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ESMO 2025 Highlights

DAIICHI SANKYO CO., LTD.

October 21st, 2025

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ESMO 2025 Highlights: Speakers





Ken Takeshita Head of Global R&D



Abderrahmane Laadem Head of Late-Stage Clinical Development



Agenda

- Welcome message
- Highlights from ESMO 2025
- Q&A





Agenda

- **1** Welcome message
- 2 Highlights from ESMO 2025
- 3 Q&A



ESMO 2025 Major Data Disclosure



Over 30+ abstract have been accepted across multiple assets

ENHERTU® DATROWAY® TNBC HER2+ BC **TROPION-Breast02 Primary Analysis DESTINY-Breast05 Interim Analysis BEGONIA Final Analysis** DESTINY-Breast09 Subgroup **DESTINY-Breast11 Primary Analysis NSCLC** ICARUS-Lung01 Carbon footprint **GASTRIC** DESTINY-Gastric04 additional efficacy OTHER/Multiple Tumor Types DESTINY-Gastric06 subgroup analysis TROPION-PanTumor03 OTHER/Multiple Tumor Types **ADCs DESTINY-CRC02** Final Analysis I-DXd DESTINY-Endometrial01 TiP SCLC DESTINY-PanTumor02 Final Analysis IDeate-Lung01 Intracranial activity Primary DESTINY-PanTumor02 Oncogenic Analysis biomarkers Final Analysis MK-6070-001 (Gocatamig) updated results MK-6070-002 (Gocatamig +/- I-DXd) TiP R-DXd **NSCLC Ovarian Cancer** KEYMAKER-U01 TiP **REJOICE-Ovarian01 Ph2 part Primary Analysis** HER3-DXd **GASTRIC TNBC REJOICE-GI01 TiP** HERTHENA-Breast03 TiP

DS-3939

<u>Multiple Tumor Types</u>

DS3939-077 FIH study Initial results

Cross-Asset

NSCLC

Next Wave

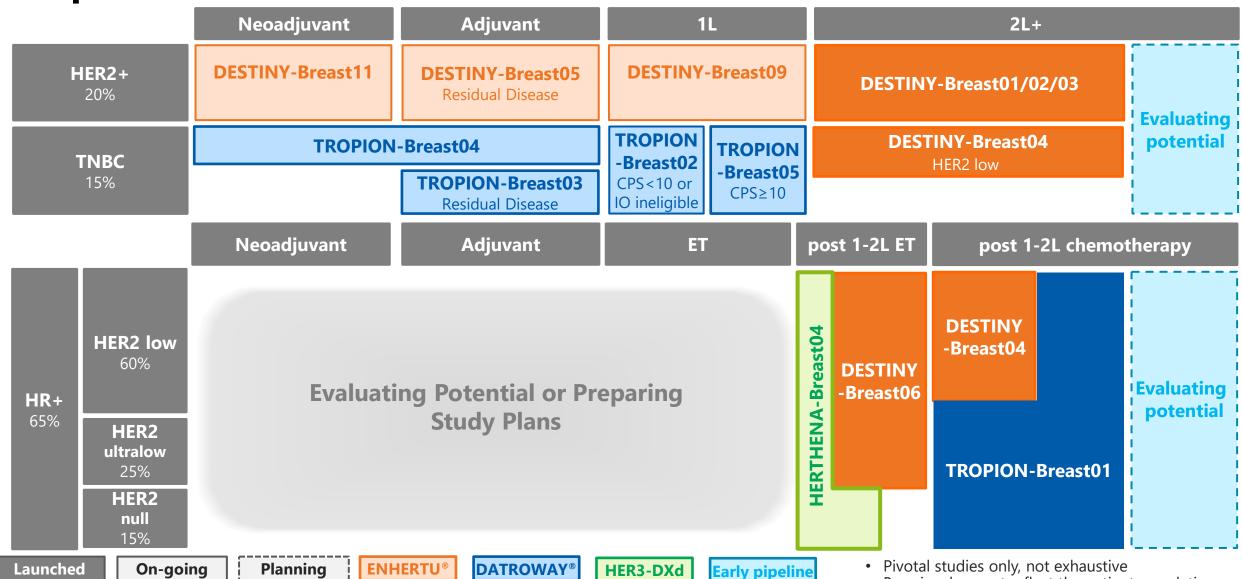
 Valemetostat combination with DATROWAY® in NSCLC - Initial Safety Results

Other / Multiple Tumor Types

Valemetostat combination with Ipilimumab in GU tumors

Establish and Expand DXd ADCs to Address the Broader **Spectrum of Breast Cancer**



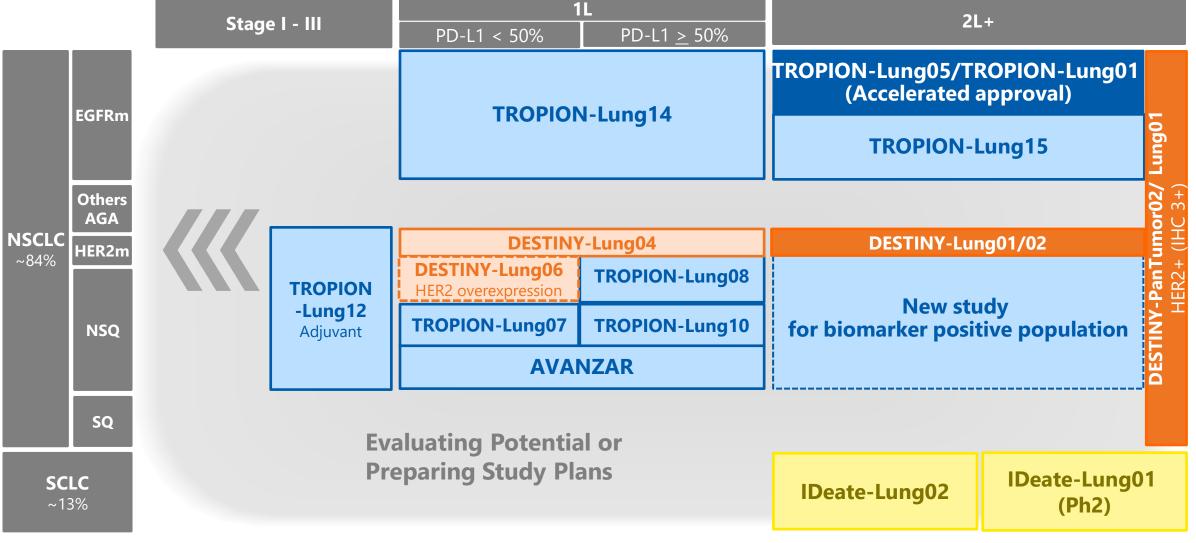


- Pivotal studies only, not exhaustive
- Box size does not reflect the patient population
- Box indicates current potential target segment

Establish and Expand DXd ADCs to Address the Broader



Spectrum of Lung Cancer



I-DXd

DATROWAY®

- Pivotal studies and major Ph2 only, not exhaustive
- Box size does not reflect the patient population
- Box indicates current potential target segment

ENHERTU®

Planning

On-going

Launched

Expand DXd ADCs within Women's Cancers to Address Broad Spectrum of Gynecological Cancers







^{*}T-DXd tumor agnostic approval (IHC 3+) in 2L+ setting. NCCN Ovarian Cancer Guidelines (Jan 2025) update Category 2B recommendation of T-DXd in HER2+ (IHC 3+) PSOC. NCCN Endometrial Cancer Guidelines (2025) includes a Category 2B recommendation for T-DXd in HER2+ (IHC 2+/3+) endometrial cancer in the 2L+ setting.

[•] Box size does not reflect the patient population

[•] Box indicates current potential target segment



Agenda

- 1 Welcome message
- **2** Highlights from ESMO 2025
 - **✓ DESTINY-Breast11**
 - **✓ DESTINY-Breast05**
 - **✓ TROPION-Breast02**
 - **✓ BEGONIA**
 - √ REJOICE-Ovarian01
 - ✓ DS-3939 Ph1
- 3 Q&A





DESTINY-Breast11: neoadjuvant trastuzumab deruxtecan alone or followed by paclitaxel + trastuzumab + pertuzumab vs ddAC-THP for high-risk HER2+ early breast cancer

Nadia Harbeck

Breast Center, Department of OB&GYN and CCC Munich, LMU University Hospital, Munich, Germany

Co-authors: Shanu Modi, Lajos Pusztai, Shinji Ohno, Jiong Wu, Sung-Bae Kim, Alessandra Fabi, Xuchen Cao, Rona Joseph, Rubi Li, Bogdan Żurawski, Santiago Escrivá-de-Romaní, Shin-Cheh Chen, Catherine Kelly, Giuseppe Curigliano, William Fraser Symmans, Shoubhik Mondal, Shahana Safdar, Pia Herbolsheimer, Jean-François Boileau

On behalf of the DESTINY-Breast11 investigators

ESMO 2025 2910 (Oral)



DESTINY-Breast11 study designA randomized, global, multicenter, open-label, Phase 3 study (NCT05113251)

Patient population • Previously untreated HER2+ eBC • HR-positive or HR-negative • High-risk defined as: n=321 $1-DXd^* \rightarrow THP^{\dagger}$ 1+4 cycles

n=286

Recommended post-neoadjuvant treatment per study protocol

pCR: radiotherapy and concomitant trastuzumab ± pertuzumab for up to 1 year

No pCR: radiotherapy and T-DM1 for up to 14 cycles

HR-positive: endocrine

therapy

Surgery

Data cutoff: March 12, 2025

Primary endpoint

 pCR (ypT0/is ypN0) by blinded central review

Secondary endpoints

- pCR (ypT0 ypN0) by blinded central review
- EFS
- Safety
- Pharmacokinetics and immunogenicity
- Invasive disease-free survival
- Overall survival
- Health-related quality of life

Additional outcome measures

· Residual cancer burden (RCB)

Stratification factors

Inflammatory BC

- ≥cT3 and N0-3 or

cT0-4 and N1-3

- HR status: ER and/or PR-positive or negative
- HER2 status: (IHC 3+ or ISH+ in the absence of IHC 3+ status)

The T-DXd alone arm closed on March 13 <u>2024</u>, following Independent Data Monitoring Committee recommendation

T-DXd*

8 cycles

The reasons were multifactorial, including a lower <u>pCR</u> rate, low likelihood that T-DXd alone would be superior to ddAC-THP, and the timing of surgery

High-resolution computed tomography chest scans were performed every 6 weeks during treatment; if ILD/pneumonitis was suspected while receiving T-DXd, treatment was interrupted and a full investigation completed. Echocardiograms or multigated acquisition scans were performed during screening (<28 days prior to randomization), during treatment (<3 days before Cycle 5), and at end of treatment to assess left ventricular ejection fraction. *5.4 mg/kg Q3W; *paclitaxel (80 mg/m² QW) + trastuzumab (840 mg loading dose followed by 420 mg Q3W); *spacial (60 mg/m² Q2W) + cyclophosphamide (600 mg/m² Q3W); *spacial (80 mg/m² Q3W) + pertuzumab (840 mg loading dose followed by 420 mg Q3W); *spacial (80 mg/m² Q3W); *spacial (80 mg/m² Q3W) + pertuzumab (840 mg loading dose followed by 420 mg Q3W); *spacial (80 mg/m² Q3W); *s



Patient demographics and key baseline characteristics

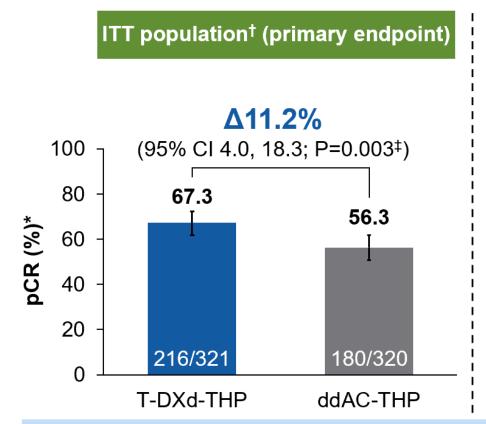
		T-DXd-THP (n=321)	ddAC-THP (n=320)	T-DXd (n=286)
Median (range) age, years		50 (25–82)	50 (23–79)	50 (23–79)
Female, n (%)		321 (100)	320 (100)	286 (100)
	Asia	152 (47.4)	152 (47.5)	124 (43.4)
Geographical region, n (%)	Western Europe	69 (21.5)	77 (24.1)	66 (23.1)
Geographical region, if (76)	North America	43 (13.4)	41 (12.8)	52 (18.2)
	Rest of world*	57 (17.8)	50 (15.6)	44 (15.4)
	Asian	160 (49.8)	157 (49.1)	127 (44.4)
Race, n (%) [†]	White	140 (43.6)	137 (42.8)	139 (48.6)
Race, 11 (%)	Black or African American	5 (1.6)	7 (2.2)	7 (2.4)
	Other	12 (3.7)	10 (3.1)	8 (2.8)
Eastern Cooperative Oncology Group	0	278 (86.6)	280 (87.5)	252 (88.1)
performance status score, n (%)	1	43 (13.4)	40 (12.5)	34 (11.9)
HER2 status in (0/)‡	IHC 3+	280 (87.2)	283 (88.4)	254 (88.8)
HER2 status, n (%) [‡]	Other	40 (12.5)	36 (11.3)	32 (11.2)
HR status, n (%)§	Positive [¶]	236 (73.5)	235 (73.4)	205 (71.7)
Clinical tumor stage n (9/)	cT0-2	176 (54.8)	188 (58.8)	157 (54.9)
Clinical tumor stage, n (%)	cT3–4	145 (45.2)	132 (41.3)	129 (45.1)
Nedal status in (9/1)	N0	26 (8.1)	35 (10.9)	20 (7.0)
Nodal status, n (%)∥	N+	287 (89.4)	281 (87.8)	254 (88.8)

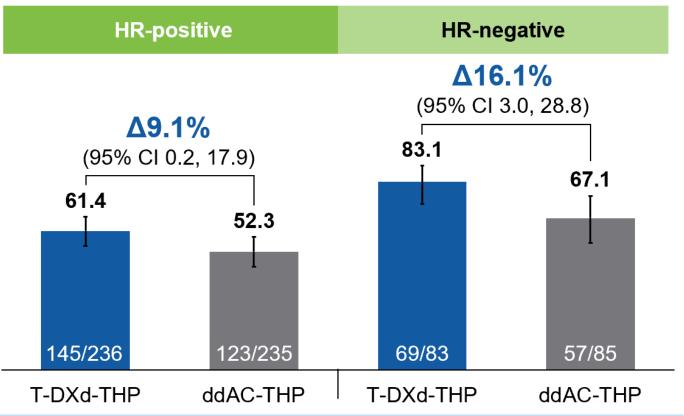
PR-positive per electronic case report form data; unknown in eight patients (2.5%), four patients (1.3%), and 12 patients (4.2%) in the T-DXd-THP, ddAC-THP, and T-DXd alone arms, respectively

^{*}Brazil, Bulgaria, Peru, Poland, Russia, and Saudi Arabia; *not reported for four patients (1.2%), nine patients (2.8%) and five patients (1.7%) in the T-DXd-THP, and T-DXd alone arms, respectively; *centrally confirmed. Not categorized for one patient (0.3%) in the T-DXd-THP arm and missing for one patient (0.3%) in the ddAC-THP arm; *sthe proportion of patients with HR-negative disease was capped at 30% to reflect natural prevalence. Missing for two patients (0.6%) and one patient (0.3%) in the T-DXd-THP and T-DXd alone arms, respectively; *fER and/or



pCR (ypT0/is ypN0): primary endpoint



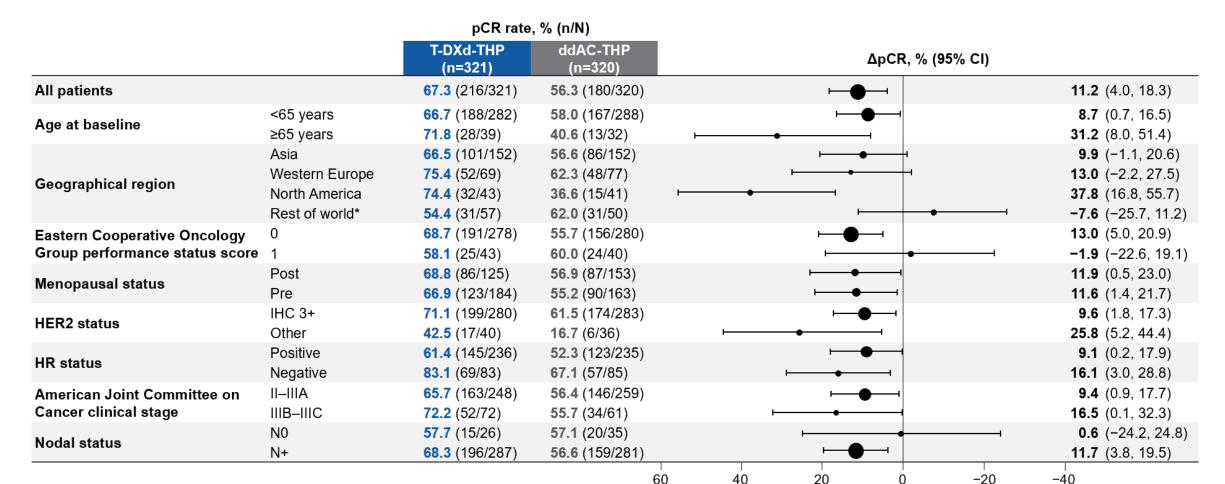


Neoadjuvant T-DXd-THP demonstrated a statistically significant and clinically meaningful improvement in pCR vs ddAC-THP Improvement was observed in both the HR-positive and HR-negative subgroups

