French real-world safety and effectiveness of trastuzumab deruxtecan (T-DXd) in the treatment of patients with HER2+ metastatic or unresectable breast cancer (m/u BC): first results of REALITY-01 ambispective study

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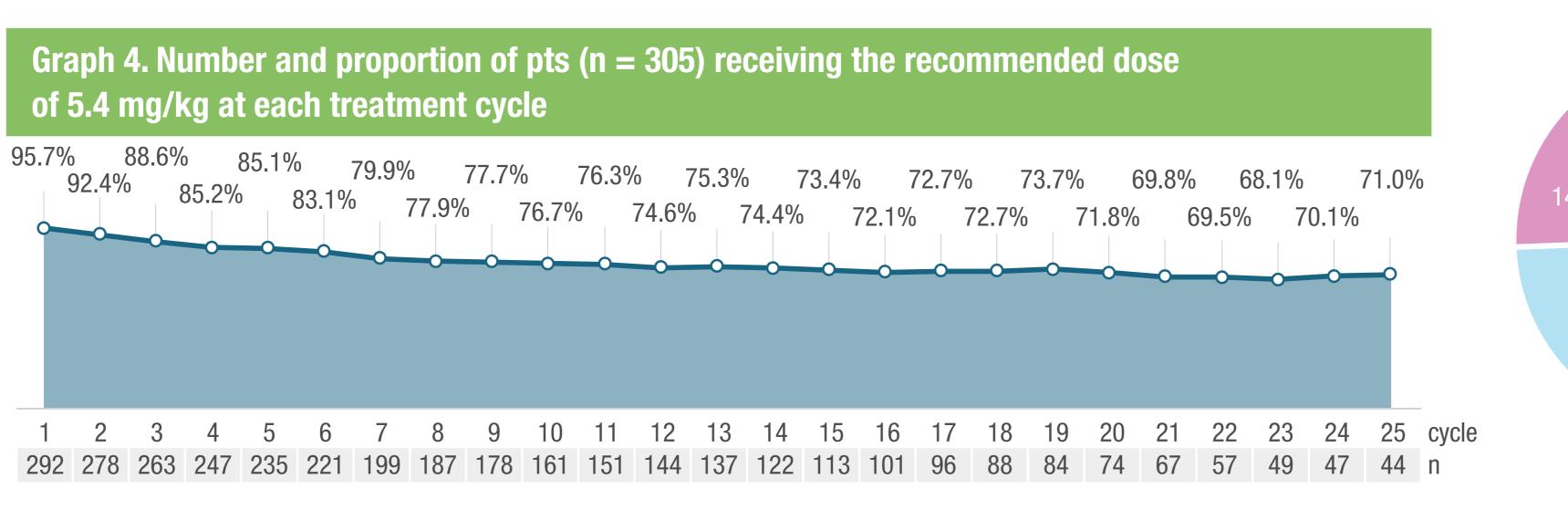
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BACKGROUND AND OBJECTIVES

- Despite global therapeutic advancements, there is still a medical need to improve progression-free survival (PFS), OS and quality of life (QoL) in patients (pts) with HER2+ mBC. Unfortunately, attrition rate shows that pts are at risk to not benefit from latest therapeutic options in later lines¹.
- T-DXd emerged as a promising treatment (tx) for pts with HER2+ m/u BC. This antibody-drug conjugate (ADC) is composed of an HER2-directed antibody and a topoisomerase I inhibitor linked by a cleavable tetrapeptide-based linker.
- DESTINY-Breast01 demonstrated T-DXd efficacy in pts with HER2+ mBC who were previously treated with trastuzumab emtansine (T-DM1) in terms of overall response rate (ORR) (62%), median (PFS) (19.4 months (mo)) and overall survival (OS) (29.1 mo)². DESTINY-Breast02 reinforces these study's results and highlighted the favorable benefit-risk profile of T-DXd which can overcome resistance to previous ADC³ (i.e. T-DM1) while maintaining a relatively low rate of T-DXd-related serious ADR (11.4%).
- In France, results from previous studies (DESTINY-Breast01 and 02) facilitated access of T-DXd to eligible pts before the Marketing Authorization (MA) through a Temporary Authorization for Use (Autorisation Temporaire d'Utilisation; ATU) program as monotherapy for the treatment of pts with HER2-positive m/u BC after ≥ 2 prior lines of anti-HER2 tx.
- This REALITY-01 study aims to fill gaps with real-world data for HER2+ m/u BC pts of both cohorts (during ATU and after MA) with T-DXd tx.

