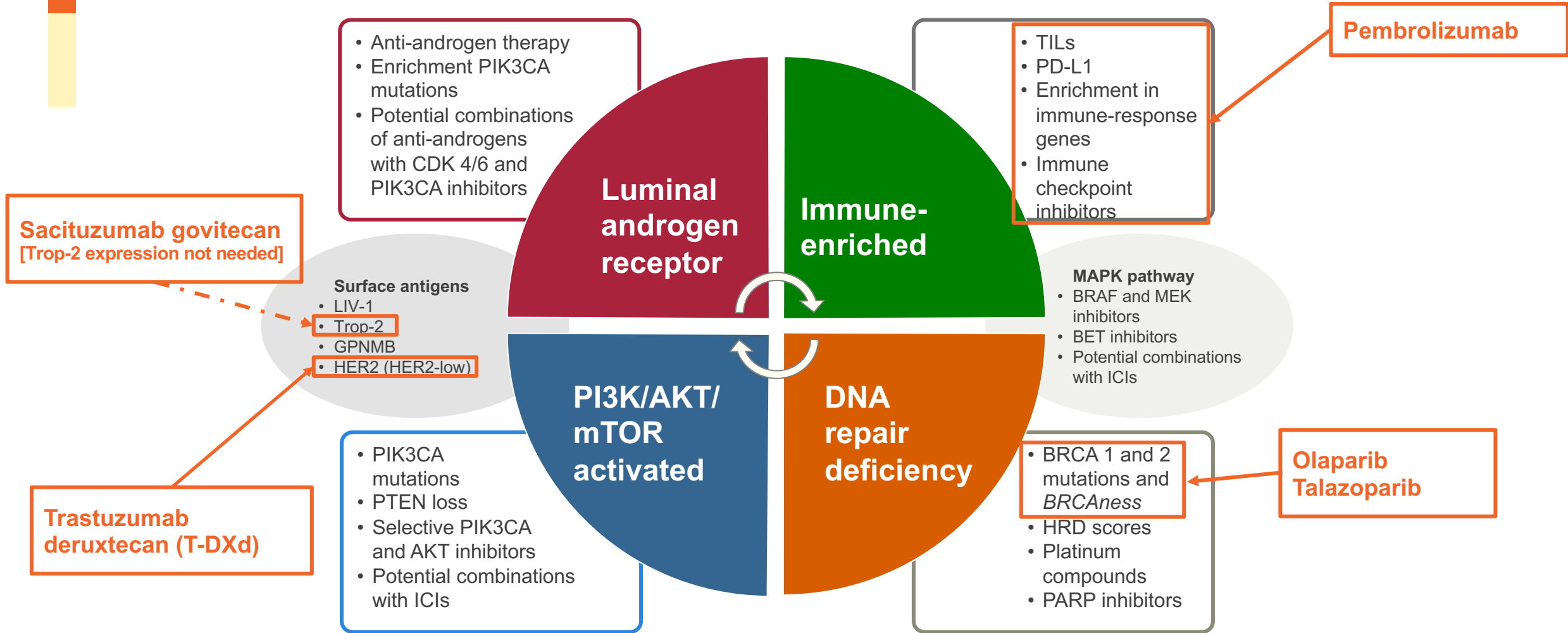


*\*Pembrolizumab (CPS) or atezolizumab ex US (SP142), nab-paclitaxel only)*

PARPi: PARP inhibitor (olaparib, talazoparib)

Always consider clinical trials at each decision point

# Biomarker-Driven Therapies Are a Reality



# Agenda

**INTRODUCTION: “Isn’t oncology depressing?”**

**MODULE 1: Checkpoint inhibitors**

**MODULE 2: Antibody-drug conjugates**

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**MODULE 4: Other agents under development**

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- Sammons SL et al. **DORA**: A phase II, multicenter, international, non-comparator study of **olaparib (O) +/- durvalumab (D)** as a chemotherapy-free maintenance strategy in platinum treated advanced triple-negative breast cancer (aTNBC). SABCS 2022;Abstract PD11-12.

# Case – Dr Traina: mTNBC 1L chemo/immunotherapy

62yo germline wildtype

2019 cT2N0 ER 30% HER2 neg BC

Neo weekly paclitaxel c/b allergy → changed to weekly nab-paclitaxel but had clinical progression after 5 doses

Changed to ddAC x4

6/2019 Left total mastectomy + SNB → IDC 2mm, mod diff, 0/2LN neg. ypT1aN0

Adjuvant Capecitabine x 6 months

November 2020

Elevated tumor markers prompted imaging with CT CAP: mediastinal lymphadenopathy ranging in size from 2.1 to 3.4 cm

12/2020 Endobronchial biopsy of LN = PD IDC TNBC PDL1 CPS>10

1/19/21 While in screening for 1<sup>st</sup> line clinical trial, MRI brain detected multiple CNS metastases with edema

- s/p VP shunt insertion and WBXRT

2/23/21 Begin gemcitabine, carboplatin and pembrolizumab

- CR on first set of scans!

8/26/21 Gemcitabine discontinued in setting of thrombocytopenias. Continued on Carboplatin q3 weeks and Pembro

12/2022 Carbo/Pembro dose held due to traumatic C1 and wrist fracture after a fall, requiring neurosurgery for spinal stabilization 12/26/22.

Resumed Carbo/Pembro Jan 2023

June 2023 Remains NED on imaging! Now continues on Pembrolizumab alone





# Case – Dr Traina: mTNBC 1L chemo/immunotherapy

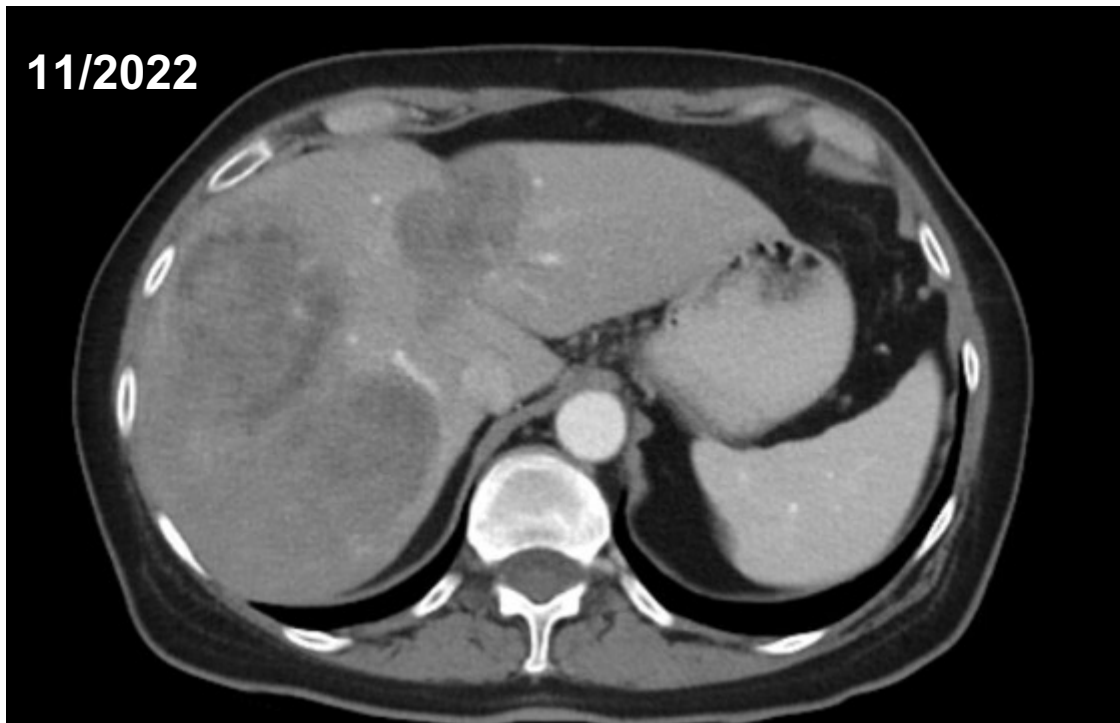
- 41yo physician underwent routine screening mammography
- April 2019: R breast IDC ER 2% PR 5% HER2 IHC 1+, right axillary core biopsy + adenocarcinoma, ER 1%, PR 5%, HER2 IHC 2+ (FISH not amplified)
- PET/CT with thoracic and portocaval adenopathy, 2 liver lesions suspicious for metastatic disease → liver biopsy confirmed ER/PR 0%, HER2 1+, AR+, PDL1+
- Germline genetics negative
- 4/2019: nab-paclitaxel and atezolizumab
- CR in liver by 10/2019, gradual improvement of adenopathy
- 10/2020 Discontinued chemotherapy, Radiated residual breast mass. Continues on atezolizumab monotherapy
- 6/2023 PET/CT remains NED!



# Case – Dr Rugo: Immunotherapy for TNBC

- 72 yo woman with metastatic TNBC
- 2015 (age 65): bilateral breast cancer
  - Left breast: multifocal grade 2 IDC, largest focus 3 cm, one node with ITCs
  - ER 95%, PR negative, HER2 0, Ki67 10-15%; Oncotype 22
  - Right breast: 2mm grade 1 ILC
  - Treatment: XRT, tamoxifen x 6 years complicated by a calf DVT, then changed to anastrozole in 11/2021
- 10/2022 presented with right chest wall/axillary recurrence
  - US guided core biopsy: grade 3 IDC, ER2%, PR negative, HER2 2+/FISH NA, Ki67 25%
  - NGS:PIK3CA H1047R mutation
  - Staging scans: large chest wall mass, multiple lung nodules up to 1.5cm, and multiple liver lesions up to 8.4 cm
  - Rx: weekly paclitaxel x 2 doses, CPS found to be >10; changed to nab-paclitaxel plus pembrolizumab for cycle 2
  - 8/23: Discontinue nab-paclitaxel after 13 cycles, continue pembrolizumab alone

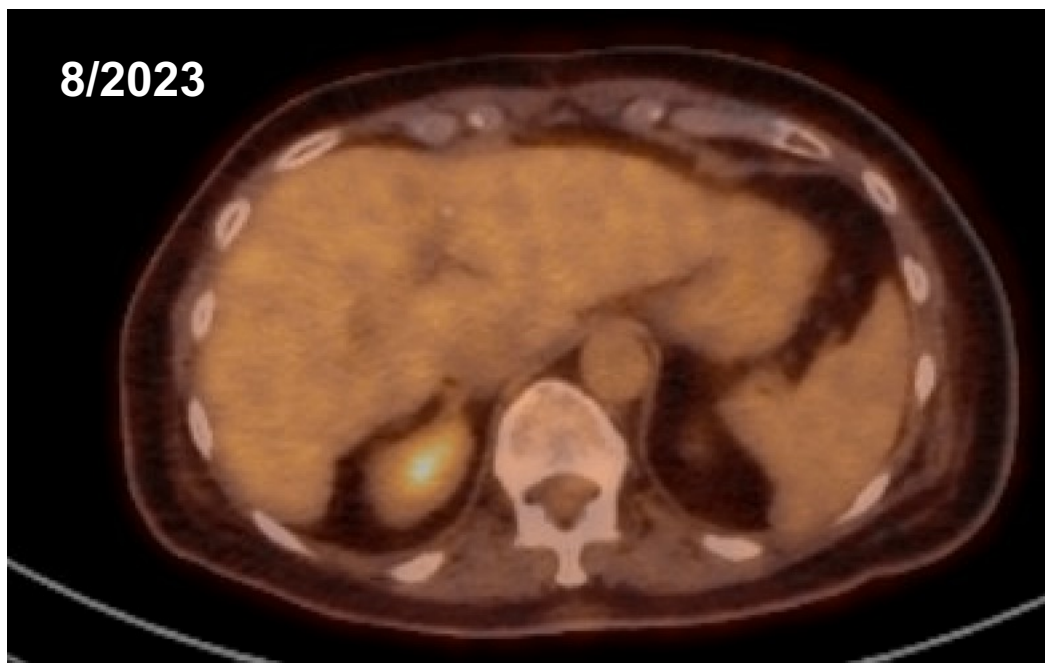
**11/2022**



**06/2023**



**8/2023**



# Case – Dr Traina: mTNBC with irAE

60yo woman aware of slowly growing breast mass for ~ 1 year.

- 10/2017 Bilateral mammo/US: L UOQ 5.2 cm asymmetry w/ suspicious axillary adenopathy
- Left 2:00 core bx = poorly-diff IDC, +LVI, ER <1% PR 5% HER2 2+ FISH not amplified  
L axillary LN core bx: metastatic carcinoma
- 11/30/17 CT C/A/P and Bone scan: No distant metastases
- 1/24/18 Completed neoadjuvant dd AC x4--> weekly paclitaxel/carboplatin x12
- 5/23/18 L lumpectomy and ALND: 2.5 mm residual IDC with treatment changes within 3.5 cm tumor bed with LVI, 2/5 SLN (6mm and 4mm, both without ECE, ER 20% PR 0% HER2 1+ AR 1-2%), 0/11 non-sentinel nodes.
- 7/2018 Completed breast radiation
- 7/2018 Adjuvant capecitabine x6 mo
- 7/2018 Began letrozole



## Case – Dr Traina: mTNBC with irAE (cont'd)

- 8/2021 presented to local ED with chest pain and shortness of breath. CT PE negative for PE but showed new RUL mass.
- PET with RUL mass, mediastinal and hilar LN
- 9/10/2021 lung biopsy = adenocarcinoma c/w breast primary
- ER 0%, PR 0%, HER2 0, PDL1+ (CPS >10)
- 10/2021 Began 1<sup>st</sup> line nab-paclitaxel + pembrolizumab
- Complicated by severe skin toxicity including blistering, thought IO-related
- Pembrolizumab held as of November 2021. Treated with oral steroids 12/2021. Chemotherapy held as of Jan 2022.
- 12/15/2021 PET w/ decreased FDG avidity and size of RUL metastasis, resolved FDG-avid mediastinal and hilar adenopathy



# Case – Dr Traina: mTNBC with irAE (cont'd)

- 4/2022 Established care at MSK
- At initial visit, patient had ECOG PS 2-3. Healing scars from prior blistering skin rash. Reported DOE and SOB at rest. Gr 3 diarrhea, non-bloody with episodes of incontinence. Decreased po intake. Requiring assistance from elderly mother and teenage children for ADLs. Admitted to hospital.
- Started high dose steroids for irAEs of presumed pneumonitis, colitis and adrenal insufficiency.
- Imaging with ground glass opacity in lungs, resolved FDG avidity. Bronchoscopy with inflammatory changes, and organizing pneumonia, no malignant cells.
- Tumor sequencing with somatic BRCA1 mutation
- Observation based on poor KPS, slow recovery from irAEs with very slow steroid taper and eventual maintenance hydrocortisone with limited volume of MBC
- 12/2022 Visual changes → MRI brain with subcm metastases s/p SRS
- 12/2022 Began olaparib off study for somatic BRCA1 mutation



A 57-year-old woman with BRCA wild-type, HRP, HER2-low (1+), de novo metastatic TNBC in the bones and chest wall. PD-L1 CPS >10. Which first-line therapy would you most likely recommend?



**Dr Rugo**

**Pembrolizumab/*nab* paclitaxel**



**Dr Traina**

**Pembrolizumab/paclitaxel**



**Dr Bardia**

**Pembrolizumab/gemcitabine/carboplatin**



**Dr Brufsky**

**Pembrolizumab/*nab* paclitaxel**



**Dr Telli**

**Pembrolizumab/paclitaxel**



**Dr Tolaney**

**Pembrolizumab/paclitaxel**

HRP = homologous recombination proficient; CPS = combined positive score



# How do you typically choose between a PARP inhibitor (PARPi) and an immune checkpoint inhibitor with chemotherapy for a patient with PD-L1-positive metastatic TNBC and a BRCA mutation?



**Dr Rugo**

**Checkpoint inhibitor first and PARPi second  
based on reported survival benefits**



**Dr Traina**

**Per NCCN, lead with checkpoint inhibitor plus chemotherapy given  
the survival benefit and reserve PARPi for 2nd line in that setting**



**Dr Bardia**

**Generally start with immune checkpoint inhibitor  
given overall survival benefit**



**Dr Brufsky**

**Checkpoint inhibitor and chemotherapy first, PARPi second**



**Dr Telli**

**I generally select chemotherapy and pembrolizumab  
given the overall survival benefit with this combination**



**Dr Tolaney**

**Generally, if gBRCAm, chemotherapy + PD-1 antibody first  
(given OS benefit) and then PARPi in second line**



Do you generally order next-generation sequencing for your patients with metastatic TNBC?



Dr Rugo

Yes



Dr Traina

Yes



Dr Bardia

Yes



Dr Brufsky

Yes



Dr Telli

Yes



Dr Tolaney

Yes



## NCCN Guidelines Version 3.2023 Hereditary Cancer Testing Criteria

### TESTING CRITERIA FOR HIGH-PENETRANCE BREAST CANCER SUSCEPTIBILITY GENES (Specifically *BRCA1*, *BRCA2*, *CDH1*, *PALB2*, *PTEN*, and *TP53*. See [GENE-A](#))<sup>a,e,f,g</sup>

#### Testing is clinically indicated in the following scenarios:

- See General Testing Criteria on [CRIT-1](#).

- Personal history of breast cancer with specific features:

- ▶ ≤50 y

- ▶ Any age:

- ◊ Treatment indications

- To aid in systemic treatment decisions using PARP inhibitors for breast cancer in the metastatic setting<sup>h,i</sup> (See [NCCN Guidelines for Breast Cancer](#))
      - To aid in adjuvant treatment decisions with olaparib for high-risk,<sup>j</sup> HER2-negative breast cancer<sup>h</sup>

- ◊ Pathology/histology

- Triple-negative breast cancer
      - Multiple primary breast cancers (synchronous or metachronous)<sup>k</sup>
      - Lobular breast cancer with personal or family history of diffuse gastric cancer [See NCCN Guidelines for Gastric Cancer](#)

- ◊ Male breast cancer

- ◊ Ancestry: Ashkenazi Jewish ancestry

- ▶ Any age (continued):

- ◊ Family history<sup>l</sup>

- ≥1 close blood relative<sup>m</sup> with ANY:
        - breast cancer at age ≤50
        - male breast cancer
        - ovarian cancer
        - pancreatic cancer
        - prostate cancer with metastatic,<sup>n</sup> or high- or very-high-risk group (Initial Risk Stratification and Staging Workup in [NCCN Guidelines for Prostate Cancer](#))
      - ≥3 total diagnoses of breast cancer in patient and/or close blood relatives<sup>m</sup>
      - ≥2 close blood relatives<sup>m</sup> with either breast or prostate cancer (any grade)

- Family history of cancer only

- ▶ An affected individual (not meeting testing criteria listed above) or unaffected individual with a first- or second-degree blood relative meeting any of the criteria listed above (except unaffected individuals whose relatives meet criteria only for systemic therapy decision-making).<sup>o</sup>

- ◊ If the affected relative has pancreatic cancer or prostate cancer only first-degree relatives should be offered testing unless indicated based on additional family history.

- ▶ An affected or unaffected individual who otherwise does not meet the criteria above but has a probability >5% of a *BRCA1/2* pathogenic variant based on prior probability models (eg, Tyrer-Cuzick, BRCAPro, CanRisk)<sup>p</sup>

Reminder to discuss &  
perform germline testing!

Indicated at any age with  
diagnosis of TNBC

NCCN recommendations have been developed to be inclusive of individuals of all sexual and gender identities to the greatest extent possible. In this guideline, the terms male and female refer to sex assigned at birth.

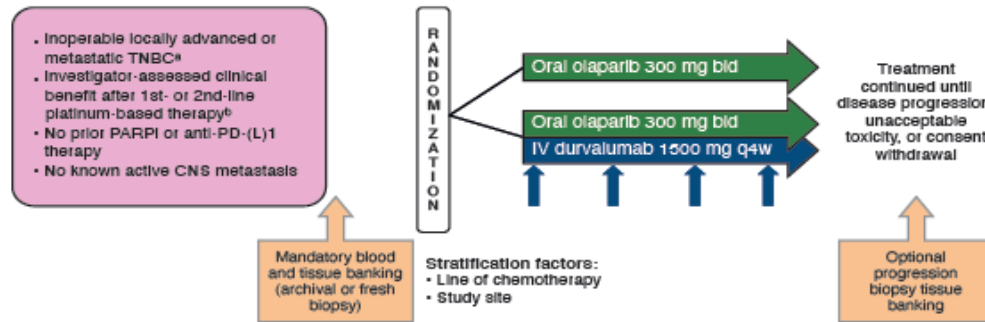
Note: All recommendations are category 2A unless otherwise indicated.

Clinical Trials: NCCN believes that the best management of any patient with cancer is in a clinical trial. Participation in clinical trials is especially encouraged.