For the ITT population, treatment effects were estimated by the difference in pCR with 95% Cls and P-values based on the stratified Miettinen and Nurminen's method, with strata weighting by sample size (ie Mantel-Haenszel weights)
Patients with no valid records regarding pCR status for any reason were considered to be non-responders (including but not limited to withdrawal from the study, progression of disease or death before surgery, lack of surgical specimen, or defined as not evaluable by the central pathologist). Subgroup analyses were unstratified. *By blinded central review; †pCR responders were defined as patients who only received randomized study treatment (at least one dose) and had pCR; †two-sided P-value crossed the 0.03 prespecified boundary. ITT, intent-to-treat



pCR (ypT0/is ypN0) by subgroups



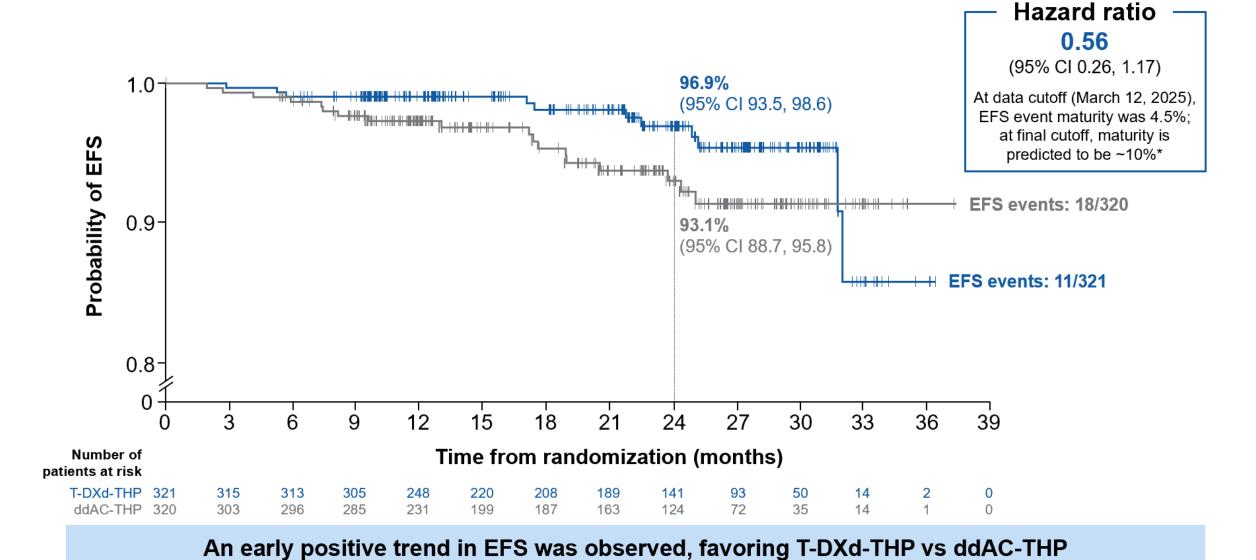
Improvement in pCR for T-DXd-THP vs ddAC-THP was observed across most pre-specified subgroups

Favors T-DXd-THP

Favors ddAC-THP



EFS





Overall safety summary

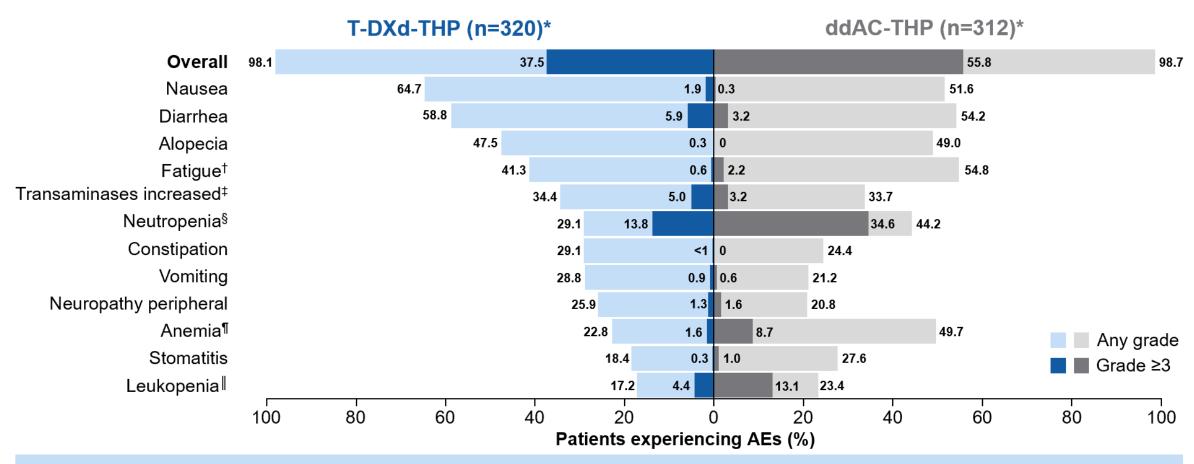
n (%)	T-DXd-THP (n=320)*	ddAC-THP (n=312)*
Any AE	314 (98.1)	308 (98.7)
Grade ≥3	120 (37.5)	174 (55.8)
Any serious AE	34 (10.6)	63 (20.2)
AE leading to any dose reduction	58 (18.1)	60 (19.2)
AE leading to any drug interruption	121 (37.8)	170 (54.5)
AE leading to any treatment discontinuation	45 (14.1)	31 (9.9)
Any AE with outcome of death [†]	2 (0.6)	2 (0.6)
AE of special interest		
Drug-related adjudicated ILD/pneumonitis	14 (4.4)	16 (5.1)
Grade ≥3	2 (0.6)	6 (1.9)
Grade 5	1 (0.3)	1 (0.3)
Left ventricular dysfunction	4 (1.3)	19 (6.1)
Grade ≥3	1 (0.3)	6 (1.9)
Grade 5	0	0
AE leading to surgical delay [‡]	11 (3.4)	8 (2.6)

The overall safety profile of T-DXd-THP was favorable vs ddAC-THP, with reduced rates of Grade ≥3 AEs, serious AEs, treatment interruptions, and left ventricular dysfunction ILD incidence was low and similar in both arms

High-resolution computed tomography chest scans were performed every 6 weeks during treatment; if ILD/pneumonitis was suspected while receiving T-DXd, treatment was interrupted and a full investigation completed. Echocardiograms or multigated acquisition scans were performed during screening (<28 days prior to randomization), during treatment (<3 days before Cycle 5), and at end of treatment to assess left ventricular ejection fraction. Median total treatment duration of whole regimen was 24.1 months (T-DXd-THP), and 21.0 months (ddAC-THP). *Safety analyses included all patients who received at least one dose of any study treatment; †T-DXd-THP arm: death of unknown cause (n=1), drug-related pneumonitis adjudicated by the ILD Adjudication Committee (n=1); †defined as surgery not occurring within 3–6 weeks after the last cycle of neoadjuvant treatment



Treatment-emergent AEs in at least 20% of patients in either arm



T-DXd-THP had fewer any-grade and Grade ≥3 hematological and fatigue events than ddAC-THP Aside from nausea, gastrointestinal toxicity was comparable between arms

^{*}Safety analyses included all patients who received at least one dose of any study treatment; †grouped term: fatigue, asthenia, malaise, and lethargy; †grouped term: transaminases increased, aspartate transaminase increased, alanine transaminase increased, gamma-glutamyl transferase increased, liver function test abnormal, hypertransaminasemia, hepatic function abnormal, and liver function test increased; §grouped term: neutrophil count decreased and neutropenia; †grouped term: hemoglobin decreased, red blood cell count decreased, and anemia and hematocrit decreased; †grouped term: white blood cell count decreased and leukopenia. TEAE, treatment-emergent adverse event



Conclusions

- In DESTINY-Breast11, T-DXd-THP showed the highest reported pCR rate in HER2+ eBC for a registrational study in the neoadjuvant setting, despite a high prevalence of HR-positive disease and a high-risk population^{1-3*}
- T-DXd-THP showed a statistically significant and clinically meaningful improvement in pCR rate vs ddAC-THP: Δ11.2% (95% Cl 4.0, 18.3)
 - pCR benefit for T-DXd-THP vs ddAC-THP was independent of HR status and disease stage
- An early positive trend in EFS was observed, favoring T-DXd-THP vs ddAC-THP
 - Hazard ratio: 0.56 (95% CI 0.26, 1.17)
- The safety profile of T-DXd-THP was favorable vs ddAC-THP
 - Lower rates of Grade ≥3 AEs, serious AEs, and AEs leading to dose interruptions
 - Lower rates of hematological AEs, left-ventricular dysfunction, and fatigue
 - ILD rates were low and similar between arms

pCR rate

67.3%

More than two thirds of patients in the T-DXd-THP arm had a pCR

HR-positive: **61.4**% HR-negative: **83.1**%

DESTINY-Breast11 results support T-DXd-THP as a more effective and less toxic neoadjuvant treatment compared with ddAC-THP, and it may become a preferred regimen for patients with high-risk HER2+ eBC



Trastuzumab deruxtecan (T-DXd) vs trastuzumab emtansine (T-DM1) in patients with high-risk human epidermal growth factor receptor 2-positive (HER2+) primary breast cancer with residual invasive disease after neoadjuvant therapy: Interim analysis of DESTINY-Breast05

Charles E Geyer Jr,^{a,b} Yeon Hee Park, Zhiming Shao, Chiun-Sheng Huang, Carlos Barrios, Jame Abraham, Aleix Prat, Naoki Niikura, Michael Untch,

Seock-Ah Im, Wei Li, Huiping Li, Yongsheng Wang, Herui Yao, Sung-Bae Kim, Elton Mathias, Yuta Sato, Wenjing Lu, Hanan Abdel-Monem, Sibylle Loibl

On behalf of the DESTINY-Breast05 investigators

^aNSABP Foundation, Pittsburgh, PA, USA ^bUniversity of Pittsburgh Hillman Cancer Center, Pittsburgh, PA, USA

ESMO 2025 LBA1 (Oral)



DESTINY-Breast05 study design

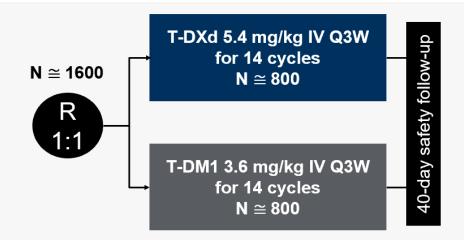
A global, multicenter, randomized, open-label phase 3 trial (NCT04622319)

Key Eligibility Criteria

- Residual invasive disease in the breast and/or axillary lymph nodes after neoadjuvant chemotherapy with HER2-directed therapy (NAT)^a
- High-risk defined as presentation prior to NAT with:
 - Inoperable eBC (cT4,N0-3,M0 or cT1-3,N2-3,M0)
 OR
 - Operable <u>eBC</u> (cT1-3,N0-1,M0) with axillary node–positive disease (ypN1-3) after NAT
- Centrally confirmed HER2+ (IHC 3+ or ISH+) eBC
- ECOG PS 0 or 1

Stratification factors

- Extent of disease at presentation (inoperable, operable)
- HER2-targeted NAT (single, dual)
- · Hormone receptor status (positive, negative)
- Post-NAT pathologic nodal status (positive, negative)



Primary endpoint

IDFS

Key secondary endpoint

DFS

Other secondary endpoints

- OS
- BMFI
- DRFI
- Safety

- Concomitant adjuvant ET was allowed per local practices
- If administered, RT could be initiated <u>concurrent</u> with study therapy or completed prior to initiation of study therapy (<u>sequential</u>) per investigator
- ILD monitoring program for patients treated with RT
 - All patients had baseline non-contrast, low dose (LD) chest CT during screening
 - All RT patients (concurrent and sequential) had LD chest CT 6 weeks after start of study therapy, then every 12 weeks while on therapy, and at 40-day follow-up
 - Sequential RT patients had additional LD chest CT after completion of RT prior to start of study therapy

BMFI, brain metastasis–free interval; CT, computed tomography; eBC, early breast cancer; DCO, data cutoff; DFS, disease-free survival; DRFI, distant recurrence–free interval; ECOG PS, Eastern Cooperative Oncology Group performance status; ET, endocrine therapy; HER2, human epidermal growth factor receptor 2; IDFS, invasive disease–free survival; ILD, interstitial lung disease; ISH, in situ hybridization; IV, intravenous; NAT, neoadjuvant therapy; OS, overall survival; Q3W, every 3 weeks; R, randomization; RT, radiotherapy; T-DM1, trastuzumab emtansine; T-DXd, trastuzumab deruxtecan.

aNAT is defined as ≥16 weeks' NAT with ≥9 weeks trastuzumab ± pertuzumab and ≥9 weeks taxane-based chemotherapy.

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Baseline demographics and clinical characteristics

	T-DXd	T-DM1
	n = 818	n = 817
Age, median (range), years	50.3 (24-78)	50.6 (21-83)
<65	735 (89.9)	736 (90.1)
≥65	83 (10.1)	81 (9.9)
Female sex, n (%)	814 (99.5)	814 (99.6)
Race		
White	301 (36.8)	333 (40.8)
Black or African American	22 (2.7)	13 (1.6)
Asian	399 (48.8)	386 (47.2)
Other	96 (11.7)	85 (10.4)
Region, n (%)		
Asia	392 (47.9)	380 (46.5)
Europe	222 (27.1)	223 (27.3)
North America + Australia	57 (7.0)	72 (8.8)
Rest of worlda	147 (18.0)	142 (17.4)
ECOG PS score, n (%)		
0	656 (80.2)	652 (79.8)
1	162 (19.8)	165 (20.2)
HER2 expression,b n (%)		
IHC 3+	676 (82.6)	670 (82.0)
IHC 2+ and ISH+	129 (15.8)	133 (16.3)
IHC 2+ and ISH-	2 (0.2)	0
IHC 1+ and ISH+	11 (1.3)	14 (1.7)
Hormone receptor status, c n (%)		
Positive	581 (71.0)	583 (71.4)
Negative	237 (29.0)	234 (28.6)

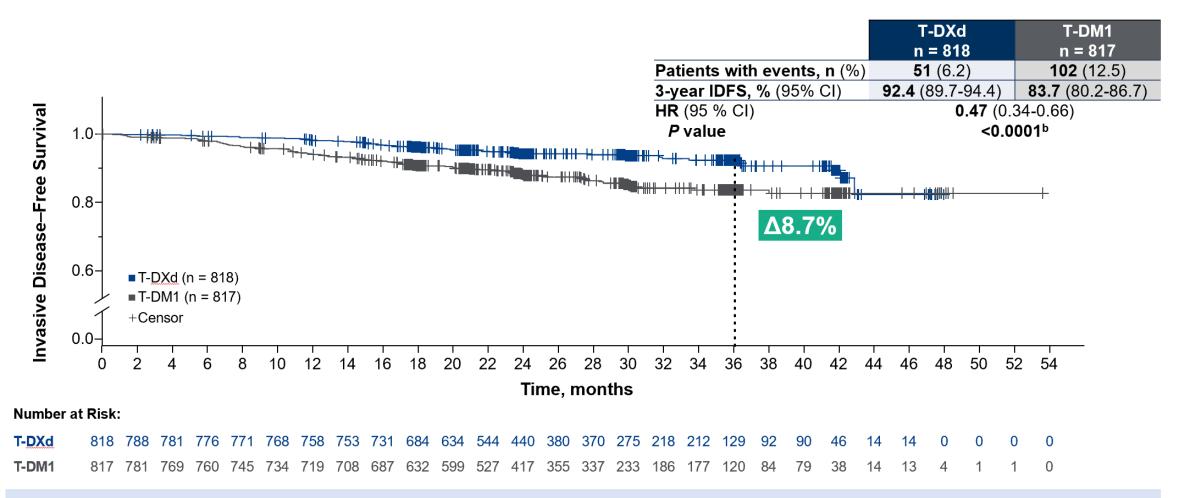
	T-DXd n = 818	T-DM1 n = 817
Operative status at disease presentation.c n (%)		
Operable (cT1-3, N0-1, M0)	387 (47.3)	393 (48.1)
Inoperable (cT4, N0-3, M0 or cT1-3, N2-3, M0)	431 (52.7)	424 (51.9)
Post-NAT pathologic nodal status, c n (%)		
Positive	660 (80.7)	658 (80.5)
Negative	158 (19.3)	159 (19.5)
Neoadjuvant HER2-targeted therapy, n (%)		
Trastuzumab alone	176 (21.5)	171 (20.9)
Trastuzumab + pertuzumab	637 (77.9)	641 (78.5)
Trastuzumab + other HER2-targeted therapy	3 (0.4)	3 (0.4)
Trastuzumab + pertuzumab + other HER2-targeted therapy	2 (0.2)	2 (0.2)
Neoadjuvant chemotherapy, n (%)		
Taxanes	818 (100)	817 (100)
Platinum compounds	386 (47.2)	392 (48.0)
Anthracycline	423 (51.7)	399 (48.8)
Radiotherapy treatment, n (%)		
Adjuvant radiotherapy	764 (93.4)	759 (92.9)
Concurrent	438 (53.5)	480 (58.8)
Sequential	326 (39.9)	279 (34.1)
No radiotherapy	54 (6.6)	58 (7.1)

ECOG PS, Eastern Cooperative Oncology Group performance status; HER2, human epidermal growth factor receptor 2; IHC, immunohistochemistry; ISH, in situ hybridization; NAT, neoadjuvant therapy; T-DM1, trastuzumab emtansine; T-DXd, trastuzumab deruxtecan.

alncluded regions: Argentina, Brazil, Chile, Czech Republic, Israel, Mexico, Peru, Poland, Romania, Russian Federation. 6 Centrally confirmed. 6 As reported in electronic data capture.



