## Oncology Today with Dr Neil Love — HER2-Positive Metastatic Breast Cancer

A CME/MOC-Accredited Virtual Event

Wednesday, May 17, 2023 5:00 PM - 6:00 PM ET

Faculty
Joyce O'Shaughnessy, MD



#### **Faculty**



Joyce O'Shaughnessy, MD
Celebrating Women Chair in Breast Cancer Research
Baylor University Medical Center
Director, Breast Cancer Research Program
Texas Oncology
US Oncology
Dallas, Texas



Moderator
Neil Love, MD
Research To Practice



#### ONCOLOGY TODAY

WITH DR NEIL LOVE

## HER2-Positive Metastatic Breast Cancer

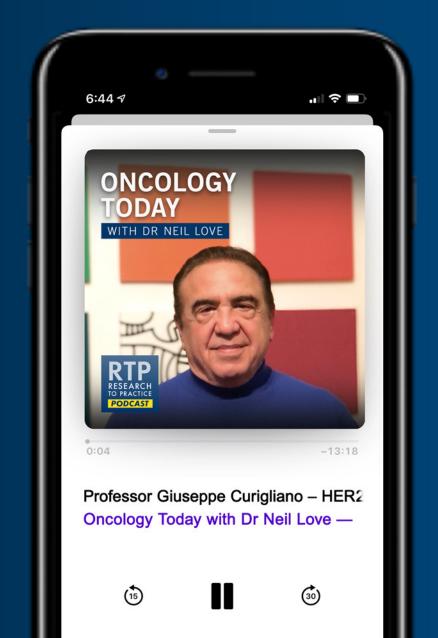


PROFESSOR GIUSEPPE CURIGLIANO
EUROPEAN INSTITUTE OF ONCOLOGY









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#### Dr Love — Disclosures

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#### **Agenda**

#### **INTRODUCTION**

**MODULE 1: HER2-positive metastatic breast cancer** —

Professor Giuseppe Curigliano, MD, PhD

**MODULE 2: ASCO 2023 preview** 



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### **INTRODUCTION**

**MODULE 1: HER2-positive metastatic breast cancer** —

Professor Giuseppe Curigliano, MD, PhD



### **INTRODUCTION**

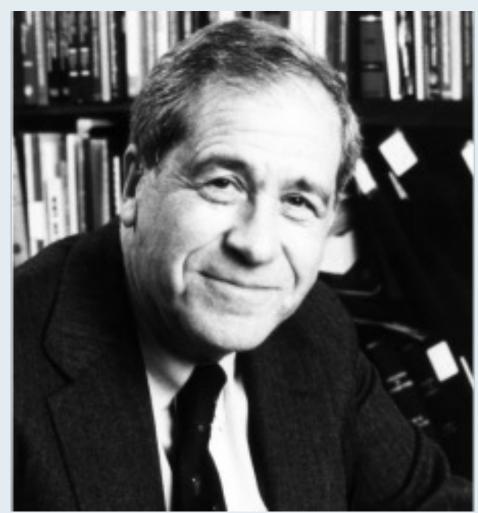
**MODULE 1: HER2-positive metastatic breast cancer** —

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Gianni Bonadonna, MD



Bernard Fisher, MD



### **INTRODUCTION**

MODULE 1: HER2-positive metastatic breast cancer — Professor Giuseppe Curigliano, MD, PhD



### **Anti-HER2 Treatment 2 Years from Now**









### HER2 positive metastatic breast cancer

Giuseppe Curigliano, MD, PhD
University of Milano and Istituto Europeo di Oncologia, IRCCS
Milano, Italia

# Case 1



# Case 1. Clinical presentation, diagnosis, staging

### • 45 yo woman, premenopausal **Patient** • Comorbidities: none • Family history: mother with BC (55 yo) and upper limb STS • Detection of **lump** in the right breast and right axillary **adenopathy** at self-Presentation examination Lesion of 70 mm in the right LIQ/LOQ **Physical** Hard right axillary lymphadenopathy of 25 mm examination Abdominal PE: negative. • Mammography + breast and axillary US + breast MRI: right breast lesion of 75x53 mm, multiple right axillary lymphadenopathy Work-up • PET-CT scan and CT scan: multiple hepatic metastasis (1) **Breast US-** Invasive carcinoma NOS guided biopsy ER: 90%; PgR: 35%; HER2: 0; Ki67: 25% **Genetic testing** Pathogenic *BRCA2* variant c.6405 6409 (p. Asn2135fs)

# 1. Clinical presentation, diagnosis, staging

**Patient** 

- 45 yo woman, premenopausal
- Comorbidities: none
- Family history: mother with BC (55 yo) and upper limb STS