# DORA: Ph II Olaparib +/- durvalumab as maintenance in platinum pretreated mTNBC

Figure 1. DORA maintenance trial design



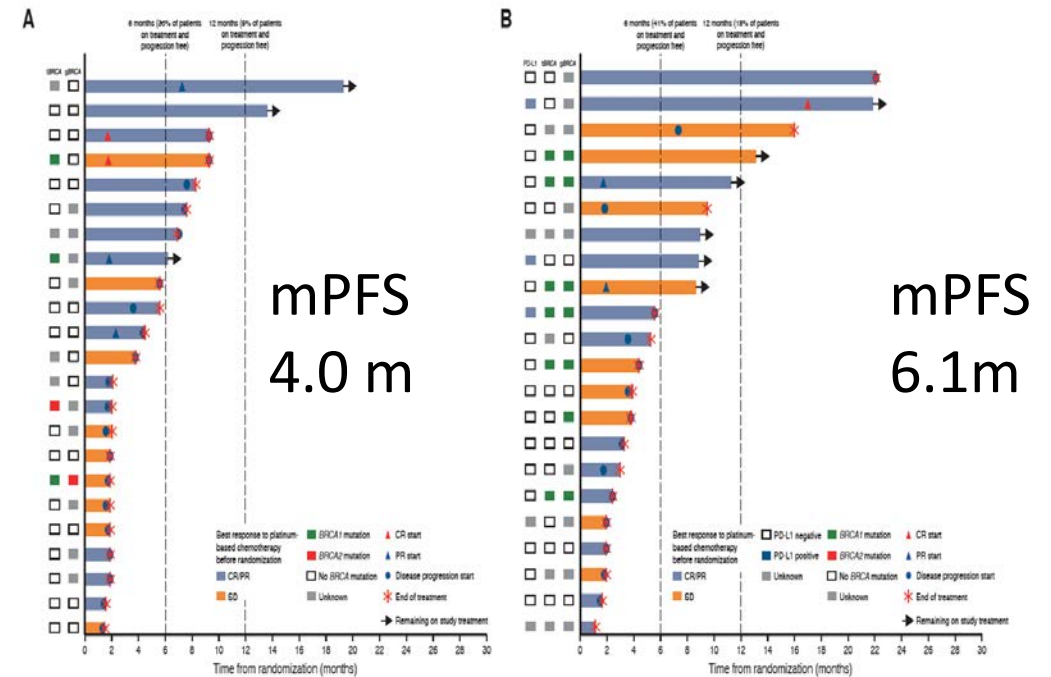
bid = twice daily; IV = intravenous; q4w = every 4 weeks. \*Enrollment of known gBRCA carriers was limited to 10 patients. <sup>a</sup>At least three 3-weekly cycles or at least six weekly cycles.

Table 1. Baseline characteristics (ITT population)

Characteristic	Olaparib alone (n=23)	O+D combination (n=22)
Median (range) age, years	48 (35–77)	51.5 (25–72)
Most recent platinum, n (%)		
1st line	18 (78)	19 (86)
2nd line	5 (22)	3 (14)
Prior platinum regimen, n (%)		
Carboplatin	16 (70)	10 (45)
Cisplatin	7 (30)	12 (55)
Single agent	2 (9)	6 (27)
Doublet with taxane	14 (61)	9 (41)
Doublet with gemcitabine	7 (30)	7 (32)
gBRCA status, n (%)		
Deleterious mutation	1 (4) <sup>a</sup>	7 (32) <sup>b</sup>
No mutation detected/variant of unknown significance	13 (57)	6 (27)
Not tested <sup>c</sup>	9 (39)	9 (41)
DFI from initial diagnosis to advanced/metastatic TNBC, n (%)		
De novo	7 (30)	4 (18)
≤1 year	3 (13)	2 (9)
>1 year	13 (57)	16 (73)

<sup>a</sup>BRCA2. <sup>b</sup>All BRCA1. <sup>c</sup>BRCA testing is less readily available at Asian sites. DFI = disease-free interval; ITT = intent-to-treat.

Figure 2. Treatment exposure and response according to tumor characteristics: (A) Olaparib alone; (B) O+D combination therapy



Med OS 21.7m  
(95% CI 7.7-NE)

Med OS 18.3m  
(95% CI 8.2-NE)

# Agenda

**INTRODUCTION: “Isn’t oncology depressing?”**

**MODULE 1: Checkpoint inhibitors**

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**MODULE 3: HER2-low disease**

**MODULE 4: Other agents under development**

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- Carey LA et al. **Sacituzumab govitecan** as **second-line treatment** for metastatic triple-negative breast cancer-phase 3 **ASCENT study** subanalysis. *NPJ Breast Cancer* 2022 June 9;8(1):72.
- O'Shaughnessy J et al. **Analysis of patients without and with an initial triple-negative breast cancer diagnosis** in the phase 3 randomized **ASCENT** study of **sacituzumab govitecan** in metastatic triple-negative breast cancer. *Breast Cancer Res Treat* 2022 September;195(2):127-39.

# Key Data Sets

## Hope S Rugo, MD (continued)

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# ADCs consist of numerous elements, including the monoclonal antibody, conjugated drug, and stable linker

## Conjugation chemistry

- Lys or Cys residue of the mAb; controls drug distribution and DAR

## Stable linker

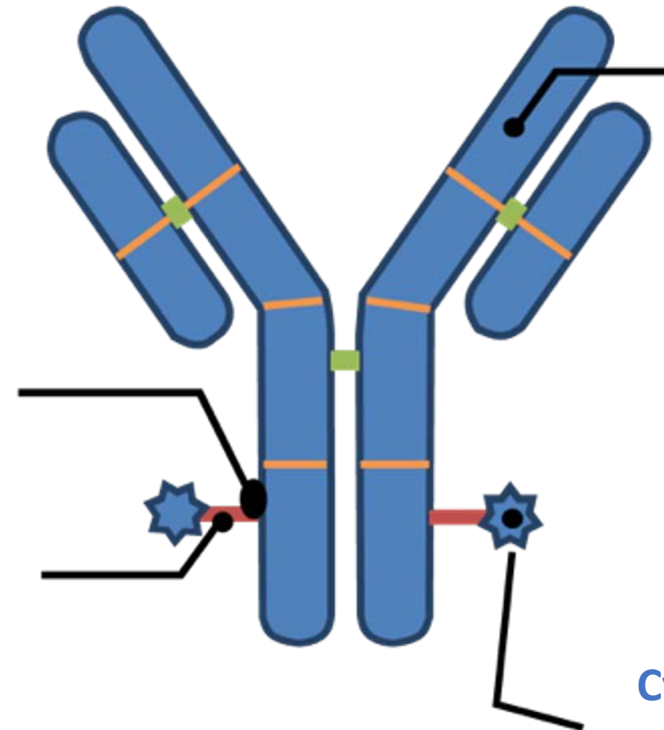
- Selectively releases drug in target cell
- Long term stability

## Monoclonal antibody


- Selective for an antigen with high copy numbers on the target tumor cell
- Internalizes in target cell
- Minimal immunogenic response

## Cytotoxic drug

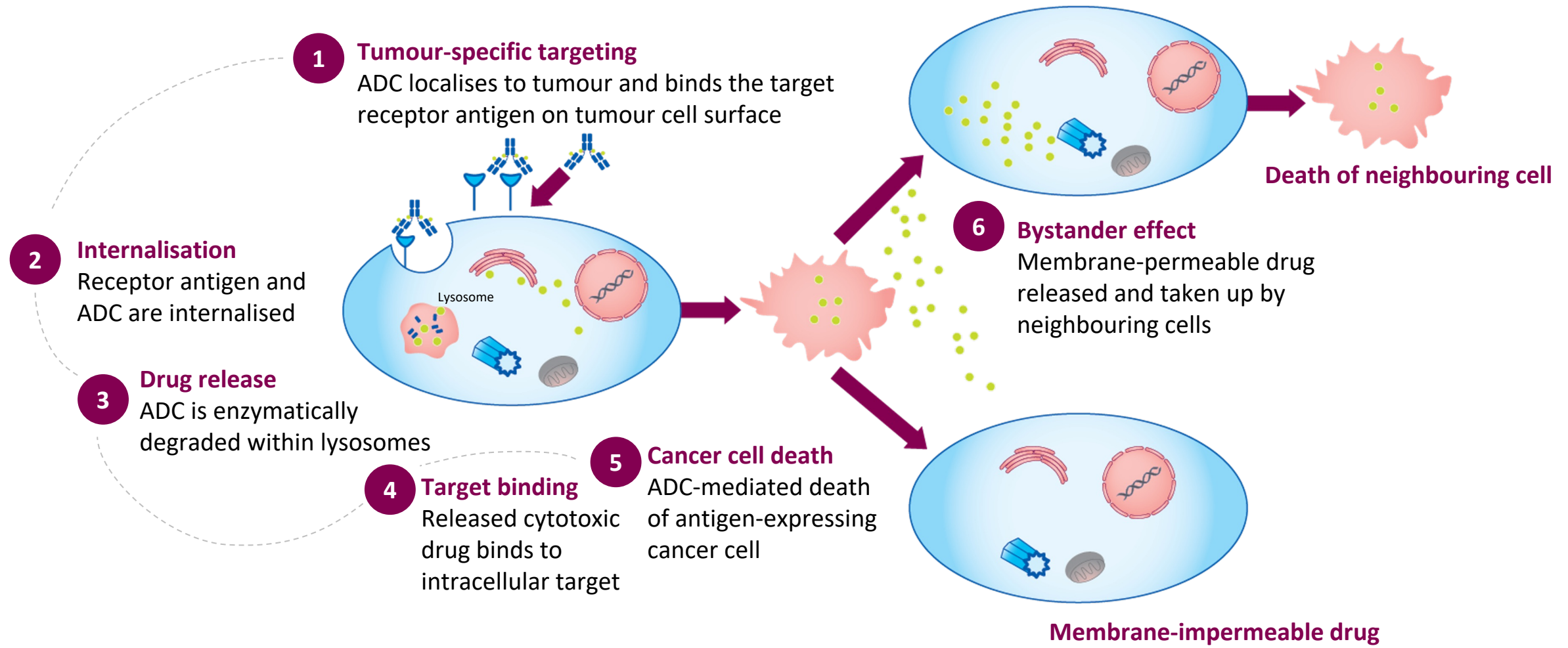
- Highly potent subnanomolar activity
- Functional groups for linking
- Lower hydrophobicity



ADC=antibody-drug conjugate; Cys=cysteine; DAR=drug:antibody ratio; Lys=lysine; mAb=monoclonal antibody.  
Nakada T, et al. *Chem Pharm Bull.* 2019;67:173–185.

— Linker     Payload    — Disulphide bonds

# ADC Technology Enables Tumor-Specific Targeting



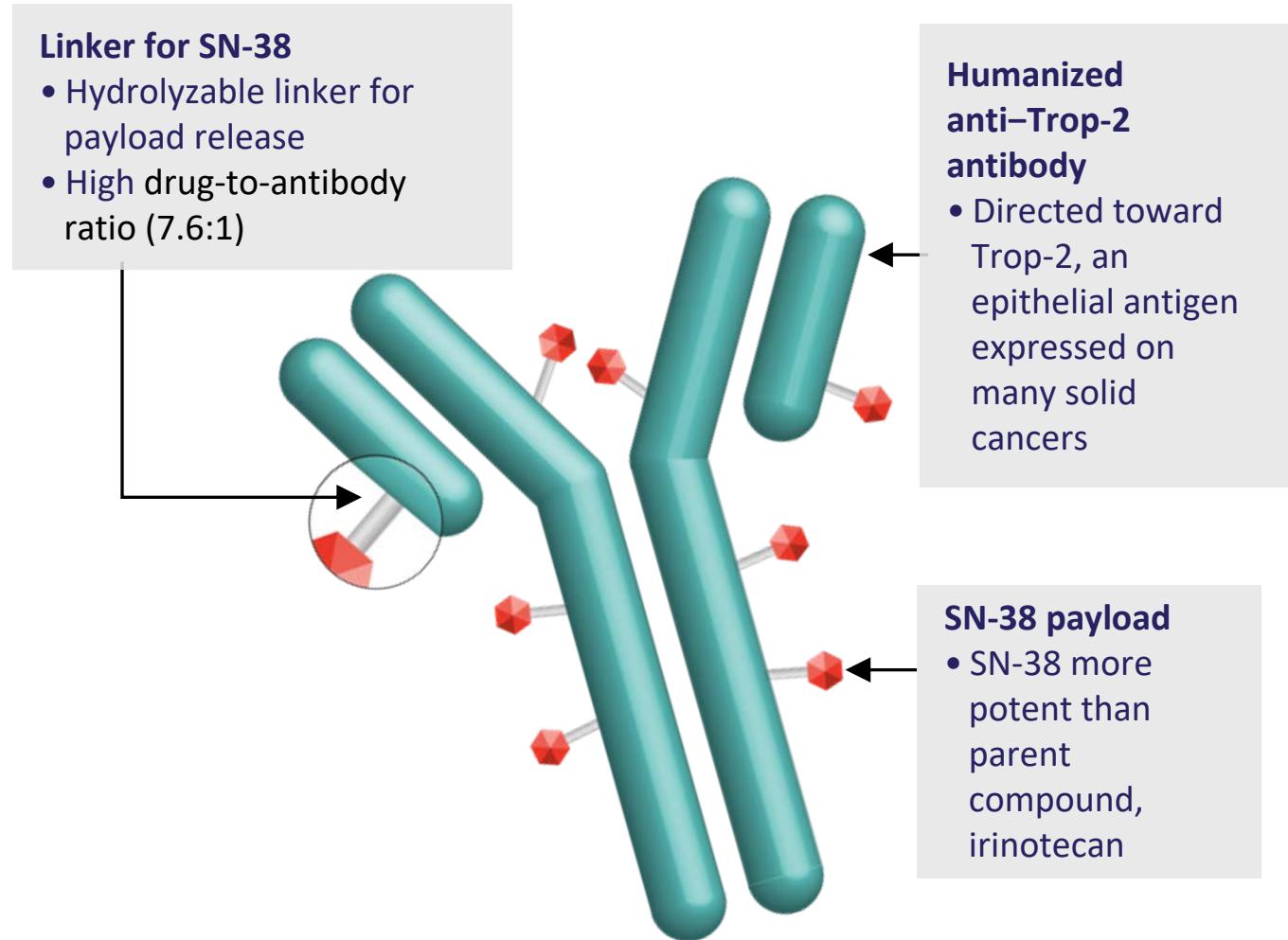
ADC=antibody-drug conjugate

1. Adapted from: Trail PA, et al. *Pharmacol Ther.* 2018;181:126–142.



# Sacituzumab Govitecan (SG): First-in-Class Trop-2–Directed ADC

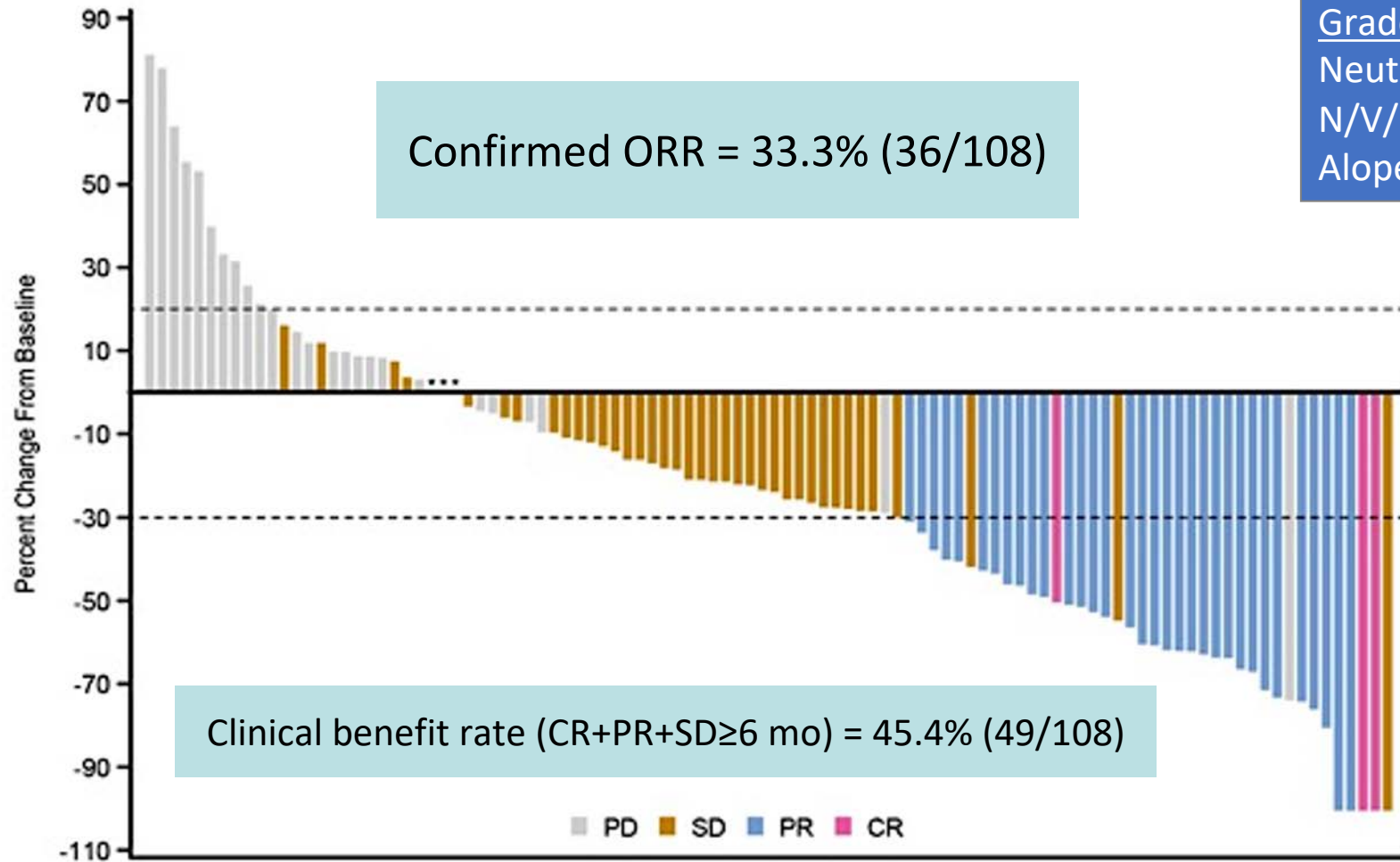
- Trop-2 is expressed in all subtypes of breast cancer and linked to poor prognosis
- Distinct from other ADCs
  - Antibody highly specific for Trop-2
  - High drug-to-antibody ratio (7.6:1)
  - Internalization and enzymatic cleavage by tumor cell not required for the liberation of SN-38 from the antibody
  - Hydrolysis of the linker also releases the SN-38 cytotoxic extracellularly in the tumor microenvironment, providing a bystander effect
- Accelerated FDA approval for metastatic TNBC in 2020 (now final approval), in metastatic urothelial cancer in 2021; and approved for metastatic HR+/HER2- BC in 2023.