Primary endpoint: IDFS^a



53% reduction in the risk of invasive disease recurrence or death for T-DXd compared with T-DM1

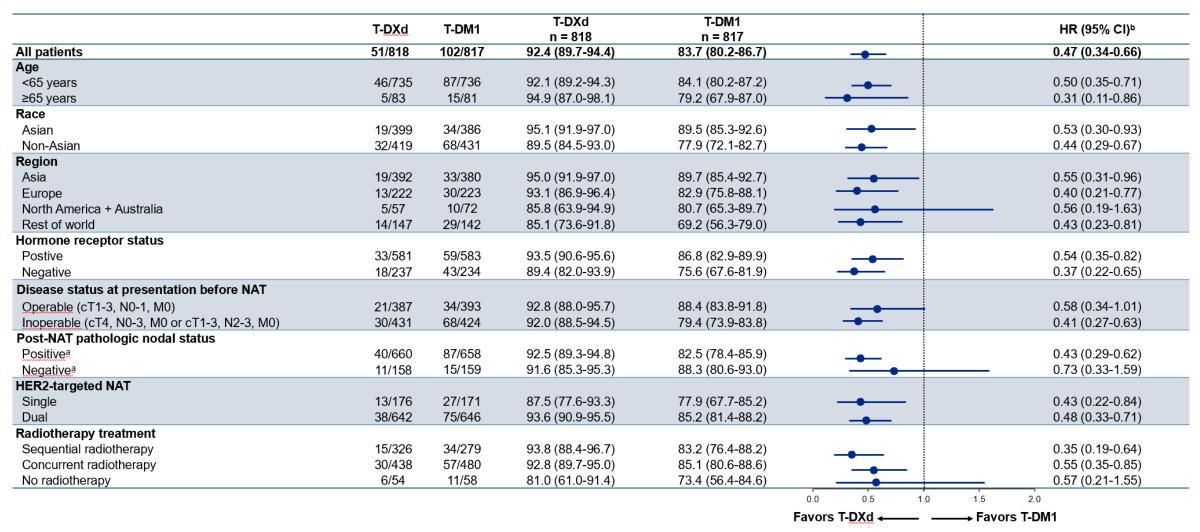
HR, hazard ratio; IDFS, invasive disease–free survival; T-DM1, trastuzumab emtansine; T-DXd, trastuzumab deruxtecan. **Efficacy stopping boundary**, **P** = **0.0183**.



Primary endpoint subgroup analysis: IDFS

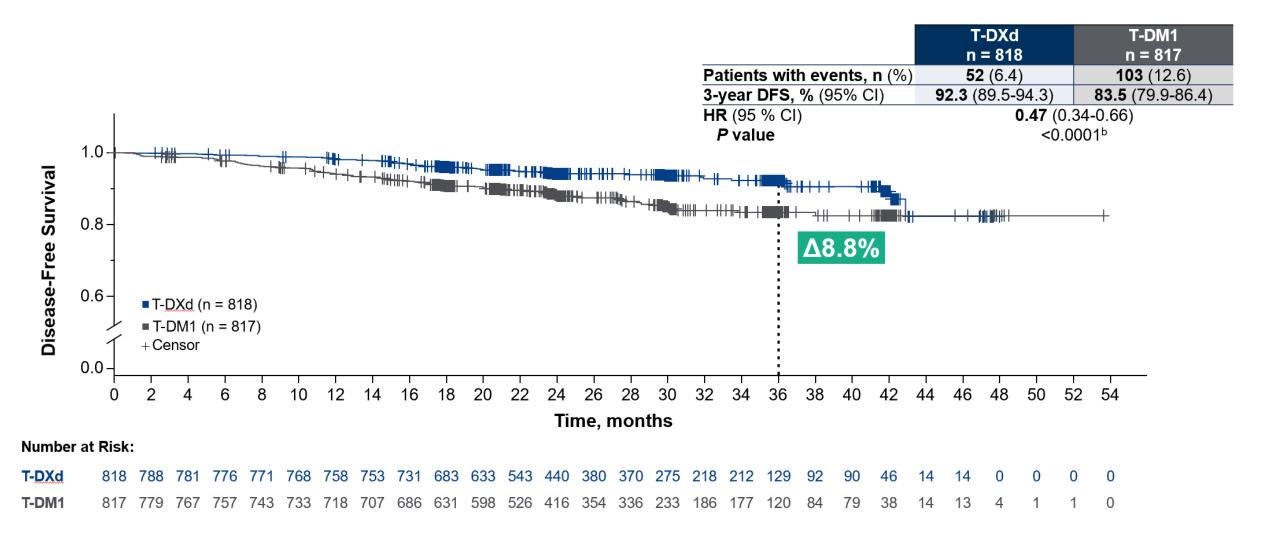
No. events/patients

3-year IDFS, % (95% CI)





Key secondary endpoint: DFS^a

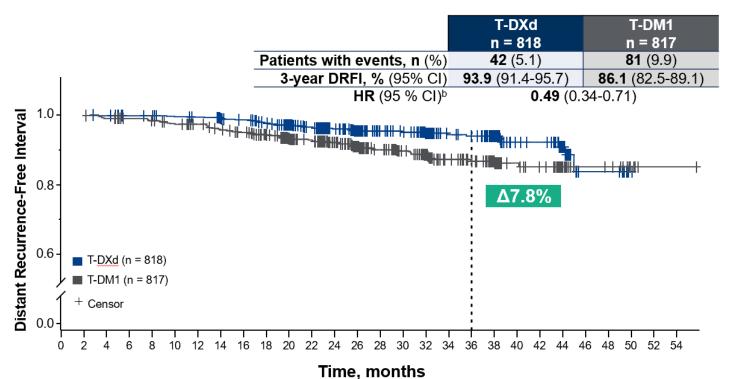


DFS, disease-free survival; HR, hazard ratio; INV, investigator assessment; STEEP, Standardized Definitions for Efficacy End Points in adjuvant breast cancer trials; T-DM1, trastuzumab emtansine; T-DXd, trastuzumab deruxtecan. Efficacy stopping boundary, *P* = 0.0144.

^aDFS defined as the time between randomization and the date of the first occurrence of an IDFS event per STEEP criteria, including second primary non-breast cancer event or contralateral or ipsilateral ductal carcinoma in situ. ^bTwo-sided *P* value from stratified log-rank test. Hazard ratio and 95% CI from stratified Cox proportional hazards model with stratification factor of operative status at disease presentation.



Secondary endpoints: DRFIa, BMFI, and OS



	T-DXd n = 818	T-DM1 n = 817
BMFI	010	
Patients with recurrence in CNS, n (%)	17 (2.1)	26 (3.2)
3-year BMFI rate, % (95% CI)		95.8 (93.6-97.2)
HR (95% CI) ^b	0.64 (0.35-1.17)	
OS (2.9% maturity)		
Patient deaths, n (%)	18 (2.2)	29 (3.5)
Survival at 3 years % (95% CI)	97.4 (95.8-98.4)	95.7 (93.5-97.2)
HR (95% CI) ^b	0.61 (0.	34-1.10)

Number at Risk:

T-DXd 818 786 778 774 770 767 757 753 731 684 635 545 442 382 372 276 219 213 129 92 90 46 14 14 0 0 0 0 0 **T-DM1** 817 780 769 761 746 739 724 713 694 639 606 533 424 362 345 240 192 182 121 84 79 38 14 13 4 1 1 0



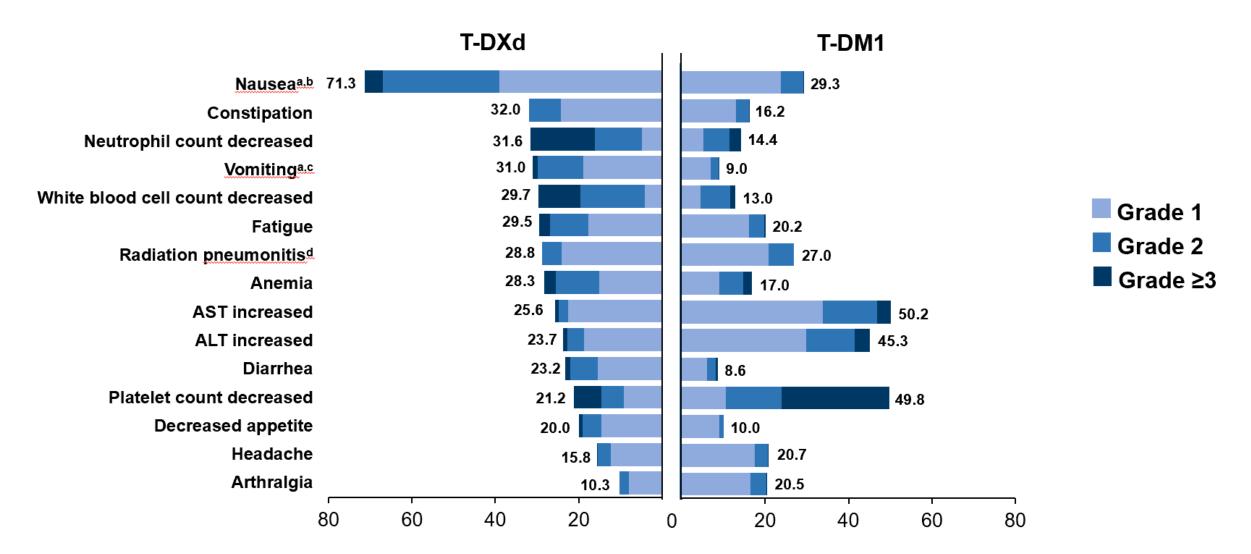
Overall safety summary

	T-DXd	T-DM1
TEAEs, n (%)	n = 806 ^a	n = 801 ^a
Any grade	802 (99.5)	788 (98.4)
Grade ≥3	408 (50.6)	416 (51.9)
Serious	140 (17.4)	109 (13.6)
Associated with drug discontinuation	144 (17.9)	103 (12.9)
Drug-related ILD/pneumonitis ^b	87 (10.8)	20 (2.5)
Associated with drug interruptions	400 (49.6)	329 (41.1)
Associated with dose reductions	213 (26.4)	213 (26.6)
Associated with deaths	3 (0.4)	5 (0.6)

- In the T-DXd arm, causes of death (n = 3) were 2 ILD/pneumonitis^c and respiratory tract infection (adjudicated as not ILD)
- In the T-DM1 arm, causes of death (n = 5) were leiomyosarcoma of the uterus, aneurysm, non-neutropenic sepsis, ovarian cancer, and traumatic pneumothorax



TEAEs in ≥20% of patients (either arm)





Adverse events of special interest: ILD/pneumonitis and LV dysfunction

	Adjudicated Drug-related ILD					
n (%)	Any grade	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
T-DXd (n = 806) ^a	77 (9.6)	16 (2.0)	52 (6.5)	7 (0.9)	0	2 (0.2)
T-DM1 (n = 801) ^a	13 (1.6)	8 (1.0)	5 (0.6)	0	0	0

Adjuvant radiotherapy timing (sequential or concurrent) showed no differences in adjudicated drug-related ILD

Similar distributions of any grade adjudicated drug-related ILD events were observed with sequential and concurrent radiotherapy in both treatment arms (T-DXd: 10.7% and 9.6.% vs T-DM1: 2.6% and 1.0%, respectively)

	LV dysfunction					
n (%)	Any grade	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
T-DXd (n = 806) ^a	23 (2.9)	1 (0.1)	20 (2.5)	2 (0.2)	0	0
T-DM1 (n = 801) ^a	14 (1.7)	0	11 (1.4)	3 (0.4)	0	0



Conclusions

- DESTINY-Breast05 demonstrated a statistically significant and clinically meaningful improvement in IDFS and DFS with T-DXd vs T-DM1 in highrisk^a patients with HER2+ eBC and residual invasive disease after NAT
- IDFS benefit was consistent across all prespecified subgroups
- Benefit in DRFI with T-DXd was also observed
- CNS metastases and deaths were numerically fewer with T-DXd vs T-DM1
- The overall safety profile of T-DXd was manageable with no new signals
 - >72% of patients completed treatment and was comparable in both arms
 - Adjudicated drug-related ILD was reported in 9.6% of patients receiving T-DXd, with the majority being grade 1 or 2 and reversible, suggesting that the risk is manageable with appropriate monitoring and timely intervention

IDFS Benefit T-DXd versus T-DM1

53% reduction in the risk of invasive disease recurrence or death

3-year IDFS rate 92.4% versus 83.7% HR 0.47 *P* value <0.0001

Adjuvant T-DXd demonstrated superior efficacy with manageable safety in patients with high-risk HER2+ eBC and residual invasive disease after NAT, representing a potential new standard of care in this post-neoadjuvant setting



First-line datopotamab deruxtecan (Dato-DXd) vs chemotherapy in patients with locally recurrent inoperable or metastatic triple-negative breast cancer (TNBC) for whom immunotherapy was not an option: Primary results from the randomised, phase 3 TROPION-Breast02 trial

Rebecca A. Dent¹, Zhimin Shao², Peter Schmid³, Javier Cortés⁴, David W. Cescon⁵, Shigehira Saji⁶, Kyung Hae Jung⁷, Thomas Bachelot⁸, Shouman Wang⁹, Gul Basaran¹⁰, Yee Soo Chae¹¹, Rofhiwa Mathiba¹², Shin-Cheh Chen¹³, Agostina Stradella¹⁴, Nicola Battelli¹⁵, Naoki Niikura¹⁶, Kechen Zhao¹⁷, Petra Vuković¹⁸, Micah J. Maxwell¹⁹, Tiffany A. Traina²⁰

¹National Cancer Center Singapore, Singapore; ²Fudan University Shanghai Cancer Center, Fudan, China; ³Centre for Experimental Cancer Medicine, Barts Cancer Institute, Queen Mary University of London, London, UK; ⁴International Breast Cancer Center (IBCC), Pangaea Oncology, Barcelona, Spain; ⁵Princess Margaret Cancer Centre, Toronto, ON, Canada; ⁶Fukushima Medical University, Fukushima, Japan; ¬Asan Medical Center – University of Ulsan College of Medicine, Seoul, Republic of Korea; ⁸Centre Léon Bérard, Lyon, France; ⁹Xiangya Hospital of Central South University, Changsha, China; ¹¹0MAA Acibadem University, School of Medicine, Medical Oncology Department, Istanbul, Türkiye; ¹¹1Kyungpook National University Chilgok Hospital, Kyungpook National University School of Medicine, Kyungpook, Republic of Korea; ¹²Charlotte Maxeke Johannesburg Academic Hospital, Johannesburg, South Africa; ¹³Chang Gung Medical Foundation – Taipei Chang Gung Memorial Hospital, Taipei City, Taiwan; ¹⁴Institut Catala d'Oncologia - Hospital Duran i Reynals (ICO L'Hospitalet), Barcelona, Spain; ¹⁵Ospedale Generale Provinciale Macerata, Italy; ¹⁶Tokai University School of Medicine, Kanagawa, Japan; ¹¬Biometrics, Late-Stage Development, Oncology R&D, AstraZeneca, Cambridge, UK; ¹⁰Clinical Development, Late-Stage Development, Oncology R&D, AstraZeneca, Gaithersburg, MD, USA; ²⁰Memorial Sloan Kettering Cancer Center (MSKCC), New York, NY, USA

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TROPION-Breast02: Study Design

Randomised, phase 3, open-label, global study (NCT05374512)

Key inclusion criteria:

- Patients with histologically or cytologically documented locally recurrent inoperable or metastatic TNBC*
- No prior chemotherapy or targeted systemic therapy in the locally recurrent inoperable or metastatic setting
- Immunotherapy not an option[†]
- ECOG PS 0 or 1
- No minimum DFI[‡]

Dato-DXd 6 mg/kg IV Day 1 Q3W (n=323)Investigator's choice of chemotherapy (ICC)# Paclitaxel, nab-paclitaxel, capecitabine, eribulin mesylate/eribulin, carboplatin (n=321)

Endpoints

Dual primary:

- OS
- PFS by BICR per RECIST v1.1

Secondary included:

- PFS (investigator-assessed)
- ORR, DoR
- Safety

Randomisation stratified by:

- Geographic region (US/Canada/Europe vs other geographic regions)
- PD-L1 status (high [CPS ≥10] vs low [CPS <10])§
- DFI history (de novo vs prior DFI 0–12 months vs prior DFI >12 months)¶
- Treatment continued until investigator-assessed RECIST v1.1 progressive disease, unacceptable toxicity, or another discontinuation criterion was met
- Following progression or discontinuation of study treatment, patients could receive subsequent therapies, including approved ADCs or chemotherapy, at the investigator's discretion

nab-paclitaxel 100 mg/m² IV, D1, 8, 15, Q4W; if prior taxane and DFI 0-12 months: capecitabine 1000 or 1250 mg/m² orally twice daily, D1-14, Q3W (dose determined by standard institutional practice), or eribulin mesylate 1.4 mg/m² / eribulin 1.23 mg/m² IV, Day 1, 8, Q3W, or carboplatin AUC6 IV, D1, Q3W. In the Dato-DXd vs ICC arm, 65% vs 72% of patients received any subsequent therapy in any treatment line; 14% vs 30% received a subsequent ADC (sacituzumab govitecan, sacituzumab tirumotecan, trastuzumab deruxtecan).

ADC, antibody-drug conjugate; BICR, blinded independent central review; CPS, combined positive score;

D, day; DFI, disease-free interval; DoR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; IV, intravenously; ORR, objective response rate; PD-(L)1, programmed cell death (ligand) 1; PFS, progression-free survival; QXW, every X weeks.

