

Enfermedad avanzada: Anticuerpos conjugados (ADCs)

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ADCs: entre la “bala mágica” y una “quimioterapia fashion”



450 ADCs have entered the clinic:

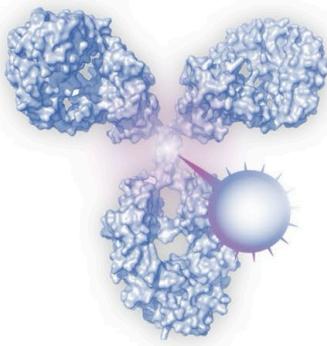
- 13 approved by US FDA
+3 additional by China NMPA
+1 additional by UK MHRA and Japan PMDA
- 271 in clinical development
- 163 discontinued

What have we learned
from this rich history?

2025 ASCO ANNUAL MEETING #ASCO25 PRESENTED BY: Patricia M. LoRusso DO, PhD (h)
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ASCO AMERICAN SOCIETY OF CLINICAL ONCOLOGY KNOWLEDGE CONQUERS CANCER

Many opportunities have been identified for optimization...



Antibody

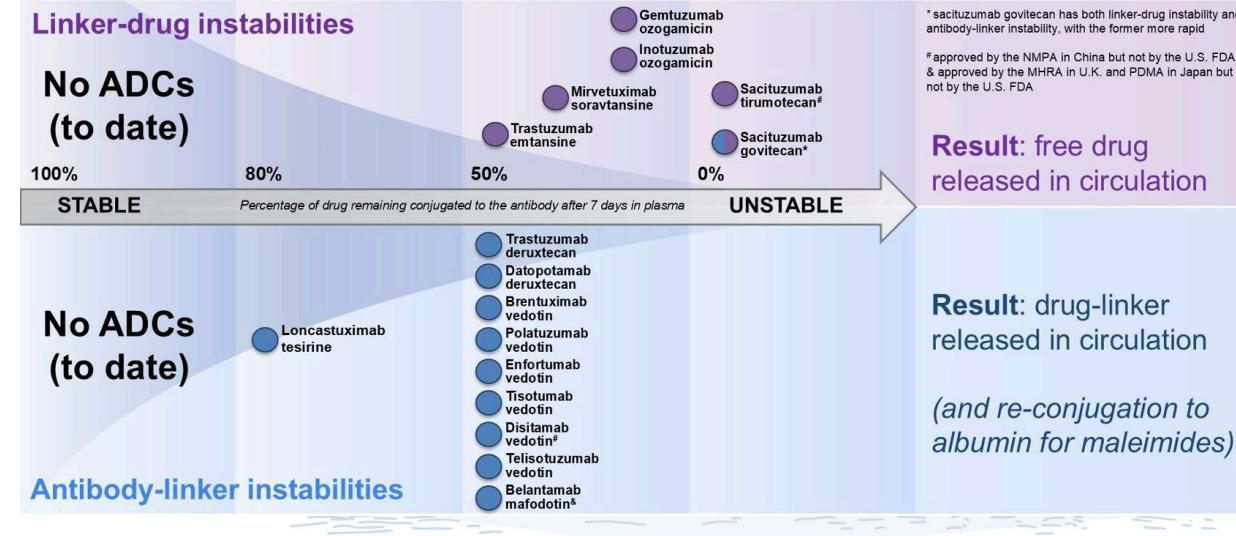
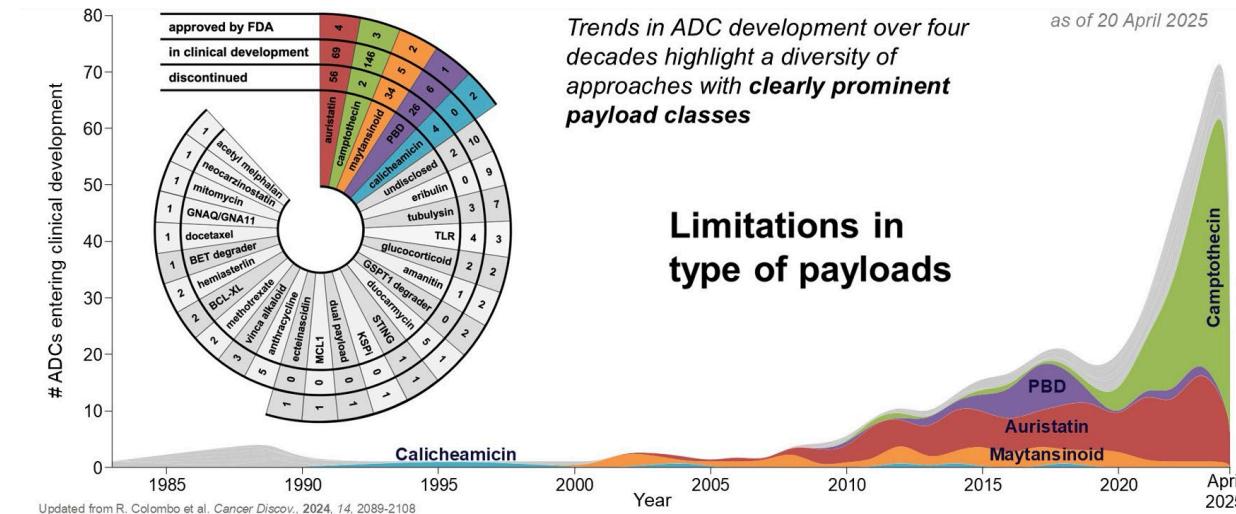
- Target binding
- Hydrophobicity
- pI/charge
- Conjugation site
- Fc-binding

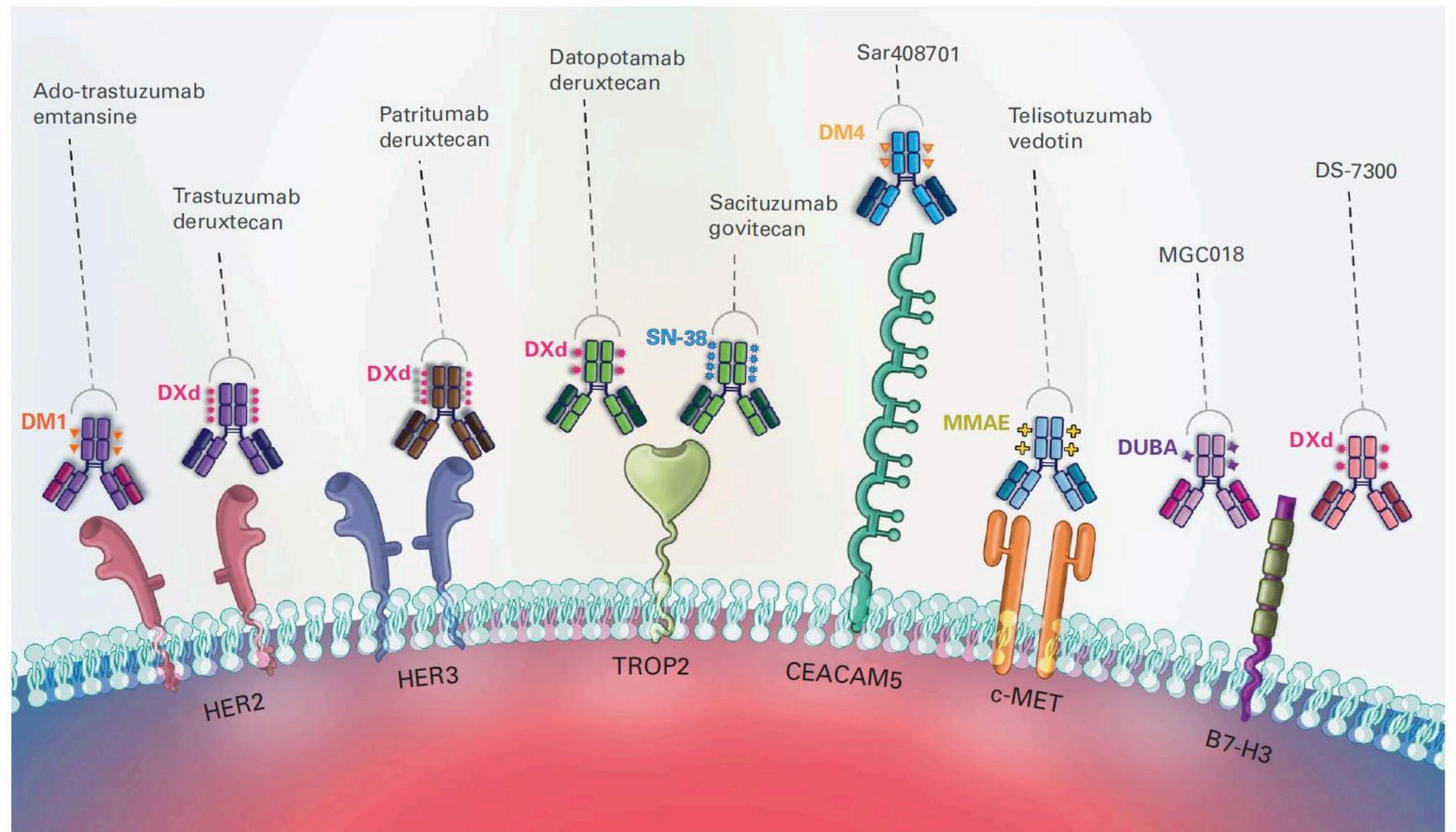
Linker

- Stability
- Cleavage
- Charge
- Bystander
- Hydrophobicity

Payload

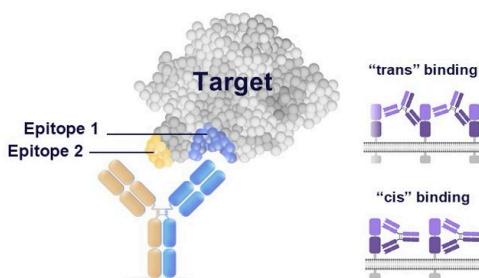
- Potency
- Mechanism
- Charge
- Hydrophobicity
- Efflux





La complejidad creciente de los ADCs

Biparatopic: bind distinct epitopes of same target antigen



- Designed for better internalization
- Could generate receptor crosslinking
- Not suitable for every target (need to engage non-overlapping epitopes of the same target antigen)

Bispecific: bind two different target antigens

Target A or target B ($A \cup B$)



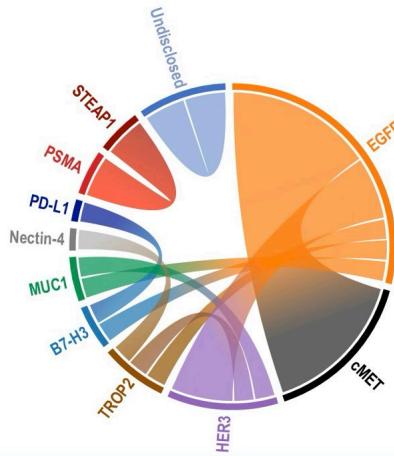
- Broader patient population
- May bypass target resistance
- Complex formats (2+2, 2+1)
- May impact PK
- Possible toxicities related to both targets

Target A and target B ($A \cap B$)

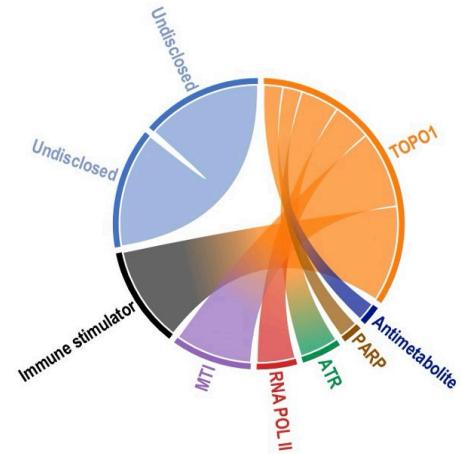


- Enhanced specificity
- Simpler formats (1+1)
- Narrow patient population
- Need co-expression and engagement to both targets

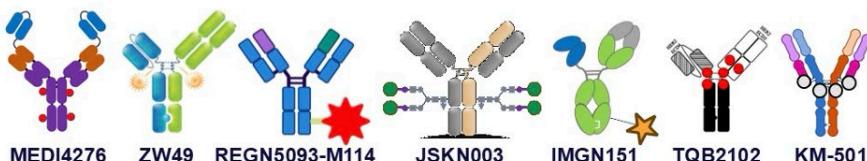
Pairs of targets used for bispecific ADCs