# De novo mBC ER-positive/HER2-negative gBRCA mut

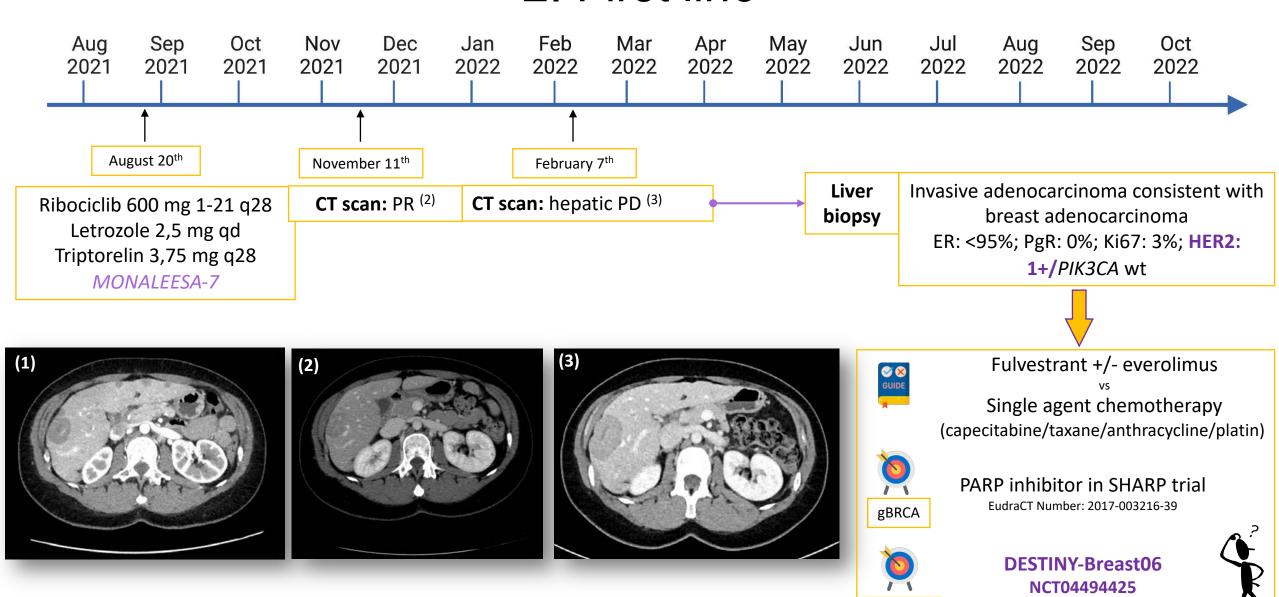
Breast USguided biopsy

Invasive carcinoma NOS
 ER: 90%; PgR: 35%; HER2: 0; Ki67: 25%

**Genetic testing** 

Pathogenic BRCA2 variant c.6405\_6409 (p\_Asn2135fs)