^{*}According to ASCO/CAP criteria. Including patients with PD-L1-low tumours, or patients with PD-L1-high tumours with (a) disease relapse after prior PD-(L)1 inhibitor therapy for early-stage breast cancer, (b) comorbidities precluding PD-(L)1 inhibitor therapy, or (c) no regulatory access to PD-(L)1 inhibitor therapy. †DFI defined as time between date of completion of treatment with curative intent and date of first documented local or distant disease recurrence. §Recruitment of patients with PD-L1high tumours who would otherwise be eligible for pembrolizumab if regulatory access was available was capped at ~10% of randomised patients. *Recruitment of patients with DFI 0-12 months was capped at ~20% of randomised patients. *If no prior taxane, or prior taxane in the (neo)adjuvant setting and DFI >12 months: paclitaxel 80 mg/m² IV, D1, 8, 15, Q3W, or



Demographics and Baseline Characteristics

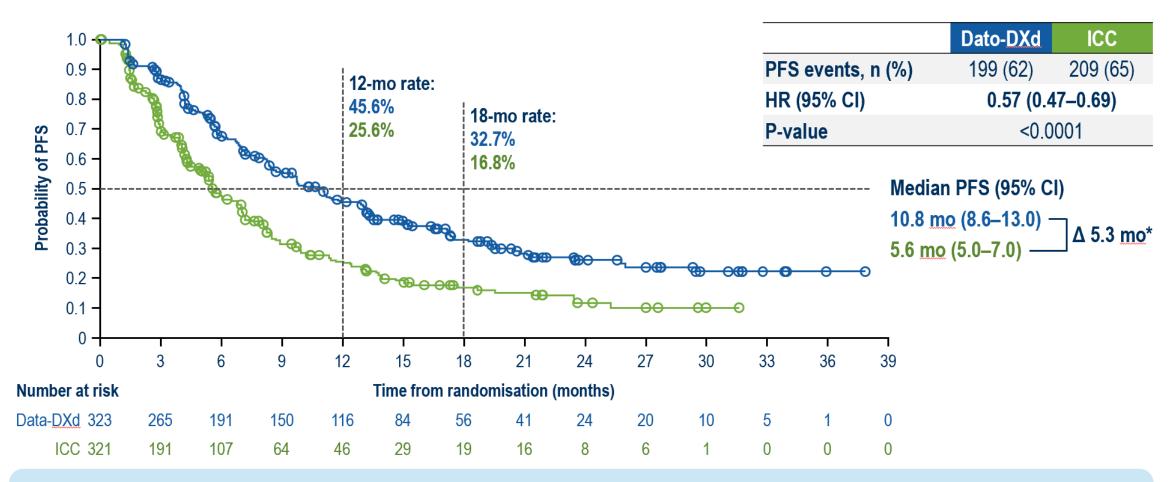
		Dato-DXd (n=323)	ICC (n=321)
Median age (rang	e), years	56 (27–85)	57 (23–83)
Female, n (%)		323 (100)	319 (99)
Race, n (%)	Black or African American Asian White Other*	13 (4) 151 (47) 131 (41) 28 (9)	14 (4) 131 (41) 153 (48) 23 (7)
Geographic region, n (%)	US, Canada, Europe Other geographic regions	120 (37) 203 (63)	120 (37) 201 (63)
ECOG PS, n (%)	0 1	195 (60) 128 (40)	182 (57) 139 (43)
DFI history, n (%)	De novo Prior DFI 0–12 months [‡] Prior DFI 0–6 months Prior DFI >12 months [‡]	109 (34) 67 (21) 47 (15) 147 (46)	110 (34) 66 (21) 51 (16) 145 (45)

		Dato-DXd (n=323)	ICC (n=321)
PD-L1 status,† n (%)	Low (CPS <10)	287 (89)	291 (91)
	High (CPS ≥10)	34 (11)	29 (9)
Metastases, n (%)	Visceral	253 (78)	233 (73)
	Liver	93 (29)	98 (31)
	Brain [§]	36 (11)	28 (9)
Number of metastatic sites, n (%)	<3	207 (64)	215 (67)
	≥3	116 (36)	106 (33)
Pre-selected choice of chemotherapy, n (%)	Nab-paclitaxel Paclitaxel Eribulin mesylate/eribulin Carboplatin Capecitabine	180 (56) 82 (25) 43 (13) 11 (3) 7 (2)	172 (54) 92 (29) 35 (11) 14 (4) 8 (2)

^{*}Including not reported. †Based on central laboratory testing, using Agilent PD-L1 IHC 22C3 pharmDx Assay (Agilent Technologies, Santa Clara, CA); PD-L1 status missing/not applicable in 2 patients in the Dato-DXd arm and 1 patient in the ICC arm. †Prior (neo)adjuvant cancer therapy was received by 66% of patients, including nitrogen mustards (57%), taxanes (57%), anthracyclines (56%), pyrimidine analogues (27%), platinum compounds (16%), and PD-(L)1 inhibitors (5%). *Patients with asymptomatic, stable brain metastases were permitted in the study.



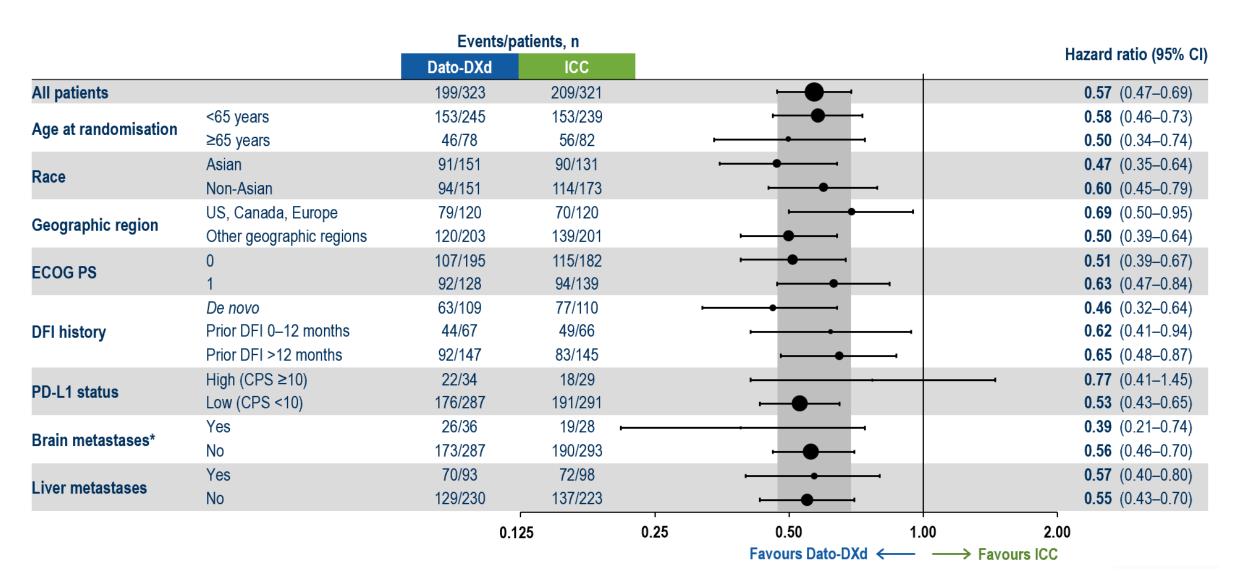
Progression-Free Survival by BICR



Dato-DXd demonstrated a statistically significant and clinically meaningful improvement in PFS compared with ICC, reducing the risk of progression or death by 43%

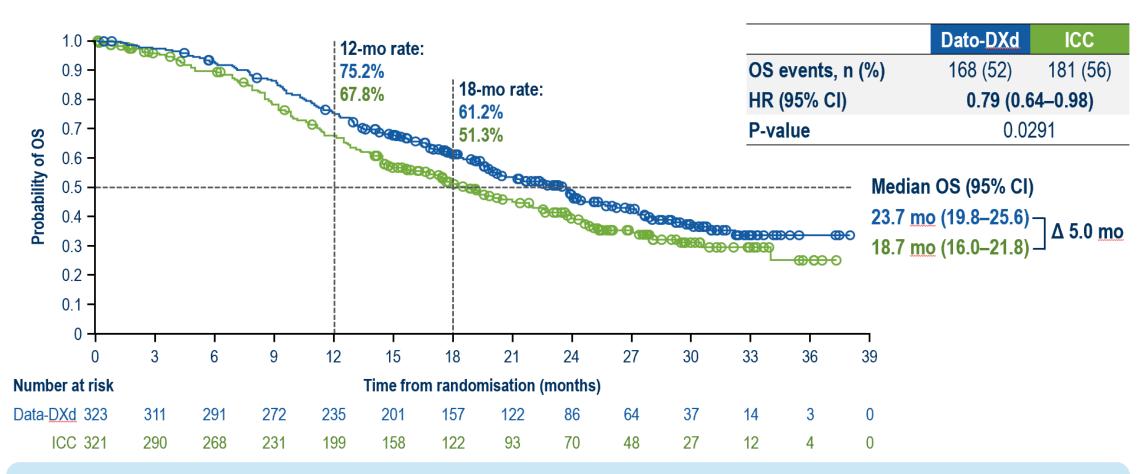


PFS by BICR Subgroup Analysis





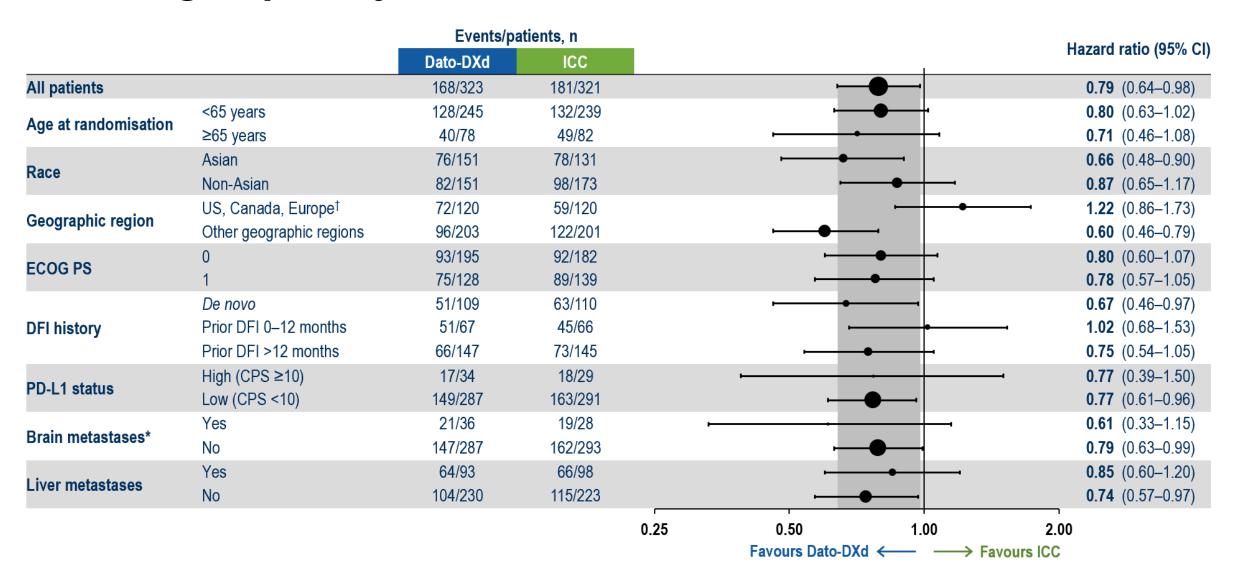
Overall Survival



Dato-DXd demonstrated a statistically significant and clinically meaningful improvement in OS compared with ICC, reducing the risk of death by 21%



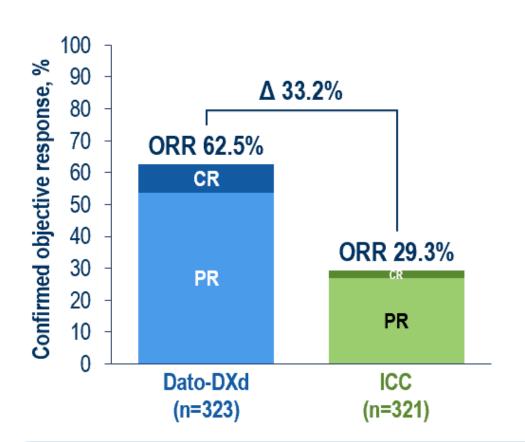
OS Subgroup Analysis



^{*}Patients with asymptomatic, stable brain metastases were permitted in the study. †Ad hoc analysis of the US cohort showed comparable OS HR to the ITT population.



Response by BICR

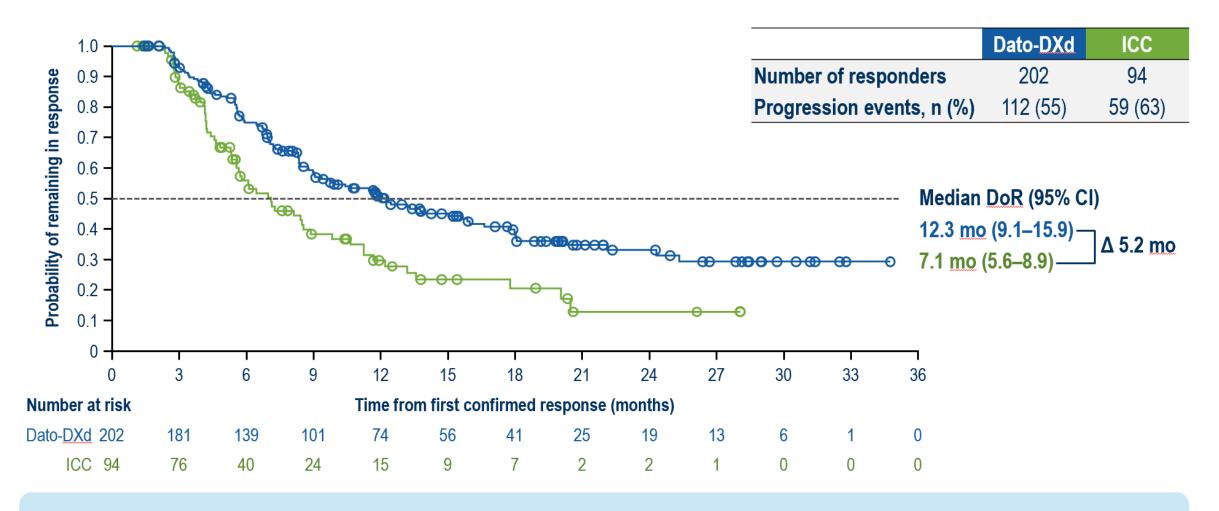


	Dato-DXd (n=323)	ICC (n=321)				
Confirmed objective response, n (%)	202 (62.5)	94 (29.3)				
Odds ratio (95% CI)	4.24 (3.03–5.95)					
Best confirmed objective response, n (%)						
Complete response	29 (9.0)	8 (2.5)				
Partial response	173 (53.6)	86 (26.8)				
Stable disease	87 (26.9)	151 (47.0)				
Progressive disease	27 (8.4)	52 (16.2)				
Not evaluable	7 (2.2)	24 (7.5)				

With Dato-DXd, confirmed ORR was more than double that with ICC, and confirmed complete response rate was more than three times that with ICC



Duration of Response



With Dato-DXd, median duration of response was >1 year



Overall Safety Summary

Median total treatment duration:

— Dato-DXd: 8.5 months (range 0.7–38.0)

- ICC: 4.1 months (range 0.1–32.0)

Patients with total exposure >12 months:

— Dato-DXd: 35.1%

-ICC: 9.4%

Treatment-related AEs, n (%)	Dato-DXd (n=319)	ICC (n=309)
Any grade	296 (93)	257 (83)
Grade ≥3	105 (33)	89 (29)
Serious TRAEs	29 (9)	26 (8)
Associated with dose interruption	76 (24)	60 (19)
Associated with dose reduction	85 (27)	56 (18)
Associated with discontinuation	14 (4)	23 (7)
Associated with death	0	0

Despite more than double the median duration of treatment in the Dato-DXd arm, rates of grade ≥3 and serious treatment-related AEs were similar, and discontinuations were lower, with Dato-DXd vs ICC

TRAEs, treatment-related adverse events.



Most Common Treatment-Related AEs (≥15% of Patients)

Treatment valeted AFe is (0/)	Dato-DXo	i (n=319)	ICC (n	ICC (n=309)	
Treatment-related AEs, n (%)	Any Grade	Grade ≥3	Any Grade	Grade ≥3	
Dry eye*	76 (24)	4 (1)	9 (3)	0	
Stomatitis	182 (57)	27 (8)	27 (9)	0	
Nausea	142 (45)	2 (<1)	53 (17)	2 (<1)	
Constipation	72 (23)	1 (<1)	31 (10)	0	
Vomiting	65 (20)	4 (1)	23 (7)	1 (<1)	
Decreased appetite	49 (15)	1 (<1)	20 (6)	1 (<1)	
Neutropenia [†]	39 (12)	10 (3)	90 (29)	40 (13)	
Anaemia [‡]	48 (15)	6 (2)	64 (21)	10 (3)	
Leukopenia [§]	27 (8)	3 (<1)	55 (18)	13 (4)	
Peripheral neuropathy¶	14 (4)	0	75 (24)	5 (2)	
Alopecia	130 (41)	0	96 (31)	1 (<1)	
Fatigue [#]	101 (32)	8 (3)	86 (28)	9 (3)	

^{*}In the Dato-DXd arm only, ophthalmologic assessments were required every 3 cycles while on therapy; this was not required in the ICC arm. For all patients in both arms, ophthalmologic assessments were required at baseline, as clinically indicated, and at end of therapy.

[†]Grouped term comprising preferred terms of neutropenia and neutrophil count decreased. †Grouped term comprising preferred terms of haemoglobin decreased, red blood cell count decreased, anaemia, and haematocrit decreased. †Grouped term comprising preferred terms of white blood cell count decreased and leukopenia. †Grouped term comprising preferred terms of neuropathy, polyneuropathy, polyneuropathy, paraesthesia, and peripheral sensory neuropathy. †Grouped term comprising preferred terms of fatigue, asthenia, and malaise. |Per Common Terminology Criteria for Adverse Events version 5.0, the maximum grade for alopecia is grade 2.