# Sacituzumab Govitecan: Phase I/II Trial in mTNBC

108 patients with refractory mTNBC

Median of 3 prior lines of therapy (range 2-10) in the advanced setting

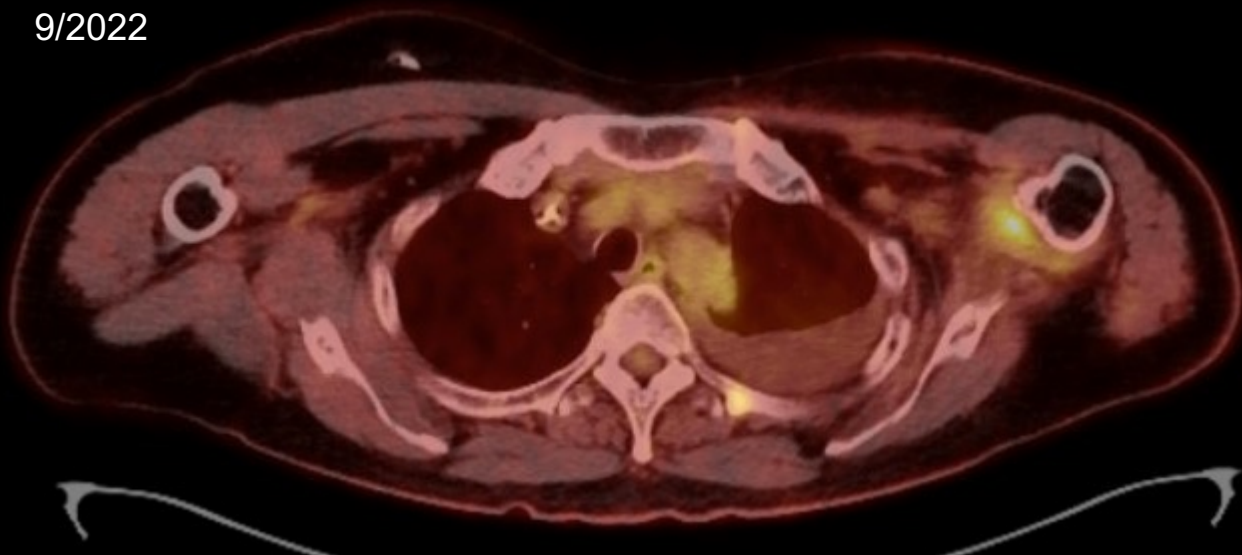


Grade 3/4 toxicity:  
Neutropenia: 41%; FN 8%  
N/V/D: 5/5/8%  
Alopecia: 36%

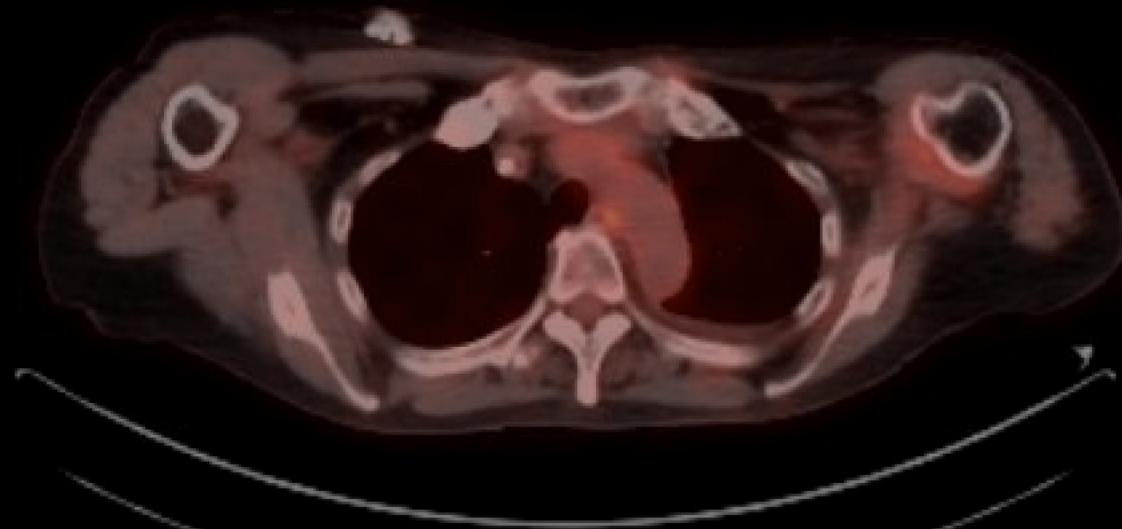
# Case – Dr Rugo: Sacituzumab Govitecan – Treatment Efficacy

- 57 yo woman with metastatic TNBC
  - 2004 (age 38): stage IIa ER+/PR+/HER2 negative breast cancer
    - Rx: AC/docetaxel, tamoxifen x 2 years, then anastrozole x 3 years post BSO
  - 2017 recurrence in multiple neck/axillary nodes and rib, 8mm brain metastases
    - Rare cells without clear pathology, Rx with radiation to nodes and bone
    - Capecitabine x 6 months
  - 2020: left brachial plexus infiltration, left SC node
    - Biopsy +carcinoma c/w breast primary, ER/PR/HER2 negative, PD-L1 by CPS=10
    - 1/21 – 11/21 paclitaxel/pembrolizumab with PD in brachial plexus
    - 12/21 – 9/22 capecitabine with PD in nodes, ribs, brachial plexus with disease in spinal canal at C6
  - 10/22 Sacituzumab govitecan: excellent response.
    - 5/23 found to have extensive LMD, treated with WBRT followed by cisplatin plus etoposide
    - Required just two doses of filgrastim

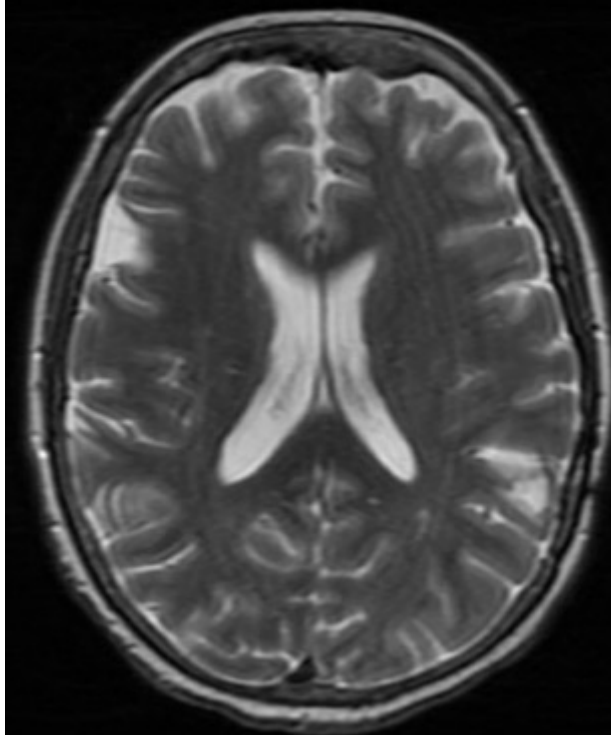
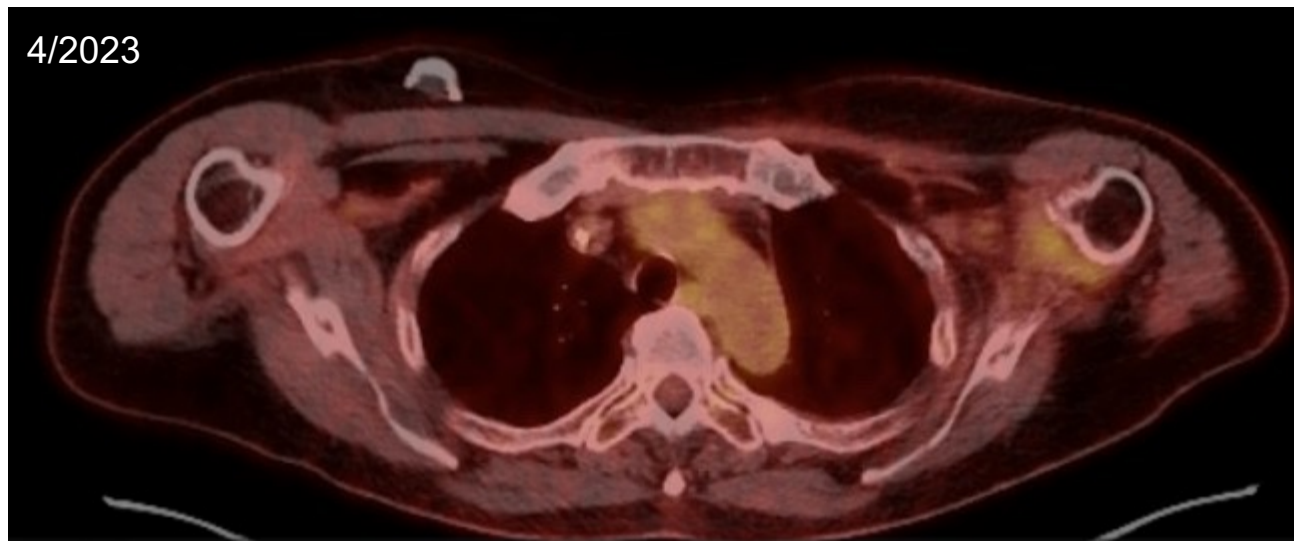
9/2022



1/2023

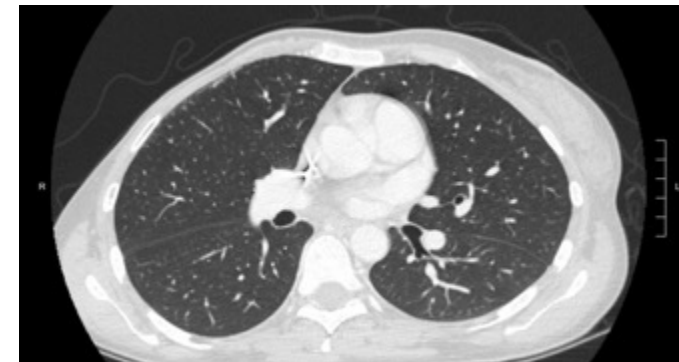


4/2023



# Case – Dr Rugo: Sacituzumab Govitecan – Toxicity Management

- 40 yo woman with metastatic TNBC
  - 12/2020 right breast TNBC; Ki-67 90%; abnormal nodes
  - RX: paclitaxel, carboplatin, pembrolizumab followed by DD AC x 3 with continued pembro; stopped due to primary disease growth
  - 6/21 Bilateral mastectomy: 4.9 cm residual disease, node negative; cellularity 90%
    - Radiation therapy, 11/21 – 3/22 capecitabine with ongoing pembrolizumab
    - 1/22 solitary lung nodule, resected with path + 1.2 cm TNBC
  - 3/22 witnessed seizure; brain MRI + multiple mets
    - 3-4/22 WBRT
    - NGS: PIK3CA mutation; PD-L1 by CPS=40
  - 4/22 – 8/23 Sacituzumab with PD in lung
    - 10/22 SBRT to left acetabulum; 1/23 GK to 5 brain lesions
    - 2/23 new renal lesions, biopsy + TNBC
    - 4/23 IMRT renal lesions
    - 8/23 IMRT to dominant lung lesion, change to gem/carbo











# Case – Dr Rugo: Sacituzumab Govitecan – Toxicity Management (cont)

- Nausea
  - The patient had fatigue after each infusion, without nausea compounded by significant insomnia
    - Dose reduction and eventual discontinuation of dexamethasone premedication
    - Added olanzapine for the first 3 nights at bedtime with resolution of symptoms
- Neutropenia
  - Significant neutropenia with cycle 1 required use of filgrastim x 2-3 doses after each infusion
    - Filgrastim caused generalized aching, fatigue
    - Changed to peg-filgrastim on day 9 after each cycle day 8 with complete resolution of her symptoms
- Diarrhea
  - Rare episodes occurring only with travel
    - Solution: prophylactic loperamide with change in diet/long travel
- Alopecia

A 54-year-old woman with localized BRCA wild-type, HRP TNBC receives adjuvant dose-dense AC → paclitaxel. 18 months later she presents with multiple bone lesions consistent with the primary and receives gemcitabine/carboplatin x 4 with response but now has disease progression. PD-L1 testing is negative, HER2 IHC = 0. Regulatory and reimbursement issues aside, which treatment would you most likely recommend next if the patient ...

		Remained asymptomatic?	Developed symptomatic visceral metastases?	Had CNS involvement?
	Dr Rugo	Capecitabine	Sacituzumab govitecan	Sacituzumab govitecan
	Dr Traina	Sacituzumab govitecan	Sacituzumab govitecan	Sacituzumab govitecan
	Dr Bardia	Sacituzumab govitecan	Sacituzumab govitecan	Sacituzumab govitecan
	Dr Brufsky	Sacituzumab govitecan	Sacituzumab govitecan	Sacituzumab govitecan
	Dr Telli	Sacituzumab govitecan	Sacituzumab govitecan	Capecitabine
	Dr Tolaney	Sacituzumab govitecan	Sacituzumab govitecan	Sacituzumab govitecan

# In general, for which patients with metastatic TNBC are you using sacituzumab govitecan?



**Dr Rugo**

All my patients receive SG, which improves survival; first line in patients relapsing on adjuvant therapy, and in the second line otherwise (when not enrolled on a trial)



**Dr Traina**

**Second- or third-line TNBC**



**Dr Bardia**

**After 1 line of chemotherapy**



**Dr Brufsky**

**Almost all, except for elderly and poor morbidity**



**Dr Telli**

**I am using it in the second-line setting consistently**



**Dr Tolaney**

**Second line or with very early relapse  
<6 mo from adjuvant therapy in first line**



# What is your global view on the antitumor efficacy of sacituzumab govitecan in patients with metastatic TNBC? (Eg, approximate proportion of patients who experience a clinical response; general duration of response)



**Dr Rugo**

Majority of patients respond; occasionally a patient has disease resistance to all therapies including SG (in particular bone only inexorable progression). Responses, particularly in earlier lines, last from 4 or 5 to 11 months



**Dr Traina**

Sense that the majority of patients have good response and more durable benefit from response



**Dr Bardia**

70%-80% patients have clinical response; duration: 6-9 months



**Dr Brufsky**

Response rate 40%, PFS 6-7 months, OS 8-12 months



**Dr Telli**

>50% experience clinical response, and it is typical for those who respond to have a duration of response >6 months









**Dr Tolaney**







Generally patients are on therapy for 4-6 months

PFS = progression-free survival; OS = overall survival

In general, for patients eligible for both treatments, how do you sequence trastuzumab deruxtecan (T-DXd) and sacituzumab govitecan? How, if at all, does this order vary based on the level of HER2 expression (IHC 1+ versus 2+)?

		Sequence	Impact of HER2 expression
	Dr Rugo	Sacituzumab → T-DXd	Does not influence decision
	Dr Traina	Sacituzumab → T-DXd	Does not influence decision
	Dr Bardia	Sacituzumab → T-DXd	Does not influence decision
	Dr Brufsky	Sacituzumab → T-DXd	Does not influence decision
	Dr Telli	Sacituzumab → T-DXd	Does not influence decision
	Dr Tolaney	Sacituzumab → T-DXd	Does not influence decision

In your experience, what proportion of patients with metastatic TNBC tolerate sacituzumab without significant issues?

	Dr Rugo	33%
	Dr Traina	>85%
	Dr Bardia	70%
	Dr Brufsky	80%
	Dr Telli	65%
	Dr Tolaney	50%

What would you estimate is the likelihood that a patient receiving sacituzumab govitecan will need to have therapy held or discontinued because of tolerability issues?



**Dr Rugo**

**Held due to neutropenia: 35%**  
**Discontinued: very rarely**



**Dr Traina**

**<10%**



**Dr Bardia**

**15%**



**Dr Brufsky**

**20%**



**Dr Telli**

**15%**



**Dr Tolaney**

**50%**

## Do you routinely employ G-CSF prophylaxis for all patients receiving sacituzumab govitecan, or only for select patients?



**Dr Rugo**

**Anyone with prior neutropenia requiring growth factors, now very common**



**Dr Traina**

**Heavily pretreated, issues with neutropenia in the past, older patients**



**Dr Bardia**

**As secondary prophylaxis**



**Dr Brufsky**

**Patients with comorbidity or prior severe neutropenia will get it first dose**



**Dr Telli**







**All patients**



**Dr Tolaney**







**In pts who have required prior growth factor support with chemotherapy or pts with blood counts that are borderline at start of therapy**

Approximately what proportion of your patients who receive sacituzumab govitecan generally experience gastrointestinal (GI) side effects (eg, diarrhea, nausea, vomiting)? Do you generally recommend any form of prophylaxis to prevent GI toxicities in patients about to initiate sacituzumab govitecan?

		Patients with GI side effects	GI prophylaxis?
	Dr Rugo	Nausea: 60% Diarrhea: 10%	No
	Dr Traina	20%	Yes, prophylaxis with antiemetics and loperamide prn
	Dr Bardia	80%	No
	Dr Brufsky	70%	No
	Dr Telli	50%	Yes, day of treatment take home antiemetics and prescription for loperamide
	Dr Tolaney	10%-20%	Antiemetic prophylaxis

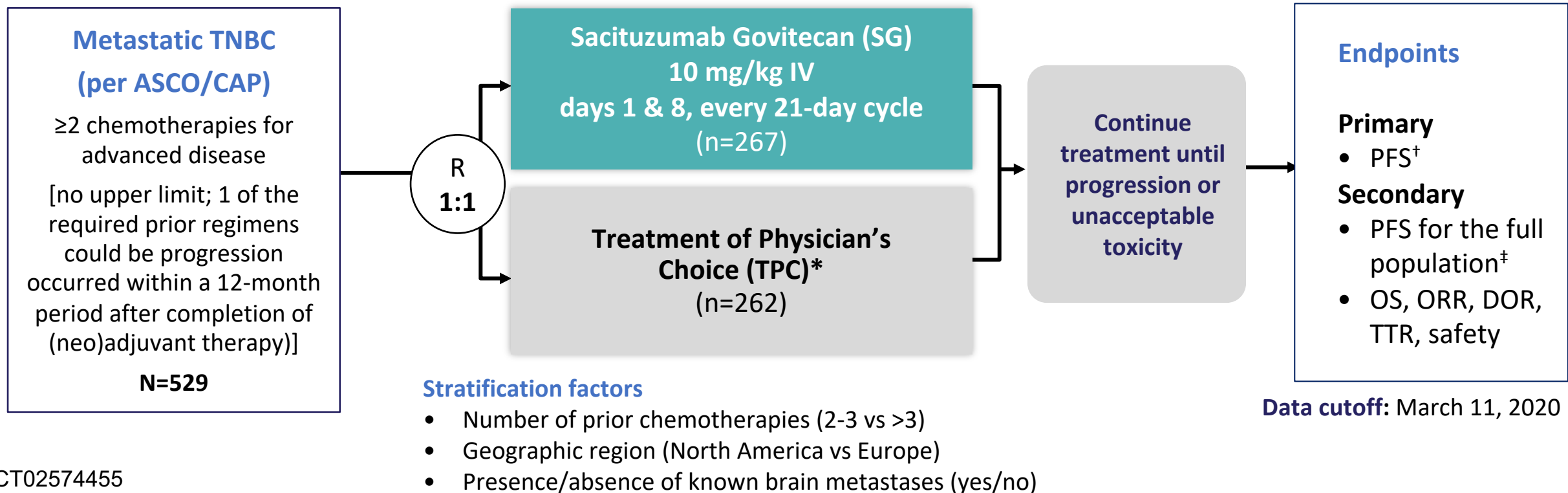


How would you rate your enthusiasm for enrolling a patient on the randomized, open-label Phase III ASCENT-05/OptimICE-RD (AFT-65) study evaluating adjuvant sacituzumab govitecan with pembrolizumab versus pembrolizumab with or without capecitabine for patients with TNBC and residual disease after neoadjuvant therapy and surgery?

		Enthusiasm*	Comments
	Dr Rugo	4	Important question asking if this ADC can improve outcomes combined with pembro
	Dr Traina	4	—
	Dr Bardia	3	Important study evaluating role of SG in the adjuvant setting
	Dr Brufsky	4	Good design, will answer the questions one way or the other
	Dr Telli	2	Control arm problematic, not all patients getting cape, pembro; SG toxicity issue in the setting
	Dr Tolaney	4	Capecitabine doesn't add much in this space so sacituzumab is likely to do better

\* 1 = not at all enthusiastic, 4 = very enthusiastic

# ASCENT: A Phase 3 Confirmatory Study of Sacituzumab Govitecan in Refractory/Relapsed mTNBC



NCT02574455

## Demographics:

TPC: 53% eribulin, 20% vinorelbine, 15% gemcitabine, 13% capecitabine; 70% TN at initial diagnosis  
Median prior regimens 4 (2-17); ~88% with visceral disease; 15% cap on pts with brain mets

**ASCENT was halted early due to compelling evidence of efficacy per unanimous DSMC recommendation.**

\*TPC: eribulin, vinorelbine, gemcitabine, or capecitabine. <sup>†</sup>PFS measured by an independent, centralized, and blinded group of radiology experts who assessed tumor response using RECIST 1.1 criteria in patients without brain metastasis. <sup>‡</sup>The full population includes all randomized patients (with and without brain metastases). Baseline brain MRI only required for patients with known brain metastasis.

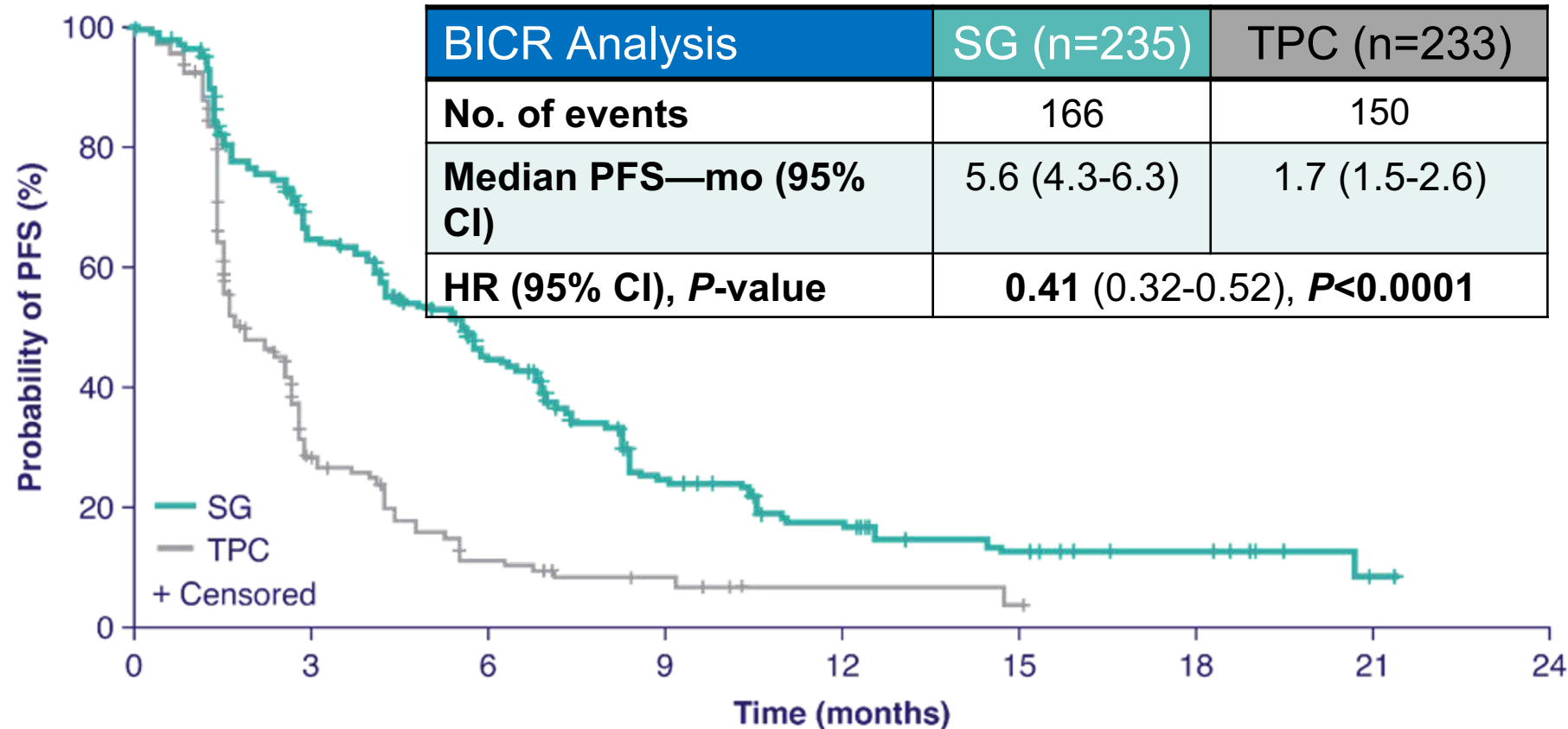
National Institutes of Health. <https://clinicaltrials.gov/ct2/show/NCT02574455>.