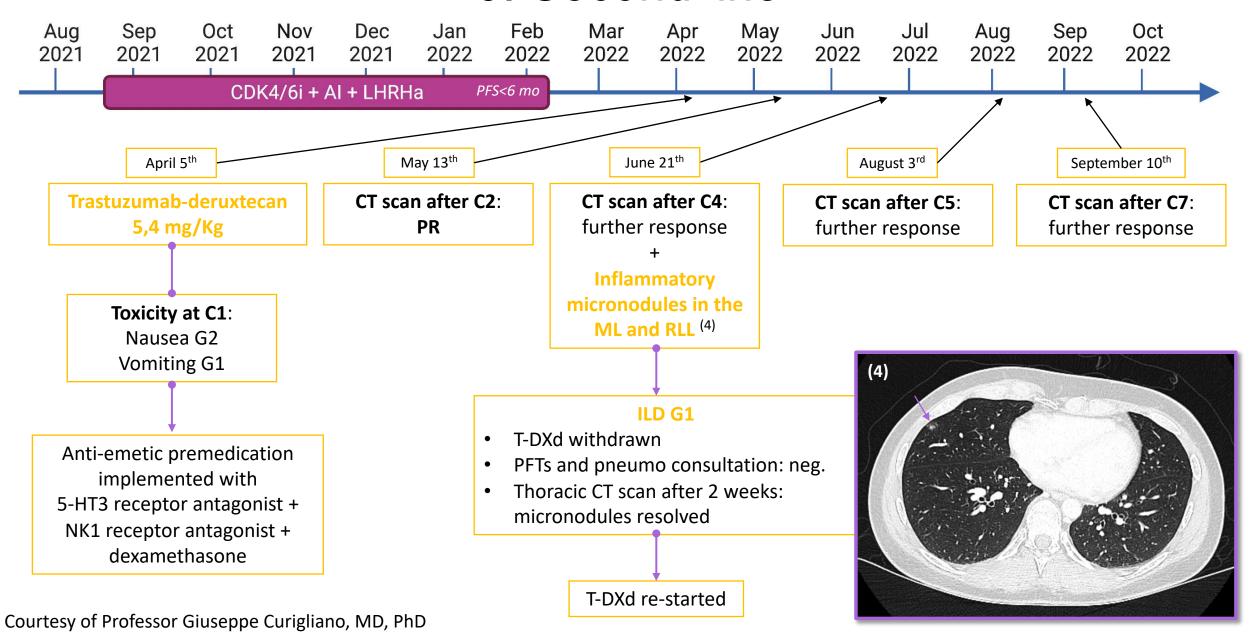
# 2. First line



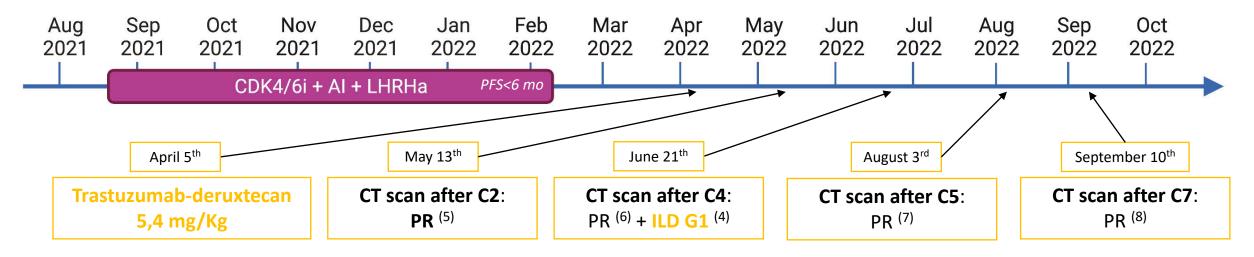
**HER2-low** 

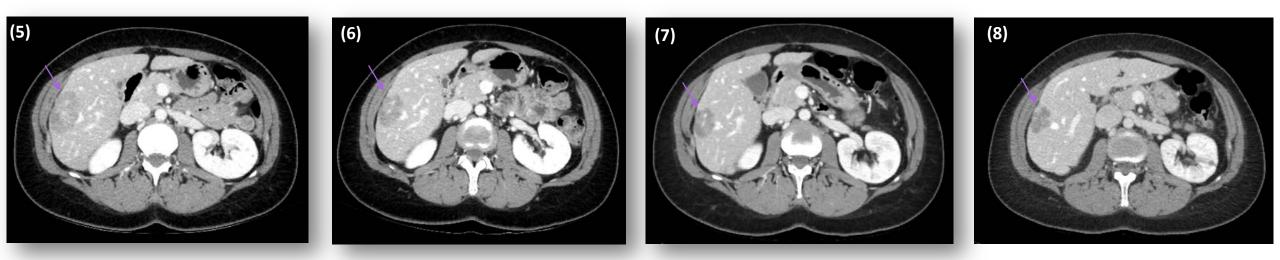
Courtesy of Professor Giuseppe Curigliano, MD, PhD

# 3. Second line



# 3. Second line





### 4. Points of discussion





HER2 status assessment: are we doing it correctly?



What is the target to hit first between HER2 and BRCA?



How to sequence treatments in such evolving drugs' landscape?

ET / chemotherapy / PARPi / T-DXd / sacituzumab govitecan

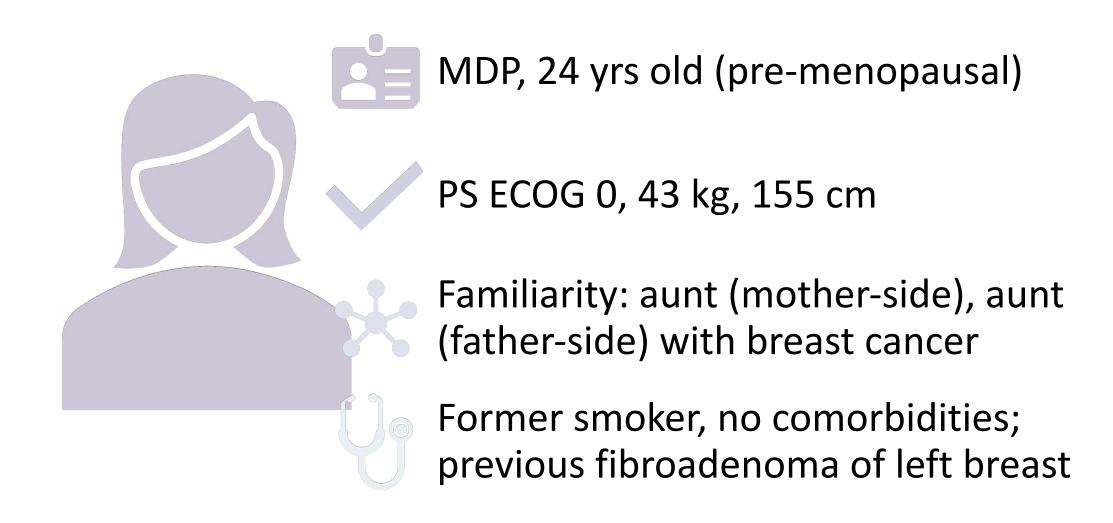


Same drug, different treatment's line: is the toxicity profile the same?

# Case 2



# The patient



# Diagnosis

March 2022 Self examination of left breast: lump detected 21.03.22 Core biopsy of left breast: ductal infiltrating carcinoma, multifocal, ER: 70%; PgR: 40%; Ki67:30%; HER2+: 3+ 29.03.22 breast
MRI:
Left breast: 20 and
15 mm with many
foci;
left axilla: multiple
nodes of 33 mm and
25 mm

Genetic counselling: BRCA1-2 WT, TP53 WT, PALB2 WT







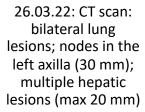








01.03.22 Mammography + ultrasonography: lump of 13 mm



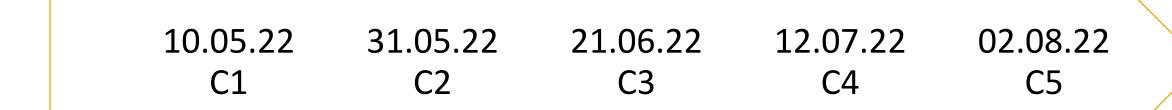
31.03.22 PET FDG: uptake in left breast, left axilla, internal mammary nodes, liver lesions

### First line

- 15.04.22 signed informed consent to **DESTINY-Breast07**
- 22.04.22 Core biopsy left breast: ductal infiltrating carcinoma, ER: 90%; PgR: 0%; HER2: 3+
- 11.05.22 start Triptorelin 3.75 mg q4w
- 10.05.22 start Trastuzumab-Deruxtecan 5.4 mg/kg + Pertuzumab q3w