Pairs of payloads used in dual-payload ADCs



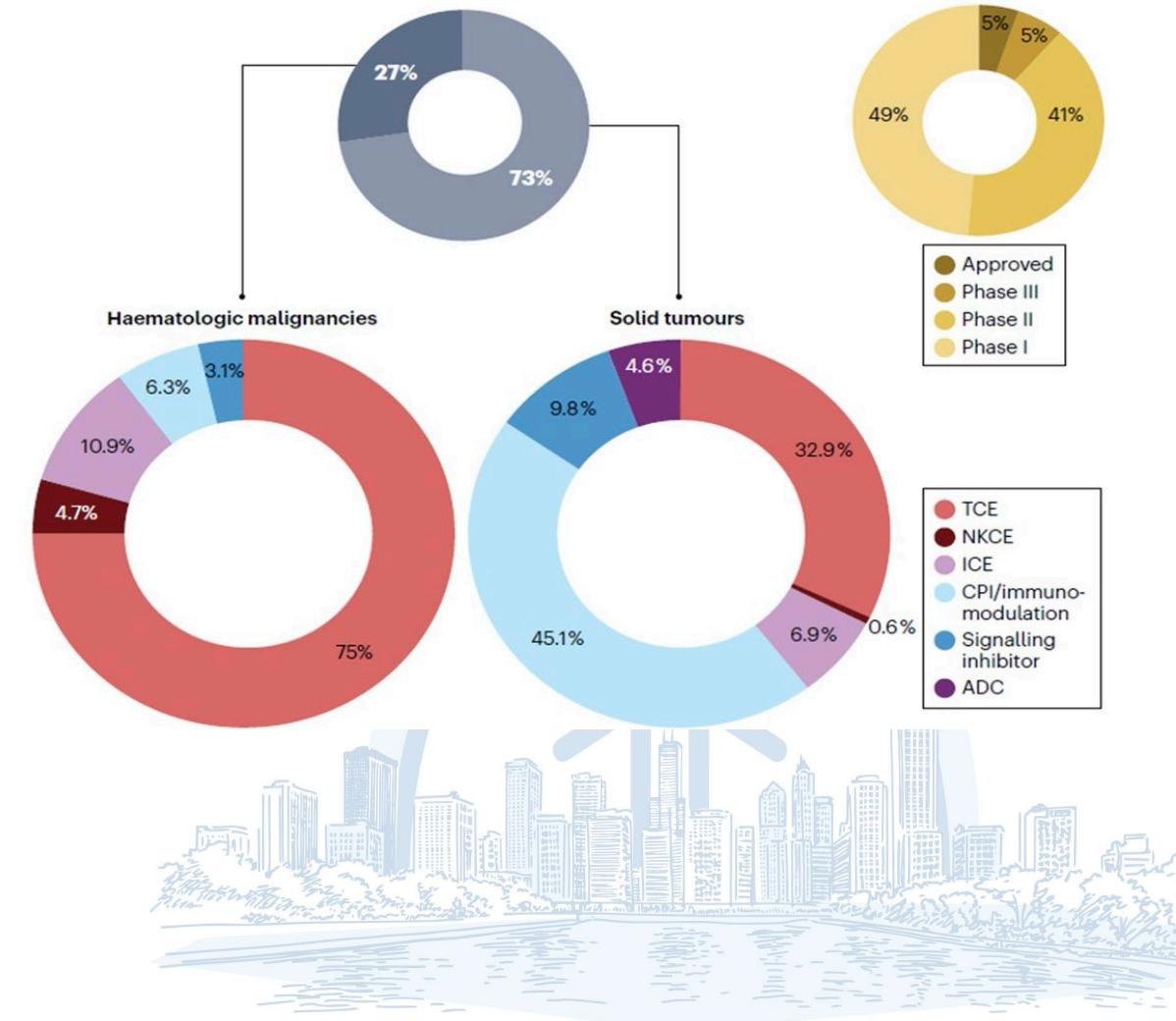
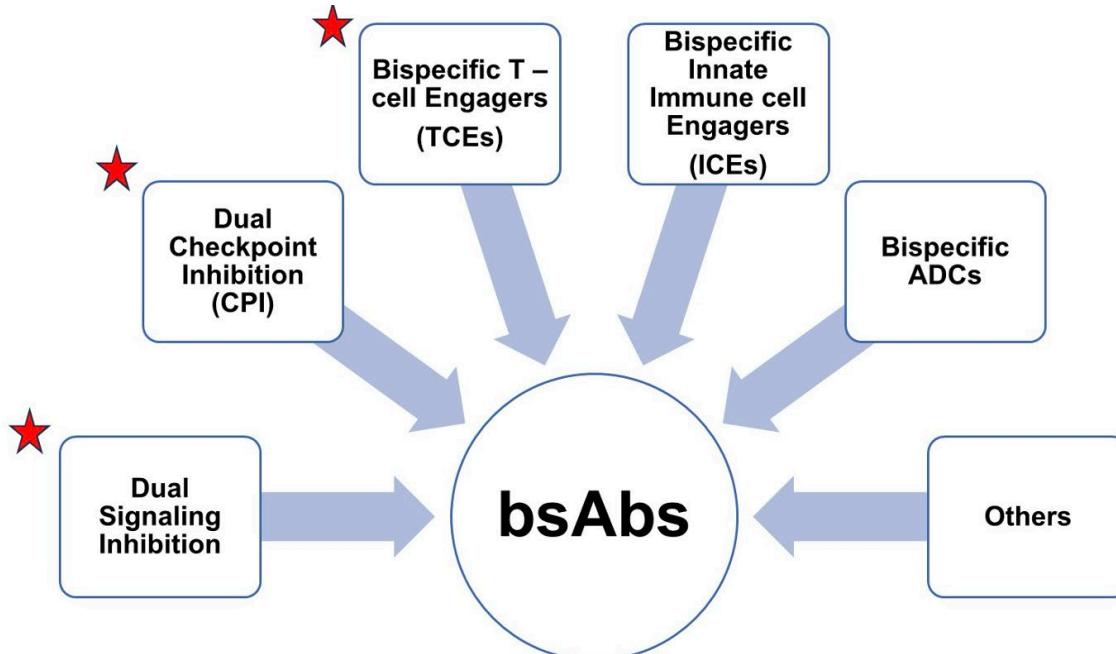
ADC	Year entering clinical development	Target	Payload class	Drug status
MEDI4276	2015	HER2 x HER2	Tubulysin	Discontinued
ZW49	2019	HER2 x HER2	Auristatin	Discontinued
REGN5093-M114	2021	cMET x cMET	Maytansinoid	Discontinued
JSKN003	2022	HER2 x HER2	Camptothecin	In clinical development
IMGN151	2023	FR α x FR α	Maytansinoid	In clinical development
TQB2102	2023	HER2 x HER2	Camptothecin	In clinical development
KM-501	2023	HER2 x HER2	Auristatin	In clinical development



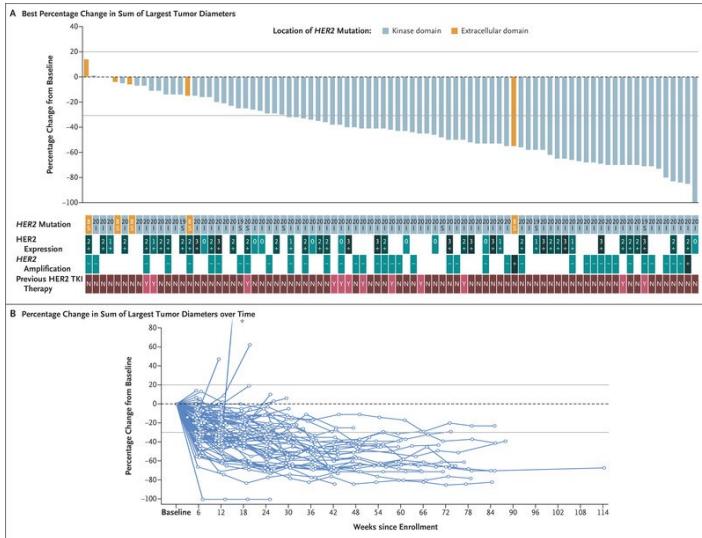
ADC	Year entering clinical development	Target 1	Target 2	Payload class	Drug status
M1231	2021	EGFR	MUC1	Hemisterlin	Discontinued
BL-B01D1	2022	EGFR	HER3	Camptothecin	In clinical development
AZD0592	2022	EGFR	cMET	Camptothecin	In clinical development
ABBV-969	2024	PSMA	STEAP1	Camptothecin	In clinical development
JSKN016	2024	TROP2	HER3	Camptothecin	In clinical development
IBI3001	2024	EGFR	B7-H3	Camptothecin	In clinical development
IBI3005	2024	EGFR	HER3	Camptothecin	In clinical development
BL-B16D1	2024	Undisclosed	Undisclosed	Auristatin	In clinical development
DM001	2024	EGFR	TROP2	Camptothecin	In clinical development
DB-1419	2024	B7-H3	PD-L1	Camptothecin	In clinical development
DM005	2024	EGFR	cMET	Camptothecin	In clinical development
MK-2750 (SKB571)	2024	Undisclosed	Undisclosed	Camptothecin	In clinical development
ALK202	2024	EGFR	cMET	Camptothecin	In clinical development
GEN1286	2024	EGFR	cMET	Camptothecin	In clinical development
DM002	2025	MUC1	HER3	Camptothecin	In clinical development
DXC-008	2025	PSMA	STEAP1	Undisclosed	In clinical development
HS-20122	2025	EGFR	cMET	Camptothecin	In clinical development
TQB6411	2025	EGFR	cMET	Camptothecin	In clinical development
AK146D1	2025	TROP2	Nectin-4	Camptothecin	In clinical development
KY-0301	2025	EGFR	cMET	Auristatin	In clinical development
JS212	2025	EGFR	HER3	Undisclosed	In clinical development

ADC	Payload 1	Payload 2	Target	Drug status
KH815	TOPO1	RNA POL II	TROP2	In clinical development
IBI3020	Undisclosed	Undisclosed	CEACAM5	In clinical development
ADC2192	Undisclosed	Undisclosed	TROP2	Preclinical
ADC2202	Undisclosed	Undisclosed	HER2	Preclinical
BR113	TOPO1	Immune stimulator	TROP2	Preclinical
CB-120	Exatecan	ATR	TROP2	Preclinical
CTPH-02	MMAE	Undisclosed	HER2	Preclinical
DXC018	TOPO1	Antimetabolite	HER2 x HER2	Preclinical
HMBD-802	TOPO1	ATR	HER2	Preclinical
IMD2113	TOPO1	TLR7/8 agonist	EGFR x TROP2	Preclinical
IMD2126	TOPO1	TLR7/8 agonist	PD-L1	Preclinical
IMD562	TOPO1	TLR7/8 agonist	HER2	Preclinical
JSNK021	TOPO1	MMAE	EGFR x HER2	Preclinical
KHN922	TOPO1	RNA POL II	CEACAM5	Preclinical
TJ102	Undisclosed	Undisclosed	CDH6 x FR α	Preclinical
Unnamed (Acepodia)	Undisclosed	Undisclosed	GPC3	Preclinical
Unnamed (Araris)	TOPO1	TOPO1	NaPi2b	Preclinical
Unnamed (Araris)	TOPO1+TOPO1	MMAE	Nectin4	Preclinical
Unnamed (GeneQuantum)	TOPO1	Immune stimulator	TROP2	Preclinical
Unnamed (Medilink)	TOPO1	MTI	HER2	Preclinical
Unnamed (Pinotbio)	TOPO1	MTI	HER2	Preclinical
Unnamed (Sutro)	TOPO1	PARP	Undisclosed	Preclinical

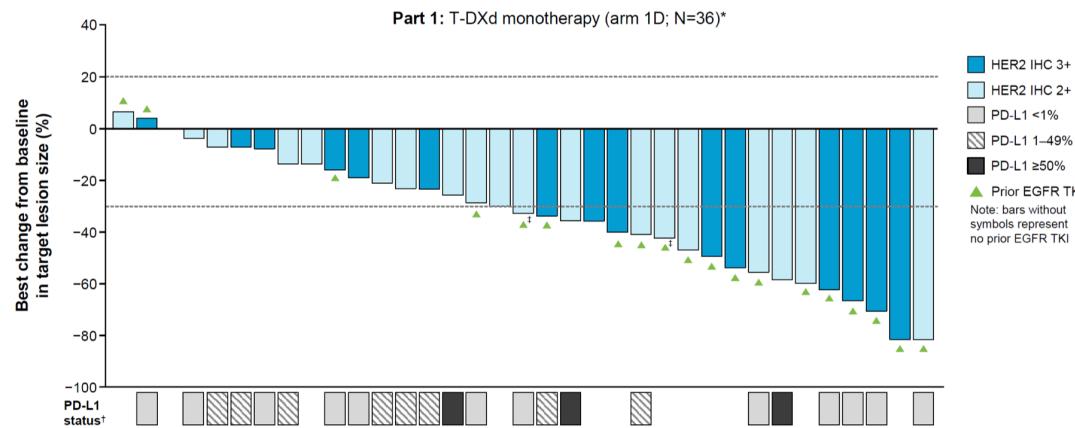
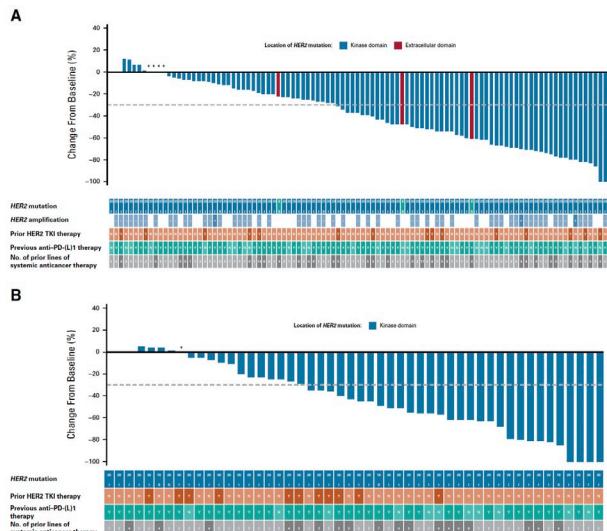
Ac biespecíficos