Courtesy of Hope S Rugo, MD

Bardia et al, NEJM 2021



# Progression-Free Survival (BICR Analysis)

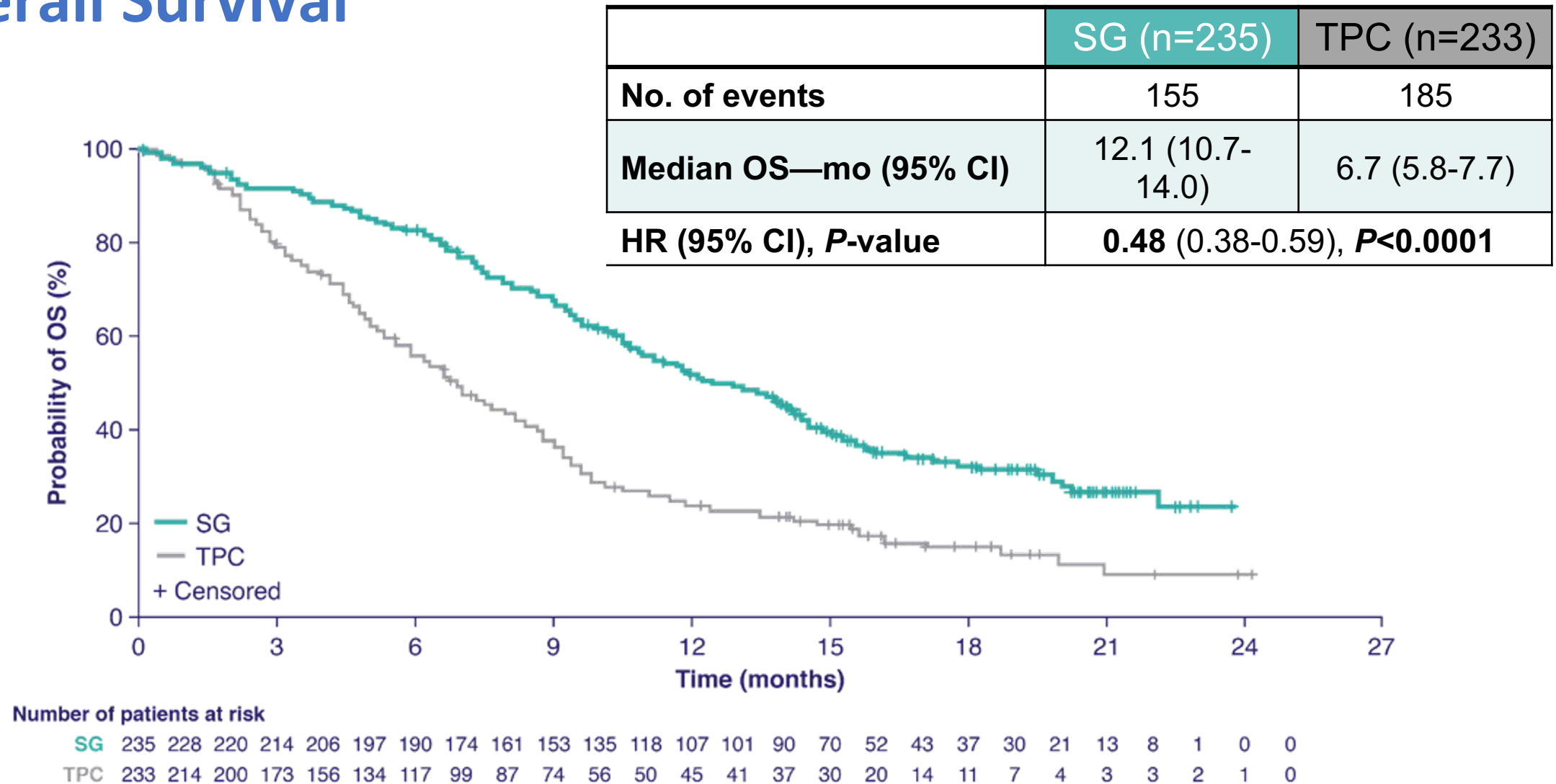


Number of patients at risk

SG	235	222	166	134	127	104	81	63	54	37	33	24	22	16	15	13	9	8	8	5	3	1	0
TPC	233	179	78	35	32	19	12	9	7	6	4	2	2	2	2	1	0	0	0	0	0	0	0

Primary endpoint (PFS) assessed by independent central review in the brain metastases-negative population, as pre-defined in the study protocol.  
 Secondary endpoint (PFS) assessed in the full population (brain metastases-positive and -negative) and PFS benefit was consistent (HR=0.43 [0.35-0.54], *P*<0.0001).  
 BICR, blind independent central review; PFS, progression-free survival; SG, sacituzumab govitecan; TPC, treatment of physician's choice.

# Overall Survival



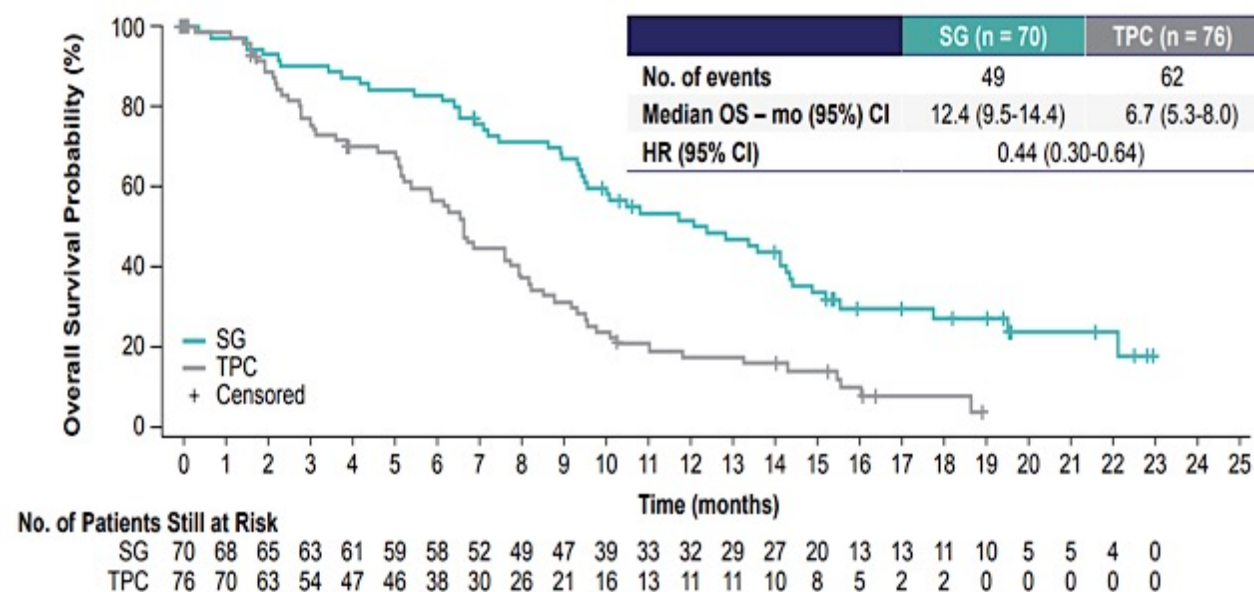
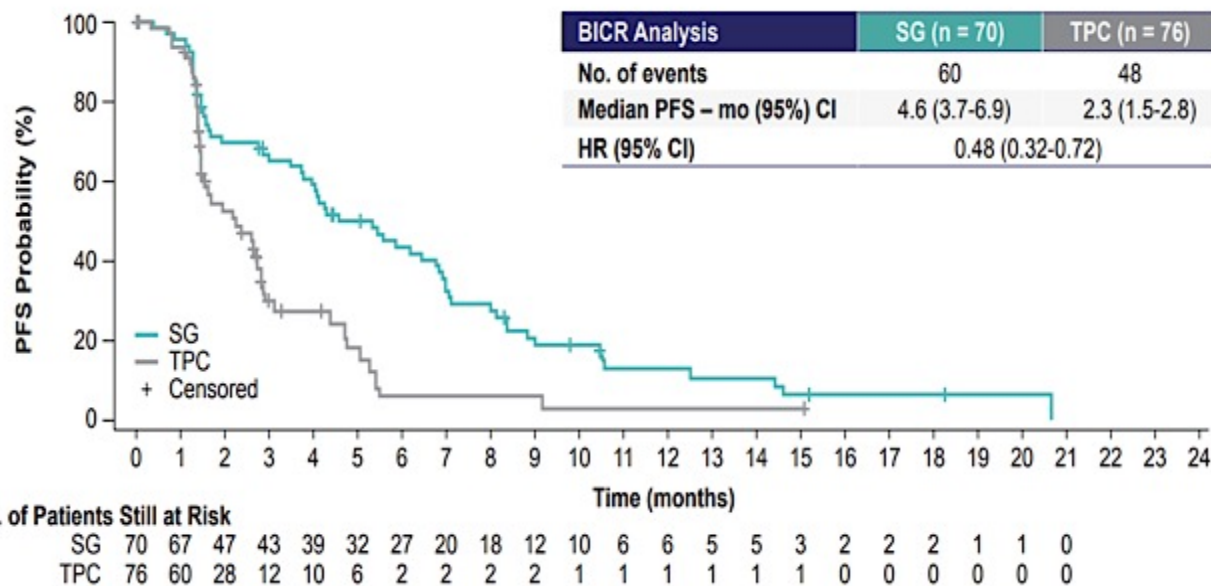
Assessed by independent central review in the brain metastases-negative population.  
OS, overall survival; SG, sacituzumab govitecan; TPC, treatment of physician's choice.

Courtesy of Hope S Rugo, MD

Bardia A, et al. *N Engl J Med.* 2021 and ASCO 2022

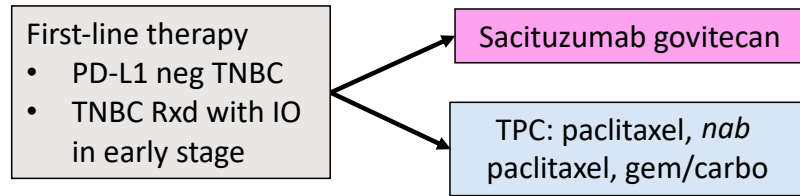
# Patients Without TNBC at Initial Diagnosis

In the ASCENT trial, approximately one-third of patients did not have TNBC at initial breast cancer diagnosis

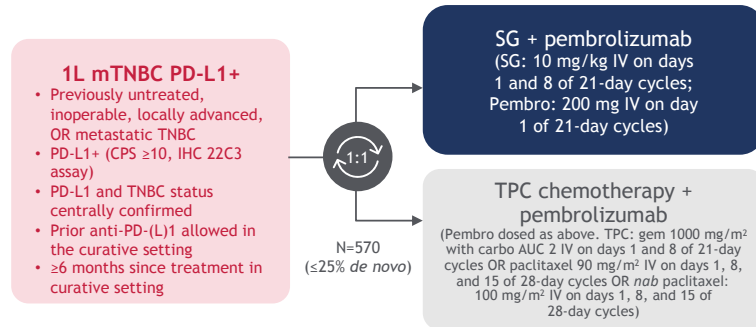


Treatment with SG demonstrated superior efficacy over TPC in this subgroup of patients, similar to that of SG in the overall BM Neg population

## ASCENT-03 (NCT05382299): PD-L1 negative N=540

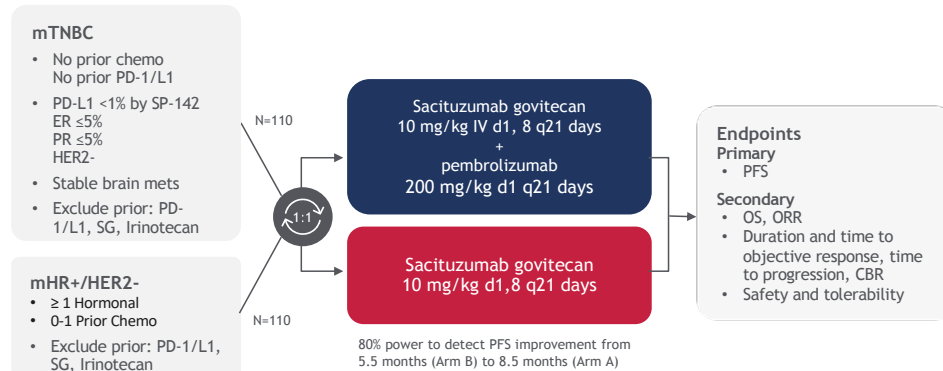


## ASCENT-04 (NCT05382286): PD-L1 positive N=570

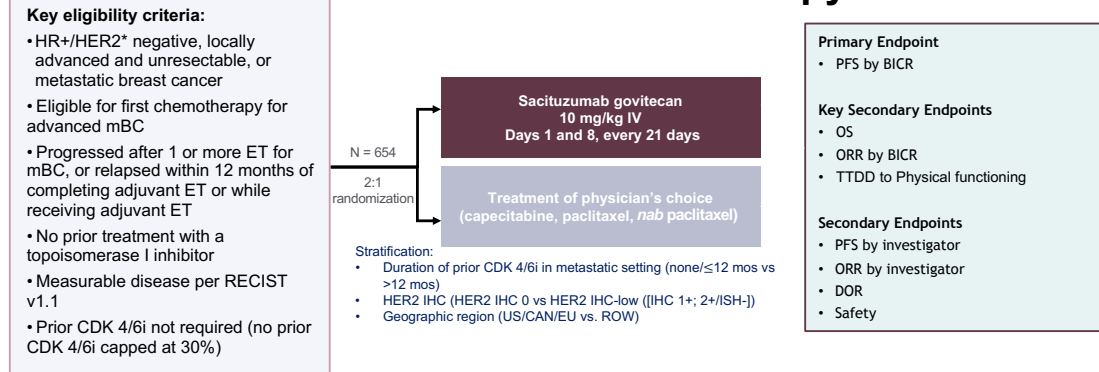


## SACI-IO TNBC and HR+: Sacituzumab govitecan +/- pembrolizumab in 1L PD-L1- mTNBC and HR+

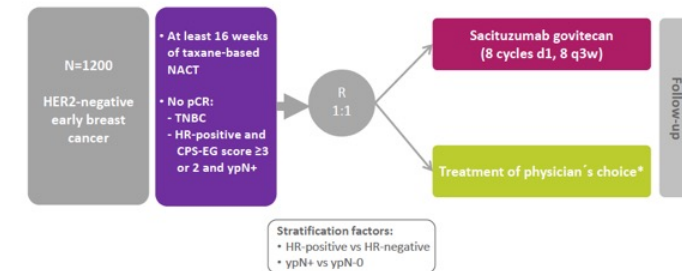
Garrido-Castro/Tolaney



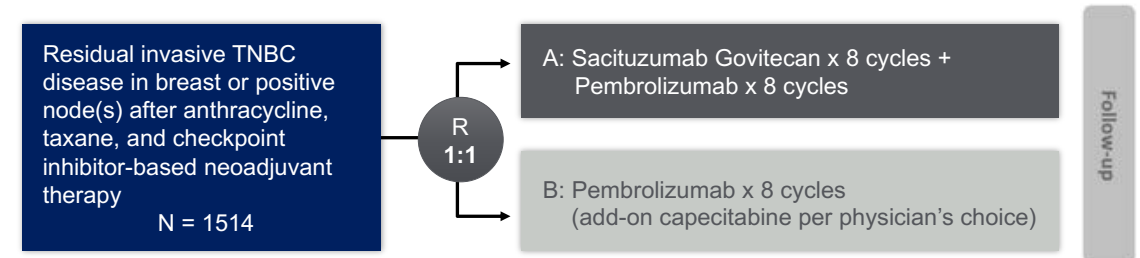
## ASCENT-07: First-line Chemotherapy in HR+



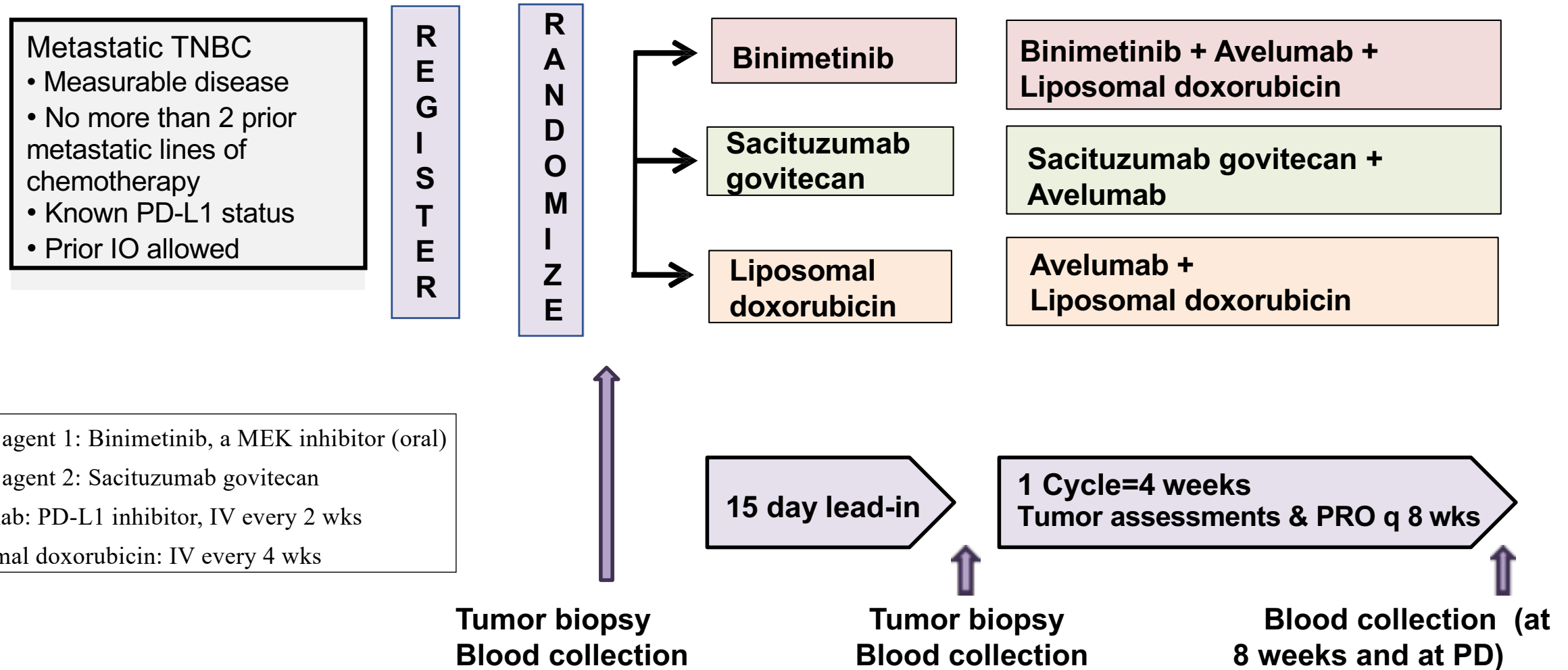
## GBG: SASCIA Post-Neoadjuvant Trial NCT04595565



## Phase III Trial: OptimICE-RD/ASCWENT-05 Residual disease in TNBC



# TBCRC 047: InCITe Trial Design



\*Safety combination data from MiLO trial  
#Safety combination data from several ongoing trials

**PI: Hope S. Rugo**

Courtesy of Hope S Rugo, MD

# Agenda

**INTRODUCTION: “Isn’t oncology depressing?”**

**MODULE 1: Checkpoint inhibitors**

**MODULE 2: Antibody-drug conjugates**

**MODULE 3: HER2-low disease**

**MODULE 4: Other agents under development**

# Key Data Sets

## Tiffany A Traina, MD, FASCO (continued)

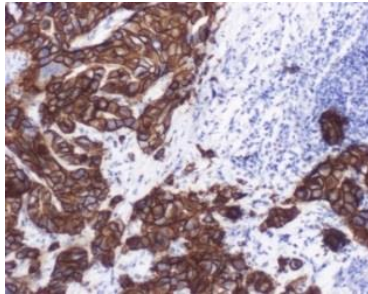
- Modi S et al. **Trastuzumab deruxtecan** in previously treated **HER2-low** advanced breast cancer. *N Engl J Med* 2022 July 7;387(1):9-20.
- Mosele F et al. **Trastuzumab deruxtecan** in metastatic breast cancer with **variable HER2 expression**: The **phase 2 DAISY** trial. *Nat Med* 2023 August;29(8):2110-20.
- Schmid P et al. **Trastuzumab deruxtecan (T-DXd) + durvalumab (D)** as first-line (1L) treatment for unresectable locally advanced/metastatic hormone receptor-negative (HR-), **HER2-low** breast cancer: Updated results from **BEGONIA**, a phase 1b/2 study. SABCS 2022;Abstract PD11-08.