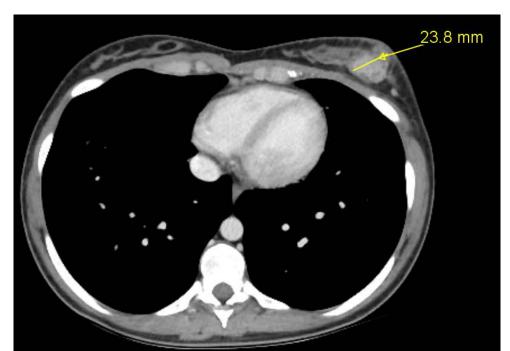
# Evaluation of response

	Left axilla (nodal)	Left breast lump	Liver (S4/S8)	Liver (S4)	Lung lesions (NT)
20.04.22	19	24	12	24	Present
16.06.22	9	13	7	9	Present
27.07.22	7	Not detectable	5	7	Present



20.04.22 27.07.22



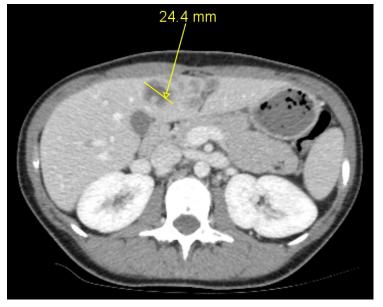


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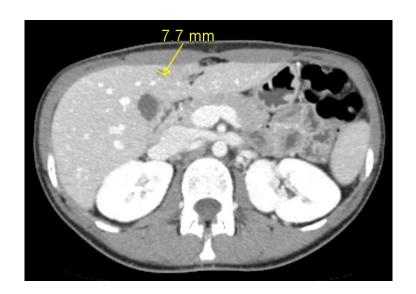




20.04.22 27.07.22









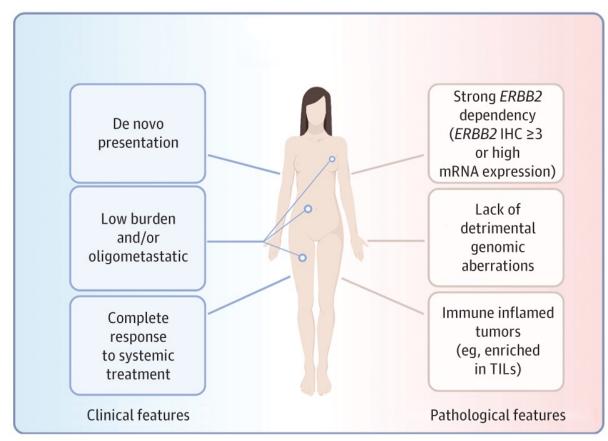
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# Evaluation of response

The patient is currently on treatment, with partial response for RECIST 1.1 criteria

T-DXd + pertuzumab is well tolerated with only G1 AEs (anemia, leukopenia, neutropenia, alopecia)

### Discussion



Tarantino et al, JAMA 2022

- Clinical and pathologic features could identify patients with HER2+ MBC who are more likely to experience a longlasting response to systemic treatment.
- This population may potentially derive benefit from a tailored escalation of frontline treatment with novel anti-HER2 drugs.
- The phase III DESTINY-Breast09 trial is currently testing T-DXd +/- pertuzumab vs standard of care (taxane, trastuzumab and pertuzumab)

### **INTRODUCTION**

MODULE 1: HER2-positive metastatic breast cancer — Professor Giuseppe Curigliano, MD, PhD



An age-specific pooled analysis of trastuzumab deruxtecan (T-DXd) in patients (pts) with HER2-positive (HER2+) metastatic breast cancer (mBC) from DESTINY-Breast01, -02, and -03.

Krop IE et al.

ASCO 2023; Abstract 1006.

Dynamic HER2-low status among patients with triple negative breast cancer (TNBC): The impact of repeat biopsies.

Bar Y et al.

ASCO 2023; Abstract 1005.

A phase 2 study of HER3-DXd in patients (pts) with metastatic breast cancer (MBC).

Hamilton EP et al.

ASCO 2023; Abstract 1004.



Phase III NATALEE trial of ribociclib + endocrine therapy as adjuvant treatment in patients with HR+/HER2- early breast cancer.

Slamon DJ et al.

ASCO 2023; Abstract LBA500.

Efficacy and safety results by age in monarchE: Adjuvant abemaciclib combined with endocrine therapy (ET) in patients with HR+, HER2-, node-positive, high-risk early breast cancer (EBC).

Hamilton EP et al.

ASCO 2023; Abstract 501.



Effects of ovarian ablation or suppression on breast cancer recurrence and survival: Patient-level meta-analysis of 14,993 pre-menopausal women in 25 randomized trials.

Gray RG et al.

ASCO 2023; Abstract 503.

**Discussion: Thinking Differently About Breast Cancer in Young Women**Ines Maria Vaz Duarte Luis, MD, PhD | Gustave Roussy



Dynamics and type of ESR1 mutations under aromatase inhibitor or fulvestrant combined with palbociclib after randomization in the PADA-1 trial.

Bidard FC et al.

ASCO 2023; Abstract 1002.

Detection of circulating tumor DNA following neoadjuvant chemotherapy and surgery to anticipate early relapse in ER positive and HER2 negative breast cancer: Analysis from the PENELOPE-B trial.

Turner NC et al.

ASCO 2023; Abstract 502.

Randomized trial of fixed dose capecitabine compared to standard dose capecitabine in metastatic breast cancer: The X-7/7 trial.

Khan QJ et al.

ASCO 2023; Abstract 1007.