Treatment-Related AESIs for Dato-DXd

AESI category, n (%)	Dat	Dato-DXd (n=319)			ICC (n=309)			
Preferred term*	Grade 1	Grade 2	Grade ≥3	Grade 1	Grade 2	Grade ≥3		
Oral mucositis/stomatitis†	78 (24)	87 (27)	27 (8)	22 (7)	8 (3)	0		
Stomatitis	72 (23)	83 (26)	27 (8)	19 (6)	8 (3)	0		
Ocular surface events‡§	76 (24)	50 (16)	23 (7)	9 (3)	5 (2)	1 (<1)		
Dry eye	51 (16)	21 (7)	4 (1)	6 (2)	3 (1)	0		
Keratitis	21 (7)	14 (4)	7 (2)	1 (<1)	0	0		
Conjunctivitis	7 (2)	13 (4)	1 (<1)	0	0	0		
Adjudicated drug-related ILD/pneumonitis¶	1 (<1)	7 (2)	1 (<1)#	1 (<1)	1 (<1)	0		

Treatment-related oral mucositis/stomatitis:

- In the Dato-DXd arm, events led to dose interruption, reduction, and discontinuation in 11 (3%), 36 (11%), and 0 patients, respectively
- Grade ≥2 events resolved to grade ≤1 in 103/114 patients (90%) at data cutoff

Treatment-related ocular surface events:

- In the Dato-DXd arm, events led to dose interruption, reduction, and discontinuation in 18 (6%), 14 (4%), and 3 (<1%) patients, respectively
- Grade ≥2 events resolved to grade ≤1 in 49/73 patients (67%) at data cutoff

^{*}Details for preferred terms included if reported in ≥20 patients in either arm. [†]Comprising the preferred terms of aphthous ulcer, mouth ulceration, oral pain, oropharyngeal pain, pharyngeal inflammation, and stomatitis. [‡]Comprising the preferred terms of acquired corneal dystrophy, blepharitis, conjunctivitis, corneal epithelium defect, corneal erosion, corneal exfoliation, corneal lesion, corneal toxicity, dellen, dry eye, keratitis, keratopathy, lacrimation increased, limbal stem cell deficiency, meibomian gland dysfunction, photophobia, punctate keratitis, vision blurred, visual acuity reduced, visual impairment, and xerophthalmia. [§]In the Dato-DXd arm only, ophthalmologic assessments were required every 3 cycles while on therapy; this was not required in the ICC arm. For all patients in both arms, ophthalmologic assessments were required at baseline, as clinically indicated, and at end of therapy. [†]Comprising the preferred terms of interstitial lung disease and pneumonitis. [‡]Grade 5 – this event was characterised by the investigator as grade 3 pneumonitis, with death assessed as related to breast cancer.



Conclusions

- TROPION-Breast02 met both dual primary endpoints: first-line Dato-DXd demonstrated statistically significant and clinically meaningful improvement in OS and PFS over ICC
 - OS HR 0.79 (95% CI 0.64-0.98); P=0.0291
 - PFS by BICR HR 0.57 (95% CI 0.47–0.69); P<0.0001
 - ≥5-month improvement in both median OS and PFS

TROPION-Breast02
enrolled patients who
are representative of the
real-world TNBC population, including
those often excluded from clinical
trials (e.g. 15% had DFI 0–6 months)

- The Dato-DXd safety profile was manageable and generally consistent with the known profile
 - Despite more than double the median duration of treatment, rates of grade ≥3 and serious TRAEs were similar, and discontinuations were lower, with Dato-DXd vs ICC

TROPION-Breast02 results support Dato-DXd as the new first-line standard of care for patients with locally recurrent inoperable or metastatic TNBC for whom immunotherapy is not an option



Datopotamab deruxtecan (Dato-DXd) in combination with durvalumab as first-line treatment for unresectable locally advanced/metastatic triple-negative breast cancer: Results from arms 7 and 8 of the phase 1b/2 BEGONIA study

Peter Schmid,¹ Hwei-Chung Wang,² Filipa Lynce,³ Yeon Hee Park,⁴ Cynthia X. Ma,⁵ Kyung Hae Jung,⁶ Shin-Cheh Chen,⁷ Ming-Feng Hou,⁸ Catherine Prady,⁹ Ling-Ming Tseng,¹⁰ Jamil Asselah,¹¹ Piotr J. Wysocki,¹² Simon Lord,¹³ Purnima Rao-Melacini,¹⁴ Karola Warzyszyńska,¹⁵ Petra Vuković,¹⁶ Seock-Ah Im¹⁷

¹Centre for Experimental Cancer Care Medicine, Barts Cancer Institute, Queen Mary University of London, London, UK; ²Department of Surgery, China Medical University Hospital, Taichung, Taiwan; ³Department of Medicial Oncology, Breast Oncology Program, Dana-Farber Cancer Institute and Harvard Medical School, Boston, MA, USA; ⁴Division of Hematology Oncology, Department of Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea; ⁵Division of Oncology, Department of Medicine, St. Louis, MO, USA; ⁶Department of Oncology, Asan Medical Center, University of Ulsan College of Medicine, Seoul, Republic of Korea; ¬Division of Breast Surgery, Department of General Surgery, Chang Gung Memorial Hospital, Taoyuan, Taiwan; ®Division of Breast Surgery, Department of Surgery, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan; °Oncology, Sherbrooke University, Centre Intégré de Cancérologie de la Montérégie, CISSS Montérégie Centre, Greenfield Park, QC, Canada; ¹¹Comprehensive Breast Health Center, Taipei Veterans General Hospital, Taipei, Taiwan; ¹¹Medical Oncology, McGill University Health Centre, Montreal, QC, Canada; ¹²Department of Oncology, Jagiellonian University Medical College, Krakow, Poland; ¹³Department of Oncology, Medical Sciences Division, University of Oxford, Oxford, UK; ¹⁴Statistics, Oncology R&D, AstraZeneca, Mississauga, ON, Canada; ¹⁵Clinical Development, Oncology R&D, AstraZeneca, Cambridge, UK; ¹₹Seoul National University Hospital, Cancer Research Institute, Seoul National University College of Medicine, Seoul National University, Seoul, Republic of Korea.

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BEGONIA Study

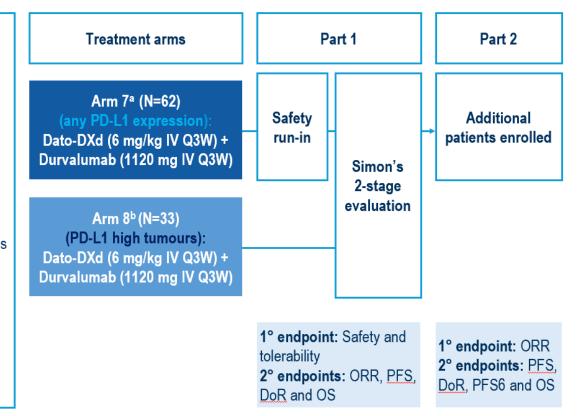
Rationale

- PD-(L)1 inhibition + chemotherapy is SoC for patients with PD-L1 high advanced/metastatic TNBC^{1,2}
 - Outcomes remain poor; most patients progress within one year (PFS ~10 months)³
 - Treatment options are limited, particularly for patients with PD-L1 low tumours^{1,4}
- Dato-DXd, a TROP2-directed ADC,⁵ is approved for the treatment of adults with unresectable or metastatic HR+/HER2- breast cancer who have received prior ET and chemotherapy for unresectable or metastatic disease, based on the results of the phase 3 TROPION-Breast01 study^{6,7}
- BEGONIA (NCT03742102) is a phase 1b/2, multicentre, multi-arm, 2-stage, 2-part, open-label platform study evaluating the safety and efficacy of durvalumab + other novel therapies as 1L treatment for advanced/metastatic TNBC⁸

Here we report updated data in patients regardless of PD-L1 status (Arm 7) and with PD-L1 high tumours per local testing (Arm 8)

Eligibility criteria

- Female, ≥18 years of age
- Unresectable locally advanced/metastatic TNBC
- No prior treatment for stage IV TNBC
- ≥12 months since any prior taxane therapy
- No prior treatment with ICls or <u>Topo</u> I-based ADCs
- ECOG PS 0 or 1
- Measurable disease per RECIST v1.1
- Arm 8: PD-L1 high tumours, determined by local testing (IHC-based assay)



NCT03742102, DCO: 29 November 2024

^aPatients were enrolled into Arm 7 regardless of PD-L1 expression, which was retrospectively assessed using the VENTANA® PD-L1 (IHC antibody for PD-L1, SP263 [Roche Diagnostics]) Assay (off-label use); PD-L1 high: TAP ≥10%; PD-L1 low: TAP <10%. bPatients were enrolled with PD-L1 high tumours determined via local testing methods.

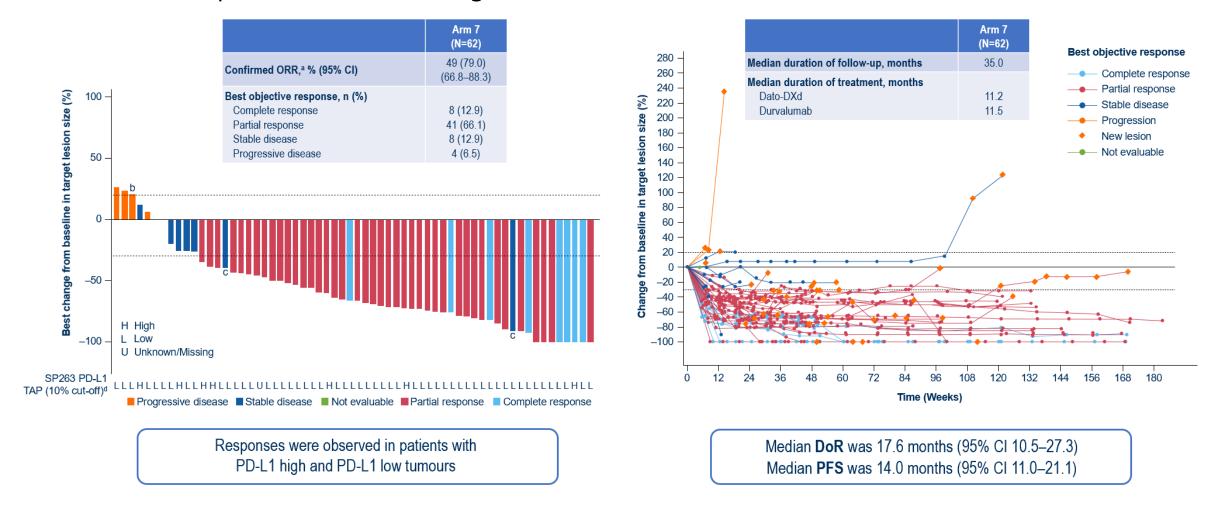
1L; first-line; ADC, antibody-drug conjugate; Dato-DXd, datopotamab deruxtecan; DoR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; ET, endocrine therapy; HER2-, human epidermal growth factor receptor 2-negative; HR+, hormone receptor-positive; ICI, immune checkpoint inhibitor; IHC, immune checkpoint inhibitor; IHC, immune checkpoint inhibitor; IV, intravenous; ORR, objective response rate; OS, overall survival; PD-(L)1, programmed cell death (ligand)-1; PFS, progression-free survival; PFS6, progression-free survival 6 months following date of first dose; Q3W, every 3 weeks; RECIST v1.1, Response Evaluation Criteria in Solid Tumours version 1.1; SoC, standard of care; TAP, tumour area positivity; Topo-I, topoisomerase I; TNBC, triplenegative breast cancer.

1. Gennari A, et al. Ann Oncol 2021;32:1475–95; 2. European Medicines Agency, KEYTRUDA® Summary of Product Characteristics 2025; 3. Cortes J, et al. Lancet. 2020;396:1817–28; 4. European Medicines Agency, TRODELVY® Summary of Product Characteristics 2025; 5. Okajima D, et al. Cancer Res 2023;83(7_Suppl):A2932; 6. Bardia, A et al. J Clin Oncol 2025;43:285–96; 7. European Medicines Agency, DATROWAY® Summary of Product Characteristics 2025; 8. Schmid P, et al. Ann Oncol 2023;34:S337.



Overall Response and Duration of Response (Arm 7)

Overall, 11.3% patients had PD-L1 high tumours and 87.1% had PD-L1 low tumours

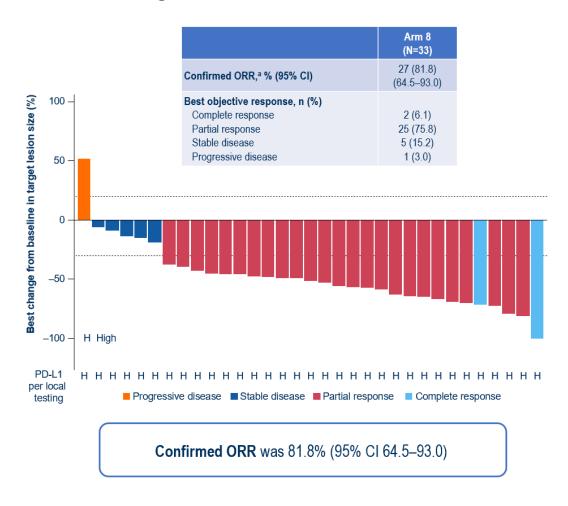


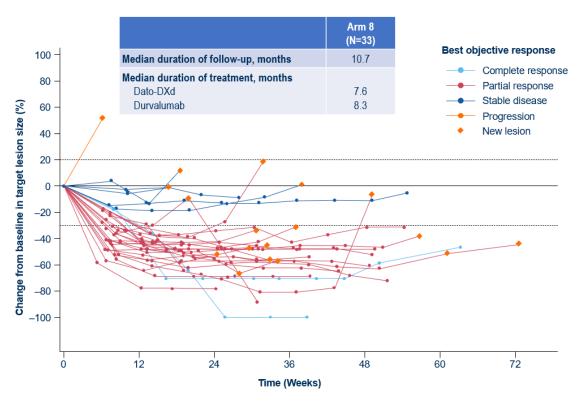
alnvestigator-assessed, per RECIST v1.1. Patient with imputed values. Unconfirmed response. PD-L1 status determined by central testing using the SP263 TAP 10% cut-off.



Overall Response and Duration of Response (Arm 8)

PD-L1 high tumours





Median **DoR** and median **PFS** were immature given the short duration of median follow-up of 8.3 months in censored patients

^aInvestigator-assessed, per RECIST v1.1.



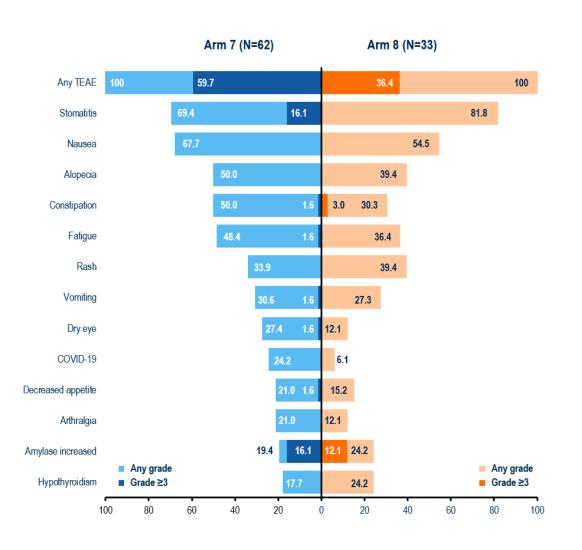
Overall Safety Summary^a

	Arm 7 (N=62)	Arm 8 (N=33)
Median duration of treatment, months Dato-DXd Durvalumab	11.2 11.5	7.6 8.3
Any TEAE, n (%) Maximum CTCAE grade 3/4	62 (100) 37 (59.7)	33 (100) 12 (36.4)
Any treatment-related AE, n (%) Maximum CTCAE grade 3/4	62 (100) 30 (48.4)	33 (100) 8 (24.2)
Any SAE, n (%)	18 (29.0)	5 (15.2)
Any <u>TEAE</u> leading to death, n (%)	1 (1.6) ^b	0
Any TEAE leading to discontinuation of either treatment, n (%) Discontinuation of Dato-DXd Discontinuation of durvalumab	12 (19.4) 12 (19.4) 3 (4.8)	3 (9.1) 2 (6.1) 2 (6.1)
Any <u>TEAE</u> leading to dose reduction of Dato- <u>DXd</u> c, n (%)	24 (38.7)	7 (21.2)
Any <u>TEAE</u> leading to dose interruption (either treatment), n (%)	44 (71.0)	23 (69.7)
Any imAE, n (%) Maximum CTCAE grade 3/4	20 (32.3) 1 (1.6)	11 (33.3) 0

^aCTCAE grading was reported per CTCAE v4.03. ^bDue to dehydration, considered to be not related to study treatment. ^cDose reductions were not permitted for durvalumab.



