

MasterClass in Bladder Cancer 2026

June 9th

Centro de Formación
y Simulación Avanzada,
Hospital Universitario 12 de Octubre
Avda. de Córdoba, s/n. Madrid

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Format:

– In person –

INSCRIPCIONES AQUÍ

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HENDERE HEALTHCARE

X #BladderMasterClass26

Hospital Universitario
12 de Octubre

How do these treatments impact subsequent line of therapy

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Sistema Socio Sanitario

Regione
Lombardia

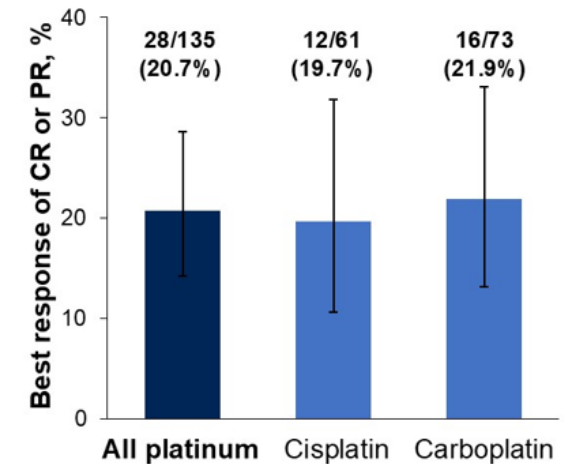
Subsequent therapy: Enfotumab + Pembrolizumab



In the chemotherapy arm, the most common first subsequent treatment was a PD-(L)1 inhibitor

	EV+P (n=442)	Chemotherapy (n=444)
Patients who received subsequent anticancer therapies, n (%)	192 (43.4)	324 (73.0)
Systemic therapy	173 (39.1)	304 (68.5)
First subsequent systemic therapy, n (%)		
Platinum-containing chemotherapy^a	135 (30.5)	20 (4.5)
Carboplatin-based therapy	73 (16.5)	10 (2.3)
Cisplatin-based therapy	61 (13.8)	9 (2.0)
PD-(L)1 inhibitor therapy^b	17 (3.8)	265 (59.7)
Maintenance	0	142 (32.0)
Avelumab	0	135 (30.4)
Pembrolizumab	0	5 (1.1)
EV+P-based therapy	2 (0.5)	2 (0.5)
Other PD-(L)1 inhibitor therapy	15 (3.4)	121 (27.3)
Atezolizumab	1 (0.2)	44 (9.9)
Pembrolizumab	14 (3.2)	72 (16.2)
Other^c	21 (4.8)	19 (4.3)

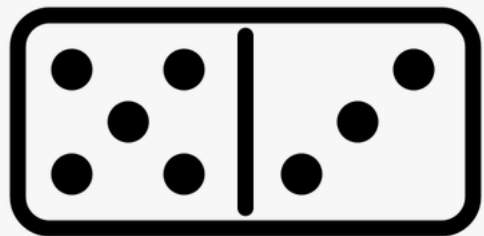
ORR in evaluable patients receiving subsequent platinum-based chemotherapy^{a,c}



Median OS from start of platinum-based chemotherapy was 10.9 months (95% CI 8.3, 12.8)

Attrition rate estimated:

- **EV+P: 84/276 ≈ 30.4%**
- **Chemio: 49/373 ≈ 13.1%**



PD



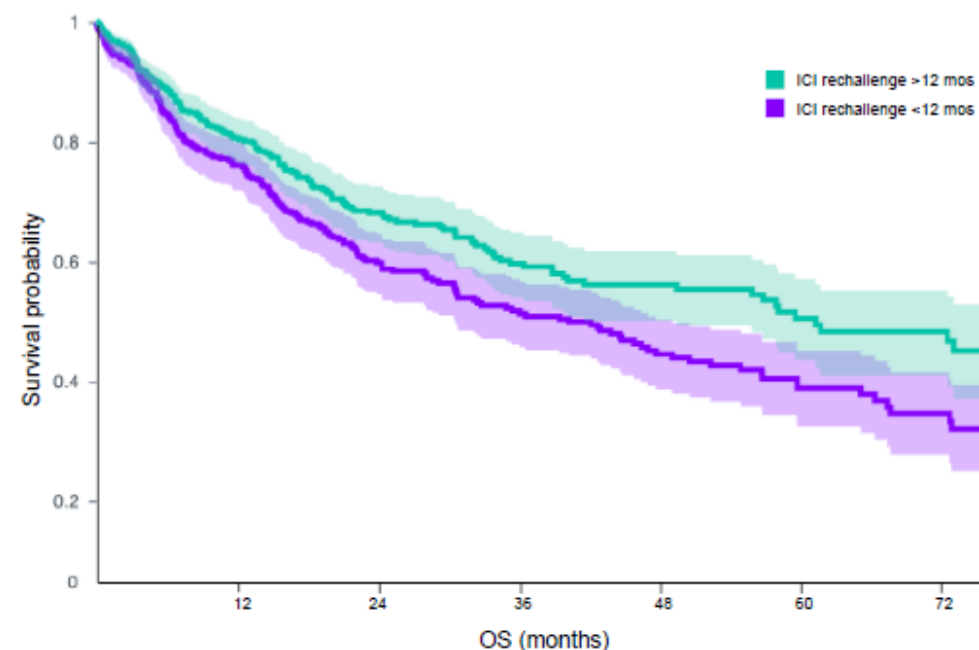
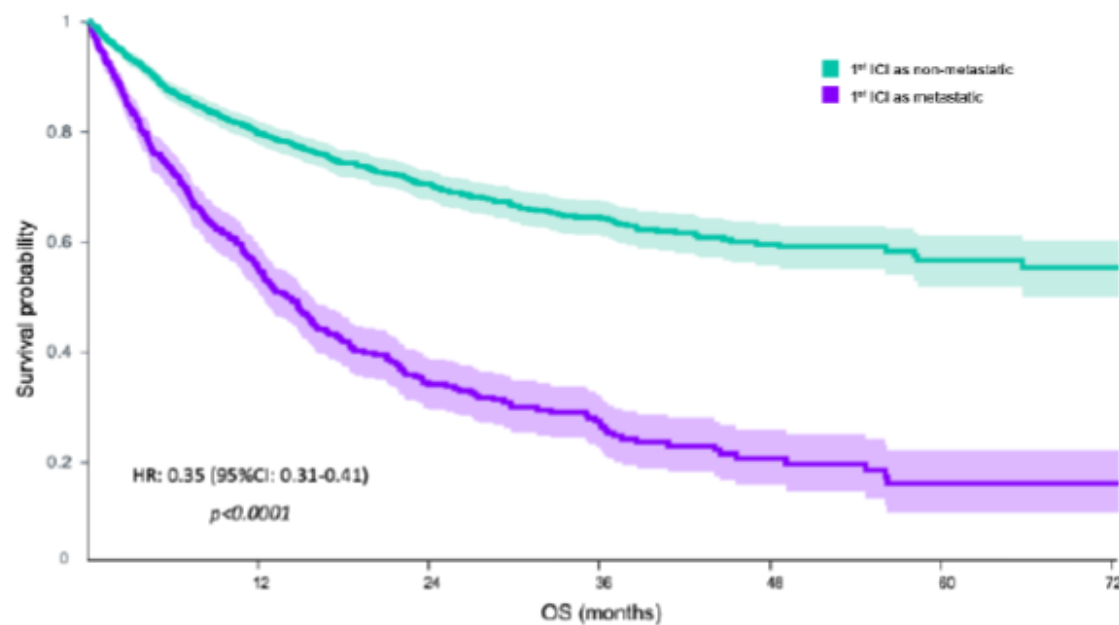
What would experts do after EV + Pembrolizumab?