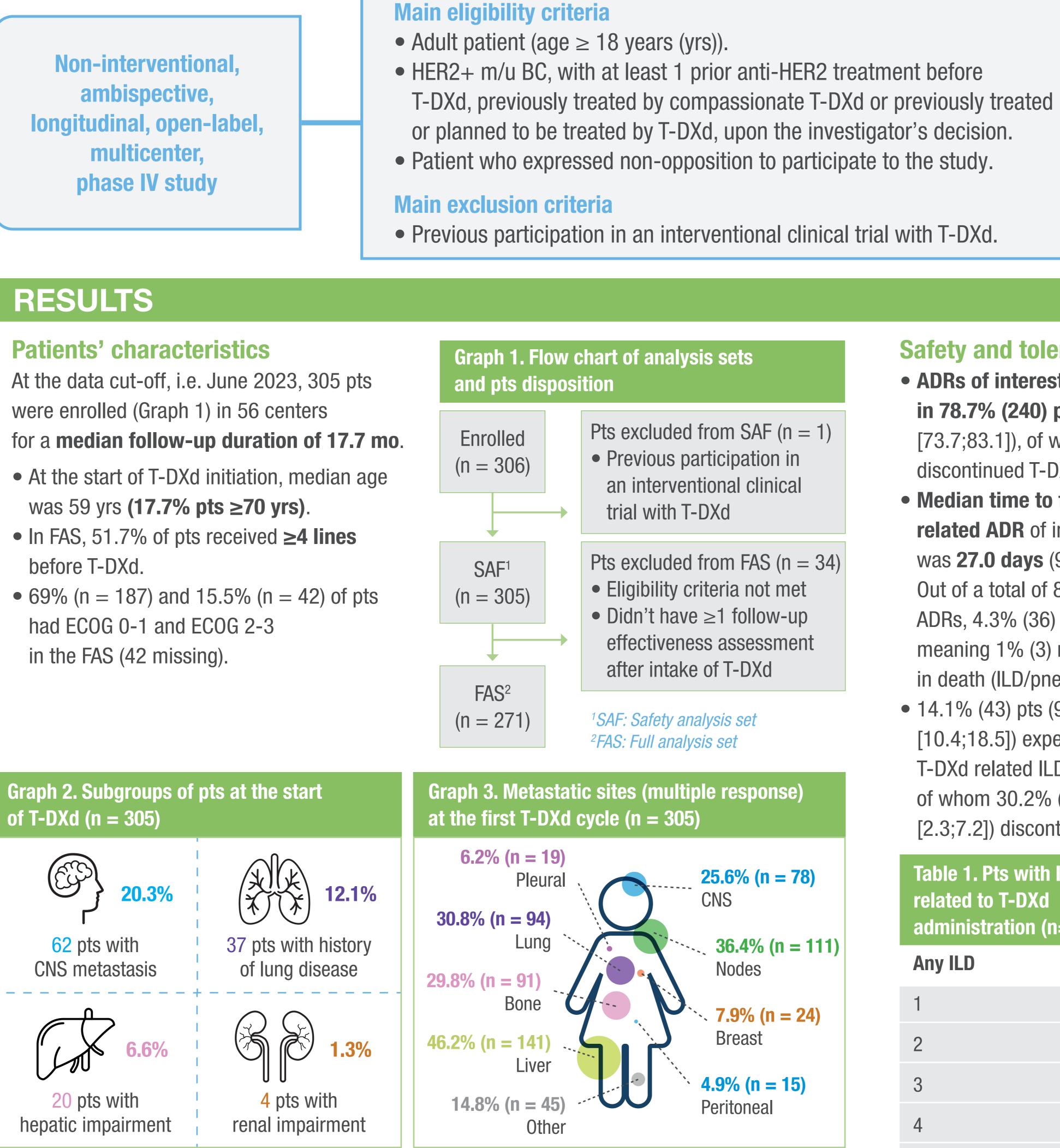
CONCLUSION

- The safety (10.2% of T-DXd-related discontinuation), the median PFS (17.4 mo) and the ORR (49.7%) in the full analysis set are consistent with results in DESTINY-Breast01/02. In the same way, among both cohorts, only 9.5% pts had serious T-DXd-related ADRs underlying the positive benefit-risk profile of T-DXd. This shows the importance of prompt adverse events management.
- REALITY-01 confirm the safety and effectiveness of T-DXd in heavily pre-treated HER2+ m/u BC pts with or without mCNS and are consistent with **DESTINY-Breast01/02** results.