Most common TEAEs(≥20% of patients in either arm)^{a,b}



- Across both arms, rates of adjudicated drug-related <u>ILD</u> were low, with no grade ≥3 events:
 - Arm 7: two grade 2 events, one grade 1 event
 - Arm 8: one grade 2 event
- The most frequently reported <u>AESI</u> preferred terms (≥15%) for Dato-DXd were stomatitis (Arm 7: 69.4%; Arm 8: 81.8%), dry eye (Arm 7: 27.4%; Arm 8: 12.1%), keratitis (Arm 7: 16.1%; Arm 8: 3.0%), vision blurred (Arm 7: 8.1%; Arm 8: 15.2%) and oropharyngeal pain (Arm 7: 11.3%; Arm 8: 15.2%)
- The most frequently reported imAEs for durvalumab were thyroid events (hypothyroid events [Arm 7: 22.6%; Arm 8: 24.2%]; hyperthyroid events [Arm 7: 8.1%; Arm 8: 0%])
- Rates of diarrhoea and neutropenia were limited in both arms:
 Arm 7:
 - Diarrhoea: 16.1% any grade, one grade 3 event
 - Neutropenia: 4.8% any grade, one grade 3 event
 Arm 8:
 - Diarrhoea: 6.1% any grade, no grade 3 events
 - Neutropenia: 0% any grade

[°]CTCAE grading was reported per CTCAE v4.03; bTEAEs (by MedDRA preferred term) of any grade reported in ≥20% of patients.



Conclusions

 The combination of Dato-DXd + durvalumab demonstrated robust antitumour activity in patients with advanced/metastatic TNBC with any PD-L1 expression (Arm 7) and in those with high PD-L1 expression (Arm 8)

Arm 7

- Median duration of follow-up was 35.0 months
- Confirmed ORR was 79.0% (95% CI 66.8–88.3); consistent response rates were observed regardless of PD-L1 status
- Median DoR was 17.6 months (95% CI 10.5–27.3)
- Median PFS was 14.0 months (95% CI 11.0–21.1)

Arm 8

- Median duration of follow-up was 10.7 months
- Confirmed ORR was 81.8% (95% CI 64.5–93.0)
- Median <u>DoR</u> and median <u>PFS</u> were immature given the short duration of median follow-up of 8.3 months in censored patients
- The safety profile of the combination of Dato-DXd + durvalumab was manageable, with no new safety signals



Raludotatug deruxtecan (R-DXd) in patients with platinum-resistant ovarian cancer: Primary analysis of the Phase 2, dose-optimization part of the REJOICE-Ovarian01 study

Isabelle Ray-Coquard,¹ Kosei Hasegawa,² Nicoletta Colombo,³ Jung-Yun Lee,⁴ David Cibula,⁵ Yunong Gao,⁶ Sabrina Chiara Cecere,⁷ Peng-Hui Wang,⁸ Lubomir Bodnar,⁹ Sally Baron-Hay,¹⁰ Diana Bello Roufai,¹¹ Mayu Yunokawa,¹² David Garcia-Illescas,¹³ Sook-hee Hong,¹⁴ Maria Cristina Petrella,¹⁵ Sandra Re,¹⁶ Madan Gopal Kundu,¹⁶ Karin Yamada,¹⁷ Veronique D'Hondt,¹⁹ Lydia Gaba¹⁹

¹Centre Léon Bérard, University Claude Bernard, and GINECO, Lyon, France; ²Saitama Medical University International Medical Center, Hidaka, Saitama, Japan; ³European Institute of Oncology, IRCCS, Milan, Italy; ⁴Yonsei Cancer Center and Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea; ⁵Charles University and General University Hospital, Prague, Czech Republic; ⁶Beijing Cancer Hospital, Beijing Institute for Cancer Research, Beijing, China; ¬IRCCS Fondazione G. Pascale, Naples, Italy; ®Taipei Veterans General Hospital, Taipei, Taiwan; ⁰University of Siedlce, Siedlce, Poland; ¹¹GenesisCare North Shore, St Leonards, NSW, Australia; ¹¹Institut Curie, Saint-Cloud, France; ¹²The Cancer Institute Hospital of Japanese Foundation for Cancer, Tokyo, Japan; ¹³Vall d'Hebron Institute of Oncology (VHIO), Hospital Universitari Vall d'Hebron Barcelona Hospital Campus, Barcelona, Spain; ¹⁴Seoul St. Mary's Hospital, The Catholic University of Korea, Seoul, Republic of Korea; ¹⁵Azienda Ospedaliera Universitaria Careggi, Florence, Italy; ¹⁶Daiichi Sankyo, Inc., Basking Ridge, NJ, USA; ¹⁶Merck & Co., Inc., Rahway, NJ, USA; ¹⁶Hospital Clinic Barcelona and GEICO, Barcelona, Spain.

ESMO 2025 LBA42 (Oral)



REJOICE-Ovarian01 (NCT06161025): Study design

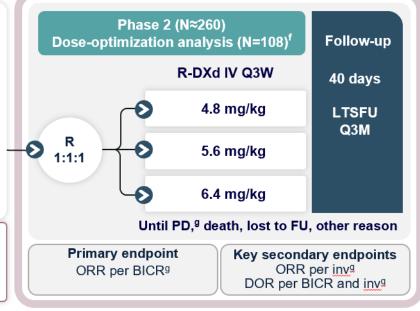
A Phase 2/3 multicenter, randomized study of R-DXd in patients with platinum-resistant, high-grade serous or endometroid ovarian, primary peritoneal, or fallopian tube cancer^{1,2}

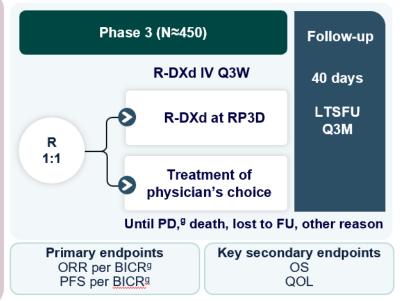
Key eligibility criteria

- High-grade serous or high-grade endometrioid ovarian, primary peritoneal, or fallopian tube cancer^a
- 1–3 prior LOT, including bevacizumab
- Platinum-resistant <u>disease</u> (primary platinumrefractory disease is exclusionary)
- Prior <u>mirvetuximab soravtansine</u>^d (for tumors with high FRα expression)
- ECOG PS 0-1
- No prior CDH6-targeting agents or ADCs with a linked DXd
- No selection by tumor CDH6 expression

Stratification factors

- Number of prior LOT (1 vs 2–3)
- CDH6 membrane expression by IHC (≥75% vs <75%)e
- TPC (paclitaxel vs other; Phase 3 only)





We present the primary analysis from the dose-optimization part of the Phase 2/3 REJOICE-Ovarian01 study, in 107 patients with platinum-resistant OC who had a follow-up of ≥18 weeks or discontinued treatment

^aPatients must have ≥1 lesion not previously irradiated and amenable to biopsy; must consent to provide a pretreatment biopsy and, in Phase 2 only, an on-treatment biopsy tissue sample and have ≥1 measurable lesion per RECIST 1.1. bUnless ineligible. cDefined as 1 line of prior platinum therapy (≥4 cycles with best response of not PD) with radiologically documented progression >90 and ≤180 days following last dose of platinum therapy, or 2–3 lines of prior platinum therapy (≥2 cycles) with radiologically documented progression ≤180 days following the last dose of platinum. dUnless ineligible, not approved, or not available locally. cA stratification cutoff of 75% tumor cell membrane staining at any intensity was selected based on the median observed percentage tumor cell membrane staining (at any intensity) in the Phase 1 study population. Coverall, 108 patients were randomized to receive R-DXd. One patient did not receive treatment, so 107 patients were treated and were included in the safety analysis set. Per RECIST 1.1. ADC, antibody—drug conjugate; BICR, blinded independent central review; CDH6, cadherin 6; DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; FRα, folate receptor alpha; FU, follow-up; IHC, immunohistochemistry; IV, intravenous; inv, investigator; LOT, lines of therapy; LTSFU, long-term survival follow up; ORR, objective response rate; OS, overall survival; RP3D, recommended phase 3 dose; PD, progressive disease; Q3M, every 3 months; Q3W, every 3 weeks; QOL, quality of life; R, randomization; RECIST 1.1, Response Evaluation Criteria in Solid Tumours, version 1.1; TPC, treatment of physician's choice.

1. ClinicalTrials.gov. https://clinicaltrials.gov/study/NCT06161025. Accessed October 7, 2025. 2. Ray-Coquard I, et al. Poster presentation at American Society of Clinical Oncology 2024; May 31–June 4; Chicago, IL, USA. Poster TPS5625. 3. Moore KN, et al. Oral presentation at the Society of Gynecologic Oncology 2024 Annual Meeting on Women's Cancer. March 16–18, 2024; San Diego, CA, USA.



Baseline characteristics and prior systemic therapies

Patient and tumor characteristics	R-DXd 4.8–6.4 mg/kg ^a N=107
Age, median (range), years	60 (34–81)
Age >70 years, n (%)	17 (15.9)
Region, n (%)	
Asia	45 (42.1)
Europe	61 (57.0)
Australia	1 (0.9)
ECOG PS, n (%)	
0	61 (57.0)
1	46 (43.0)
Cancer type, n (%)	
Ovarian	91 (85.0)
Peritoneal	4 (3.7)
Fallopian tube	12 (11.2)
Tumor FIGO stage at initial diagnosis, n (%)	
I–II	11 (10.3)
III	53 (49.5)
IV	39 (36.4)
Unknown	4 (3.7)

Tumor characteristics and prior therapies	R-DXd 4.8–6.4 mg/kg² N=107
Number of prior lines of systemic therapy, n (%)	
1	10 (9.3)
2	42 (39.3)
3	55 (51.4)
Received prior therapy, n (%)	
Bevacizumab	89 (83.2)
PARP inhibitor	75 (70.1)
Mirvetuximab soravtansine	3 (2.8)
Last platinum-free interval, n (%)	
<3 months	47 (43.9)
3–6 months	60 (56.1)
Tumor CDH6 membrane positivity at any intensity at baseline, b n (%)	n=101°
Any positivity	95 (94.1)
<75% positive	41 (40.6)
≥75% <u>positive</u> d	60 (59.4)

Data cutoff: February 26, 2025. Study was initiated on February 27, 2024.

^aOnly patients treated with ≥1 dose were included in this analysis and made up the safety analysis cohort. ^bTumor CDH6 positivity was defined as the percentage of viable tumor cells positive for CDH6 membrane staining at any intensity (1+/2+/3+) determined by CDH6 clinical trial assay (SP450; Roche Diagnostics). ^cSix tumor samples were of insufficient quality to determine CDH6 membrane positivity. ^dA stratification cutoff of 75% tumor cell membrane staining at any intensity was selected based on the median observed percentage tumor cell membrane staining (at any intensity) in the Phase 1 study population.¹

CDH6, cadherin 6; ECOG PS, Eastern Cooperative Oncology Group performance status; FIGO, Fédération Internationale de Gynécologie et d'Obstétrique; PARP, poly (adenosine diphosphate [ADP]-ribose) polymerase; PD, progressive disease.

1. Moore KN, et al. Oral presentation at the Society of Gynecologic Oncology 2024 Annual Meeting on Women's Cancer. March 16–18, 2024; San Diego, CA, USA.



R-DXd monotherapy demonstrated promising antitumor activity at all doses in patients with platinum-resistant OC

Confirmed response by BICR ^a	R-DXd 4.8 mg/kg n=36	R-DXd 5.6 mg/kg n=36	R-DXd 6.4 mg/kg n=35	R-DXd 4.8–6.4 mg/kg N=107
ORR, % (95% CI)	44.4 (27.9–61.9)	50.0 (32.9–67.1)	57.1 (39.4–73.7)	50.5 (40.6–60.3)
BOR, ^b n (%)				
CR	1 (2.8)	2 (5.6)	0	3 (2.8)
PR	15 (41.7)	16 (44.4)	20 (57.1)	51 (47.7)
SD	17 (47.2)	15 (41.7)	10 (28.6)	42 (39.3)
PD	2 (5.6)	2 (5.6)	4 (11.4)	8 (7.5)
Not evaluable	1 (2.8) ^c	1 (2.8) ^d	1 (2.9)°	3 (2.8)
DCR, % (95% CI)	75.0 (57.8–87.9)	80.6 (64.0–91.8)	77.1 (59.9–89.6)	77.6 (68.5–85.1)
TTR, median (range), weeks	7.1 (5.4–18.7)	6.6 (5.1–18.3)	7.2 (5.3–19.1)	7.1 (5.1–19.1)

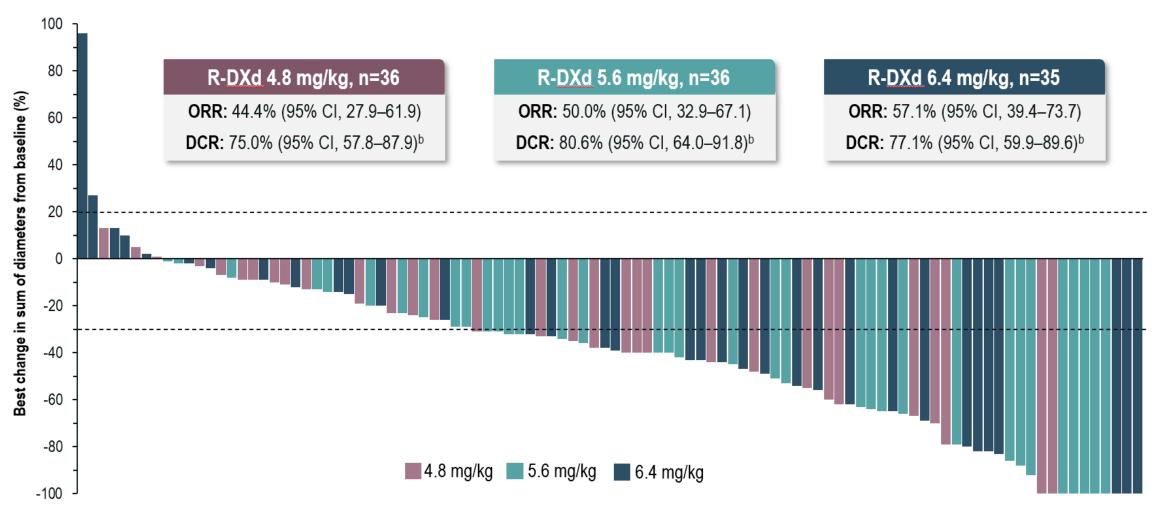
Data cutoff: February 26, 2025. The median follow-up for 4.8-mg/kg, 5.6-mg/kg, and 6.4-mg/kg cohorts was 5.6 months (95% CI, 4.7-6.3), 5.6 months (95% CI, 4.6-5.8), and 5.2 months (95% CI, 4.9-5.8), respectively.

^aPer RECIST 1.1. ^bBOR was defined as the best response across all timepoints; CR, ≥2 assessments of CR ≥4 weeks apart, prior to progression; PR, ≥2 assessments of PR (or CR) ≥4 weeks apart, prior to progression (not meeting criteria for CR); SD, ≥1 assessment of SD (or better) ≥5 weeks following treatment initiation, and before progression (not meeting criteria for CR or PR); PD, progression ≥12 weeks following treatment initiation (not meeting criteria for CR, PR, or SD); ^cPatient had no baseline tumor assessment by BICR. ^dPatient had no adequate post-baseline tumor assessment by BICR. ^eDCR was defined as percentage of patients with BOR of CR, PR, or SD (per RECIST 1.1).

BICR, blinded independent central review; BOR, best overall response; CI, confidence interval; CR, complete response; DCR, disease control rate; OC, ovarian cancer; ORR, objective response rate; PD, progressive disease; PR, partial response; RECIST 1.1, Response Evaluation Criteria in Solid Tumours, version 1.1; SD, stable disease; TTR, time to response.



Clinically meaningful tumor responses were seen irrespective of dosea

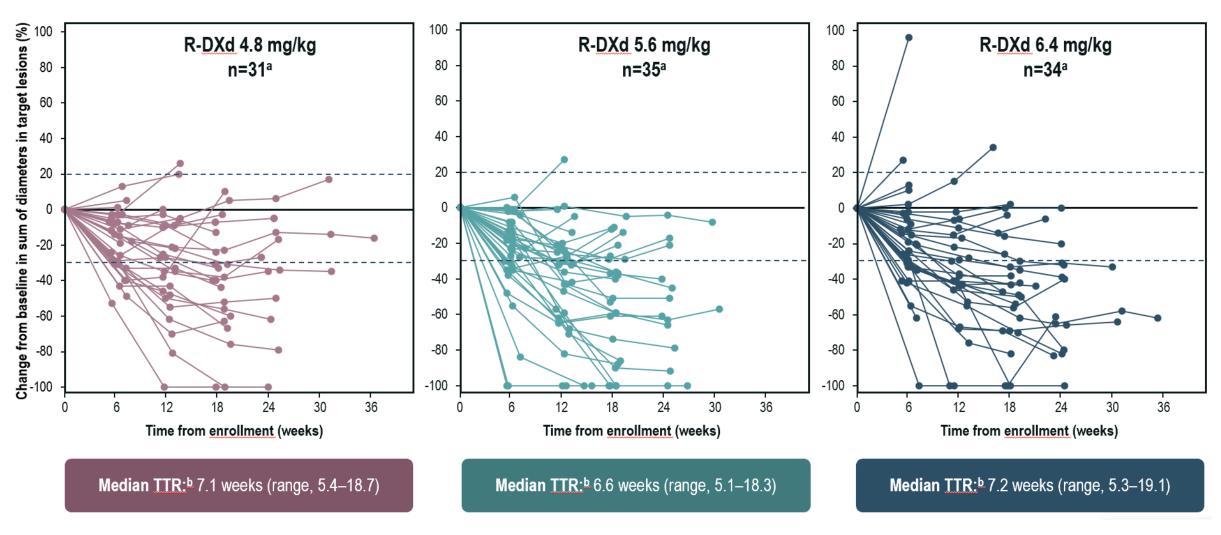


Data cutoff: February 26, 2025. The median follow-up for 4.8-mg/kg, 5.6-mg/kg, and 6.4-mg/kg cohorts was 5.6 months (95% CI, 4.7-6.3), 5.6 months (95% CI, 4.6-5.8), and 5.2 months (95% CI, 4.9-5.8), respectively.