# **APPENDIX**



# DESTINY-Breast03 (Phase 3): Updated efficacy of T-DXd vs T-DM1 for patients with HER2+ metastatic BC

### **Key eligibility**

- Unresectable or metastatic HER2+ BC
- Previous treatment with trastuzumab and a taxane in metastatic or (neo)adjuvant setting with recurrence <6 months' treatment

#### **Stratification factors**

- HR status
- Prior pertuzumab treatment
- History of visceral disease

T-DXd 5.4 mg/kg Q3W (n=261)

T-DM1 3.6 mg/kg Q3W (n=263)

OS interim analysis planned with 153 events<sup>a</sup>

### **Primary endpoint:**

• PFS (BICR)

#### **Key secondary endpoint:**

OS

1:1

N=524

#### **Secondary endpoints:**

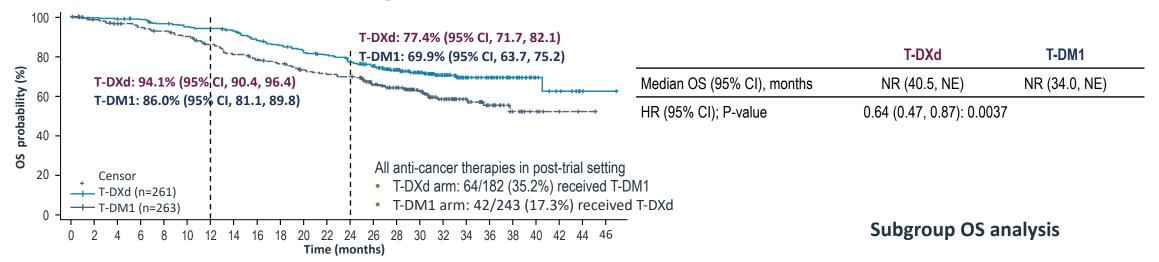
- ORR (BICR and investigator)
- DOR (BICR)
- Safety

### **Patient disposition**

n (%)	T-DXd (n=261)	T-DM1 (n=263)
Randomized but not treated	4 (2)	2 (10
Treatment status Ongoing Discontinued	75 (29) 182 (71)	18 (7) 243 (93)
Primary reason for discontinuation PD AE Clinical progression Death Patient withdrawal Physician discretion Other	94 (37) 54 (21) 5 (2) 4 (2) 17 (7) 2 (1) 6 (2)	178 (68) 21 (8) 14 (5) 4 (2) 12 (5) 8 (3) 6 (2)

<sup>&</sup>lt;sup>a</sup>At data cutoff (July 2022), 169 OS events had been observed and p-value for statistical significance was 0.013.
BICR, blinded independent central review; DOR, duration of response; PD, progressive disease; T-DXd, trastuzumab deruxtecan; T-DM1, ado-trastuzumab emtansine.
Hurvitz SA, et al. SABCS 2022. Abstract GS2-02

# DESTINY-Breast03 (Phase 3): Updated OS (secondary endpoint) with T-DXd vs T-DM1 for patients with HER2+ metastatic BC



### Median study follow-up:

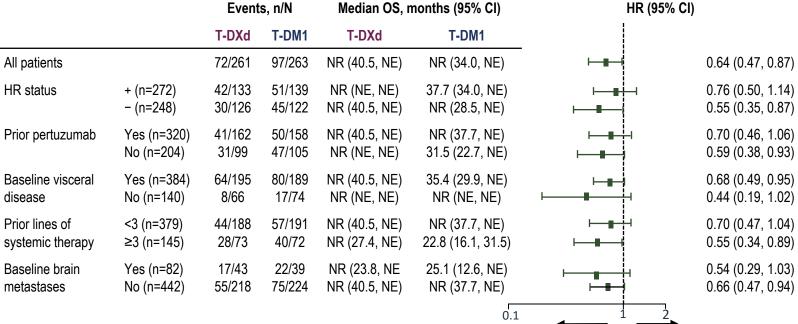
- T-DXd: 28.4 months (range, 0.1–46.9)
- T-DM1: 26.5 months( range, 0.0–45.0)

Prespecified OS interim analysis was planned with 153 events

At data cutoff (July 2022), 169 OS events had occurred

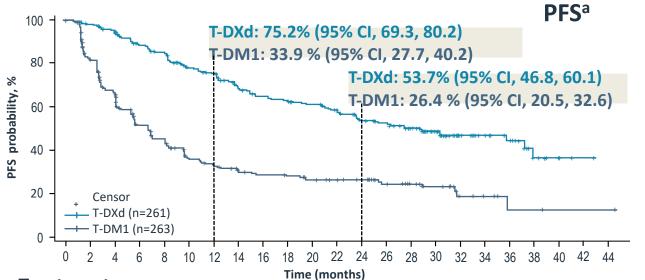
T-DXd, trastuzumab deruxtecan; T-DM1, ado-trastuzumab emtansine.