Mutaciones HER2: Trastuzumab-Deruxtecan: DESTINY-Lung



N Engl J Med 2022;386:241-51.
DOI: 10.1056/NEJMoa2112431



Planchard D et al / WCLC 2024

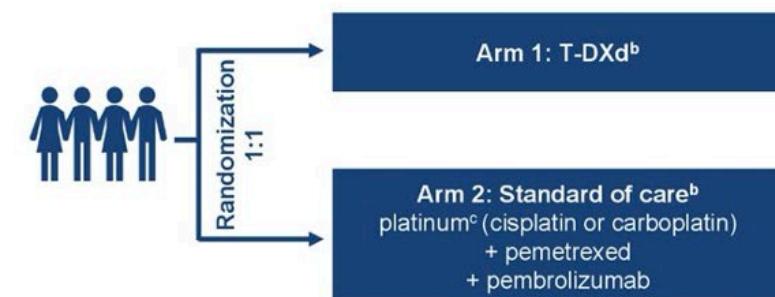
Patient population (N≈264)

- Unresectable, locally advanced (not amenable to curative therapy), or metastatic nonsquamous NSCLC with HER2 exon 19 or 20 mutations^a
- Naïve to systemic therapy in the locally advanced or metastatic setting
- No known other targetable oncogenic mutations/alterations

^a HER2 mutations may be detected in tissue or ctDNA.

^b Crossover is not permitted.

^c Investigator's choice of cisplatin or carboplatin.

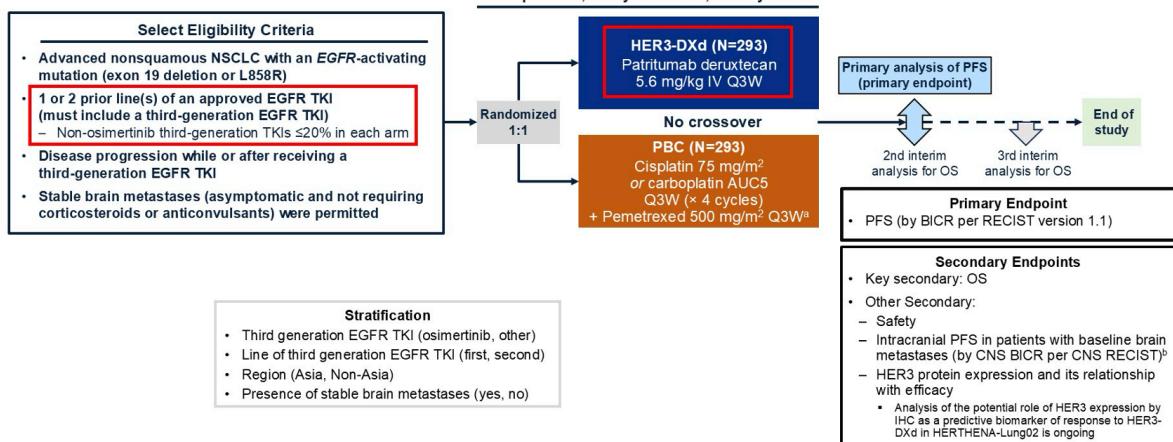


DESTINY-Lung04

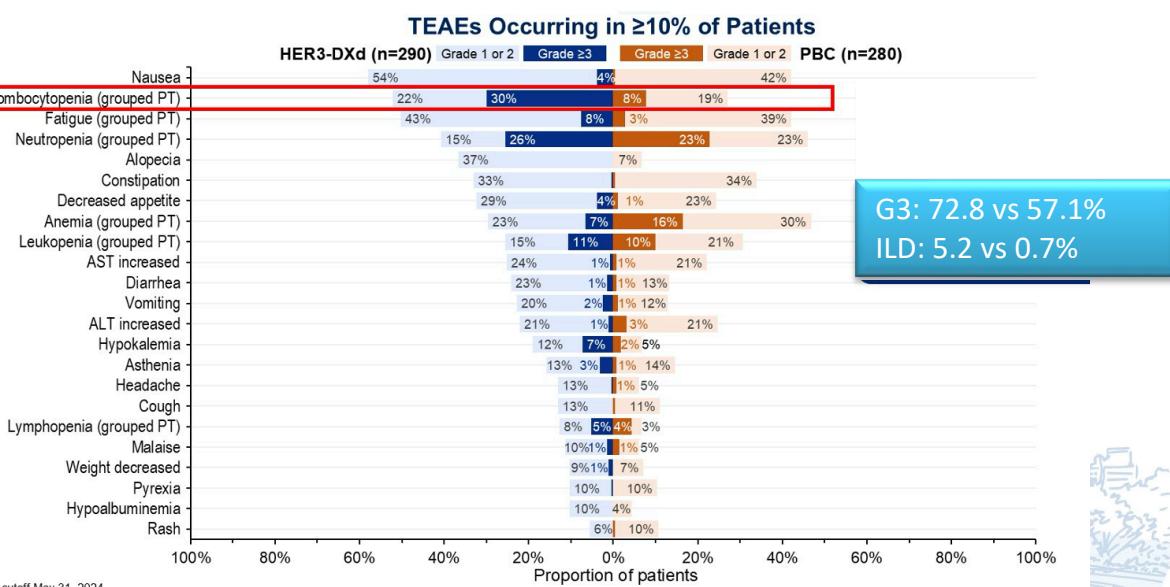
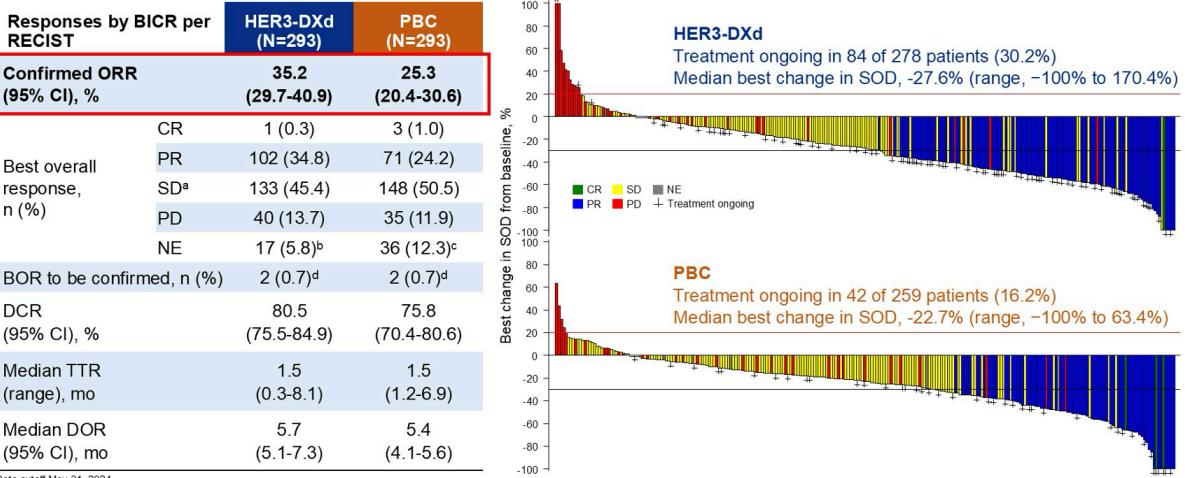
Recruiting



HERTHENA Lung02 Patritumab-Deruxtecan / Mok T et al



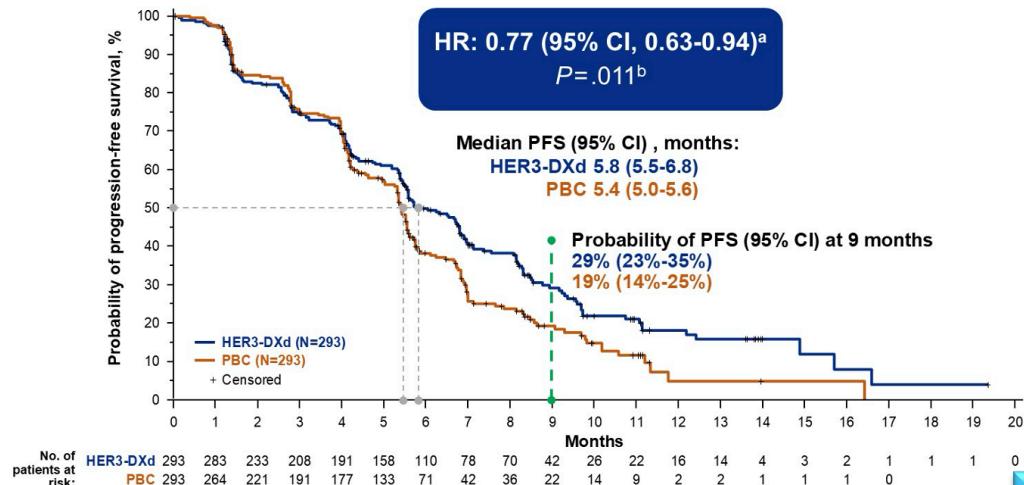
	HER3-DXd (N=293)	PBC (N=293)
Age, median (range), years	64 (35-82)	64 (34-86)
Female, n (%)	184 (62.8)	175 (59.7)
Asian, n (%)	176 (60.1)	178 (60.8)
Smoking history, n (%)	Never Ever	187 (63.8) 106 (36.2)
Time since initial NSCLC diagnosis, median (range), months	24.2 (2.5-121.1)	24.1 (3.2-146.1)
ECOG PS at baseline, n (%)	0 1 2 ^a	110 (37.5) 183 (62.5) 0
History of brain metastasis, n (%) ^b	127 (43.3)	132 (45.1)
Brain metastasis at baseline (by CNS BICR per CNS RECIST), n (%) ^c	105 (35.8)	95 (32.4)
EGFR activating mutations, n (%)	Ex19del L858R Dual Ex19del and L858R	177 (60.4) 113 (38.6) 3 (1.0)
Prior EGFR TKI, n (%)	Only 3rd-generation 3rd- and 1st/2nd-generation	225 (76.8) 68 (23.2)
Line of treatment for prior 3rd-generation EGFR TKI, n (%)	First line Second line	226 (77.1) 67 (22.9)
Type of prior 3rd-generation EGFR TKI, n (%)	Osimertinib Other 3rd-generation ^d	266 (90.8) 27 (9.2)
		263 (89.8) 30 (10.2)