^aAntitumor response assessed by BICR per RECIST 1.1. Only patients with measurable disease at baseline and ≥1 post-baseline tumor scan, both by BICR, were included in the waterfall plot (n=100). Six patients (R-DXd 4.8 mg/kg [n=5]; 6.4 mg/kg [n=1]) did not have measurable disease at baseline and one patient (R-DXd 5.6 mg/kg) had no adequate post-baseline tumor assessment. ^bDCR was defined as percentage of patients with BOR of CR, PR, or SD (per RECIST 1.1). BICR, blinded independent central review; CI, confidence interval; DCR, disease control rate; ORR, objective response rate; RECIST 1.1, Response Evaluation Criteria in Solid Tumours, version 1.1.



R-DXd treatment was associated with rapid responses at all doses



Data cutoff: February 26, 2025. The median follow-up for 4.8-mg/kg, 5.6-mg/kg, and 6.4-mg/kg cohorts was 5.6 months (95% CI, 4.7–6.3), 5.6 months (95% CI, 4.6–5.8), and 5.2 months (95% CI, 4.9–5.8), respectively.

and 5.2 months (95% CI, 4.9–5.8), respectively.

and 5.2 months (95% CI, 4.9–5.8), respectively.

blick, were included in the spider plots (n=100). Six patients (R-DXd 4.8 mg/kg [n=5];

blick, blinded independent central review; CI, confidence interval; RECIST 1.1, Response Evaluation Criteria in Solid Tumours, version 1.1; TTR, time to response.



The 5.6-mg/kg dose provided the optimal benefit-risk profile

	R-DXd 4.8 mg/kg n=36	R- <u>DXd</u> 5.6 mg/kg n=36	R- <u>DXd</u> 6.4 mg/kg n=35	R- <u>DXd</u> 4.8–6.4 mg/kg N=107
Any TEAE, n (%)	35 (97.2)	36 (100)	35 (100)	106 (99.1)
Grade ≥3	16 (44.4)	20 (55.6)	20 (57.1)	56 (52.3)
Any treatment-related TEAE, n (%)	32 (88.9)	34 (94.4)	34 (97.1)	100 (93.5)
Grade ≥3	10 (27.8)	11 (30.6)	17 (48.6)	38 (35.5)
Grade 5	0	0	0	0
Any SAE, n (%)	14 (38.9)	12 (33.3)	14 (40.0)	40 (37.4)
Grade ≥3	13 (36.1)	10 (27.8)	11 (31.4)	34 (31.8)
Grade 5	3 (8.3) ^a	2 (5.6)b	1 (2.9)°	6 (5.6)
Any treatment-related SAE, n (%)	3 (8.3)	3 (8.3)	7 (20.0)	13 (12.1)
Grade ≥3	3 (8.3)	3 (8.3)	5 (14.3)	11 (10.3)
Grade 5	0	0	0	0
Dose modifications associated with treatment-related TEAEs, d n (%)				
Drug discontinuation	3 (8.3)	0	3 (8.6)	6 (5.6)
Dose reduction	5 (13.9)	4 (11.1)	11 (31.4)	20 (18.7)
Dose delay	8 (22.2)	7 (19.4)	10 (28.6)	25 (23.4)
ILD/pneumonitis adjudicated as treatment <u>related.</u> n (%)				
Any grade	1 (2.8)	1 (2.8)	2 (5.7)	4 (3.7)
Grade ≥3	1 (2.8) ^f	0	0	1 (0.9)
Grade 5	0	0	0	0

The safety profile of the 4.8 and 5.6 mg/kg cohorts were similar.

Treatment-related TEAEs occurred more frequently in the 6.4 mg/kg cohort (vs 4.8 and 5.6 mg/kg cohorts)

Data cutoff: February 26, 2025.

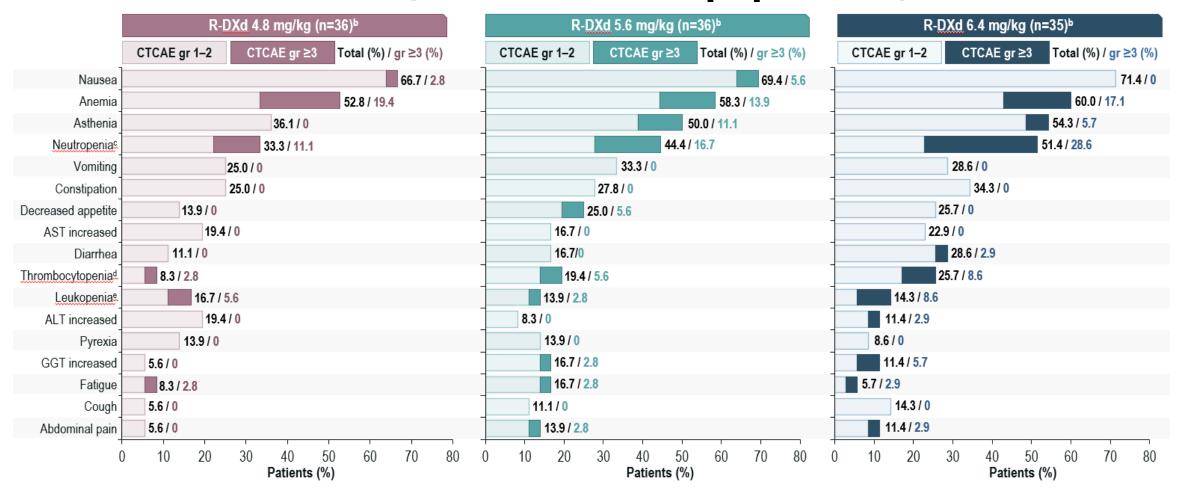
Reported safety events are defined using MedDRA Preferred Terms and CTCAE criteria.

^aGrade 5 events were hepatic failure, ovarian cancer, and malignant neoplasm progression. ^bGrade 5 events were ovarian cancer and aspiration. ^cGrade 5 event was influenza infection. ^dDose modifications associated with treatment-related TEAEs defined as: dose discontinuation, no subsequent administration of R-DXd; dose reduction, R-DXd dose was reduced at next administration; dose delay, study drug was not administered at the next scheduled cycle but was administered at a later date. ^eILD/pneumonitis events were adjudicated by an independent ILD adjudication committee. ^fILD/pneumonitis Grade ≥3 event (adjudicated as treatment related) was grade 3. CTCAE, Common Terminology Criteria for Adverse Events; ILD, interstitial lung disease; MedDRA, Medical Dictionary for Regulatory Activities; SAE, serious adverse event; TEAE, treatment-emergent adverse event.

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Most common TEAEs (≥10% of overall population)^a



Nausea, anemia, asthenia and neutropenia were the most common TEAEs across all doses

Data cutoff: February 26, 2025.

TEAEs reported in ≥10% of all patients who received R-DXd 4.8–6.4 mg/kg. Reported safety events are defined by MedDRA preferred terminology. bGrade 4 hematologic TEAEs reported at 4.8 mg/kg: neutropeniac (n=2), thrombocytopeniad (n=1); at 5.6 mg/kg: neutropeniac (n=2), thrombocytopeniad (n=1), lymphopenia (n=1). No grade 5 hematologic TEAEs were reported at any dose. Grade 3 febrile neutropenia was reported in 2 patients, one each in the R-DXd 5.6 and 6.4 mg/kg cohorts. Neutropenia was defined as the grouped incidence of events reported under the preferred terms 'neutropenia' and 'neutrophil count decreased', with a maximum of one event per patient per grouped preferred term. Thrombocytopenia was defined as the grouped incidence of events reported under the preferred terms 'thrombocytopenia' and 'platelet count decreased', with a maximum of one event per patient per grouped preferred term. Leukopenia was defined as the preferred term 'white blood cell count decreased.'

ALT, alanine aminotransferase; AST, aspartate aminotransferase; CTCAE, Common Terminology Criteria for Adverse Events; GGT, gamma-glutamyltransferase; MedDRA, Medical Dictionary for Regulatory Activities; TEAE, treatment-emergent adverse event.



Conclusions

- In this dose-optimization analysis, 107 patients with platinum-resistant OC received R-DXd at doses of 4.8–6.4 mg/kg
 - In total, 94.1% of <u>tumors</u> demonstrated positive CDH6 membrane expression by IHC
- After a minimum of 18 weeks of follow-up, R-DXd demonstrated promising efficacy across all evaluated doses:
 - The confirmed ORR was 50.5%, including three CRs (2.8%)
 - Clinically meaningful tumor responses were observed across a range of CDH6 expression levels
 - Further follow-up is required to obtain mature data on DOR and PFS
- The safety profile of R-DXd appears manageable and is consistent with the safety findings reported in the Phase 1 study^{1,2}
 - One adjudicated treatment-related Grade ≥3 ILD event (Grade 3) was reported in this analysis
- Based on these efficacy and safety results, as well as PK and ER data,³ R-DXd 5.6 mg/kg provided a positive benefit-risk profile and was considered the optimal dose
- The Phase 3 part of the REJOICE-Ovarian01 study will evaluate R-DXd 5.6 mg/kg versus treatment of physician's choice in patients with platinum-resistant OC



DS-3939, a tumor-associated mucin 1 (TA-MUC1)—directed antibody—drug conjugate, in patients with advanced/metastatic solid tumors: Initial results from a first-in-human study

Manish R. Patel,¹ Toshihiko Doi,² Noboru Yamamoto,³ Ignacio Garrido-Laguna,⁴ Satoshi Nishioka,⁵ Sutan Wu,⁵ Christian Ostheimer,⁵ Keiko Nakajima,⁵ Benedito A. Carneiro⁶

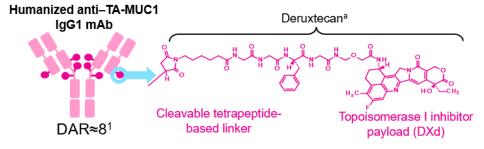
¹Sarah Cannon Research Institute at Florida Cancer Specialists, Sarasota, FL, USA; ²National Cancer Center Hospital East, Kashiwa, Japan; ³National Cancer Center Hospital, Tokyo, Japan; ⁴Huntsman Cancer Institute at the University of Utah, Salt Lake City, UT, USA; ⁵Daiichi Sankyo, Inc., Basking Ridge, NJ, USA; ⁶Legorreta Cancer Center at Brown University, Providence, RI, USA.

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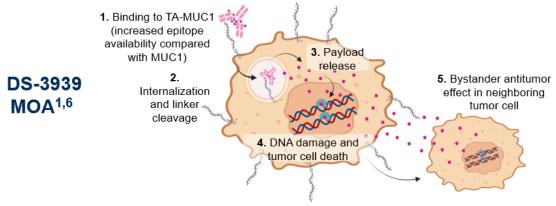


DS-3939: Novel TA-MUC1-directed ADC with significant preclinical activity

• **DS-3939** was designed with 3 components^{1–5}:



 DS-3939 specifically binds to TA-MUC1 by recognizing both its glycan and backbone peptide moieties, promoting high payload delivery into tumor cells^{1-3,6}

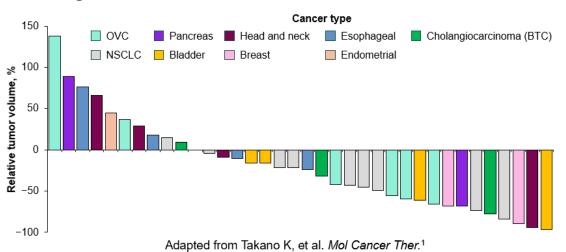


Created with BioRender.com. Adapted from Yukiura M, et al. AACR 2024.6

Preclinical activity of DS-3939

- DS-3939 has exhibited significant antitumor effects in multiple TA-MUC1-positive preclinical CDX and PDX models, including in OVC, PDAC, NSCLC, BC, UC, and BTC¹
- DS-3939 exhibited antitumor effects in bladder PDX and TNBC PDX models following treatment with other cytotoxic ADCs¹

Tumor regression was exhibited in 25/36 PDX models treated with DS-39391



^aRefers to the linker and payload.

ADC, antibody–drug conjugate; BC, breast cancer; BTC, biliary tract cancer; CDX, cell-derived xenograft; DAR, drug-to-antibody ratio; IgG1, immunoglobulin G1; mAb, monoclonal antibody; MOA, mechanism of action; NSCLC, non-small cell lung cancer; OVC, ovarian cancer; PDAC, pancreatic ductal adenocarcinoma; PDX, patient-derived xenograft; TA-MUC1, tumor-associated mucin 1; TNBC, triple-negative breast cancer; UC, urothelial carcinoma.

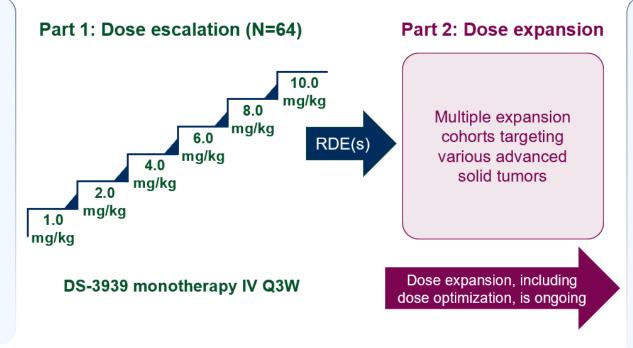
^{1.} Takano K, et al. Mol Cancer Ther. Published online July 10, 2025. 2. Danielczyk A, et al. Cancer Immunol Immunother. 2006;55:1337–1347. 3. Fan XN, et al. Pathol Res Pract. 2010;206:585–589. 4. Nakada T, et al. Bioorg Med Chem Lett. 2016;26:1542–1545. 5. Oqitani Y, et al. Bioorg Med Chem Lett. 2016;26:5069–5072. 6. Yukiura M, et al. Oral presentation at the AACR Annual Meeting. April 5–10, 2024; San Diego, CA. Abstract 6579.



DS3939-077: First-in-human study (NCT05875168)^{1,2}

Key eligibility criteria (Part 1):

- Adults with histologically or cytologically documented locally advanced, metastatic, or unresectable solid tumors not amenable to SOC therapy
- ECOG PS 0–1
- · Adequate organ function
- No history of, current, or suspected ILD/pneumonitis
- No prior treatment targeting MUC1 or TA-MUC1
- Patients who received prior treatment with a <u>DXd</u> ADC can be eligible (Part 1 only)



Primary endpoints:

- Safety (DLTs [Part 1 only], TEAEs, SAEs)
- ORRa (Part 2 only)

Secondary endpoints:

- ORR^a (Part 1 only)
- DCR^a
- DOR^a
- TTRª.
- PFSª
- OS
- TA-MUC1 expression detected by IHC at baseline and correlation with DS-3939 efficacy
- Pharmacokinetics
- Immunogenicity

Exploratory endpoints:

- Antitumor activity by G-score
- Exposure–response relationships
- In the dose-escalation portion of this Phase 1/2 study, patients with BC, BTC, CRC, NSCLC, OVC, PDAC, and UC were enrolled due to broad TA-MUC1 expression in these cancer types
- Results from the dose-escalation portion of the study are presented here

Data cutoff: August 1, 2025.

^aBy investigator per RECIST 1.1.

ADC, antibody–drug conjugate; BC, breast cancer; BTC, biliary tract cancer; CRC, colorectal cancer; DCR, disease control rate; DLT, dose-limiting toxicity; DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; IHC, immunohistochemistry; ILD, interstitial lung disease; IV, intravenous; MUC1, mucin 1; NSCLC, non-small cell lung cancer; ORR, objective response rate; OS, overall survival; OVC, ovarian cancer; PDAC, pancreatic ductal carcinoma; PFS, progression-free survival; Q3W, once every 3 weeks; RDE, recommended dose for expansion; RECIST 1.1, Response Evaluation Criteria in Solid Tumours, version 1.1; SAE, serious adverse event; SOC, standard-of-care; TA-MUC1, tumor-associated mucin 1; TEAE, treatment-emergent adverse event; TTR, time to response; UC, urothelial carcinoma.