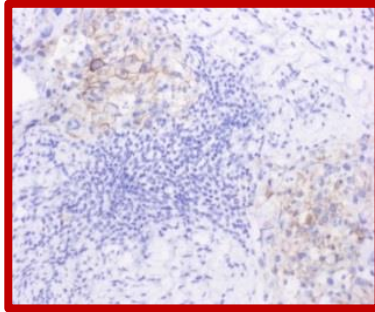
# Prevalence of HER2-low Breast Cancer (IHC 1+/2+, FISH negative)

HER2 IHC examples

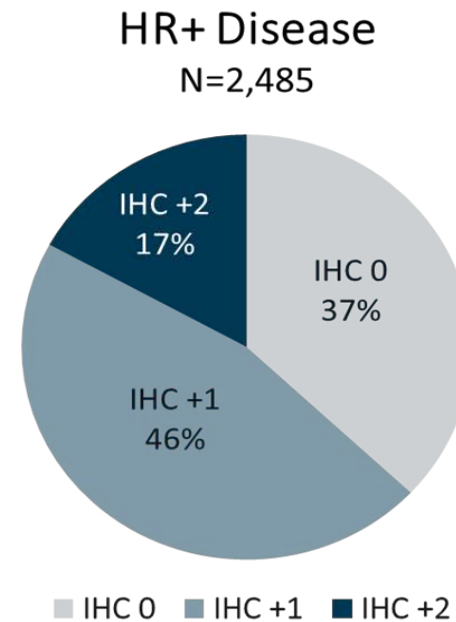
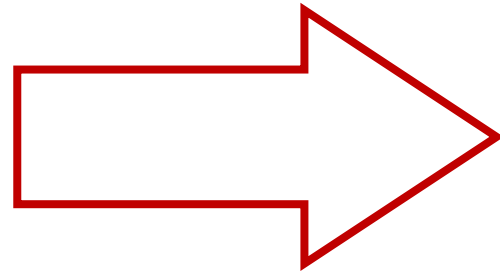
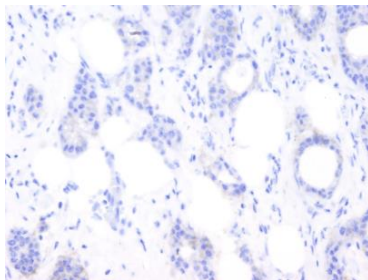
HER2+



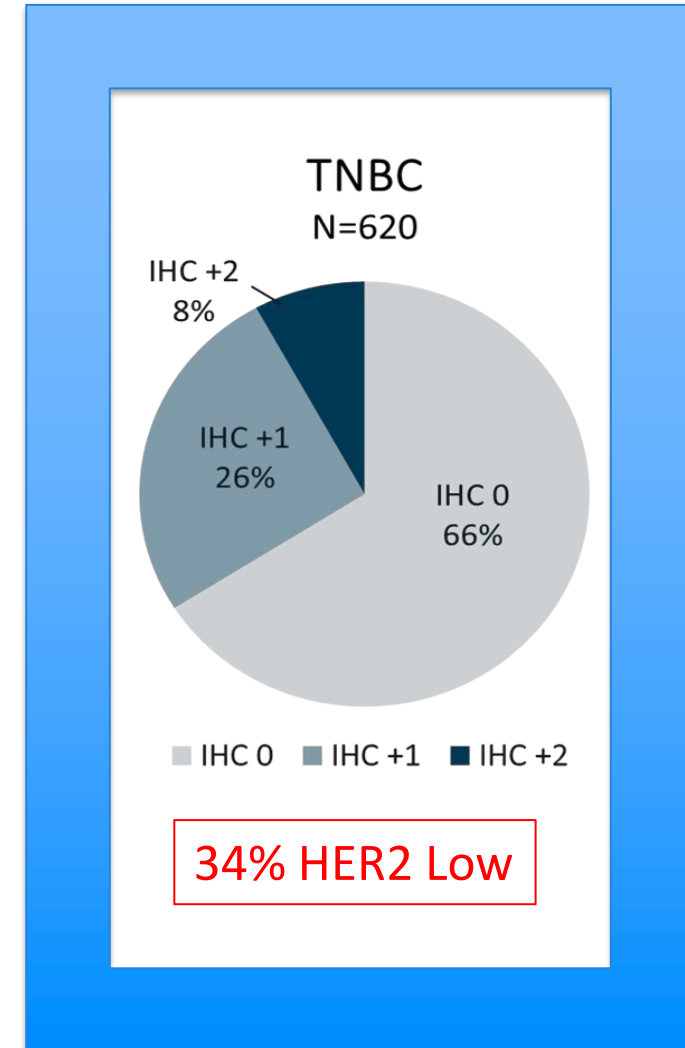
HER2-low



HER2-



63% HER2 Low

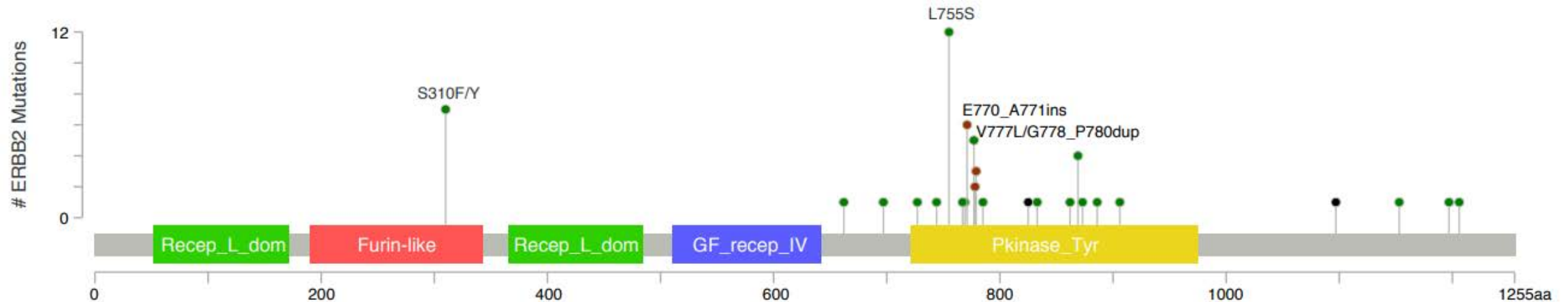
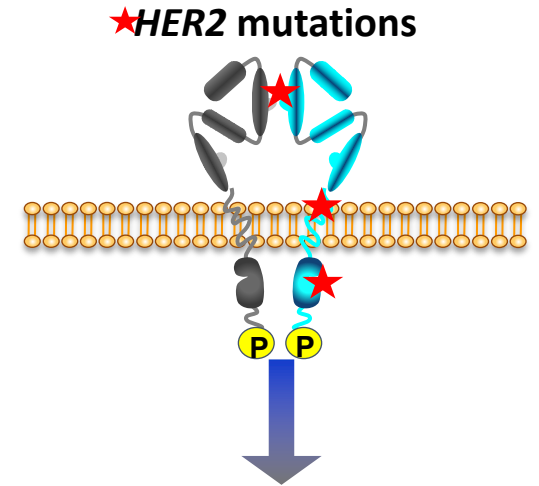


34% HER2 Low

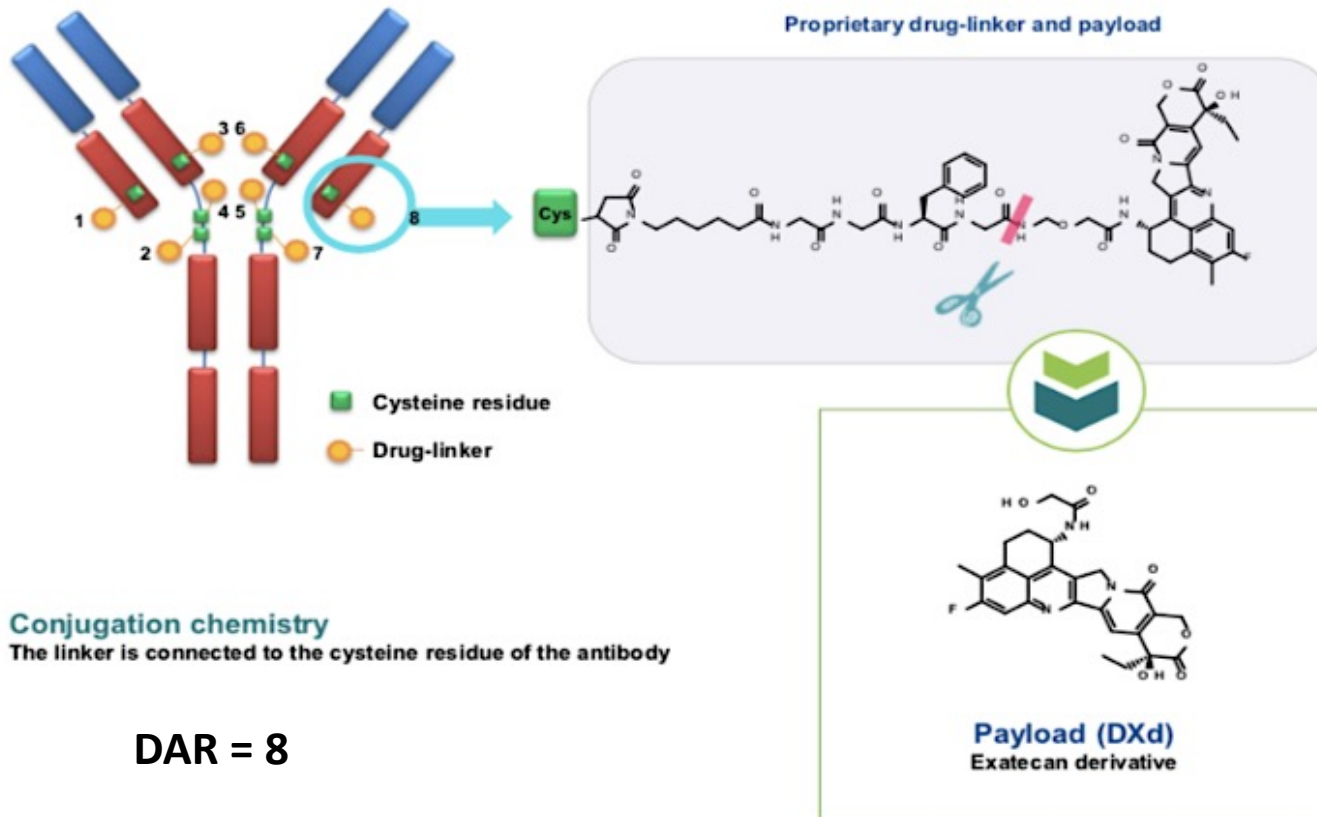


# HER2 (*ERBB2*) Mutations and Breast Cancer

- Somatic *ERBB2* mutations
- Majority of missense mutations are seen involving kinase domain
- In 5% up to 26% of lobular breast cancers



# Trastuzumab Deruxtecan (T-DXd)



- High drug-to-antibody ratio: ~8
- Stable linker-payload
- Tumor-selectable cleavable linker
- High potency, membrane-permeable payload with short systemic half-life
- Bystander killing effect

# Case – Dr Traina: HR-negative HER2-low MBC on T-DXd

- 68yo practicing physician presented with palpable left breast mass 2019 → imaging with multifocal left breast masses and left axillary mass
- Biopsy showing ER 50%, PR 0, HER2 2+ and ER 10% PR 0 HER2+ in the 2 biopsied lesions (FISH neg)
- PET/CT negative for distant metastases
- s/p neoadjuvant ddAC-T
- Left total mastectomy with axillary lymph node dissection = 2 foci identified (1) ER 1-5%, PR 0, HER2 1+ and ER 20-30%, PR 0, HER2 1+ with >10 lymph nodes involved (ypT1N3)
- Anastrozole
- PMRT
- Adjuvant Capecitabine x6 mo (last 2020)



# Case – Dr Traina: HR-negative HER2-low MBC on T-DXd (cont)

- Summer 2022 Bone pains → PET/CT with suspicious bone lesions --> bx confirmed ER 0% HER2 1-2+ FISH not amplified
- PDL1 negative CPS <10
- Guardant with ERBB2 mutation; Tumor sequencing unremarkable
- Began 1L carboplatin and denosumab
- 3 months later, PET/CT w overall increased extent of FDG uptake in multiple osseous lesions. Decreased in size and FDG uptake of two right axillary lymph nodes.
- 10/2022 Began C1 T-Dxd
- 01/2023 PET/CT w response
- Continued benefit from ongoing therapy w T-Dxd



**What is your global view on the antitumor efficacy of trastuzumab deruxtecan in patients with ER/PR-negative, HER2-low breast cancer? (Eg, approximate proportion of patients who experience a clinical response; general duration of response)**



**Dr Rugo**

**Reasonably high initial response rates ~50%, PFS 4-6 months – shorter than the DB-04 data. Better in pts with previously HR+ who are losing ER over time**



**Dr Traina**

**Active drug with clinical response**



**Dr Bardia**

**70% response; duration 6-9 months**



**Dr Brufsky**

**PFS 8-10 months; RR about 50%**



**Dr Telli**

**Clinical response in 50% of patients with duration of response of at least 6 months**



**Dr Tolaney**

**In our clinical experience, probably about 30%-40% have a response, but PFS is around 5 months**

**What is your global view on the toxicity of trastuzumab deruxtecan in patients with ER/PR-negative, HER2-low breast cancer? (Eg, approximate proportion of patients who experience tolerability issues that lead to holding or discontinuing the agent; GI issues, hair loss)**



**Dr Rugo**

**There is no difference compared to HR+; hold or discontinuation is primarily due to pneumonitis, rarely GI**



**Dr Traina**

**Nausea, anorexia are common; alopecia as well.  
ILD is rare but I have seen it**



**Dr Bardia**

**Generally well tolerated; 30%-40% need dose reduction;  
10% discontinue due to AEs, including pneumonitis**



**Dr Brufsky**

**Hair loss 25%, nausea 75%, ILD 15%**



**Dr Telli**

**<10% Nausea and fatigue can be problems, but generally can be managed  
without discontinuation; infrequently dose reduce. Hair loss rare**



**Dr Tolaney**

**~25% need a dose hold/modification, often for Grade 1 ILD or fatigue;  
~20% hair loss; nausea is well controlled with proper management**

ILD = interstitial lung disease; AE = adverse event

## Approximately what proportion of patients receiving trastuzumab deruxtecan for ER/PR-negative, HER2-low breast cancer experience ILD?



**Dr Rugo**

**12%-15%**



**Dr Traina**

**10%**



**Dr Bardia**

**10%**



**Dr Brufsky**

**15%**



**Dr Telli**

**15%**



**Dr Tolaney**

**20% (a little higher in our clinic than the literature)**



For a patient who is receiving trastuzumab deruxtecan for metastatic ER/PR-negative, HER2-low breast cancer and whose disease is currently outside the thoracic cavity and does not require chest imaging, do you routinely order chest imaging to assess for ILD?



**Dr Rugo**

**Yes, I usually get the first scan at 6 weeks then every 9 weeks for the first year**



**Dr Traina**

**Yes, will be sure chest is imaged at least every 3 months**



**Dr Bardia**

**Yes, every 6-9 weeks**



**Dr Brufsky**

**Yes, every 3 months**



**Dr Telli**

**Yes, every 3 cycles initially, then every 4 cycles**



**Dr Tolaney**

**Yes, I generally restage every 6-9 weeks**



Have you readministered or would you readminister trastuzumab deruxtecan to a patient who developed Grade 2 ILD?



Dr Rugo

No



Dr Traina

No



Dr Bardia

No



Dr Brufsky

No



Dr Telli

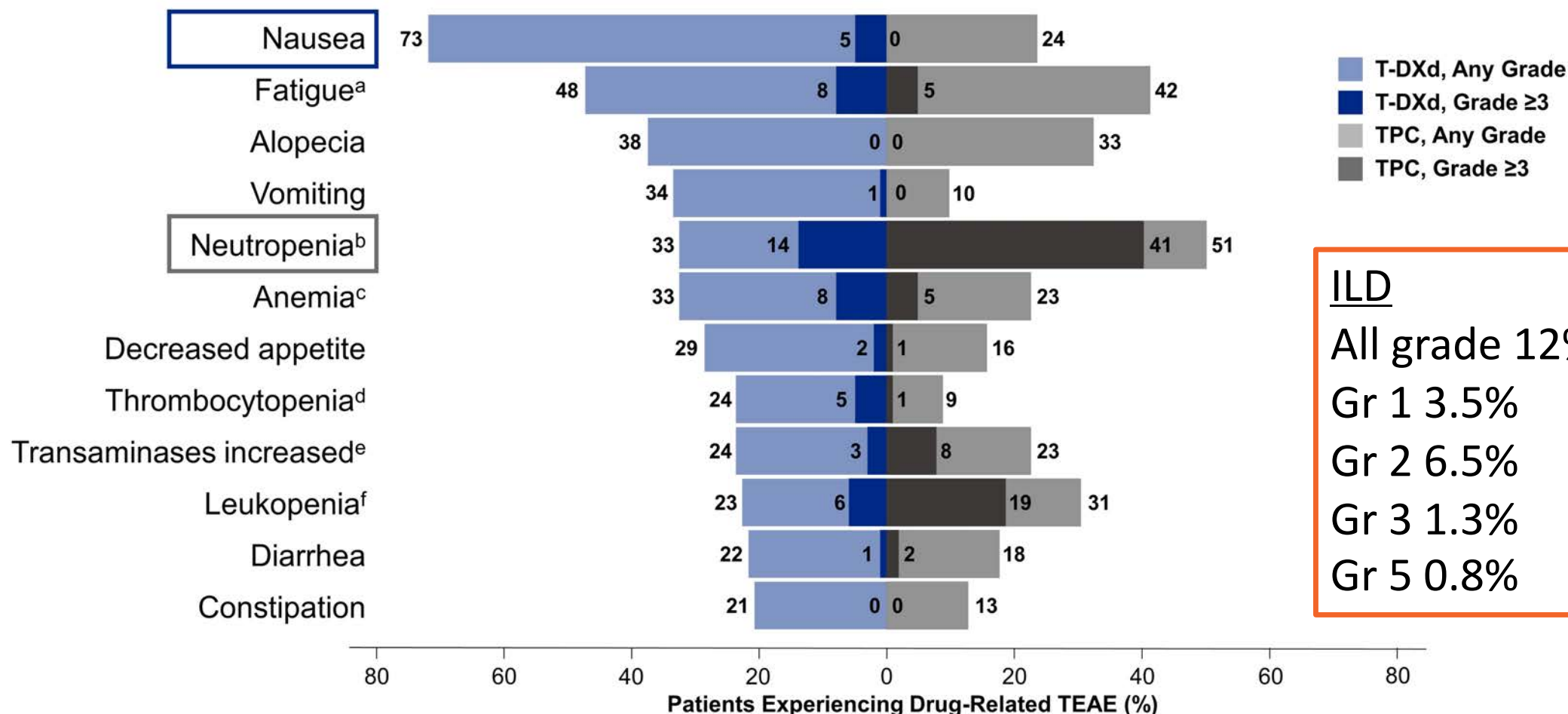
No



Dr Tolaney

No

# Drug-Related TEAEs in ≥20% of Patients



## ILD

All grade 12%

Gr 1 3.5%

Gr 2 6.5%

Gr 3 1.3%

Gr 5 0.8%

T-DXd, trastuzumab deruxtecan; TEAE, treatment-emergent adverse event; TPC, treatment of physician's choice.

<sup>a</sup>This category includes the preferred terms fatigue, asthenia, and malaise. <sup>b</sup>This category includes the preferred terms neutrophil count decreased and neutropenia. <sup>c</sup>This category includes the preferred terms hemoglobin decreased, red-cell count decreased, anemia, and hematocrit decreased. <sup>d</sup>This category includes the preferred terms platelet count decreased and thrombocytopenia. <sup>e</sup>This category includes the preferred terms transaminases increased, aspartate aminotransferase increased, alanine aminotransferase increased, gamma-glutamyltransferase increased, liver function test abnormal, hepatic function abnormal. <sup>f</sup>This category includes the preferred terms white-cell count decreased and leukopenia.