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METHODS



T-DXd Treatment exposure (n = 305)

- Median duration of T-DXd treatment was 12.5 mo (range, 0.7-30.0).
- Median number of cycles of T-DXd received per patient was 15.0 (range, 1-39).
- 58 pts are still ongoing the treatment and 36 pts completed the study per protocol.

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52.8%

21.6%

Safety and tolerability (n = 305)

 ADRs of interest were reported in 78.7% (240) pts (95% Cl [73.7;83.1]), of whom 12.9% (31) discontinued T-DXd tx. Median time to first T-DXd related ADR of interest was **27.0 days** (95% CI [22.0;44.0]). Out of a total of 843 T-DXd-related ADRs, 4.3% (36) were serious, meaning 1% (3) resulted in death (ILD/pneumonitis). 14.1% (43) pts (95% CI [10.4;18.5]) experienced T-DXd related ILD/pneumonitis, of whom 30.2% (13), (95% Cl [2.3;7.2]) discontinued T-DXd tx.

le 1. Pts with ILD ated to T-DXd ninistration (n=305)	n(%)
ILD	43 (14.1)
	14 (4.6)
	16 (5.2)
	7 (2.3)
	0
	3 (1.0)

Dosage and duration of treatment according to the SmPC

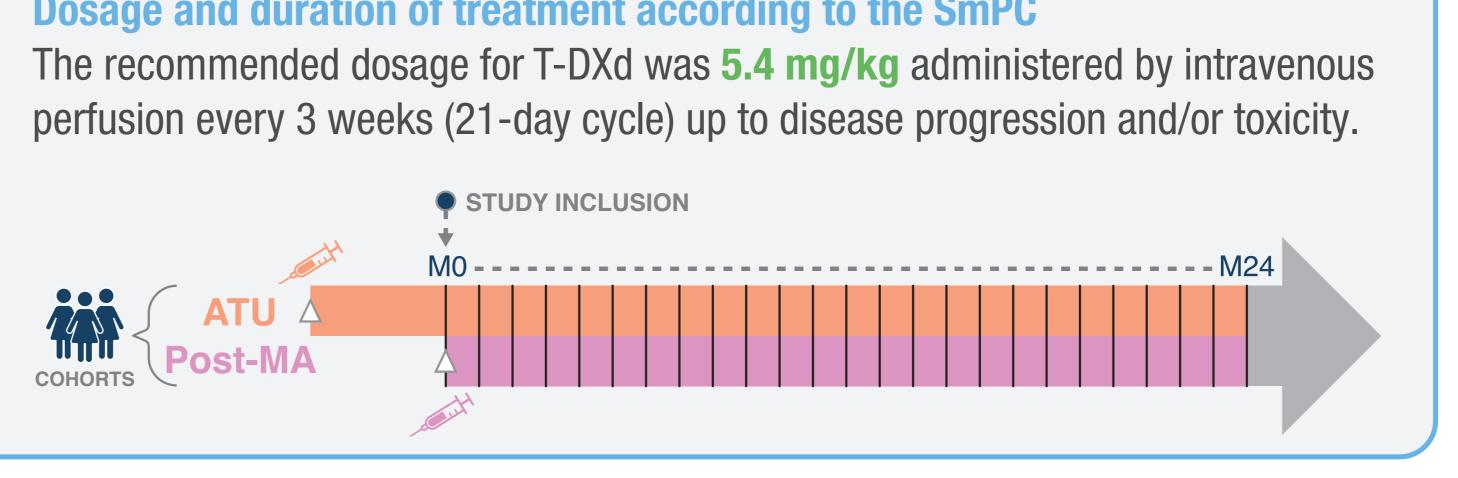


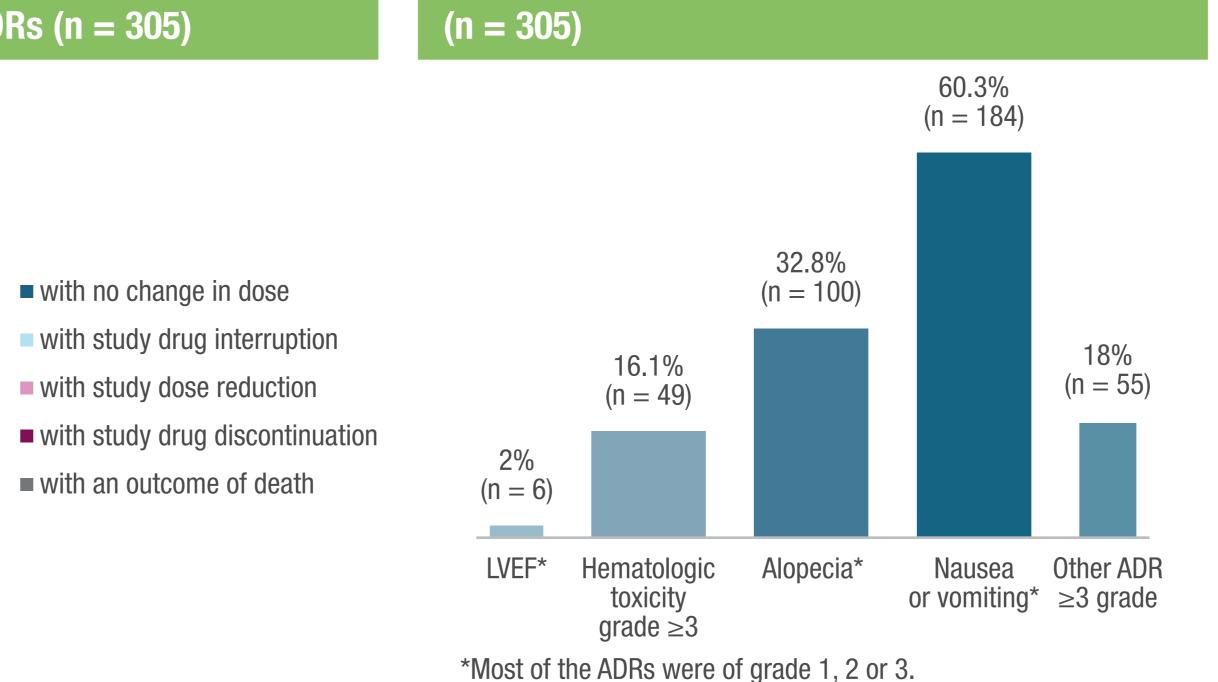
Table 2. Summary of T-DXd-related ADRs (n = 305)	n(%)
Any ADR, n(%) [95% Cl]	240 (78.7) [73.7;83.1]