EV+ Pembro

Characteristics	% (n)
Time in practice postfellowship	
>20 y	17 (13)
16-20 y	9 (7)
11-15 y	19 (15)
6-10 y	17 (13)
0-5 y	38 (30)
Type of practice setting	
Academic	90 (64)
Community	10 (7)
Number of patients with mUC seen/y	
>25 patients	72 (56)
11-25 patients	21 (16)
6-10 patients	5 (4)
1-5 patients	3 (2)

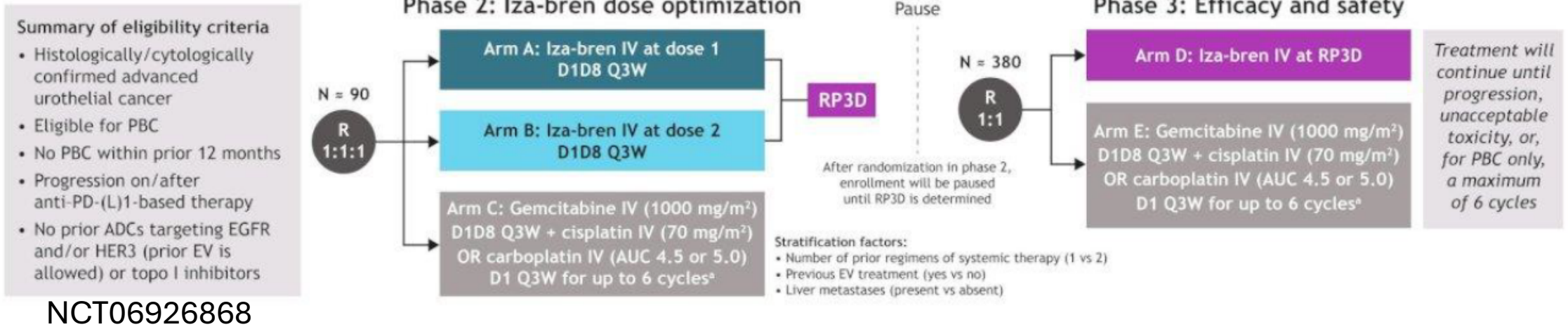
2L Treatment After EVP	Somewhat or Very Likely to Use, % (n)	Somewhat or Very Unlikely to Use, % (n)
Gemcitabine + Cisplatin + Nivolumab	11 (8)	80 (57)
PBC with switch maintenance ICI	31 (22)	62 (44)
PBC without switch maintenance ICI	77 (55)	13 (9)
Erdafitinib for <i>FGFR3</i> susceptible alterations	87 (62)	7 (5)
SG	56 (40)	30 (21)
ICI-combo trial	54 (38)	35 (25)
Non-ICI trial	80 (57)	8 (6)
Continue EVP for progression in 1-2 sites after using local therapy (eg, radiation)	83 (59)	8 (6)