# Adverse Events of Special Interest

## Adjudicated as drug-related ILD/pneumonitis<sup>a</sup>

n (%)	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Any Grade
<b>T-DXd (n = 371)</b>	13 (3.5)	24 (6.5)	5 (1.3)	0	3 (0.8)	45 (12.1)
<b>TPC (n = 172)</b>	1 (0.6)	0	0	0	0	1 (0.6)

## Left ventricular dysfunction<sup>b</sup>

n (%)	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Any Grade
<b>Ejection fraction decreased</b>						
<b>T-DXd (n = 371)</b>	1 (0.3)	14 (3.8)	1 (0.3)	0	0	16 (4.3)
<b>TPC (n = 172)</b>	0	0	0	0	0	0
<b>Cardiac failure<sup>c</sup></b>						
<b>T-DXd (n = 371)</b>	0	1 (0.3)	1 (0.3)	0	0	2 (0.5)
<b>TPC (n = 172)</b>	0	0	0	0	0	0

ILD, interstitial lung disease; T-DXd, trastuzumab deruxtecan; TPC, treatment of physician's choice.

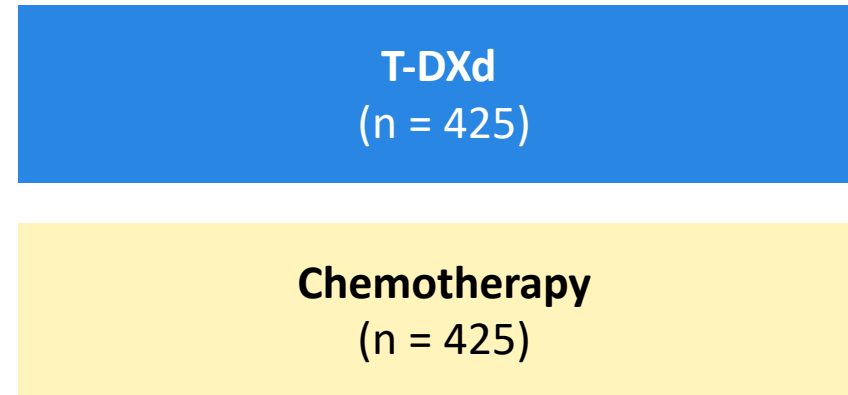
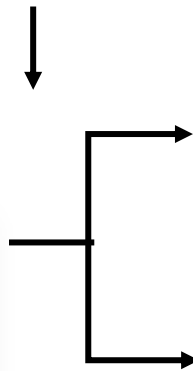
<sup>a</sup>Median time to onset of ILD/pneumonitis for patients with T-DXd was 129.0 days (range, 26-710). <sup>b</sup>Left ventricular dysfunction was reported in a total of 17 (4.6%) patients in the T-DXd arm. One patient initially experienced ejection fraction decrease, then later developed cardiac failure. <sup>c</sup>Both patients with cardiac failure were reported to have recovered.

# DESTINY-Breast06: T-DXd in Chemotherapy Naive and HER2-Ultralow Advanced/Metastatic Breast Cancer

Randomized, open-label phase III study

*Stratified by: prior CDK4/6 inhibitor; HER2 IHC 2+ vs 1+ vs 0;  
prior taxane in non-metastatic setting.*

Patients with advanced/metastatic breast cancer with progression on 2 previous endocrine therapy; restricted to HR+ Disease; HER2 IHC\* 0+, 1+, or 2+ based on central IHC assessment at diagnosis of first metastatic disease or later  
(N = 850)



*Until PD or toxicity*

\*Investigator's choice chemotherapy may consist of capecitabine, paclitaxel, or nab-paclitaxel.

- Primary endpoint: PFS (per BICR) in HER2 IHC 1+/2+
- Key secondary endpoints: OS in HER2 IHC 1+/2+ population, PFS and OS in ITT

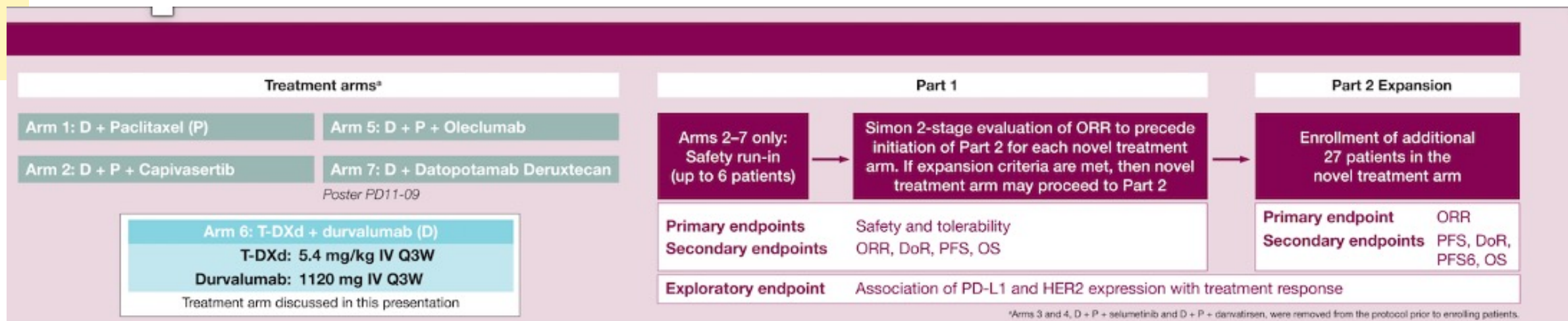
- Secondary endpoints: PFS (per INV) in HER2 1+/2+, ORR and DoR in HER2 1+/2+ and ITT, safety and tolerability, symptoms, functioning and QoL
- Exploratory: OS in HER2 IHC 1+/2+ population

HER2 IHC 0+ defined by any IHC staining up to 10% of tumor cells. Futility analysis in HER2 IHC 0+ cohort will be done.

Courtesy of Tiffany A Traina, MD, FASCO



# BEGONIA Study Design

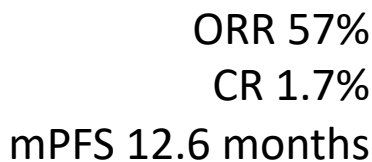


## Eligibility criteria:

- Metastatic TNBC
- No prior treatment for MBC
- > 12m DFI
- Measurable disease
- Normal organ function and no contraindication to IO
- For TDxd cohort:
  - HER2 low
  - No pulmonary disorders



Age Group	Percentage
18-24	70%
25-34	60%



\*If the best percentage change from baseline of target lesions cannot be calculated due to progression, withdrawal, or death, the value is imputed at +20%. "•" Patients with progressive disease as best overall response.

N=56  
TDXd 5.4mg/kg q3 weeks +  
Durva 1120mg IV q3 weeks

Table 2. Safety summary

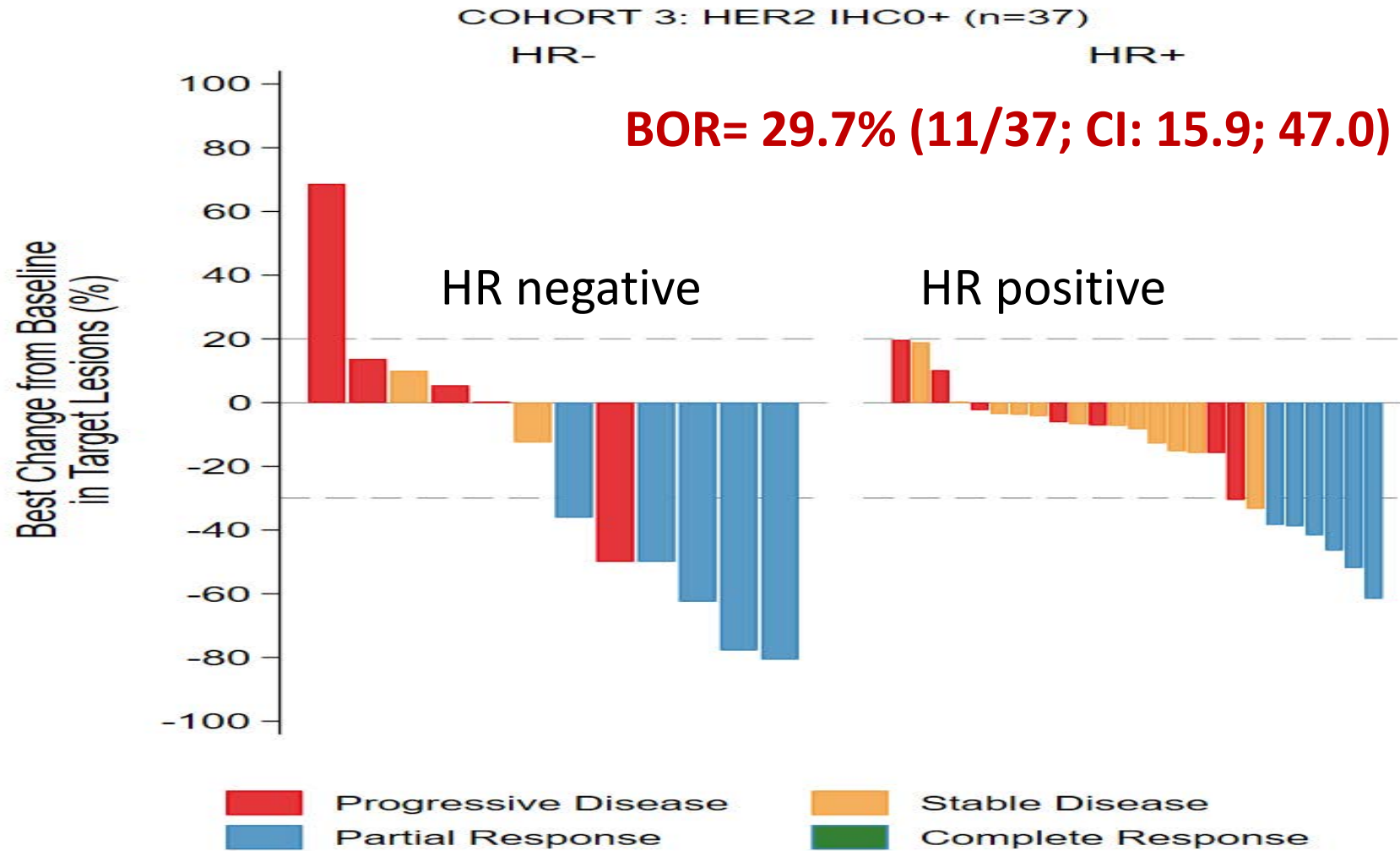
	N=58
<b>Any Grade AE, n (%)</b>	57 (98.3)
<b>Common AEs (≥20% patients, any grade)</b>	
Nausea	45 (77.6)
Fatigue	30 (51.7)
Neutropenia	18 (31.0)
Vomiting	17 (29.3)
Alopecia	16 (27.6)
Decreased appetite	15 (25.9)
Anemia, constipation	14 (24.1) each
Asthenia, diarrhea	12 (20.7) each
<b>Any Grade 3/4 AE</b>	25 (43.1)
<b>Any serious AE</b>	12 (20.7)
<b>Any treatment-related AE<sup>a</sup></b>	55 (94.8)
Grade 3/4	20 (34.5)
<b>Any durvalumab AESI</b>	43 (74.1)
<b>Any T-DXd AESI</b>	13 (22.4)
<b>AE leading to T-DXd + D discontinuation</b>	10 (17.2)
<b>AE leading to dose interruption</b>	32 (55.2)
<b>AE leading to death<sup>b</sup></b>	2 (3.4)
<b>Durvalumab dose delay</b>	26 (44.8)
<b>T-DXd dose delay</b>	24 (41.4)
<b>T-DXd dose reduction</b>	6 (10.3)

AESI, adverse event of special interest

Discontinuation rate 17%  
TDxD delay or reduction in 51%

\* 8 cases of ILD (1 Gr 5)

# DAISY Trial: Waterfall Plot of Best Overall Response to T-DXd in HER2 IHC 0+ (HER2 non-detected) MBC, N=37



Dieras, V et al; SABC 2021

med DoR: 6.8mo (CI: 2.8; NR) ; med PFS: 4.2mo (CI: 2.0; 5.7)

Courtesy of Tiffany A Traina, MD, FASCO

Mosele F et al. *Nat Med.* 2023;29(8):2110-2120.

# Agenda

**INTRODUCTION: “Isn’t oncology depressing?”**

**MODULE 1: Checkpoint inhibitors**

**MODULE 2: Antibody-drug conjugates**

**MODULE 3: HER2-low disease**

**MODULE 4: Other agents under development**



# Key Data Sets

## Hope S Rugo, MD

- Meric-Bernstam F et al. Phase 1 **TROPION-PanTumor01** study evaluating **datopotamab deruxtecan (Dato-DXd)** in unresectable or metastatic hormone receptor-positive/HER2-negative breast cancer (BC). SABCS 2022;Abstract PD13-08.

## Tiffany A Traina, MD, FASCO

- Bardia A. **Datopotamab deruxtecan (Dato-DXd)**, a TROP2-directed antibody-drug conjugate (ADC), for triple-negative breast cancer (TNBC): Preliminary results from an ongoing phase 1 trial. *Ann Oncol* 2021;32(Suppl 2):60-78;Abstract LBA4.
- Schmid P et al. **Datopotamab deruxtecan (Dato-DXd) + durvalumab (D)** as first-line (1L) treatment for unresectable locally advanced/metastatic triple-negative breast cancer (a/mTNBC): Updated results from **BEGONIA**, a phase 1b/2 study. SABCS 2022;Abstract PD11-09.

# Key Data Sets

## Tiffany A Traina, MD, FASCO (continued)

- Krop I et al. Results from the phase 1/2 study of **patritumab deruxtecan**, a HER3-directed antibody-drug conjugate (ADC), in patients with **HER3-expressing metastatic breast cancer** (MBC). ASCO 2022;Abstract 1002.
- Schmid P et al. Mature survival update of the double-blind placebo-controlled randomised phase II **PAKT trial** of first-line **capiwasertib plus paclitaxel** for metastatic triple-negative breast cancer. SABCS 2020;Abstract PD1-11.
- Rainey N et al. A phase 2 randomized study of **magrolimab combination therapy** in adult patients with unresectable locally advanced or metastatic triple-negative breast cancer (mTNBC): ELEVATE-TNBC. Abstract TPS1130.

## What other novel agents and strategies are under investigation for patients with metastatic TNBC that you believe are promising?



**Dr Rugo**

**Magrolimab, TROP2 ADCs, engineered viruses, vaccines**



**Dr Traina**

**Dato-DXd, capivasertib, other ADCs (ie, enfortumab vedotin)**



**Dr Bardia**

**Datopotamab deruxtecan**



**Dr Brufsky**

**Other ADCs**



**Dr Telli**

**AZD5305 PARP 1 selective inhibitor**



**Dr Tolaney**

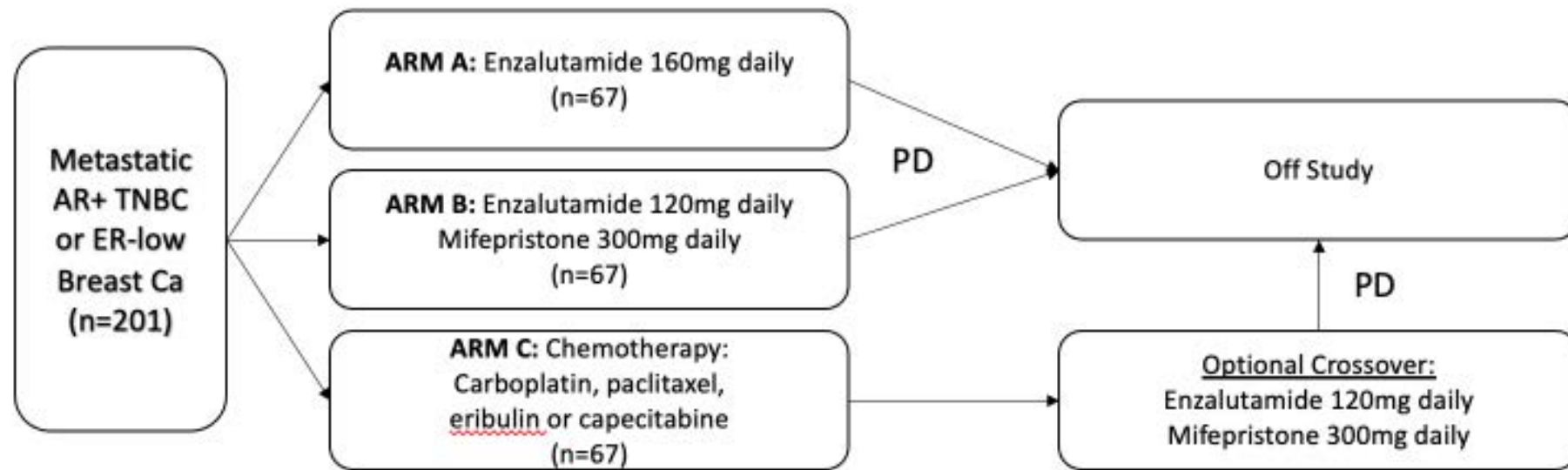
**B7H4-directed ADCs and AKT inhibitors and mutant selective PI3Ki**

ADC = antibody-drug conjugate

# IRB#: 22-334 (TBCRC 058)

A Randomized, Phase II Study of Enzalutamide, Enzalutamide With Mifepristone, and Treatment of Physician's Choice in Patients with AR+ Metastatic Triple-Negative or ER-Low Breast Cancer

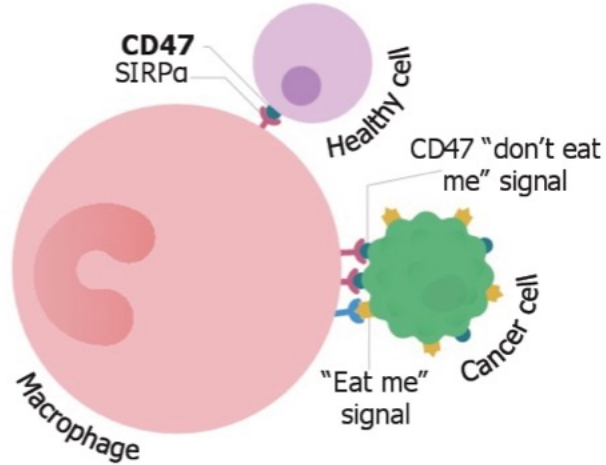
## SCHEMA



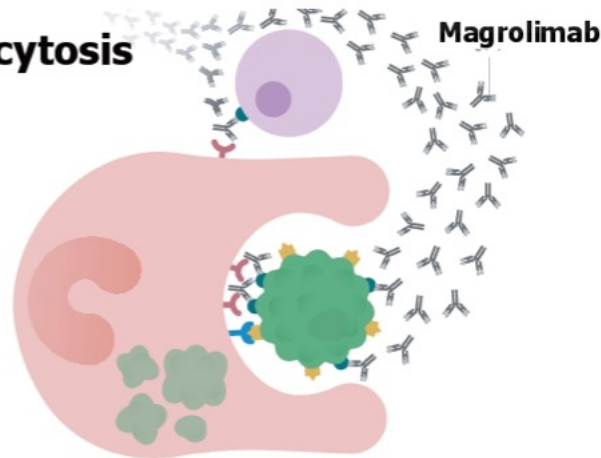
This phase II study will randomize eligible patients (1:1:1) between enzalutamide 160 mg orally daily (Arm A), enzalutamide 120mg daily with mifepristone 300mg daily (Arm B) and TPC (Arm C; standard of care carboplatin, paclitaxel, capecitabine, or eribulin). A cycle length equals 3 weeks (21 days).

## Magrolimab Mechanism of Action

### No phagocytosis



### Phagocytosis

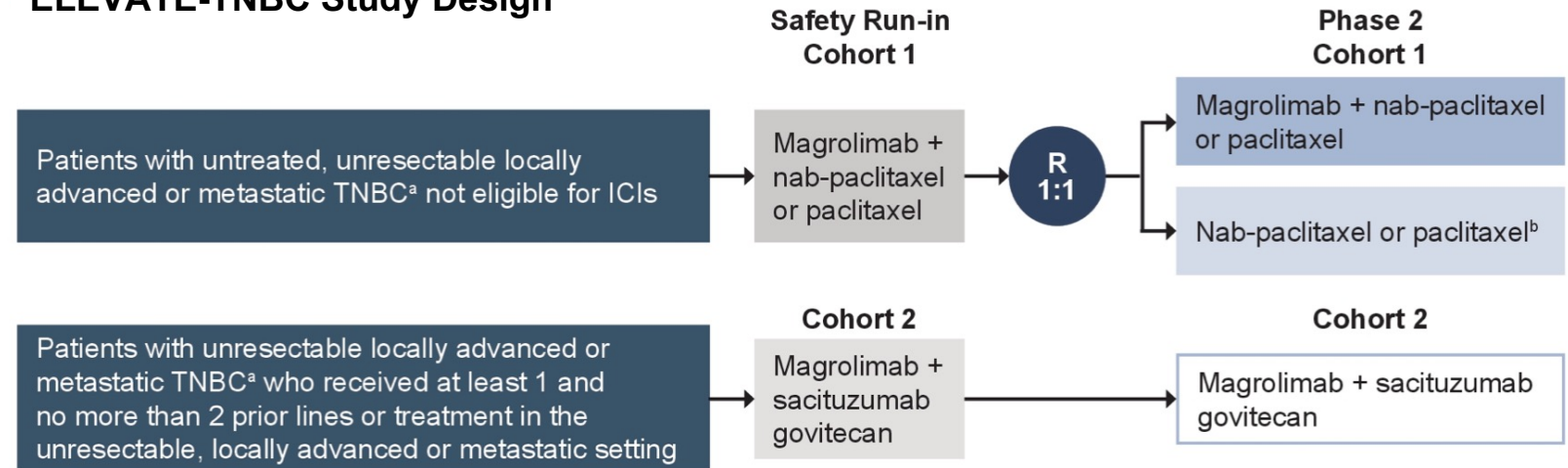


CD47, cluster of differentiation 47; SIRPα, signal-regulatory protein alpha.