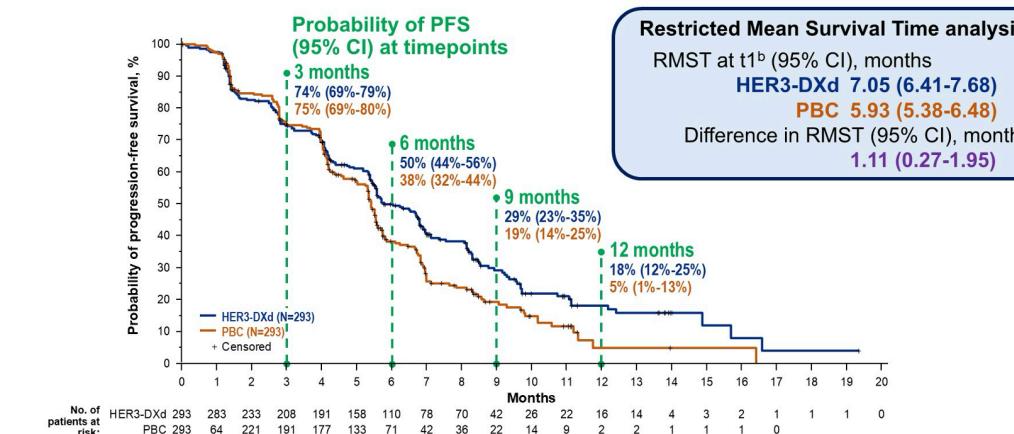
G3: 72.8 vs 57.1%
ILD: 5.2 vs 0.7%



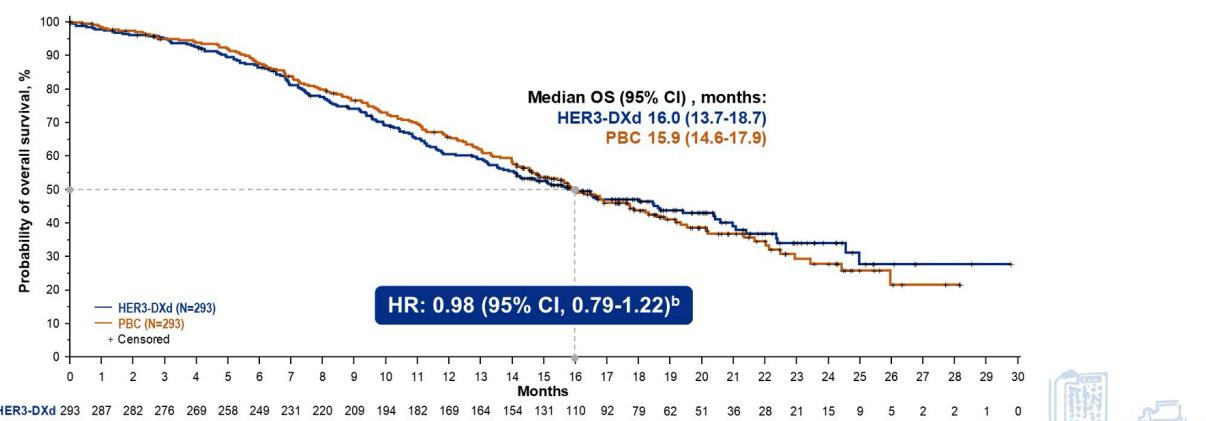
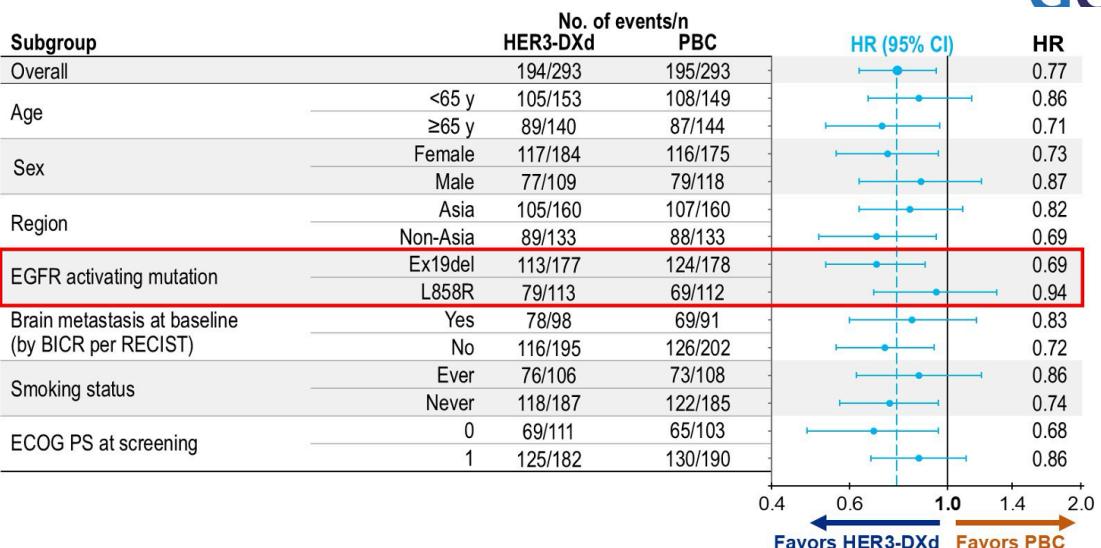
HERTHENA Lung02 Patritumab-Deruxtecan / Mok T et al



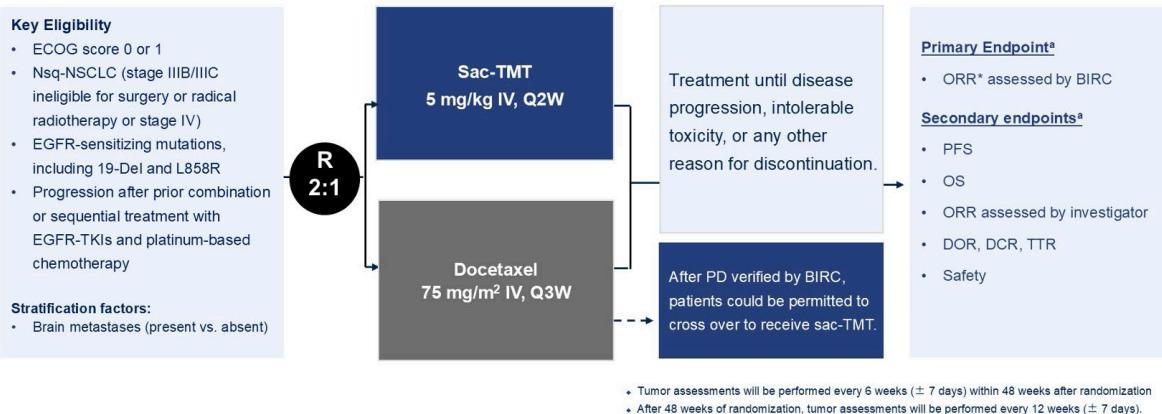
Mediana f-u 15.9



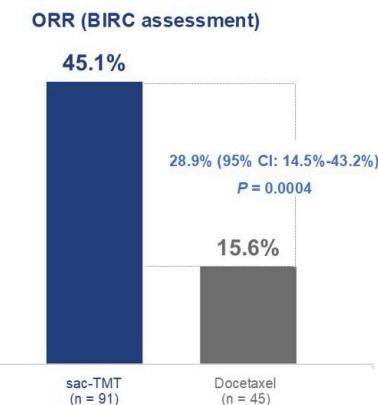
Patritumab Deruxtecan Biologics License
 Application for Patients With Previously Treated
 Locally Advanced or Metastatic EGFR-Mutated
 Non-Small Cell Lung Cancer Voluntarily
 Withdrawn



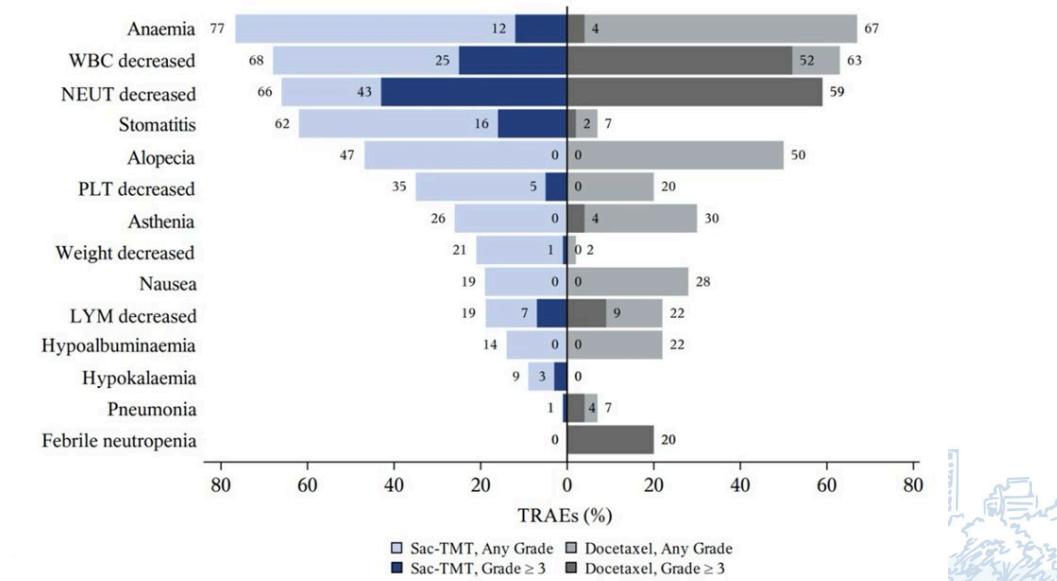
Sacituzumab-Tirumotecan: Opti-TROP Lung 03 / Zhang L et al



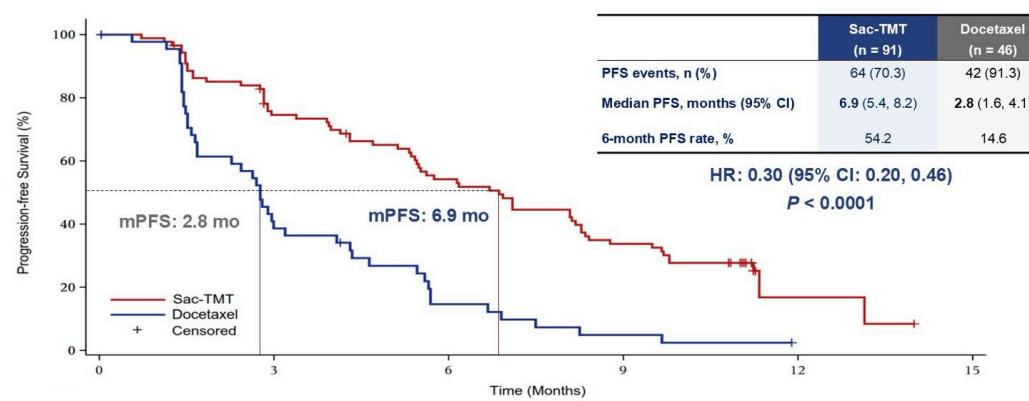
	Sac-TMT (n = 91)	Docetaxel (n = 45)
cORR, n (%) (95% CI)	41 (45.1) (34.6, 55.8)	7 (15.6) (6.5, 29.5)
Difference (95% CI)	28.9 (14.5, 43.2)	
One-sided P-value	0.0004	
DCR, n (%) (95% CI)	75 (82.4) (73.0, 89.6)	27 (60.0) (44.3, 74.3)
Difference (95% CI)	22.3 (6.0, 38.7)	
DOR, n (%)	26 (63.4)	6 (85.7)
Median DOR, months (95% CI)	7.0 (5.4, 9.1)	5.1 (3.1, NE)



	Sac-TMT (n = 91)	Docetaxel (n = 46)
Median age (range)	57.0 (37, 75)	55.0 (34, 74)
≥65 years, n (%)	19 (20.9)	8 (17.4)
Male, n (%)	38 (41.8)	22 (47.8)
Histologic type: adenocarcinoma, n (%)	91 (100)	46 (100)
Clinical stage at enrollment, n (%)		
Stage IIIB	2 (2.2)	1 (2.2)
Stage IV	89 (97.8)	45 (97.8)
ECOG PS 1, n (%)	76 (83.5)	37 (80.4)
Brain metastases, n (%)	18 (19.8)	10 (21.7)
Liver metastases, n (%)	18 (19.8)	7 (15.2)
EGFR mutation type[#], n (%)		
19-Del	43 (47.3)	32 (69.6)
L858R	48 (52.7)	14 (30.4)
T790M gene status, n (%)		
Positive	19 (20.9)	10 (21.7)
Negative	32 (35.2)	13 (28.3)
Unknown	40 (44.0)	23 (50.0)
Prior anti-tumor therapy lines (Including EGFR-TKI), n (%)		
1*	9 (9.9)	5 (10.9)
2	52 (57.1)	20 (43.5)
>2	30 (33.0)	21 (45.7)
Prior EGFR-TKI therapy, n (%)		
3rd generation EGFR-TKI in 1st line	54 (59.3)	26 (56.5)
3rd generation EGFR-TKI in 2nd line	30 (33.0)	18 (39.1)
No 3rd generation EGFR-TKI used	7 (7.7)	2 (4.3)
Prior antiangiogenic therapy, n (%)	60 (65.9)	33 (71.7)
Prior immunotherapy, n (%)	15 (16.5)	6 (13.0)



Sacituzumab-Tirumotecan: Opti-TROP Lung 03 / Zhang L et al



No. at Risk

Sac-TMT 91 63 45 28 2 0

Docetaxel 46 17 6 2 0

Subgroup Events / No. of Subjects

Sac-TMT Docetaxel

HR (95% CI)

All Subjects 64/91 42/46 0.30 (0.20, 0.46)

Sex Male 28/38 20/22 0.28 (0.15, 0.52)

Female 36/53 22/24 0.39 (0.22, 0.68)

Age < 65 53/72 35/38 0.34 (0.22, 0.54)

≥ 65 11/19 7/8 0.41 (0.16, 1.11)

ECOG PS 0 10/15 8/9 0.22 (0.08, 0.62)

1 54/76 34/37 0.37 (0.24, 0.58)

Liver Metastases Yes 12/18 7/7 0.21 (0.08, 0.61)

No 52/73 35/39 0.37 (0.24, 0.59)

Brain Metastases Yes 16/18 9/10 0.16 (0.06, 0.46)

No 48/73 33/36 0.35 (0.22, 0.55)

Smoking History Yes 16/20 12/14 0.45 (0.21, 0.96)

No 48/71 30/32 0.33 (0.20, 0.54)