Immunotherapy rechallenge in UC: friends or foes? RWD

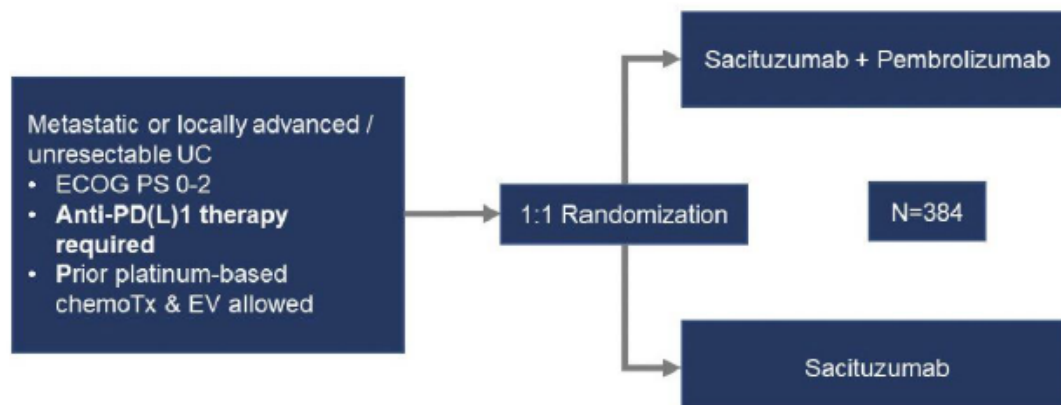


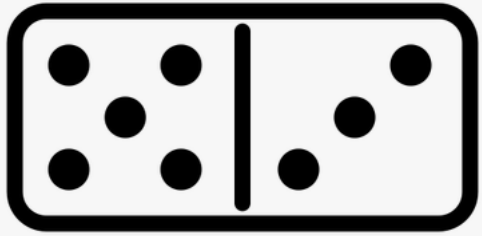
ICI rechallenge: what is the optimal drug?