Any Serious ADR, n (%)	29 (9.5)
Any grade ≥3 ADR , n (%)	103 (33.8)
Haematotoxicity	49 (16.1)
Gastrointestinal disorders	19 (6.2)
Asthenia and fatigue	16 (5,2)
Respiratory, thoracic and mediastinal disorders	12 (3.9)
Metabolism and nutrition disorders	12 (3.9)
Nervous system disorders	6 (2.0)
Infections and infestations	5 (1.6)
General physical health deterioration	4 (1.3)
Cardiac disorders	3 (1.0)
Reproductive system and breast disorders	2 (0.7)
Ejection fraction decreased	2 (0.7)

Grade \geq 3 ADRs which occurred in 1 patient each:

Gamma-GT increased, Weight decreased, Skin and subcutaneous tissue disorders, Eye inflammation, Hyperbilirubinaemia, Frostbite, Bone pain, Embolism, Oedema peripheral, Pain.

Graph 6. Proportion of patients with ADRs,

Graph 5. Treatment continuity associated with any T-DXd-related ADRs (n = 305)



References

1. Grinda, T et al. ESMO Open. 6, 100114 (2021). 2. Saura, C et al. Ann Onco. 35(3):302-307 (2024). 3. André F et al. Lancet. 401(10390):1773-1785 (2023)

Primary outcomes

Safety of T-DXd in real-life conditions as per the occurrence of :

- Gastro-intestinal disorders, Interstitial Lung Disease (ILD), left ventricular dysfunction, alopecia (any grade);
- Other grade \geq 3 Adverse Drug Reactions (ADRs).