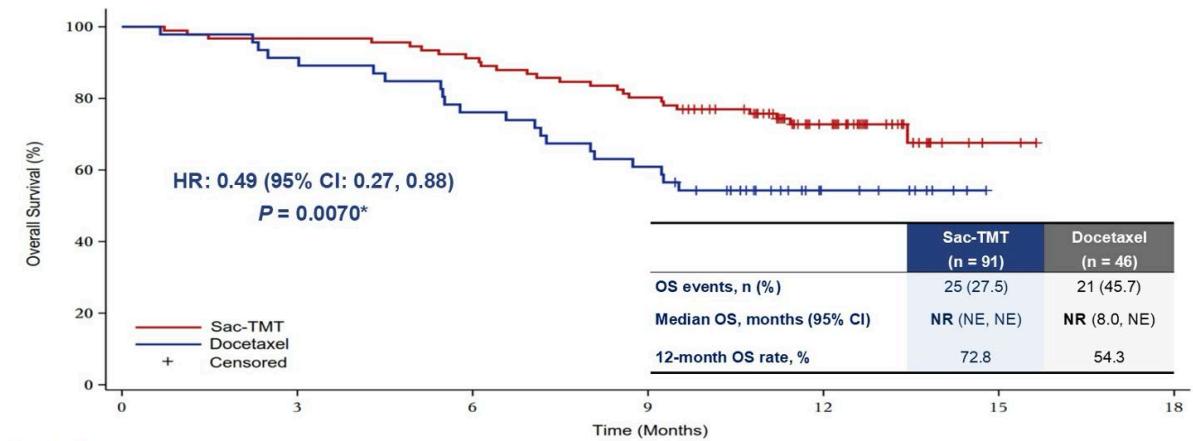
Prior EGFR-TKI therapy 3rd generation EGFR-TKI in 1st line 38/54 24/26 0.26 (0.15, 0.44)

3rd generation EGFR-TKI in 2nd line 21/30 16/18 0.44 (0.22, 0.88)

EGFR Mutation Type 19-Del 29/43 31/32 0.35 (0.20, 0.59)

L858R 35/48 11/14 0.32 (0.15, 0.66)

0.01 0.1 1 10
Sac-TMT Better Docetaxel Better



No. at Risk

Sac-TMT 91 88 83 73 39 2 0

Docetaxel 46 42 35 28 10 0

TROP2 Expression Levels

Sac-TMT (n = 76) Docetaxel (n = 33)

TROP2 high, n (%)

46 (60.5) 18 (54.5)

cORR, n (%) (95% CI)

26 (56.5) (41.1, 71.1) 4 (22.2) (6.4, 47.6)

Difference (95% CI)

34.3 (10.3, 58.3)

TROP2 low/medium, n (%)

30 (39.5) 15 (45.5)

cORR, n (%) (95% CI)

11 (36.7) (19.9, 56.1) 2 (13.3) (1.7, 40.5)

Difference (95% CI)

23.3 (-1.0, 47.7)

56.5%
22.2%

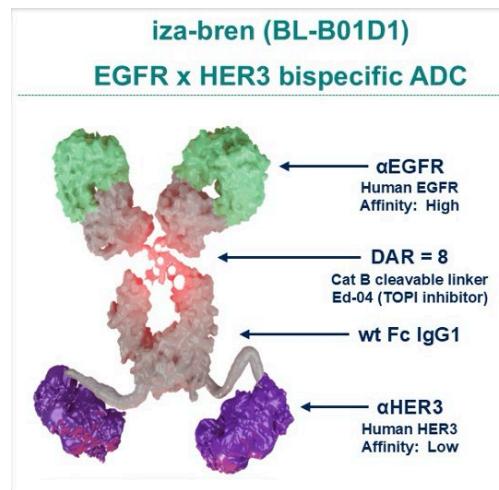
36.7%
13.3%

sac-TMT (n = 46) Docetaxel (n = 18) sac-TMT (n = 30) Docetaxel (n = 15)

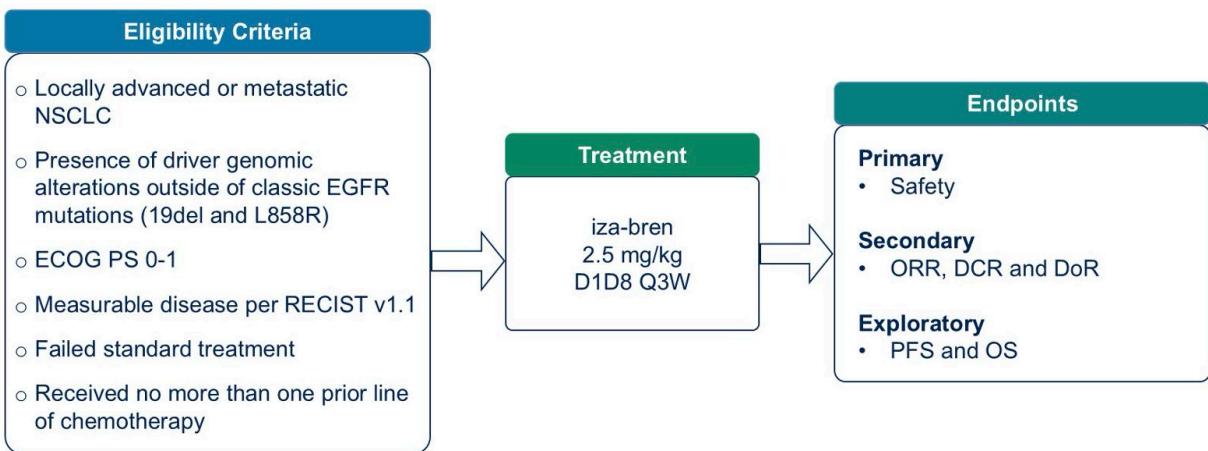
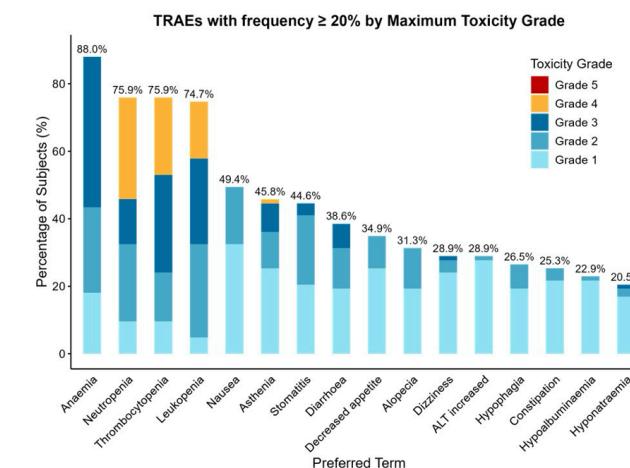
Alternativas terapéuticas en 2L EGFR mut+

Study	Regimen	Phase	PFS	HR for PFS	OS	Gr ≥ 3 tox	Remarks
MARIPOSA-2	Amivantamab + chemo	III	6.3 vs 4.2	0.48 (0.36-0.64); P < 0.001	17.7 vs 15.3; HR=0.73, P=0.039	72% vs 48%	Approved in US, EU, Japan, China, etc; OS data still immature
	Amivantamab + lazertinib + chemo		8.3 vs 4.2	0.44 (0.35-0.56); P < 0.001	NA	92% vs 48%	
HARMONi (Global)	Ivonescimab + chemo vs chemo (Press release!)	III	Not disclosed (HARMONi-A: 7.1 vs 4.8)	0.52 (0.41-0.66); P<0.00001	HR 0.79 (95% CI, 0.62-1.01); P=0.057	56% vs 50%	OS immature. Drug approved in China
IMpower150	Atezo + bev + pacli + carbo (ABCP vs BCP)	III (subset)	NR	NR	27.8 vs 18.1; HR, 0.74 (0.38-1.46)	52.1% vs 54.5%	Exploratory subset analysis
ATTLAS	Atezo + bev + pacli + carbo (ABCP) vs chemo	III	8.5 vs 5.6	0.62 (0.45-0.86); P=0.004	20.6 vs 20.2; HR. 2.02 (0.69-1.46), P=0.975	40.4% vs 21.6%	PFS positive, OS negative
SACHI (METamp)	Osi + savolitinib vs chemo	III	8.2 vs 4.5	0.34 (0.23-0.49); P<0.0001	22.9 vs 17.7; HR, 0.84 (0.55-1.29)	57% vs 57%	Only available in China
HERTHENA-Lung02	HER3-DXd vs chemo	III	5.8 vs 5.4	0.77 (0.63-0.94); P=0.011	16.0 vs 15.9; HR, 0.98 (0.79-1.22)	57.9% vs 46.1%	Drug will not be marketed
OptiTROP-Lung03	Sacituzumab tirumotecan vs docetaxel	II	6.9 vs 2.8	0.30 (0.20-0.46); P<0.0001	NR vs NR; HR, 0.49 (0.27-0.88); P=0.0070	56% vs 71.7%	FDA breakthrough therapy designation

Iza-Bren DL (BL-B01D1) ADC biespecífico EGFR-HER3 / Zhang L et al

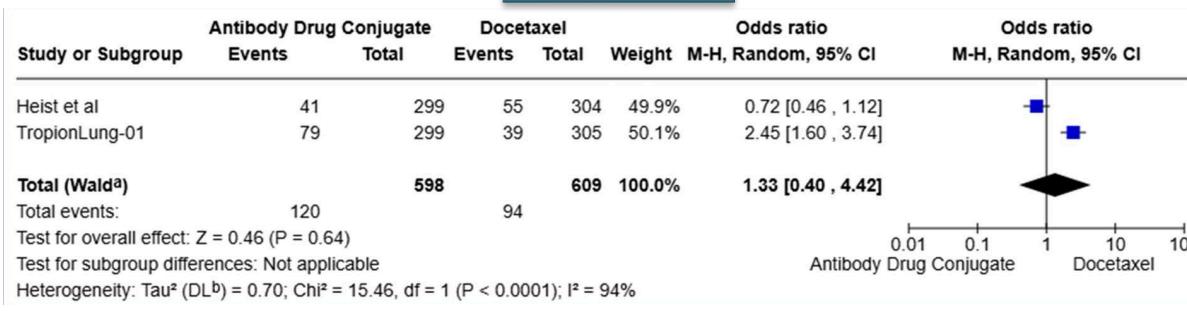


2.5mg/kg D1D8Q3W (N = 83)	
TRAEs, n (%)	83 (100)
Treatment-related SAEs, n (%)	30 (36.1)
≥Grade 3 TRAEs, n (%)	66 (79.5)
TRAEs leading to death, n (%)	1 (1.2)
TRAEs leading to discontinuation of study drug, n (%)	2 (2.4)
TRAEs leading to dose reduction, n (%)	46 (55.4)
TRAEs leading to drug delay, n (%)	44 (53.0)

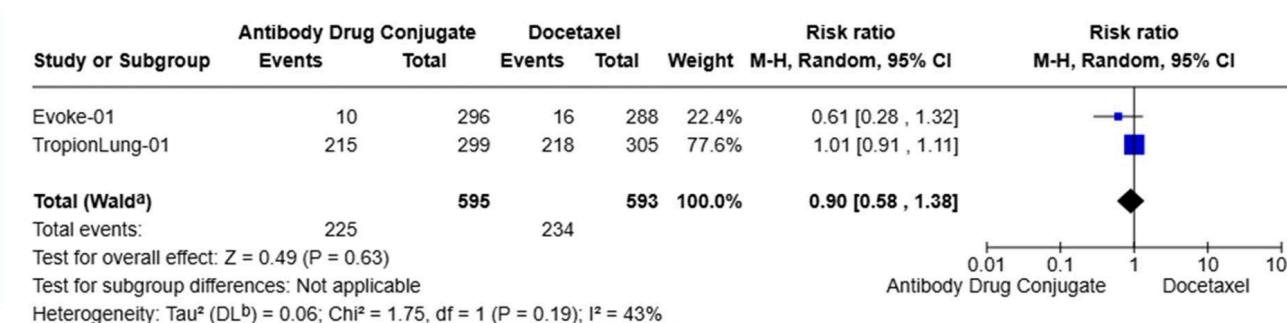
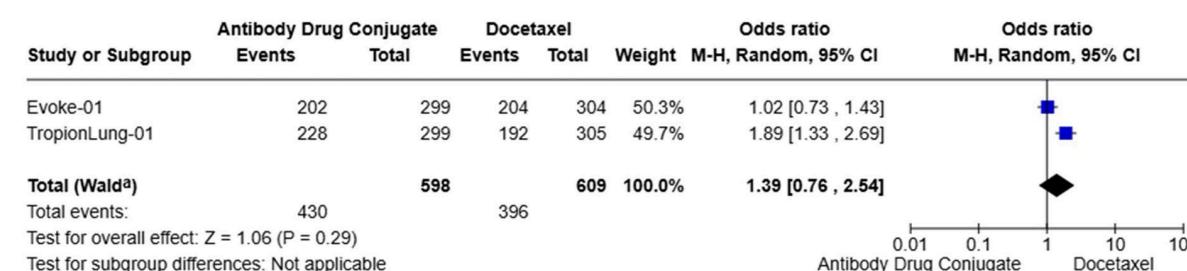
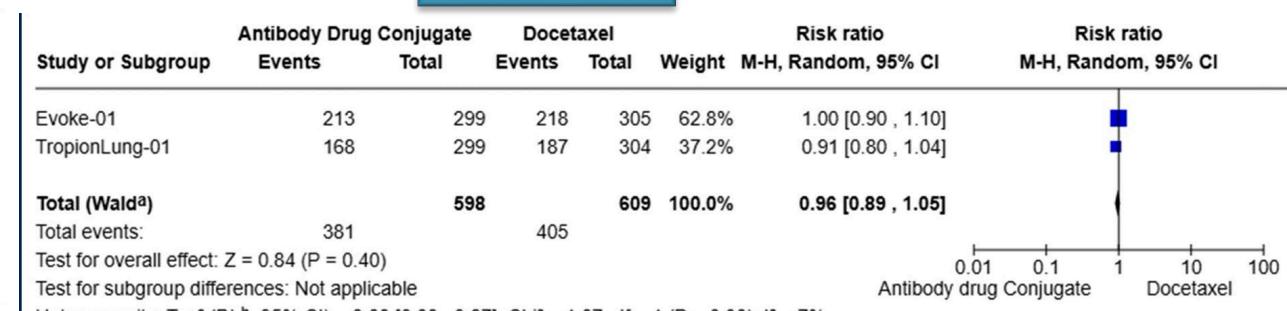