DS-3939: Baseline Characteristics and Disposition

- At the August 1, 2025 data cutoff, 64 patients had been enrolled and received treatment with DS-3939, with a median follow-up of 8.8 months (range, 0.6–22.9)
- ~Two-thirds of patients had an ECOG PS of 1 (62.5%), over half of patients had ≥3 prior LOTs in the locally advanced/metastatic setting (53.1%), and over one-third of patients had treatment with prior topoisomerase I inhibitors (37.5%)
- 15/64 patients (23.4%) had ongoing DS-3939 treatment; 49/64 patients (76.6%) discontinued treatment, including 34/64 (53.1%) due to clinical or disease progression and 13/64 (20.3%) due to <u>TEAEs</u>a

DS-3939 dose, mg/kg	1.0 (n=3)	2.0 (n=3)	4.0 (n=19)	6.0 (n=17)	8.0 (n=21)	10.0 (n=1)	Total (N=64)
Age, median (range), years	68.0 (66–69)	56.0 (52-64)	66.0 (32-82)	66.0 (46-78)	64.0 (39-79)	52.0 (52-52)	64.5 (32-82)
Male sex, n (%)	2 (66.7)	0	10 (52.6)	6 (35.3)	15 (71.4)	1 (100)	34 (53.1)
ECOG PS, n (%)							
0	1 (33.3)	3 (100)	4 (21.1)	5 (29.4)	10 (47.6)	1 (100)	24 (37.5)
1	2 (66.7)	0	15 (78.9)	12 (70.6)	11 (52.4)	0	40 (62.5)
Primary diagnosis, n (%)							
BC	0	0	3 (15.8)	2 (11.8)	0	0	5 (7.8)
BTC	1 (33.3)	0	1 (5.3)	0	5 (23.8)	0	7 (10.9)
CRC	0	0	5 (26.3)	0	2 (9.5)	0	7 (10.9)
NSCLC	0	0	6 (31.6)	9 (52.9)	1 (4.8)	0	16 (25.0)
OVC	0	3 (100)	1 (5.3)	2 (11.8)	2 (9.5)	0	8 (12.5)
PDAC	2 (66.7)	0	1 (5.3)	2 (11.8)	7 (33.3)	0	12 (18.8)
UC	0	0	2 (10.5)	2 (11.8)	4 (19.0)	1 (100)	9 (14.1)
Prior LOTs for locally adv/met disease, median (range)	2.0 (1–3)	4.0 (3–8)	2.0 (1–8)	4.0 (1–17)	3.0 (1–8)	3.0 (3-3)	3.0 (1–17)
1, n (%)	1 (33.3)	0	6 (31.6)	3 (17.6)	3 (14.3)	0	13 (20.3)
2, n (%)	1 (33.3)	0	7 (36.8)	4 (23.5)	5 (23.8)	0	17 (26.6)
3, n (%)	1 (33.3)	1 (33.3)	2 (10.5)	1 (5.9)	3 (14.3)	1 (100)	9 (14.1)
≥4, n (%)	0	2 (66.7)	4 (21.1)	9 (52.9)	10 (47.6)	0	25 (39.1)
Prior topoisomerase I inhibitor, ^b n (%)	3 (100)	0	8 (42.1)	4 (23.5)	9 (42.9)	0	24 (37.5)
Treatment duration, median (range), months	1.4 (1.4–2.1)	9.4 (5.6–17.3)	3.2 (1.4–14.5)	3.5 (0.7–14.8)	3.4 (0.7–10.8)	4.7 (4.7-4.7)	3.4 (0.7–17.3)
DS-3939 treatment ongoing, n (%)	0	1 (33.3)	4 (21.1)	4 (23.5)	6 (28.6)	0	15 (23.4)

Data cutoff: August 1, 2025.

alncluded investigator-reported pneumonitis (n=9), cough (n=2), cerebrovascular accident (n=1), and intracranial hemorrhage (n=1). Included 20 patients who received irinotecan, 2 patients who received trastuzumab deruxtecan, and 2 patients who received both trastuzumab deruxtecan and sacituzumab govitecan.

Adv/met, advanced/metastatic; BC, breast cancer; BTC, biliary tract cancer; CRC, colorectal cancer; ECOG PS, Eastern Cooperative Oncology Group performance status; LOT, line of therapy; NSCLC, non-small cell lung cancer; OVC, ovarian cancer; PDAC, pancreatic ductal adenocarcinoma; TEAE, treatment-emergent adverse event; UC, urothelial carcinoma.



DS-3939: Safety summary

DS-3939 dose, mg/kg	1.0 (n=3)	2.0 (n=3)	4.0 (n=19)	6.0 (n=17)	8.0 (n=21)	10.0 (n=1)	Total (N=64)
TEAEs, n with event (%)							
Any grade	3 (100)	3 (100)	18 (94.7)	17 (100)	21 (100)	1 (100)	63 (98.4)
Treatment-related	2 (66.7)	3 (100)	13 (68.4)	17 (100)	20 (95.2)	1 (100)	56 (87.5)
Grade ≥3	0	0	7 (36.8)	7 (41.2)	15 (71.4)	1 (100)	30 (46.9)
Treatment-related	0	0	3 (15.8)	5 (29.4)	13 (61.9)	1 (100)	22 (34.4)
Serious	0	0	4 (21.1)	4 (23.5)	9 (42.9)	0	17 (26.6)
Treatment-related	0	0	3 (15.8)	1 (5.9)	4 (19.0)	0	8 (12.5)
Associated with:							
Treatment discontinuation	0	1 (33.3)	4 (21.1)	2 (11.8)	6 (28.6)	0	13 (20.3)b
Treatment-related	0	1 (33.3)	3 (15.8)	2 (11.8)	5 (23.8)	0	11 (17.2)
Dose reduction	0	0	1 (5.3)	2 (11.8)	7 (33.3)	1 (100)	11 (17.2)
Treatment-related	0	0	1 (5.3)	2 (11.8)	7 (33.3)	1 (100)	11 (17.2)
Treatment interruption ^c	0	0	2 (10.5)	5 (29.4)	1 (4.8)	0	8 (12.5)
Treatment-related ^c	0	0	1 (5.3)	5 (29.4)	1 (4.8)	0	7 (10.9)
Treatment delayd	0	0	5 (26.3)	9 (52.9)	8 (38.1)	1 (100)	23 (35.9)
Treatment-relatedd	0	0	4 (21.1)	6 (35.3)	7 (33.3)	1 (100)	18 (28.1)
Death	0	0	1 (5.3)	0	2 (9.5)	0	3 (4.7)
Treatment-related	0	0	0	0	1 (4.8)	0	1 (1.6)
DLTs	0	0	1 (5.3)	1 (5.9)	2 (9.5) ^a	0	4 (6.3)a

- Any-cause and treatment-related TEAEs reported in 63/64 (98.4%) and 56/64 (87.5%) patients, respectively
- Doses of ≥8 mg/kg associated with higher rates of dose reduction and treatment discontinuation
 - 6 mg/kg was determined as the RDE
- DLTs reported in 4/64 patients (6.3%)^a
 - Grade 3 anemia needing transfusion (4.0 mg/kg)
 - Grade 3 abdominal pain (6.0 mg/kg)
 - Grade 4 decreased platelet count (8.0 mg/kg)
- Treatment discontinuations^b and interruptions^c were primarily due to ILD/pneumonitis and IRRs, respectively

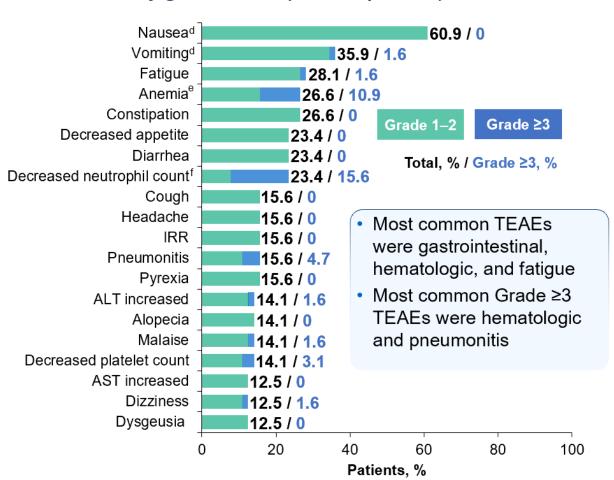
Data cutoff: August 1, 2025.

^aAn event of Grade 1 malaise was reported as a DLT but was later confirmed as a data entry error. ^bIncluded investigator-reported pneumonitis (n=2), cough (n=2), cerebrovascular accident (n=1), and intracranial hemorrhage (n=1). ^cTreatment interruption: study drug infusion was temporarily stopped and then restarted during the same study visit/dosing cycle. ^dTreatment delay: study drug was not administered at the scheduled cycle/dosing visit but was administered at a later date. DLT, dose-limiting toxicity; ILD, interstitial lung disease; IRR, infusion-related reaction; RDE, recommended dose for expansion; TEAE, treatment-emergent adverse event.

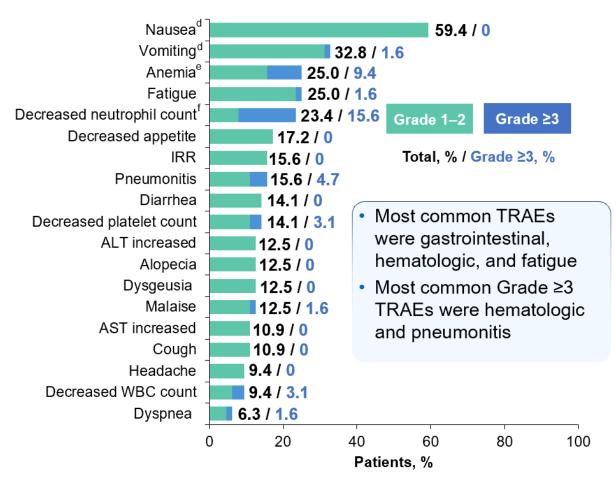


DS-3939: Most common TEAEs and TRAEs

Any-grade TEAEs (≥12% of patients)a.b.



Any-grade TRAEs (≥5% of patients)^{b,c}



Data cutoff: August 1, 2025.

aTEAEs occurring at any grade in ≥12% of patients and Grade ≥3 TEAEs occurring for those preferred terms in the overall population (N=64). bAdverse events were coded using the MedDRA dictionary, Version 28.0. TRAEs occurring at any grade in ≥5% of patients and Grade ≥3 TRAEs occurring for those preferred terms in the overall population (N=64). dPremedication for the prevention of nausea and vomiting was required before each dose of DS-3939. There were no Grade ≥4 anemia events. functionally fu



DS-3939: Majority of ILD and IRR events were Grade 1 or 2

Adjudicated treatment-related ILD/pneumonitis

DS-3939 dose, mg/kg	1.0 (n=3)	2.0 (n=3)	4.0 (n=19)	6.0 (n=17)	8.0 (n=21)	10.0 (n=1)	Total (N=64)
Events, n (%)							
Any grade	0	1 (33.3)	2 (10.5)	0	4 (19.0)	0	7 (10.9)
Grade 1	0	0	0	0	0	0	0
Grade 2	0	1 (33.3)	1 (5.3)	0	4 (19.0)	0	6 (9.4)
Grade 3	0	0	1 (5.3)	0	0	0	1 (1.6)
Grade ≥4	0	0	0	0	0	0	0

- Adjudicated treatment-related ILD/pneumonitis reported in 7/64 patients (10.9%)
 - Per protocol, DS-3939 was permanently discontinued for Grade ≥2 ILD/pneumonitis
 - Median time to onset of adjudicated treatmentrelated ILD/pneumonitis was 68 days
 - Post data cutoff: 2/4 ILD cases previously pending adjudication were adjudicated as Grade 5; 2 cases still pending adjudication

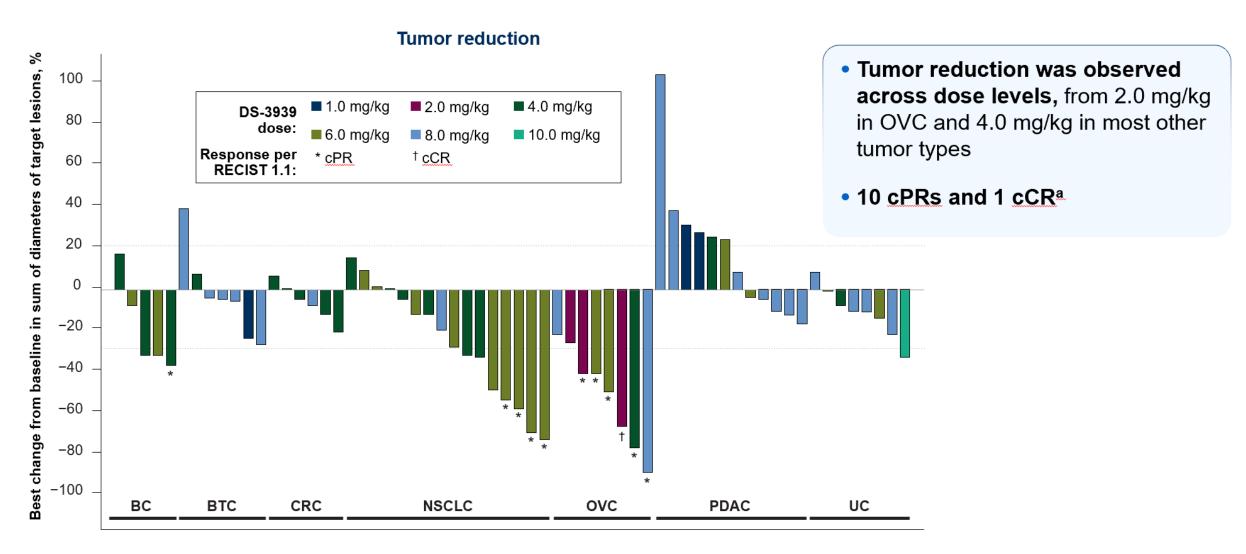
IRRs

DS-3939 dose, mg/kg	1.0 (n=3)	2.0 (n=3)	4.0 (n=19)	6.0 (n=17)	8.0 (n=21)	10.0 (n=1)	Total (N=64)
Events, n (%)							
Any grade	0	1 (33.3)	1 (5.3)	6 (35.3)	2 (9.5)	0	10 (15.6)
Grade 1	0	1 (33.3)	0	2 (11.8)	1 (4.8)	0	4 (6.3)
Grade 2	0	0	1 (5.3)	4 (23.5)	1 (4.8)	0	6 (9.4)
Grade 3	0	0	0	0	0	0	0
Grade ≥4	0	0	0	0	0	0	0

- IRRs reported in 10/64 patients (15.6%)
 - No Grade ≥3 events
 - No treatment discontinuations due to IRRs
 - Infusion interrupted due to IRRs in 6/64 patients (9.4%)
 - 7 patients (10.9%) experienced IRRs during
 Cycle 1; for most of those patients, IRR did not reoccur later in treatment



DS-3939: Tumor reductions across doses: 10 cPRs and 1 cCR



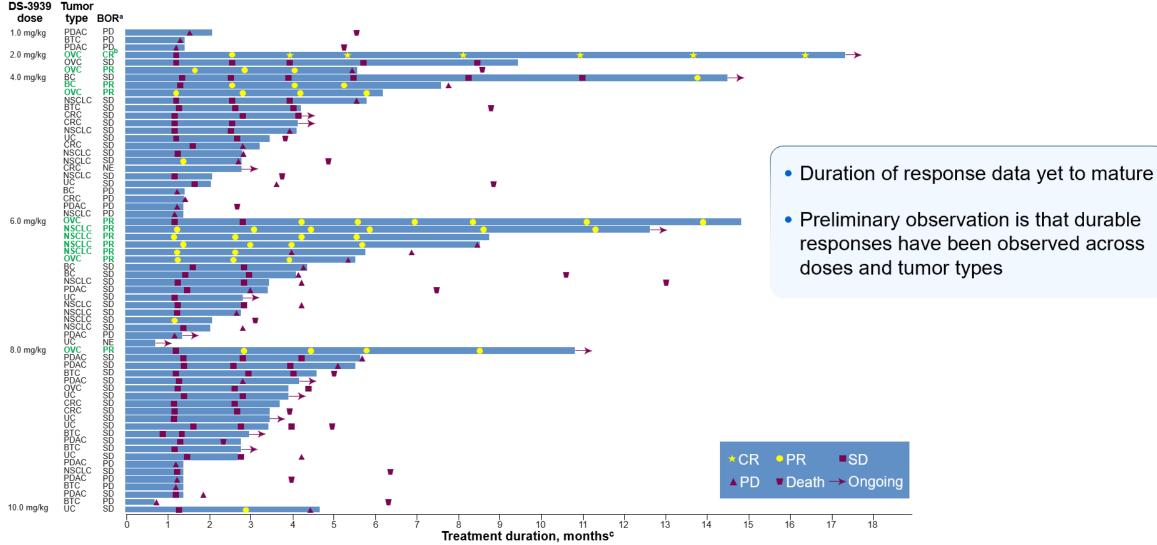
Data cutoff: August 1, 2025. Median follow-up: 8.8 months (range, 0.6-22.9).

^aThe patient with cCR had lymph nodes only as target lesion.

BC, breast cancer; BTC, biliary tract cancer; cCR, confirmed complete response; cPR, confirmed partial response; CRC, colorectal cancer; NSCLC, non-small cell lung cancer; OVC, ovarian cancer; PD, progressive disease; PDAC, primary ductal adenocarcinoma; RECIST 1.1, Response Evaluation Criteria in Solid Tumours, version 1.1; SD, stable disease; UC, urothelial carcinoma.



DS-3939: Treatment duration across tumor types



Data cutott: August 1, 2025. Median tollow-up: 8.8 months (range, 0.6-22.9).

^aBOR per RECIST 1.1; CRs and PRs were confirmed. ^bThe patient had lymph nodes only as the target lesion. ^cTreatment duration (months) was calculated as (date of the last dose-date of the first dose+21)/30.4375. For patients who were still on treatment at the data cutoff date, the most recent available date of administered dose was used.

BC, breast cancer; BOR, best overall response; BTC, biliary tract cancer; CR, complete response; CRC, colorectal cancer; NE, not evaluable; NSCLC, non-small cell lung cancer; OVC, ovarian cancer; PD, progressive disease; PDAC, pancreatic ductal adenocarcinoma; 68 PR, partial response; RECIST 1.1, Response Evaluation Criteria in Solid Tumours, version 1.1; SD, stable disease; UC, urothelial carcinoma.



DS-3939: Conclusions

Preliminary data from the novel TA-MUC1 ADC DS-3939 FIH study, DS3939-077, show:

- A manageable safety profile in patients with previously treated advanced/metastatic solid tumors
 - -Most common TRAEs were gastrointestinal, hematologic, and fatigue; most were Grade 1 or 2
 - Adjudicated treatment-related ILD/pneumonitis was reported in 7/64 patients (10.9%); most were Grade 2^a
 - -IRRs in 10/64 patients (15.6%); all were Grade 1 or 2
- DS-3939 demonstrated promising preliminary antitumor activity across dose levels and tumor types in previously treated patients
- Dose expansion and optimization are ongoing; patients with various tumor types are being enrolled



Agenda

- 1 Welcome message
- 2 Highlights from ESMO 2025
- **3** Q&A





Contact address regarding this material

Daiichi Sankyo Co., Ltd.

Corporate Communications Department

TEL: +81-3-6225-1125

Email: DaiichiSankyolR_jp@daiichisankyo.com