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T-DXd better T-DM1 better

# DESTINY-Breast03 (Phase 3): Updated PFS<sup>a</sup> (primary endpoint) and response with T-DXd vs T-DM1 for patients with HER2+ metastatic BC



	T-DXd	T-DM1
Median PFS (95% CI), months	28.8 (22.4, 37.9)	6.8 (5.6, 8.2)
HR (95% CI); P-value	0.33 (0.26, 0.43): <0.000001	

• mPFS was x4 longer for T-DXd compared with T-DM1

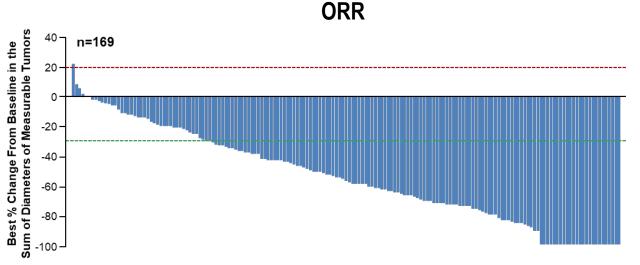
**Treatment response** 

	T-DXd (n=261) <sup>b</sup>	T-DM1 (n=263) <sup>b</sup>
ORR <sup>a</sup> , n (%) [95% CI]; nominal P-value CR, n (%) PR, n (%) SD, n (%) PD, n (%) NE, n (%)	205 (78.5) [73.1, 83.4]; <0.0001 55 (21.1) 150 (57.5) 47 (18.0) 3 (1.1) 6 (2.3)	92 (35.0) [29.2, 41.1] 25 (9.5) 67 (25.5) 110 (41.8) 47 (17.9) 14 (5.3)
CBR, n (%) [95% CI]; nominal P-value	233 (89.3) [84.9, 92.8]; <0.0001	122 (46.4) [40.2, 52.6]
mDORa, months [95% CI]	36.6 (2.4, NE)	23.8 (12.6, 34.7)

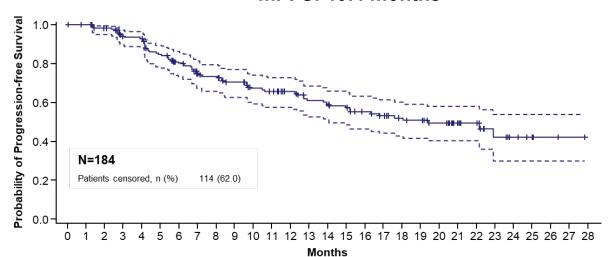
<sup>a</sup>By BICR. <sup>b</sup>Only patients with measurable disease at baseline and ≥1 postbaseline target lesion assessment were included. CBR, clinical benefit rate; CR, complete response; DOR, duration of response; ORR, objective response rate; NE, not evaluable. PD, progressive disease; PR, partial response. T-DXd, trastuzumab deruxtecan; T-DM1, ado-trastuzumab emtansine; SD, stable disease. Hurvitz SA, et al. SABCS 2022. Abstract GS2-02

# Trastuzumab-Deruxtecan: DESTINY-Breast01

Phase II study

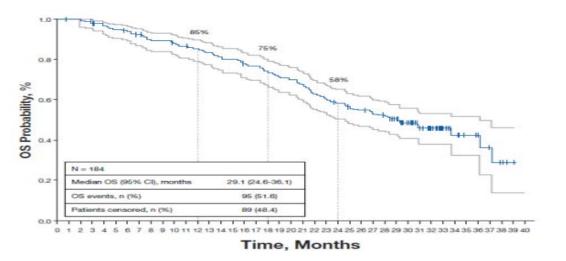


Intent-to-treat analysis	August 2019 DCO T-DXd 5.4 mg/kg (N=184)	June 2020 DCO T-DXd 5.4 mg/kg (N=184)	March 2021 DCO T-DXd 5.4 mg/kg (N=184)
Median duration of follow up (range), months	11.1 (0.7-19.9)	20.5 (0.7-31.4)	26.5 (0.7-39.1)
Patients remaining on treatment, n (%)	79 (42.9)	37 (20.1)	28 (15.2)
Confirmed ORR <sup>a</sup> by ICR, n (%) 95% CI	112 (60.9) 53.4-68.0	113 <sup>b</sup> (61.4) 54.0-68.5	114 <b>(62.0)</b> 54.5-69.0
CR	11 (6.0)	12 (6.5)	13 ( <b>7.1</b> )
PR	101 (54.9)	101 (54.9)	101 (54.9)
SD	67 (36.4)	66 (35.9)	65 (35.3)
PD	3 (1.6)	3 (1.6)	3 (1.6)
Not evaluable	2 (1.1)	2 (1.1)	2 (1.1)
Median DOR (95% CI), months	14.8 (13.8-16.9	20.8b (15.0-NE)	18.2 (15.0-NE)
Median time to response (95% CI), months	1.6 (1.4-2.7)	1.6 (1.4-2.7)	1.6 (1.4-2.7)
Median PFS (95% CI), months	16.4 (12.7-NE)	19.4 (14.1-NE)	<b>19.4</b> (14.1-25.0)
Median OS (95% CI), months	NE (NE-NE)	24.6 (23.1-NE)	<b>29.1</b> (24.6-36.1)