Metanálisis ADCs dirigidos a TROP2 2L / Abstract #8575

ORR Rate



Event Rate



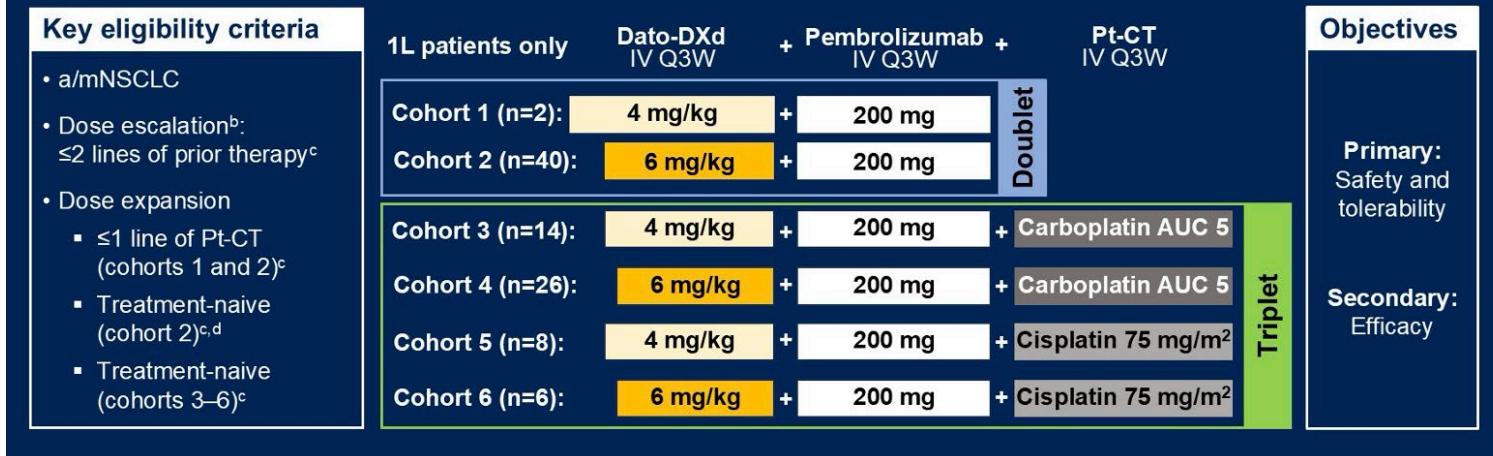
DCR Rate

Outcome	Datopotamab Deruxtecan				Sacituzumab Govitecan			
	Rate	95% CI	P-Value	I ²	Value	95% CI	P-Value	I ²
ER	0.52	(0.26, 0.78)	<0.001	97%	0.45	(0.21, 0.69)	<0.001	91%
DCR	0.77	(0.73, 0.80)	<0.001	0%	0.68	(0.63, 0.73)	<0.001	0%
ORR	0.29	(0.23, 0.36)	<0.001	50%	0.14	(0.11, 0.18)	<0.001	0%
G3AER	0.34	(0.22, 0.47)	<0.001	86%	0.75	(0.57, 0.94)	<0.001	91%
DDR	0.07	(0.03, 0.12)	0.002	69%	0.07	(0.01, 0.13)	0.20	74%



TROPION Lung02 Dato-Dx+Pembro+/-QT / Levy B et al

- Phase 1b study of Dato-DXd + pembrolizumab ± Pt-CT in a/mNSCLC without actionable genomic alterations^a

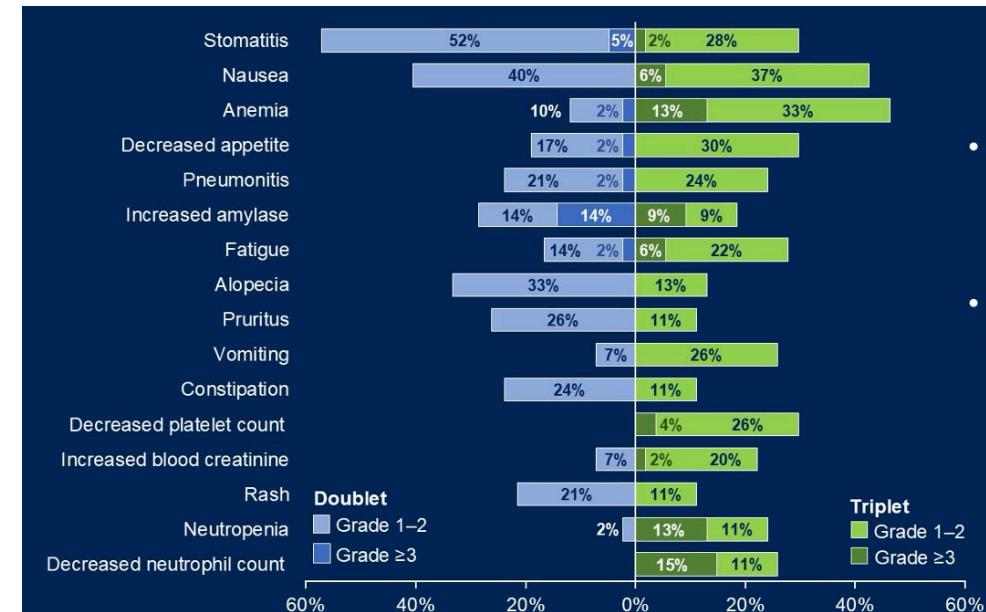


	All 1L (N=96)	
	Doublet (n=42)	Triplet (n=54)
Age, median (range), years	65 (48–83)	64 (33–78)
Male, n (%)	32 (76.2)	34 (63.0)
Asian race, n (%)	31 (73.8)	23 (42.6)
Histology, n (%)		
Nonsquamous	32 (76.2)	40 (74.1)
Squamous	10 (23.8)	14 (25.9)
History of brain metastases, n (%)	4 (9.5)	10 (18.5)
ECOG PS 1, n (%)	24 (57.1)	33 (61.1)
Dato-DXd dosing, n (%)		
4 mg/kg	2 (4.8)	22 (40.7)
6 mg/kg	40 (95.2)	32 (59.3)
PD-L1 expression^a, n (%)		
<50%	30 (71.4)	40 (74.1)
≥50%	5 (11.9)	10 (18.5)
NE	7 (16.7)	4 (7.4)



TROPION Lung02 Dato-Dx+Pembrolizumab / Levy B et al

Event, n (%)	All 1L (N=96)	
	Doublet (n=42)	Triplet (n=54)
TRAEs		
Grade ≥3	39 (92.9)	54 (100)
Associated with death	17 (40.5)	30 (55.6)
	0	0
TRAEs associated with dose modifications		
Dose reduction of any drug	8 (19.0)	14 (25.9)
Dose reduction of Dato-DXd	8 (19.0)	7 (13.0)
Discontinuation of any drug	14 (33.3)	20 (37.0)
Discontinuation of Dato-DXd	13 (31.0)	16 (29.6)
Serious TRAEs		
Grade ≥3	5 (11.9)	12 (22.2)
	4 (9.5)	9 (16.7)
AESIs		
Oral mucositis/stomatitis	26 (61.9)	22 (40.7)
Grade 3	2 (4.8)	1 (1.9)
Adjudicated drug-related ILD/pneumonitis	11 (26.2)	14 (25.9)
Grade 3	2 (4.8)	1 (1.9)
Ocular surface events	9 (21.4)	18 (33.3)
Grade 3	1 (2.4)	2 (3.7)



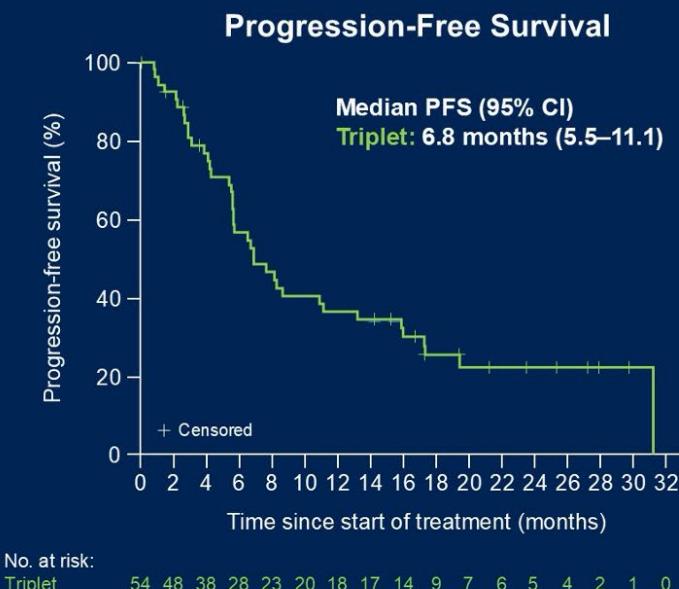
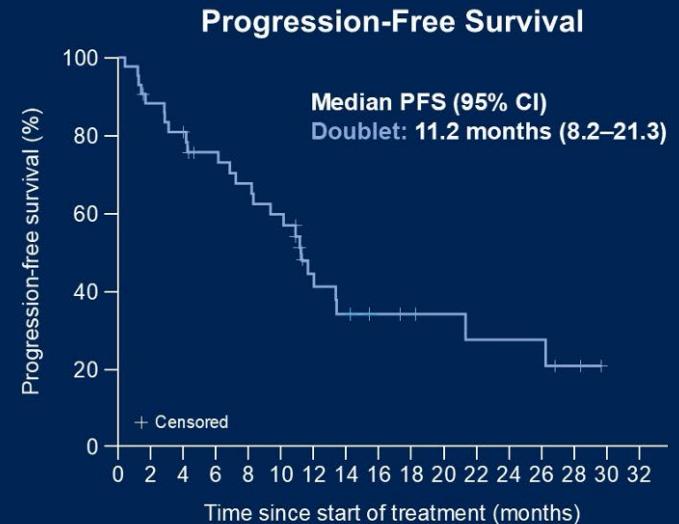
Mediana duración tto:
9.7 meses Dato-Dx-Pembro
5.3 meses Dato-Dx-Pembro-QT