## ELEVATE-TNBC: Taxane +/- CD47 Inhibitor for mTNBC (NCT04958785)

- CD47: “don’t eat me” signal overexpressed in some cancers
  - Magrolimab blocks CD47, facilitates macrophage induced phagocytosis of cancer cells
- Some chemotherapy, including taxanes enhance phagocytic signals on tumor cells
  - Potential for synergistic activity between chemo and magrolimab






### ELEVATE-TNBC Study Design



ER, estrogen receptor; HER2, human epidermal growth factor receptor 2; ICI, Immune checkpoint inhibitors; IHC, immunohistochemistry; ISH, in situ hybridization; PR, progesterone receptor; R, randomized; TNBC, triple-negative breast cancer.

<sup>a</sup>TNBC defined by the American Society of Clinical Oncology/College of American Pathologists guidelines as absence of ER and PR (IHC <1% of nuclei stain for each) and HER2 (IHC 0, 1+, 2+/ISH-). <sup>b</sup>Patients enrolled in Cohort 1 Arm B with documented progressive disease can rescreen to enroll in Cohort 2 as long as they meet all other eligibility criteria.







# How would you rate your enthusiasm for enrolling a patient on the MARIA study of an MRD (minimal residual disease) assay to evaluate recurrence and response via a tumor-informed assessment?

		Enthusiasm*	Comments
	Dr Rugo	4	Not ready for clinical use, but important to continue to collect data and develop trials
	Dr Traina	3	—
	Dr Bardia	4	Wave of the future
	Dr Brufsky	2	OS benefit hard to prove
	Dr Telli	4	Appealing but logistically challenging strategy
	Dr Tolaney	3	More sensitive assays are needed and are coming

\* 1 = not at all enthusiastic, 4 = very enthusiastic



**How would you rate your enthusiasm for enrolling a patient on the open-label Phase II Adaptive Multi-Drug Treatment of Evolving Cancers (AMTEC) study of olaparib in combination with durvalumab, selumetinib or capivasertib, or ceralasertib monotherapy for patients with metastatic TNBC?**

		Enthusiasm*	Comments
	Dr Rugo	3	A fishing expedition with some preclinical supportive data, but we need new therapies for this setting desperately
	Dr Traina	3	—
	Dr Bardia	2	Basket study with PARP inhibitor
	Dr Brufsky	3	Interesting design
	Dr Telli	2	Interesting combinations, but role of olaparib in unselected mTNBC is not established
	Dr Tolaney	2	Olaparib +/- atezo RP2 was a negative trial, making IO combo with PARP less attractive

\* 1 = not at all enthusiastic, 4 = very enthusiastic

## How would you rate your enthusiasm for enrolling a patient on the TILS-001-DC study: Treatment of advanced or metastatic TNBC with adoptive therapy of PD-1-positive tumor-infiltrating lymphocytes?

		Enthusiasm*	Comments
	Dr Rugo	3	Important area to study, hard timing-wise as cells take time and TNBC progresses quickly
	Dr Traina	2	—
	Dr Bardia	3	Exciting concept that could major impact if successful
	Dr Brufsky	2	Tough to grow TILs
	Dr Telli	4	Exciting approach with potential for long-term response
	Dr Tolaney	2	None

\* 1 = not at all enthusiastic, 4 = very enthusiastic

TILs = tumor-infiltrating lymphocytes



Based on the published literature and your clinical experience, what are the most common tolerability issues that result in therapy being held or discontinued among patients receiving datopotamab deruxtecan?



**Dr Rugo**

**Stomatitis**



**Dr Traina**

**Very well tolerated; mucositis needs prophylaxis  
but otherwise favorable toxicity profile**



**Dr Bardia**

**Mucositis**



**Dr Brufsky**

**Mucositis**



**Dr Telli**

**GI toxicity, including stomatitis**



**Dr Tolaney**

**Stomatitis and nausea**

Based on the published literature and your clinical experience, approximately what proportion of patients receiving datopotamab deruxtecan experience interstitial lung disease (ILD)?



**Dr Rugo**

Available data are insufficient at this time



**Dr Traina**

<5%



**Dr Bardia**

1%



**Dr Brufsky**

2%-5%



**Dr Telli**

<10%



**Dr Tolaney**

5%

Based on the published literature and your clinical experience, approximately what proportion of patients receiving datopotamab deruxtecan require treatment modifications due to tolerability issues?



**Dr Rugo**

**At least 10%**



**Dr Traina**

**<10%**



**Dr Bardia**

**25%**



**Dr Brufsky**

**70%**



**Dr Telli**

**25%**



**Dr Tolaney**

**10%-15%**

Based on the published literature and your clinical experience, what are the most common Grade  $\geq 3$  adverse events associated with patritumab deruxtecan?



**Dr Rugo**

**Nausea, diarrhea, ILD**



**Dr Traina**

**Neutropenia, thrombocytopenia; ILD Gr  $>3$  rare**



**Dr Bardia**

**Nausea, diarrhea, myelosuppression**



**Dr Brufsky**

**Mucositis**



**Dr Telli**

**GI toxicity, fatigue**



**Dr Tolaney**

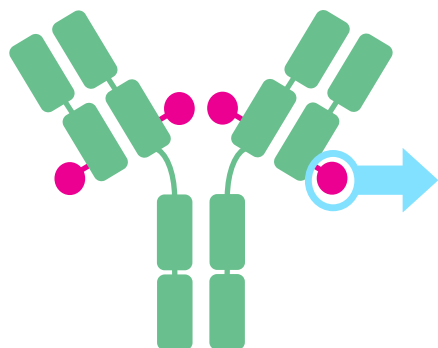
**Neutropenia, thrombocytopenia, fatigue, nausea**

# Datopotamab Deruxtecan (Dato-DXd)

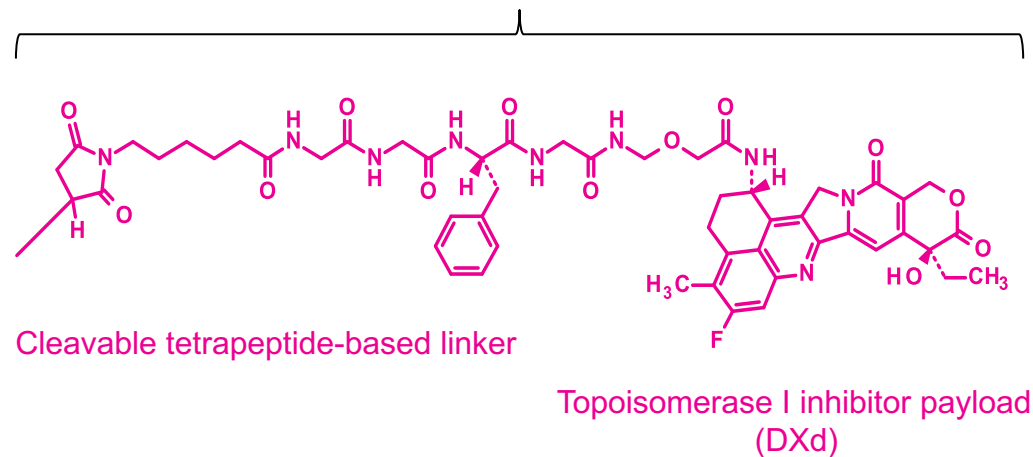
## Dato-DXd is an ADC with 3 components<sup>1,2</sup>:

- A humanized anti-TROP2 IgG1 monoclonal antibody attached to:
- A topoisomerase I inhibitor payload, an exatecan derivative, via
- A tetrapeptide-based cleavable linker

Humanized anti-TROP2  
IgG1 mAb



Deruxtecan<sup>a,3</sup>



Payload mechanism of action:  
topoisomerase I inhibitor<sup>b,1</sup>

High potency of payload<sup>b,2</sup>

Optimized drug to antibody ratio  $\approx 4$ <sup>b,c,1</sup>

Payload with short systemic half-life<sup>b,c,2</sup>

Stable linker-payload<sup>b,2</sup>

Tumor-selective cleavable linker<sup>b,2</sup>

Bystander antitumor effect<sup>b,2,4</sup>

<sup>a</sup> Image is for illustrative purposes only; actual drug positions may vary. <sup>b</sup> The clinical relevance of these features is under investigation. <sup>c</sup> Based on animal data.

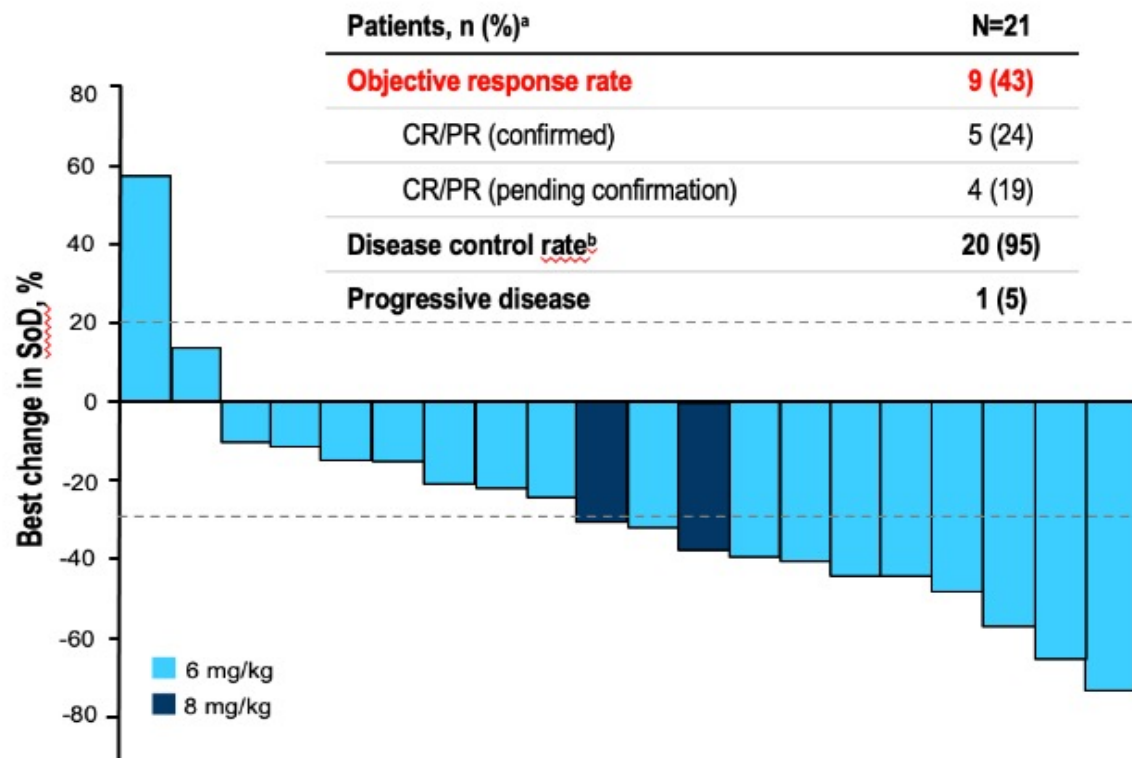
1. Okajima D, et al. AACR-NCI-EORTC 2019; [abstract C026]; 2. Nakada T, et al. *Chem Pharm Bull.* 2019;67(3):173-185; 3. Krop I, et al. SABCS 2019; [abstract GS1-03]; 4. Ogitani Y, et al. *Cancer Sci.* 2016;107(7):1039-1046.

# TROPION-PanTumor01

## Dato-DXd Efficacy Signal

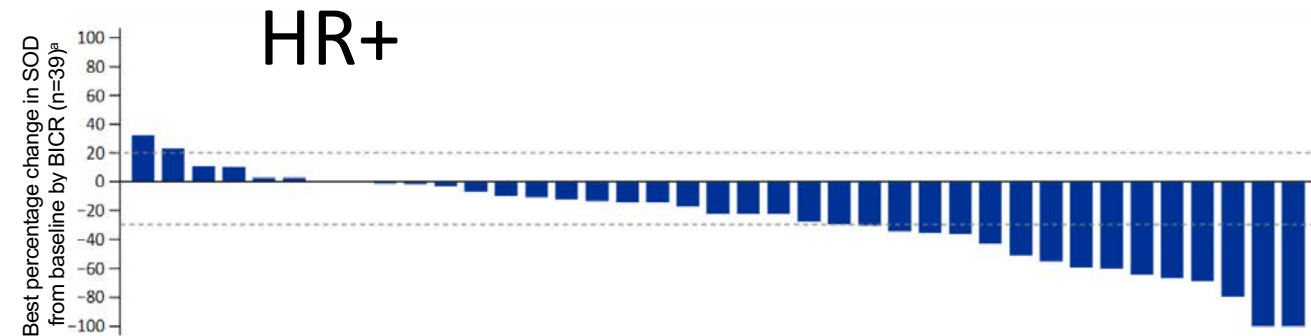
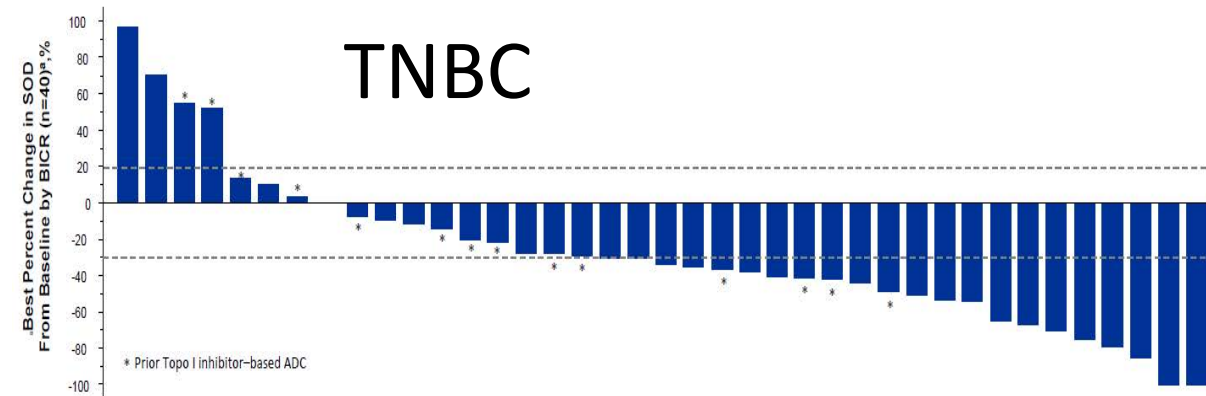
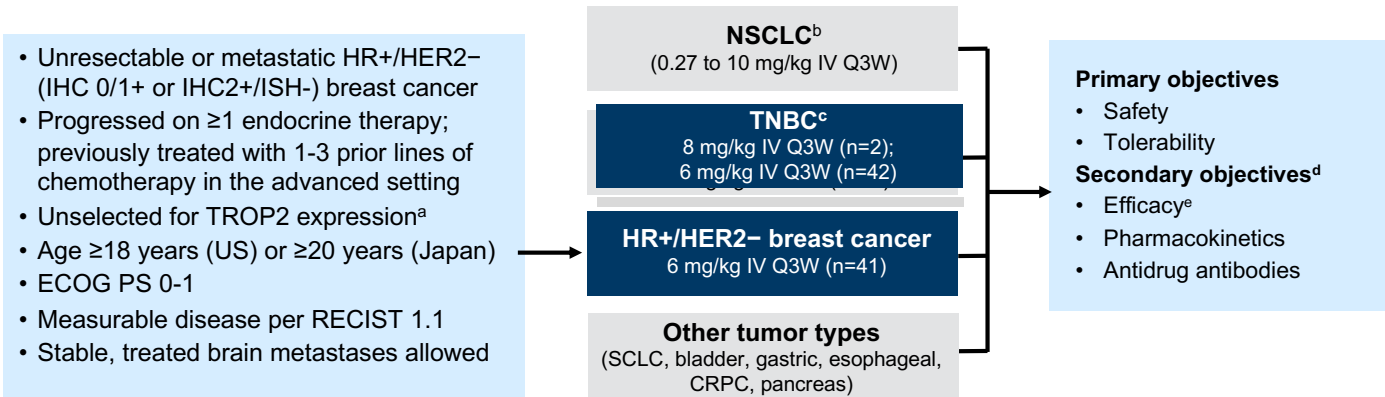
71% had  $\geq 3$  prior lines  
8% had prior sacituzumab

### Antitumor Activity (by BICR)



Preferred Term, n (%) <sup>a</sup>	N=24	
	Any grade	Grade $\geq 3$
<b>TEAEs</b>	<b>24 (100)</b>	<b>8 (33)</b>
Stomatitis	15 (63)	3 (13)
Nausea	15 (63)	0
Fatigue	10 (42)	1 (4)
Vomiting	10 (42)	0
Alopecia	6 (25)	—
Cough	5 (21)	0
Pruritus	5 (21)	0
Anemia	4 (17)	1 (4)
Headache	4 (17)	0
Constipation	4 (17)	0

# Phase 1 TROPION-PanTumor01: New Trop2 ADC Datopotamab Deruxtecan in HR+ and HR-/HER2- MBC



## ORR by BICR:

- All patients: 32%
- Topo I inhibitor-naïve patients: 44%
- Median PFS: 4.4-7.3 mo

Bardia A, et al. SABCS 2022 P6-10-03

## AEs: Most common TEAEs:

stomatitis (73 -83%/grade 3 10%),  
nausea (66%), vomiting (39%)

Courtesy of Hope S Rugo, MD

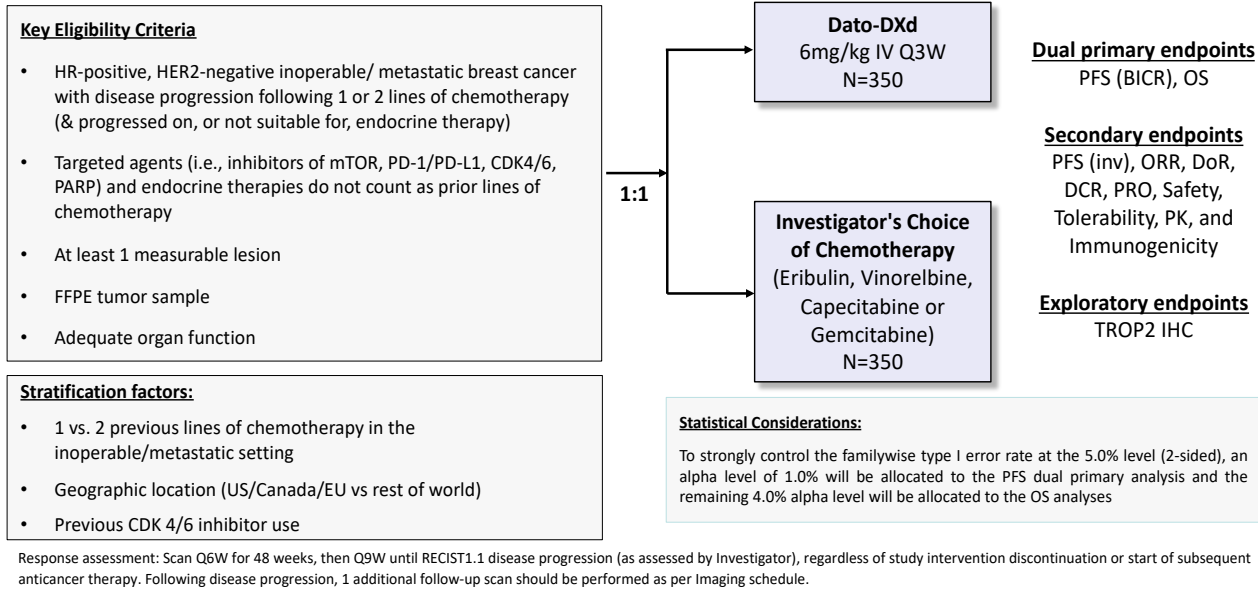
- ORR (all PR): 27%;
- CBR: 44%
- Med PFS 8.3 mo
- 59% alive for >1 year