mOS: 29.1 months

mPFS: 19.4 months



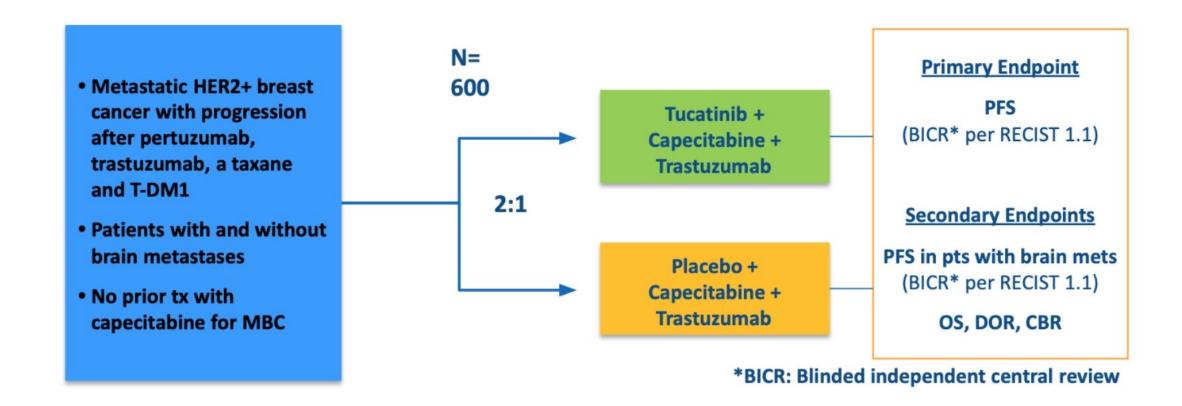
Modi S, NEJM 2019; Modi S, et al. SABCS 2020; Saura C, et al. ESMO 2021

### Adverse Events of Special Interest: Interstitial Lung Disease

Interstitial Lung Disease, n (%)ª	August 2019 DCO T-DXd 5.4 mg/kg (N=184)	June 2020 DCO T-DXd 5.4 mg/kg (N=184)	March 2021 DCO T-DXd 5.4 mg/kg (N=184)
Grade 1	5 (2.7)	6 (3.3)	7 (3.8)
Grade 2	15 (8.2)	16 (8.7)	16 (8.7)
Grade 3	1 (0.5)	1 (0.5)	1 (0.5)
Grade 4	0	0	0
Grade 5	4 (2.2)	5 (2.7)	5 (2.7)
Any grade/total	25 (13.6)	28 (15.2)	29 (15.8)

Median time from the first infusion of T-DXd to onset of ILD was 27.6 weeks (range, 6-76 weeks)

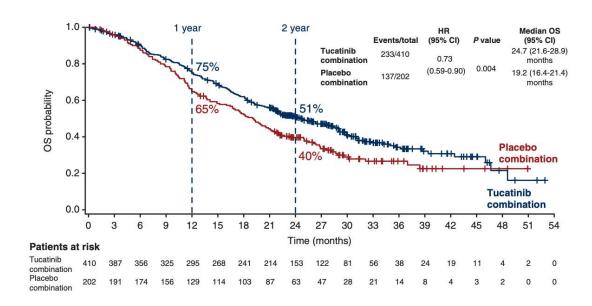
## HER2CLIMB trial: tucatinib, trastuzumab, capecitabine

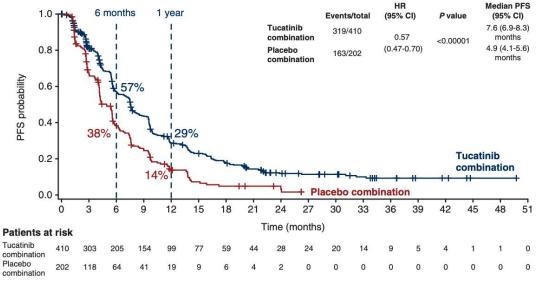


# HER2CLIMB trial: tucatinib, trastuzumab, capecitabine

Improved PFS at 1 year: 29% vs 14% (HR, 0.54; P<0.001)

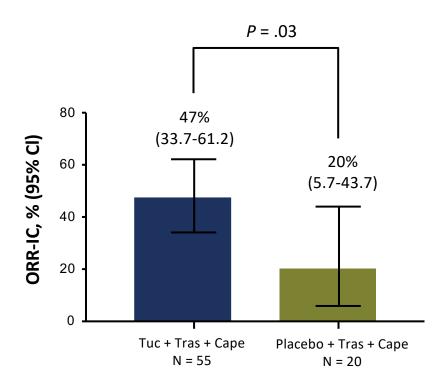
Improved OS at 2 years: 51% vs 40% (HR, 0.73, p=0.004)