TROPION Lung02 Dato-Dx+Pembro+/-QT / Levy B et al

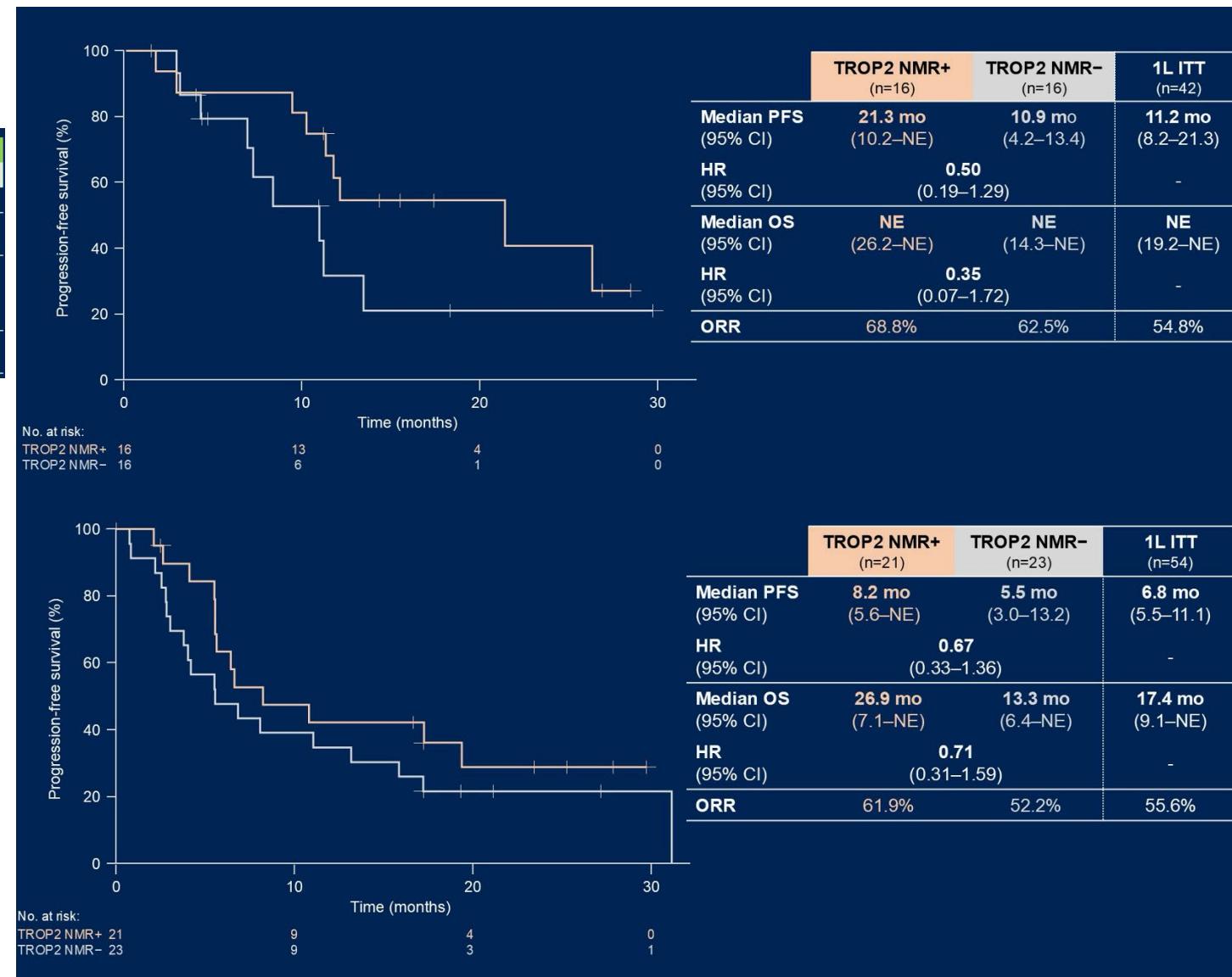
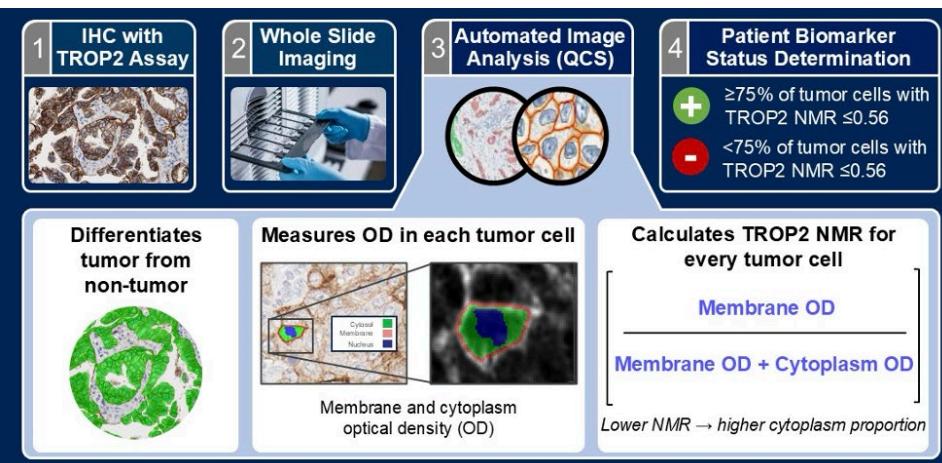
	Doublet (n=42)
Confirmed ORR*, n (%)	23 (54.8)
95% CI	38.7–70.2
Median DOR, months	20.1
95% CI	9.7–NE
DCR, n (%)	37 (88.1)
95% CI	74.4–96.0
Median TTR, months	1.4
Range	1.2–7.0
Median PFS, months	11.2
95% CI	8.2–21.3
Median OS, months	NE
95% CI	19.2–NE

	Triplet (n=54)
Confirmed ORR*, n (%)	30 (55.6)
95% CI	41.4–69.1
Median DOR, months	13.7
95% CI	5.7–NE
DCR, n (%)	48 (88.9)
95% CI	77.4–95.8
Median TTR, months	1.4
Range	1.2–9.6
Median PFS, months	6.8
95% CI	5.5–11.1
Median OS, months	17.4
95% CI	9.1–NE



TROPION Lung02 Dato-Dx+Pembrolizumab / Levy B et al

N	Doublet		Triplet	
	PD-L1 <50%	PD-L1 ≥50%	PD-L1 <50%	PD-L1 ≥50%
N	30	5	40	10
ORR, % (95% CI)	53.3% (34.3–71.7)	100% (47.8–100)	55.0% (38.5–70.7)	60.0% (26.2–87.8)
BoR (%)				
CR	3.3%	0	2.5%	10.0%
PR	50%	100%	52.5%	50.0%
DOR, months (95% CI)	12.0 (8.0–NE)	NE (5.5–NE)	14.6 (5.3–NE)	NE (4.1–NE)

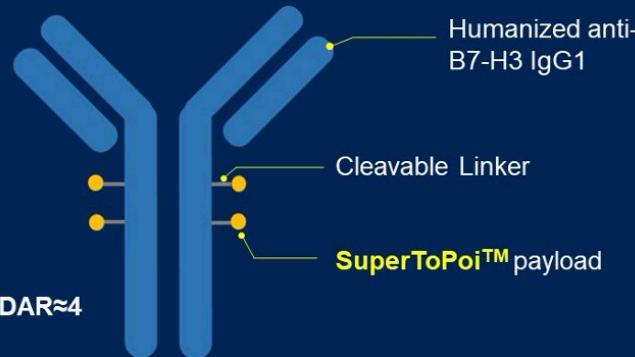


EE CC activos en 1L con ADCs anti-TROP2

Clinical Trial Name	Phase	Treatment	Status
TROPION-Lung07	3	Dato-DXd Plus Pembro +/- Chemo in 1L nonsquamous NSCLC	Recruiting
TROPION-Lung08	3	Dato-DXd Plus Pembro vs. Pembro in 1L nonsquamous NSCLC with PD-L1 ≥50%	Recruiting
EVOKE-03	3	Pembro vs. Sacituzumab Govitecan Plus Pembro in 1L NSCLC with PD-L1 ≥50%	Recruiting
TroFuse-007	3	Sacituzumab Tirumotecan (Sac-TMT) Plus Pembro vs. Pembro Alone in 1L NSCLC with PD-L1 ≥ 50%	Recruiting
TroFuse-023	3	Pembro +/- Sac-TMT in 1L maintenance for squamous NSCLC	Recruiting



Structure of MHB088C



Patient eligibility

- Histologically- or cytologically-confirmed SCLC
- ECOG PS of 0 or 1
- 1~3 prior lines of systemic therapies

Cohort 1:
1.6 mg/kg Q2W
(n=30~50)

Cohort 2:
2.0 mg/kg Q2W
(n=30~50)

Cohort 3:
2.4 mg/kg Q3W
(n=30~50)

- Primary endpoint: ORR by RECIST v1.1
- Secondary endpoints: Safety, DCR, DOR, PFS, OS

Antibody vs Ifinatamab

- **3~4 times** higher cell binding activities
- **2~3 times** higher internalization rate

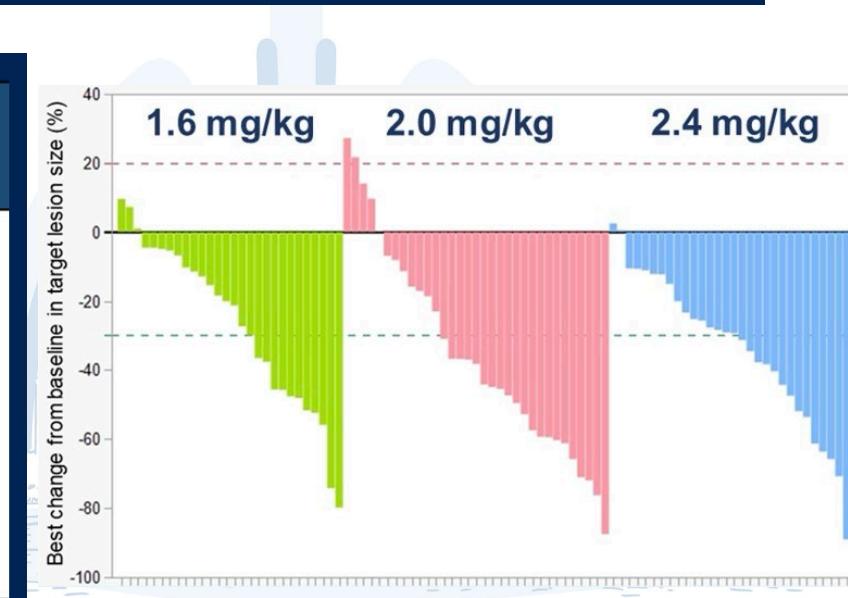
Proprietary linker

- **Stable in plasma**

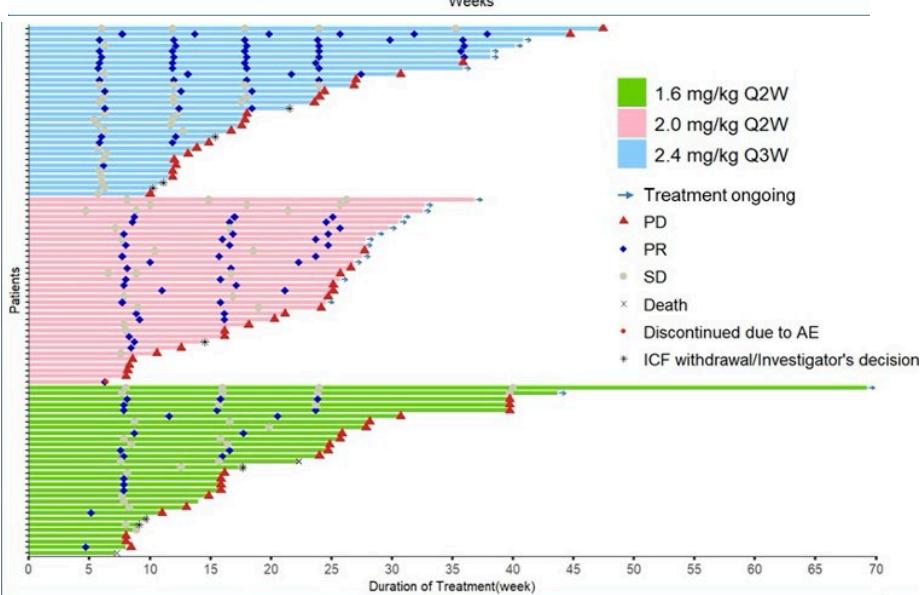
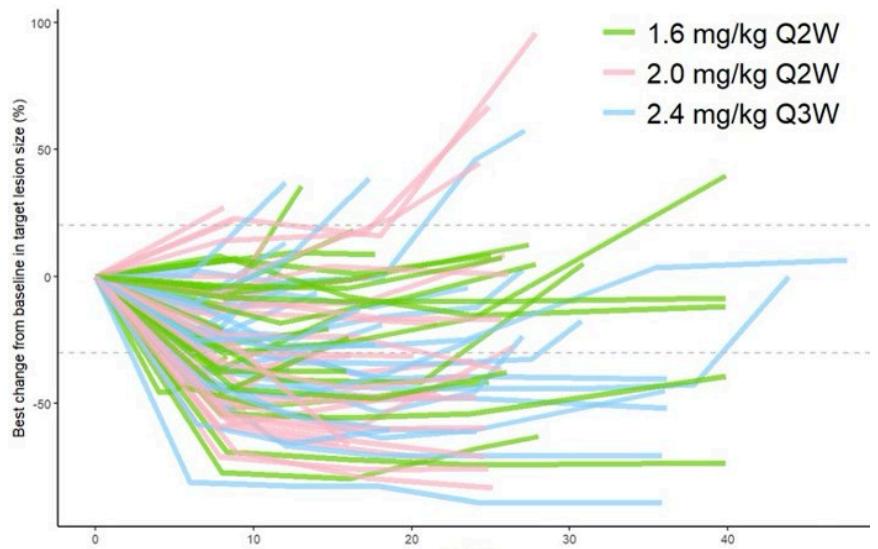
SuperToPoTM payload