Meric-Bernstam et al, SABCS 2022



# TROPION-Breast01

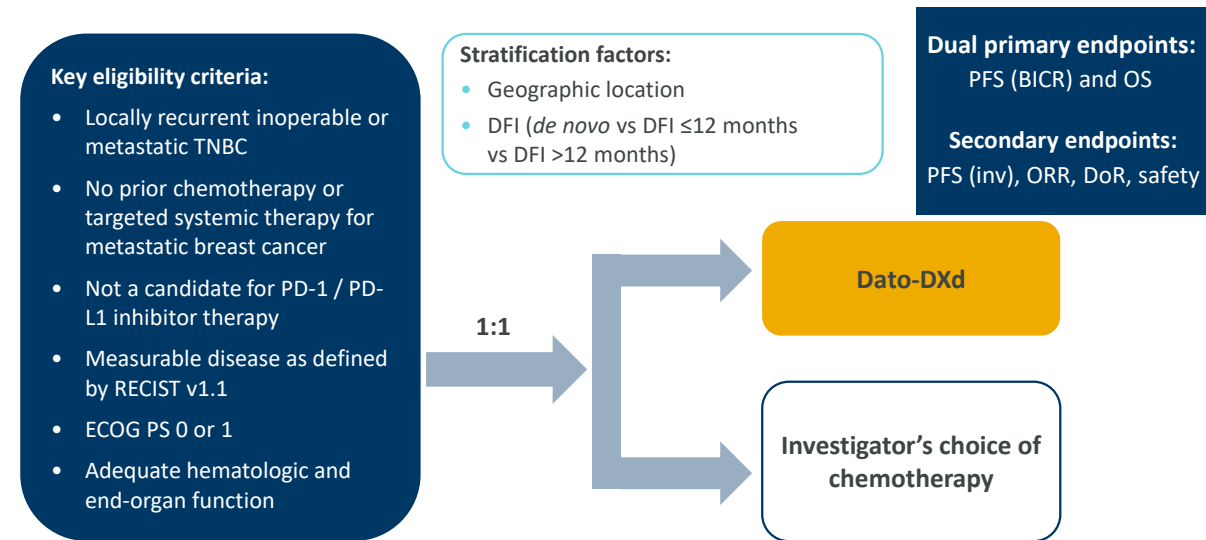
## NCT05104866



- 2<sup>nd</sup>-3<sup>rd</sup> line therapy for HR+/HER2- mBC
- Completed accrual

# TROPION-Breast02

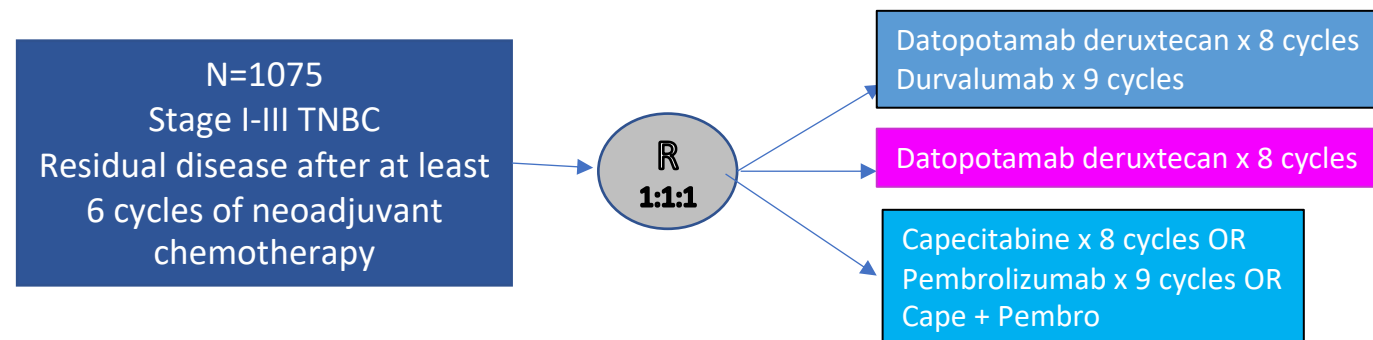
## NCT05374512



- 1st line therapy for TNBC
- PD-L1 negative

# Phase III TROPION-Breast03

## NCT05629585

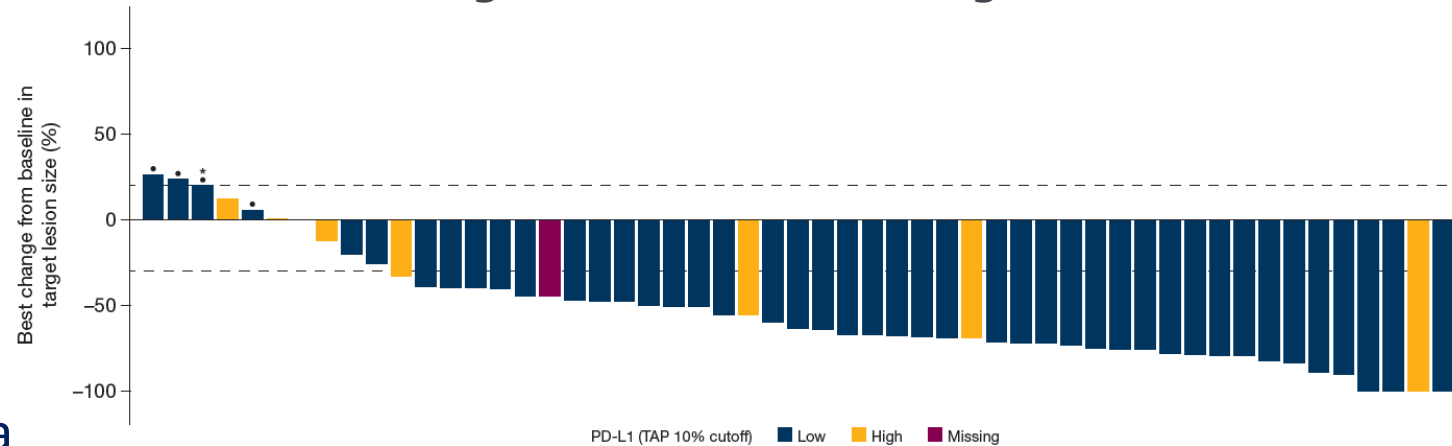




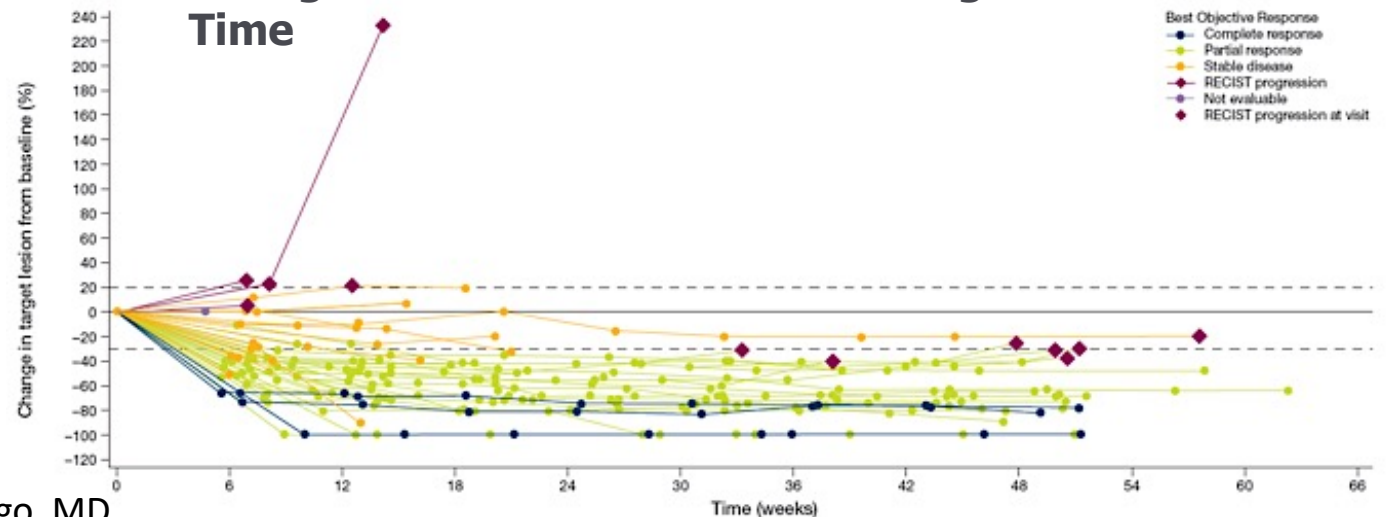
# BEGONIA Trial – Cohort 7: Dato-DXd + Durvalumab

- 1<sup>st</sup> line TNBC
  - N=61; 53 evaluable
  - ORR 73.6%
  - Durable responses
    - 82% remained in response at data cutoff
    - Responses in PD-L1 low and high tumors (SP263)
- Previous data
  - 69% stomatitis, 14% grade 3
- Current:
  - Stomatitis 55.7% no grade given
  - Alopecia 45.9%
  - Nausea 57.4%
  - **ILD/pneumonitis in 3.3% (2)**

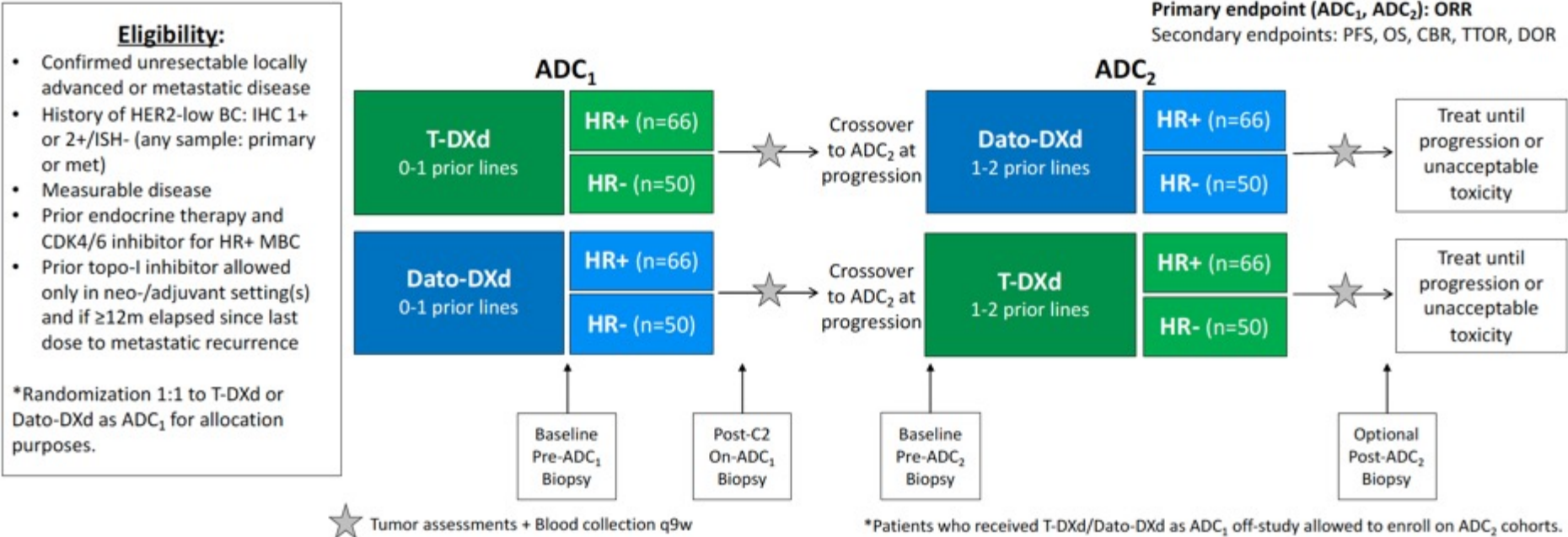
Best Change from Baseline of Target Lesion Size



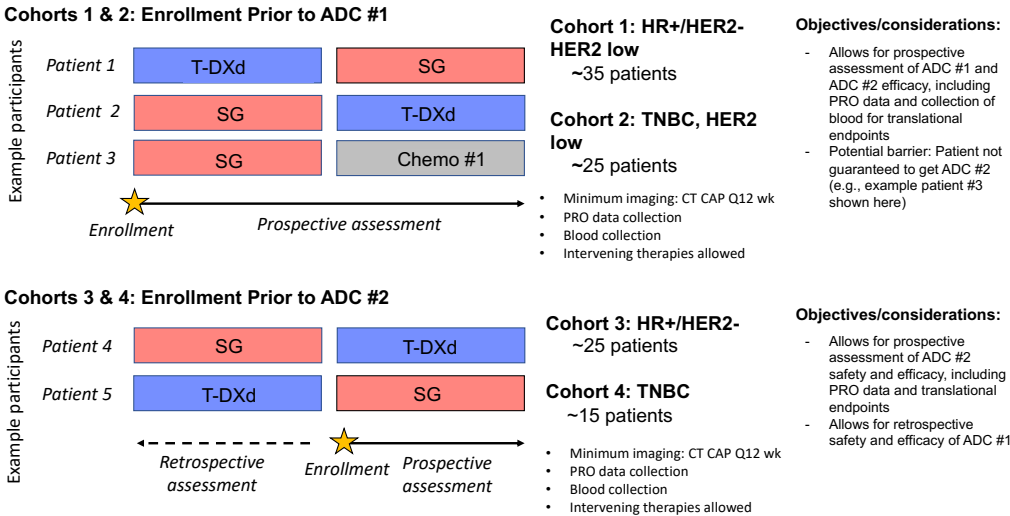
Change from Baseline in Sum of Target Lesions Over Time



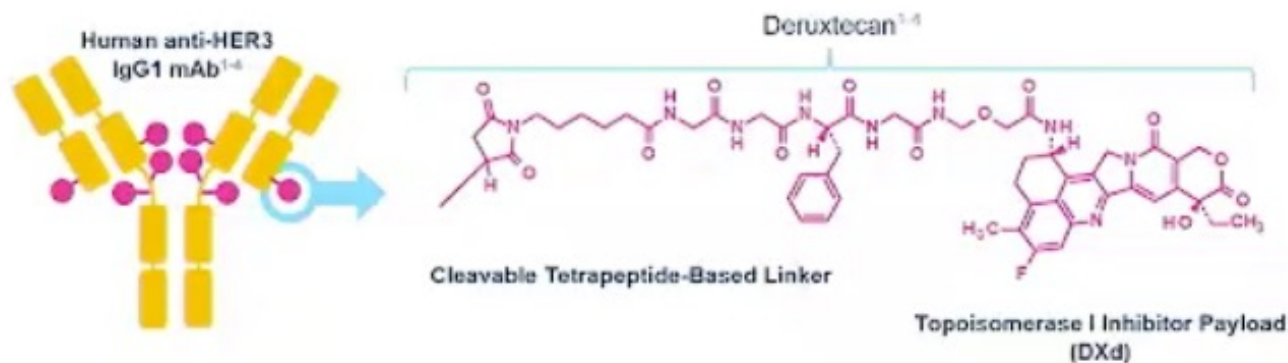
TBCRC 064: TReatment of ADC-Refractory Breast CancEr with Dato-DXd or T-DXd (TRADE DXd).  
PI: Ana Garrido-Castro



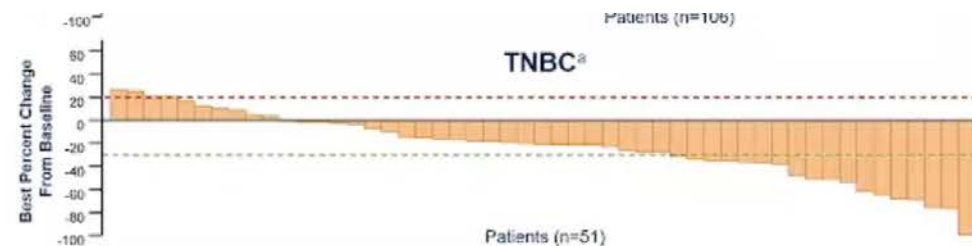
Registry Sequencing Study:  
Laura Huppert UCSF



# HER3 DXd (Patritumab) in HER3<sup>+</sup> BC



TNBC (n=53)  
 (HER2 0 36%; HER2 "low" 55%)  
 Brain metastases 9%  
 Liver/Lung metastases 64%  
 Med # prior regimens 2 (1-13)



KEY ELIGIBILITY CRITERIA	Dose Escalation (DE) <sup>b</sup> Any BC Subtype	Dose Finding (DF) Any BC Subtype	Dose Expansion (DEXP)
<ul style="list-style-type: none"><li>Advanced/unresectable or metastatic breast cancer</li><li>HER3-positive<sup>a</sup></li></ul>	8.0 mg/kg IV Q3W n=6		HER3-High <sup>c</sup> HR+/HER2-      TNBC 6.4 mg/kg IV Q3W (n=31)      6.4 mg/kg IV Q3W (n=31)
DF & DEXP (HR+/HER2-)	6.4 mg/kg IV Q3W n=15		4.8 mg/kg IV Q3W (n=33)
	4.8 mg/kg IV Q3W n=15		
DEXP (TNBC)	3.2 mg/kg IV Q3W n=3	3.2→4.8→6.4 mg/kg Q3W then 6.4 mg/kg Q3W (n=12)	HER3-Low <sup>c</sup> HR+/HER2- 6.4 mg/kg IV Q3W (n=21)
<ul style="list-style-type: none"><li>1 to 2 prior chemotherapy regimens for advanced disease</li></ul>	1.6 mg/kg IV Q3W n=3	4.2 mg/kg IV Q2W × 3 cycles then 6.4 mg/kg IV Q3W (n=12)	

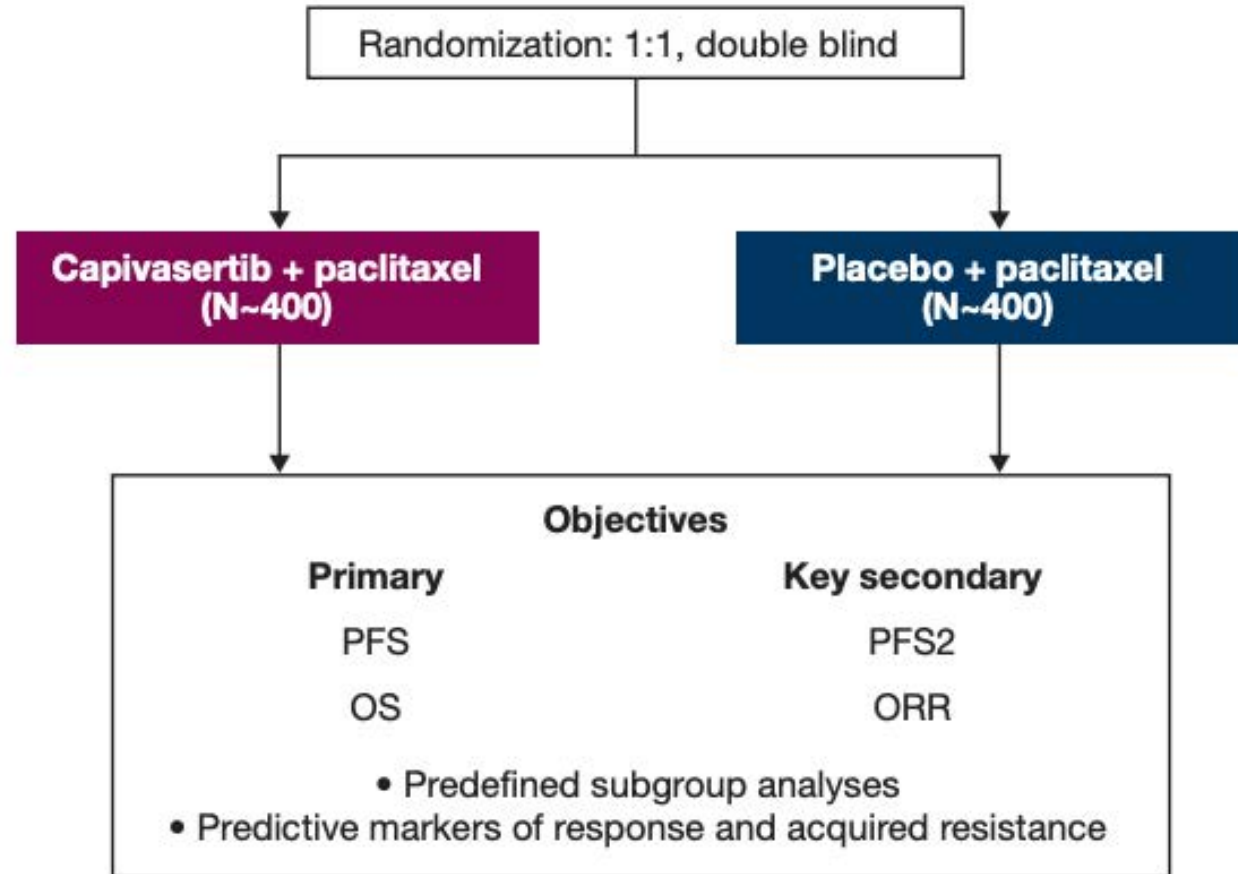
Data for all 3 phases were pooled

- Efficacy** is reported by BC subtype: HR+/HER2- (n=113), TNBC (n=53), and HER2+ (n=14)
- Safety** is reported for patients who received HER3-DXd 4.8 mg/kg (n=48), 6.4 mg/kg (n=98), and all patients (N=182<sup>d</sup>)

TNBC	
ORR	22.6%
mDOR	5.9m
mPFS	5.5m
mOS	14.6m

# CAPItello: Awaiting randomized phase III

Figure 4. Study design and objectives for CAPItello-290



Crossover from placebo to capivasertib is not permitted. ORR, overall response rate; PFS2, time from randomization to second progression or death

Courtesy of Tiffany A Traina, MD, FASCO



Memorial Sloan Kettering  
Cancer Center..

# ***Meet The Professor***

## **Optimizing the Management of Ovarian Cancer**

**Thursday, September 14, 2023  
5:00 PM – 6:00 PM ET**

**Faculty**

**Kathleen N Moore, MD, MS**

**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 for 5 minutes after the meeting ends.***

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