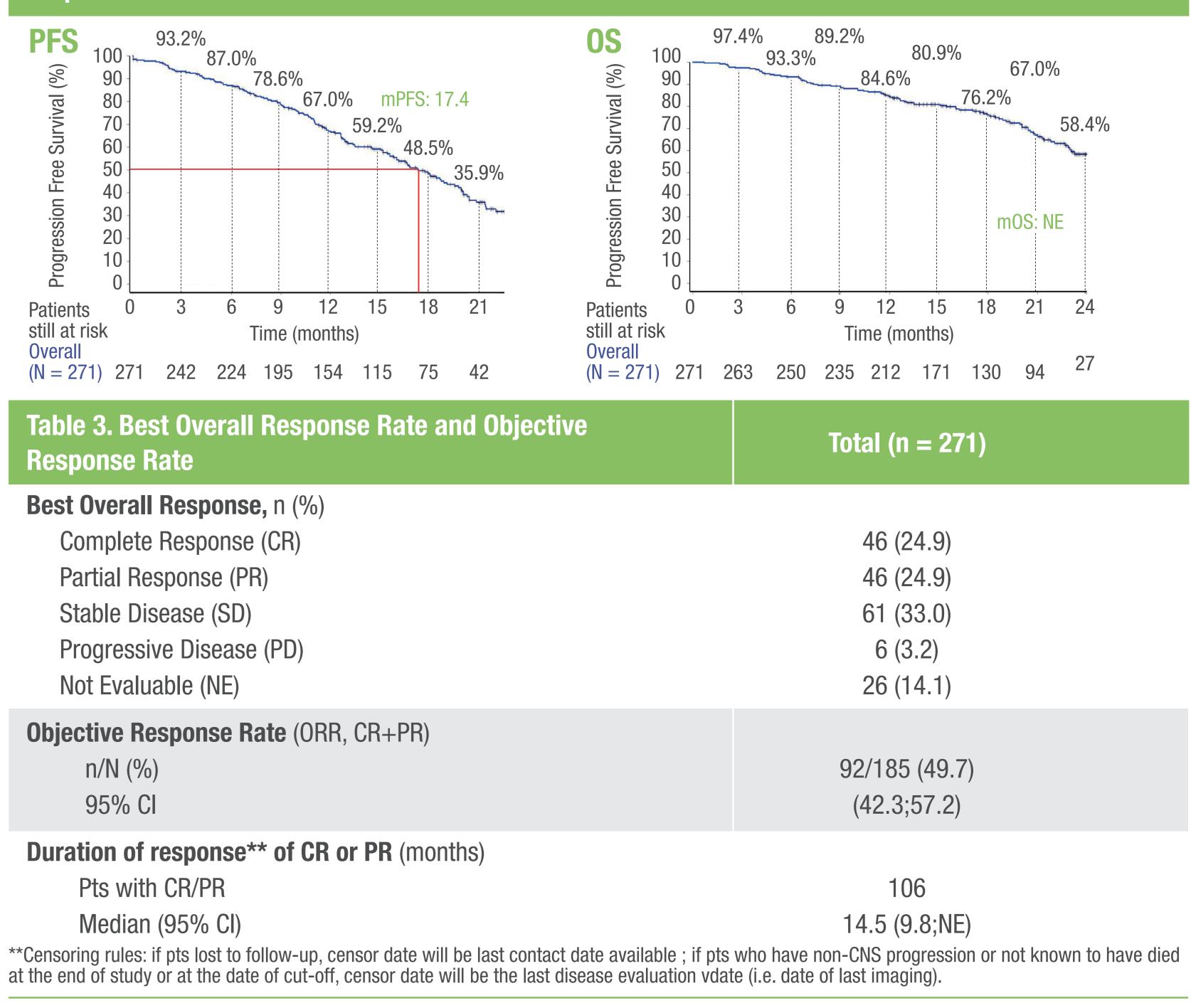
Secondary outcomes

• Risk factors for ADRs, description of patients' characteristics, description of T-DXd treatment over time, effectiveness of T-DXd in real-life conditions, HR-QoL.

Effectiveness (n = 271)

Median PFS was 17.4 mo (95% CI [15.6;19.6]). Median OS was not reached. Among the 271 pts, 185 had at least one on-treatment assessment and ORR was 49.7% (95% Cl [42.3;57.2]), including 24.9% (n = 46) of CR.

Graph 7. PFS and OS



Focus on mCNS (n = 271)

• At T-DXd initiation, 60 pts had mCNS, of which 35% (21) were symptomatic as active brain metastasis. • mCNS location was parenchymal in 73.8% (48) cases and leptomeningeal in 26.2% (17) cases, (4 missing). • Among the mCNS pts who underwent at least one on-treatment CNS assessment (n = 42), 52.4% pts (22) achieved complete or partial CNS response (CR, PR).

Table 4. Best Overall Response Rate in mCNS pts	Total (n = 42)
Best Overall Response, n (%)	
Complete Response (CR)	8 (19.1)
Partial Response (PR)	14 (33.3)
Stable Disease (SD)	19 (45.2)
Progressive Disease (PD)	1 (2.4)