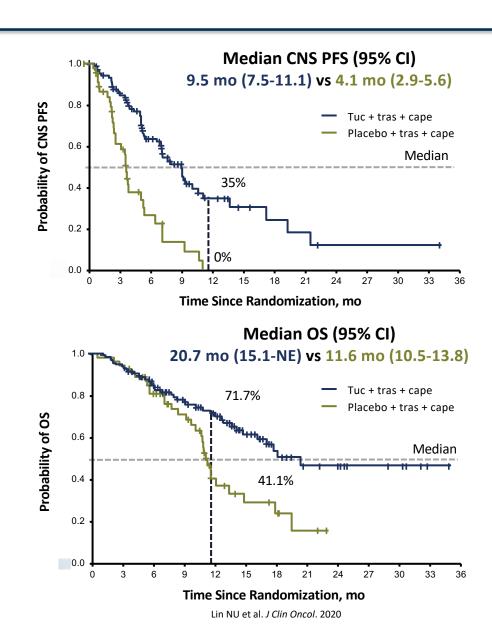




### **HER2CLIMB** trial: relevant intracranial activity

### **Confirmed ORR (RECIST 1.1)**



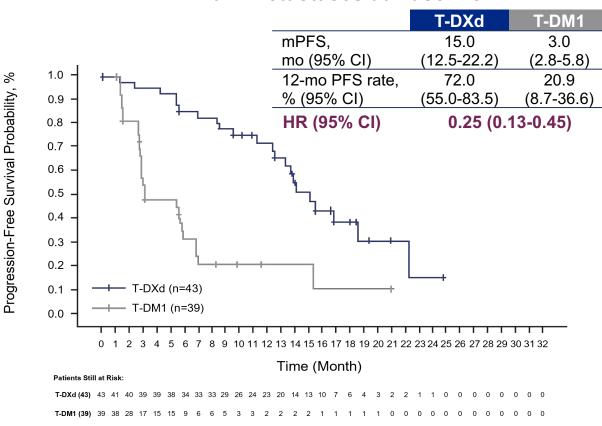




### DESTINY-Breast03: PFS KM Curves for Patients With and Without BM

Progression-Free Survival Probability, %

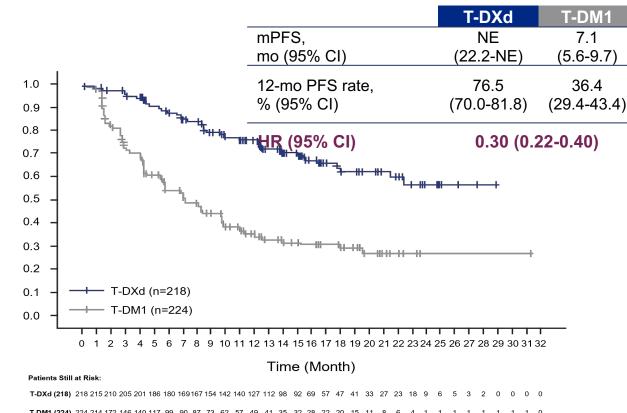
#### **Brain Metastases at Baseline**



#### In patients with BM at baseline, PD was observed:

- In 48.8% (21/43) treated with T-DXd versus 69.2% (27/39) with T-DM1
- In the brain in 42.9% (9/21) treated with T-DXd versus 40.7% (11/27) with T-DM1

#### No Brain Metastases at Baseline

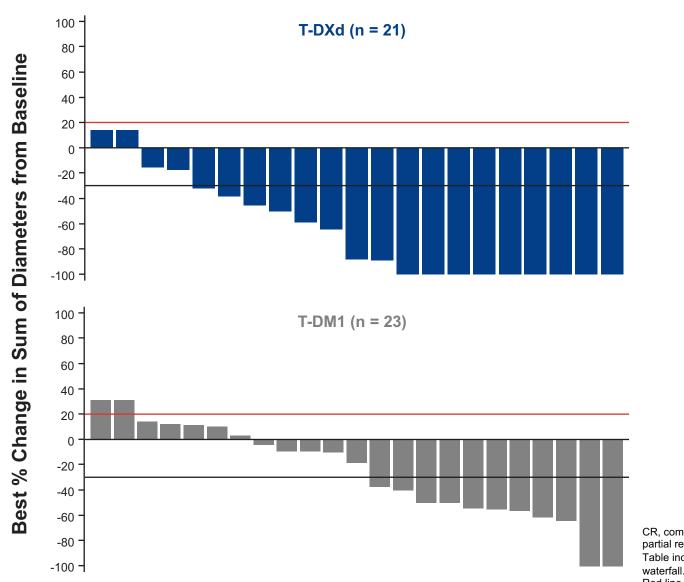


#### In patients without BM at baseline, PD was observed:

- In 28.9% (63/218) treated with T-DXd versus 57.1% (128/224) with T-DM1
- In the brain in 6.3% (4/63) treated with T-DXd versus 0.8% (1/128) with T-DM1



### Intracranial Response per BICR using RECIST 1.1



T-DXd (n = 36)	T-DM1 (n = 36)

### Best Overall Response, n (%)a

CR	10 (27.8)	1 (2.8)
PR	13 (36.1)	11 (30.6)
Non-CR/non-PD	6 (16.7)	7 (19.4)
SD	4 (11.1)	7 (19.4)
PD	1 (2.8)	8 (22.2)
Not evaluable	0	1 (2.8)
Missing	2 (5.6)	1 (2.8)

CR, complete response; DCR, disease control rate; mDOR, median duration of response; PD, progressive disease; PR, partial response; SD, stable disease; T-DM1, trastuzumab emtansine; T-DXd, trastuzumab deruxtecan.

Table includes target and non-target lesions. Only patients with target lesion assessments are eligible for inclusion in

Red line at 20% indicates progressive disease; black line at -30% indicates partial response.

Denominator for percentages is the number of subjects in the full analysis set with brain metastases tumor assessment

HER2CLIMB-05 (NCT05132582) is a phase 3, randomized, double-blind study evaluating tucatinib plus T+P as maintenance therapy for HER2+ MBC. Approximately 650 pts will be enrolled.

DESTINY-Breast07 will investigate the safety, tolerability, and anti-tumour activity of trastuzumab deruxtecan (T-DXd) in combination with other anti-cancer agents in patients with HER2-positive Metastatic Breast Cancer. The study will assign patients to different treatment combinations.

Phase III Study of Trastuzumab Deruxtecan (T-DXd) With or Without Pertuzumab Versus Taxane, Trastuzumab and Pertuzumab in HER2-positive, First-line Metastatic Breast Cancer (DESTINY-Breast09)

DESTINY-Breast12 is a Phase IIIb/IV study seeking to better understand the treatment benefit of trastuzumab deruxtecan (T-DXd) in adult patients with or without brain metastases who have unresectable/advanced or metastatic HER2-positive breast cancer.

# Meet The Professor Optimizing the Management of Colorectal Cancer

Thursday, May 18, 2023 5:00 PM – 6:00 PM ET

Faculty
Michael J Overman, 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.