- **5~10 times more potent** than DXd
- Short half-life

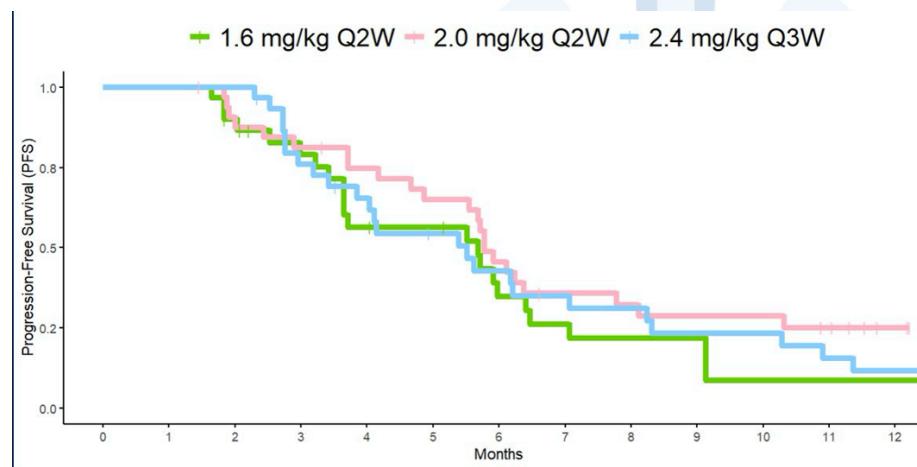
Dosing Regimen	1.6 mg/kg Q2W (n=28)	2.0 mg/kg Q2W (n=33)	2.4 mg/kg Q3W (n=30)
Median follow-up (m)	9.2	6.2	8.3
Unconfirmed ORR (%) (95% CI)	42.9 (24.5, 62.8)	57.5 (39.2, 74.5)	46.7 (28.3, 65.7)
Confirmed ORR (%) (95% CI)	21.4 (8.3, 41.0)	42.4 (25.5, 60.8)	43.3 (25.5, 62.6)
DCR (%) (95% CI)	89.3 (71.8, 97.7)	87.9 (71.8, 96.6)	93.3 (77.9, 99.2)



MHB088C ADC B7H3 / Zhou C et al



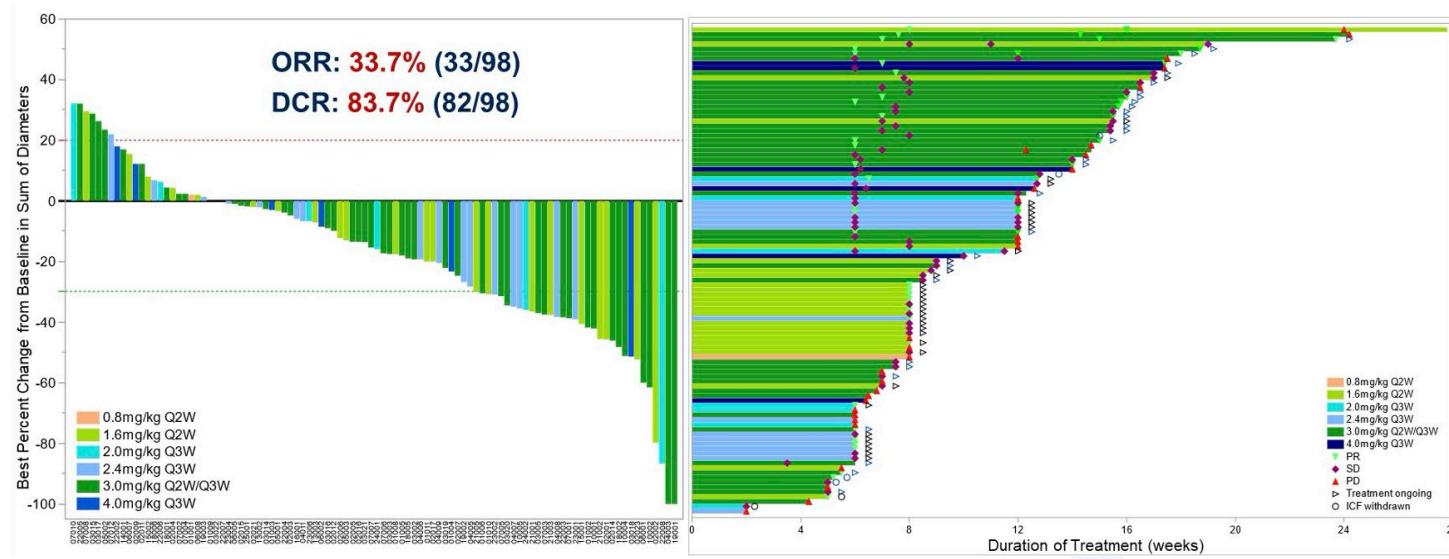
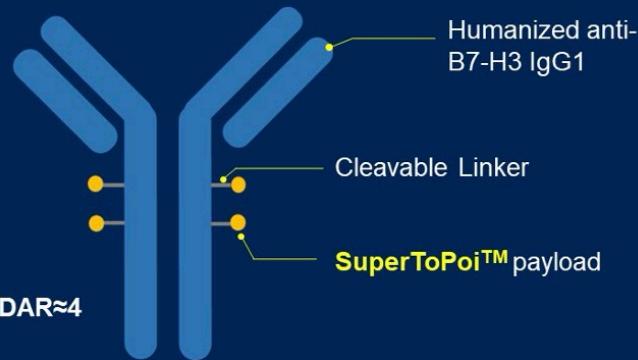
TEAEs (Grade ≥3), n (%)	1.6 mg/kg Q2W (N=30)	2.0 mg/kg Q2W (N=33)	2.4 mg/kg Q3W (N=30)	Total (N=93)
Neutropenia	3 (10.0)	3 (9.1)	12 (40.0)	18 (19.4)
White blood cell count decreased	3 (10.0)	2 (6.1)	6 (20.0)	11 (11.8)
Lymphocyte count decreased	7 (23.3)	3 (9.1)	0	10 (10.8)
Anaemia	1 (3.3)	4 (12.1)	1 (3.3)	6 (6.5)
Hyponatraemia	3 (10.0)	2 (6.1)	0	5 (5.4)
Platelet count decreased	1 (3.3)	1 (3.0)	3 (10.0)	5 (5.4)
Pneumothorax	0	0	2 (6.7)	2 (2.2)
Atrial fibrillation	2 (6.7)	0	0	2 (2.2)
Alanine aminotransferase increased	1 (3.3)	0	0	1 (1.1)
Gamma-glutamyltransferase increased	0	1 (3.0)	0	1 (1.1)
Aspartate aminotransferase increased	1 (3.3)	0	0	1 (1.1)
Bilirubin conjugated increased	1 (3.3)	0	0	1 (1.1)
Blood bilirubin increased	1 (3.3)	0	0	1 (1.1)
Febrile neutropenia	0	0	1 (3.3)	1 (1.1)
Hypokalaemia	1 (3.3)	0	0	1 (1.1)
Cachexia	1 (3.3)	0	0	1 (1.1)
Hypomagnesaemia	1 (3.3)	0	0	1 (1.1)
Pulmonary embolism	0	1 (3.0)	0	1 (1.1)
Haemoptysis	1 (3.3)	0	0	1 (1.1)
Pneumonitis	1 (3.3)	0	0	1 (1.1)
Respiratory failure	1 (3.3)	0	0	1 (1.1)
Infection	0	1 (3.0)	0	1 (1.1)
Pneumonia	0	1 (3.0)	0	1 (1.1)
Anal abscess	1 (3.3)	0	0	1 (1.1)
Upper respiratory tract infection	1 (3.3)	0	0	1 (1.1)
Diarrhoea	1 (3.3)	0	0	1 (1.1)
Cerebral infarction	1 (3.3)	0	0	1 (1.1)



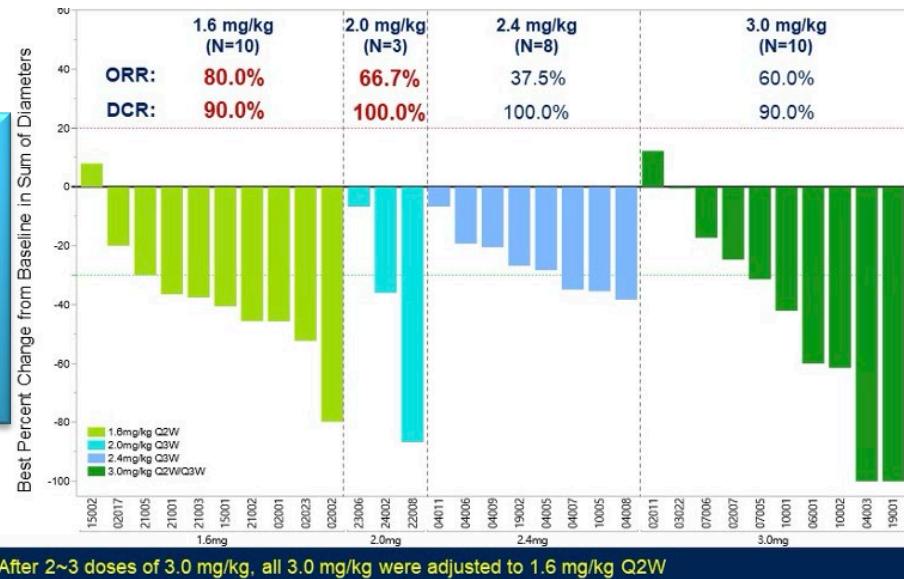
Dosing Regimen	1.6 mg/kg Q2W (n=28)	2.0 mg/kg Q2W (n=33)	2.4 mg/kg Q3W (n=30)
Median DOR (95% CI), months	4.2 (3.8, NA)	4.2 (2.5, NA)	6.9 (4.1, NA)
Median PFS (95% CI), months	5.6 (3.7, 6.3)	5.7 (4.0, 6.1)	5.5 (3.8, 7.1)

MHB088C ADC B7H3 / Shen L et al

Structure of MHB088C



- 53 p SCLC
- 31 evaluable para respuesta
- ORR 61.1%
- DCR 93.5%



Grade≥3 TRAEs, n (%)	1.6 mg/kg Q2W (N=48)	2.0 mg/kg Q3W (N=8)	2.4 mg/kg Q3W (N=24)	3.0mg/kg Q2W / Q3W (N=51)
Neutrophil count decreased	2 (4.2)	0	4 (16.7)	23 (45.1)
Platelet count decreased	2 (4.2)	0	3 (12.5)	14 (27.5)
Anaemia	1 (2.1)	1 (12.5)	1 (4.2)	9 (17.6)

ADCs en Cáncer Broncopulmonar Microcítico

Compound.	Payload	Phase	Activity	% grade ≥3 TRAEs including deaths
Ifinatamab deruxtecan/ I-DXd	Topoisomerase I inhibitor, DAR4	II IDEate-Lung01 (Global) (NCT05280470) ¹	n=42 treated at 12mg/kg with confirmed ORR in 54.8%. Intracranial response 66.7% in n=6 (8mg/kg) and 50% in n=10 (12mg/kg).	Observed in 36.4% and one death. One ILD that lead to discontinuation.
GSK5764227	Topoisomerase inhibitor, DAR4	1a/b ARTEMIS-001 study (China) (NCT05276609) ²	n=56 treated at doses 8.0-10mg/kg Q3W. ORR 61%. Tumour shrinkage in target lesion in 96.2% pts, deep response in 44.2%.	>10% neutropenia, leukopenia, thrombocytopenia
YL201	Topoisomerase inhibitor, DAR8	I/II dose escalation and expansion (China) (NCT05434234) ³	n=72. ORR 63.9%, DCR 91.7%, mPFS- 6.3mo, mDoR- 5.7mo.	Neutropenia 31.7%, leukopenia 29.5%, Anemia 25%, ILD 1.3% (3 cases). *7 deaths (2.6%) considered linked to drug
BNT324	Topoisomerase inhibitor, DAR6	II (Global) (NTC05914116) ⁴	n=73, ORR 31.5% at 6-9mg/kg dose, higher in no prior topotecan 60.9%, DCR 89%	Observed in 23.8-51.9%. Neutropenia 15.9%, anemia 7%, thrombocytopenia 6.3%
MHB088C	SuperTopoi inhibitor- 5-10x >potent than DXd, DAR4	II (China)	N=91 treated at doses 1.6-2.4mg/kg, ORR 42.4% (2mg/kg), DCR 87.9%, mPFS 5.7mo.	~10% hematologic AEs, 1 case of ILD (grade 2), 1 death related to drug



Resumen

- Los ADCs tienen un desarrollo clínico creciente
- Son fármacos complejos cuyos diferentes componentes pueden ser determinantes de la eficacia y efectos secundarios
- Importancia del epítopo y de su rol oncogénico
- Resultados limitados en 2L sin alteraciones oncogénicas
- Necesidad de biomarcadores predictivos validados y de difusión en práctica clínica
- Resultados iniciales en Carcinoma microcítico