ADC anti-EGFR and HER3

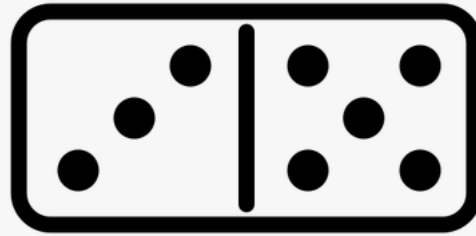


Sacituzumab Govitean-hziy





EV+ Pembro



Platin+Gem

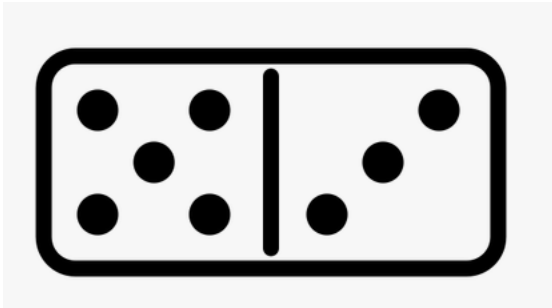


FGFR+~20%

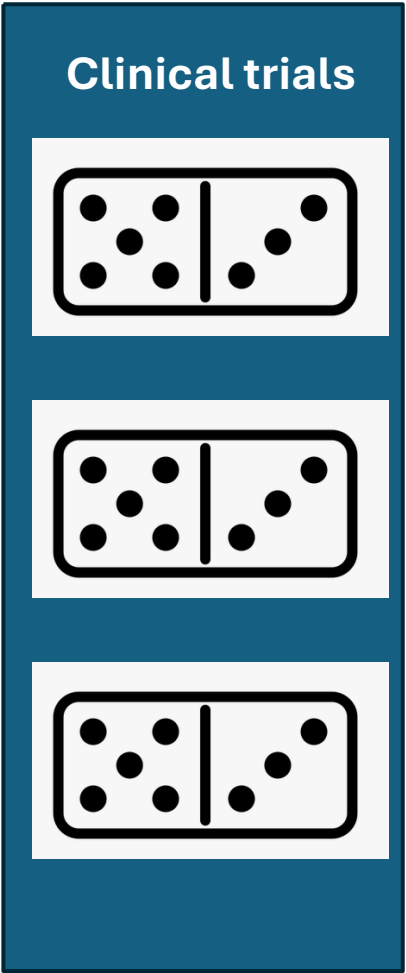


Erdafitinib

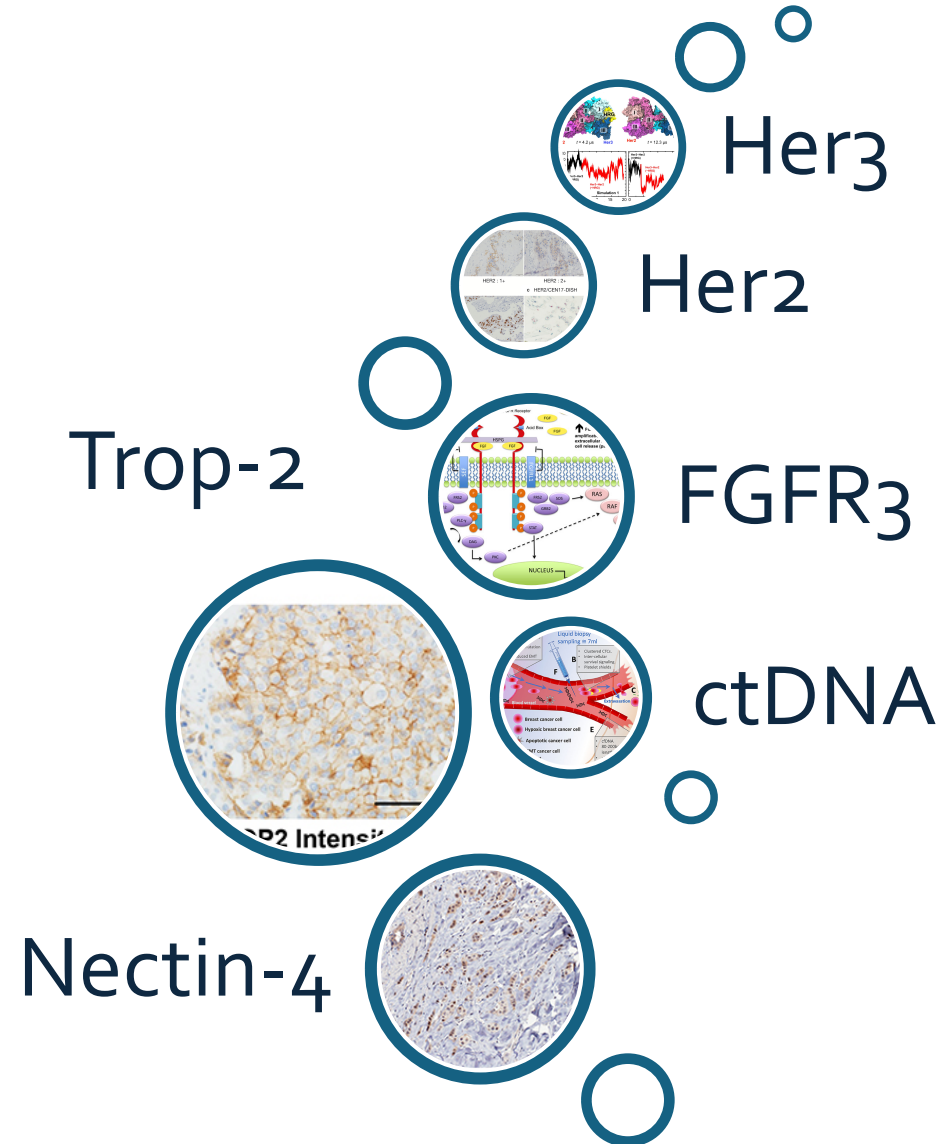


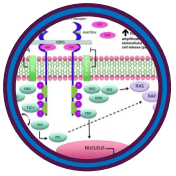


EV+ Pembro



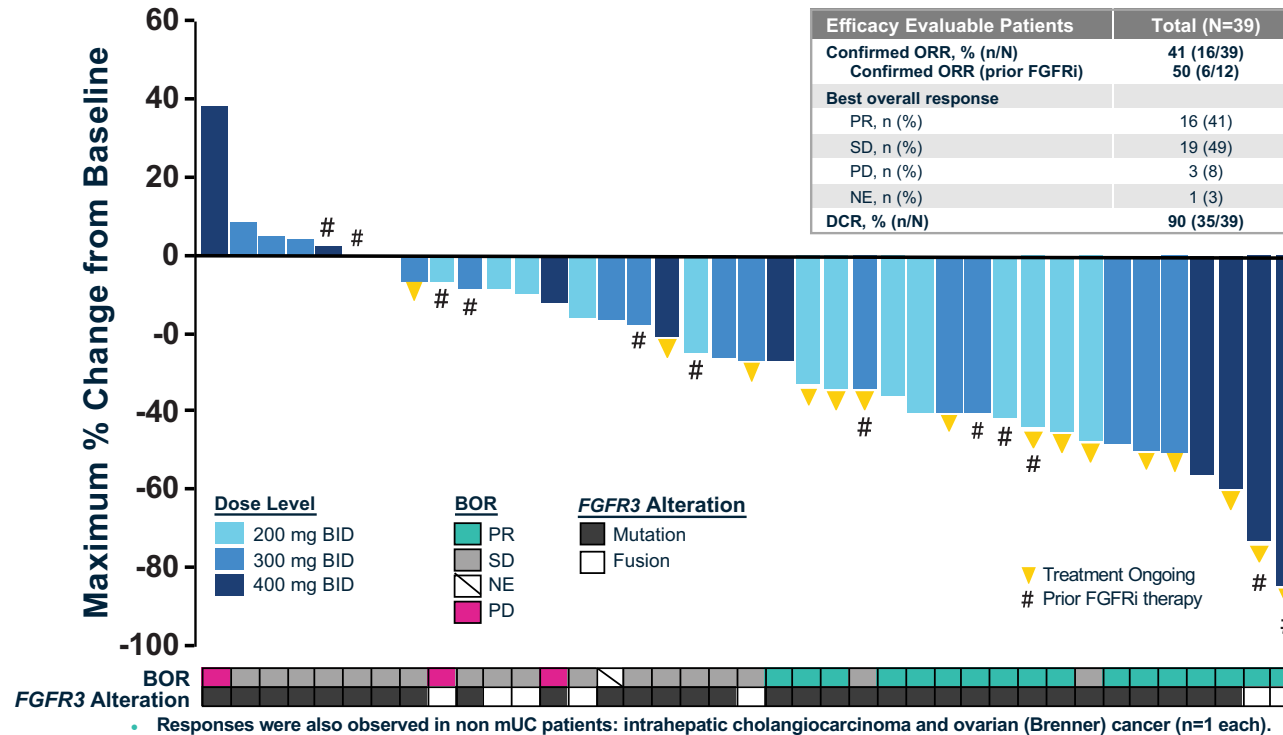
Biomarkers of Interest in Urothelial carcinoma



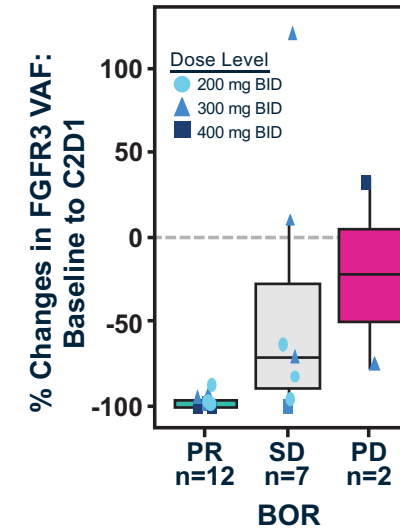


New FGFR3 Inhibitors

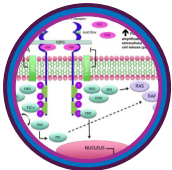
Phase 1 study of LY3866288 (LOXO-435), a potent, highly isoform-selective FGFR3 inhibitor (FGFR3i) in advanced solid tumors with FGFR3 alterations: Initial results from FORAGER-1



FGFR3 Variant Allele Frequency



- Median time to response was 1.4 (1.2-2.6 months)
- 12 (75%) of 16 confirmed responders remain on treatment; median duration of response is immature



Safety: LY3866288 and other FGFR3i

LY38662881

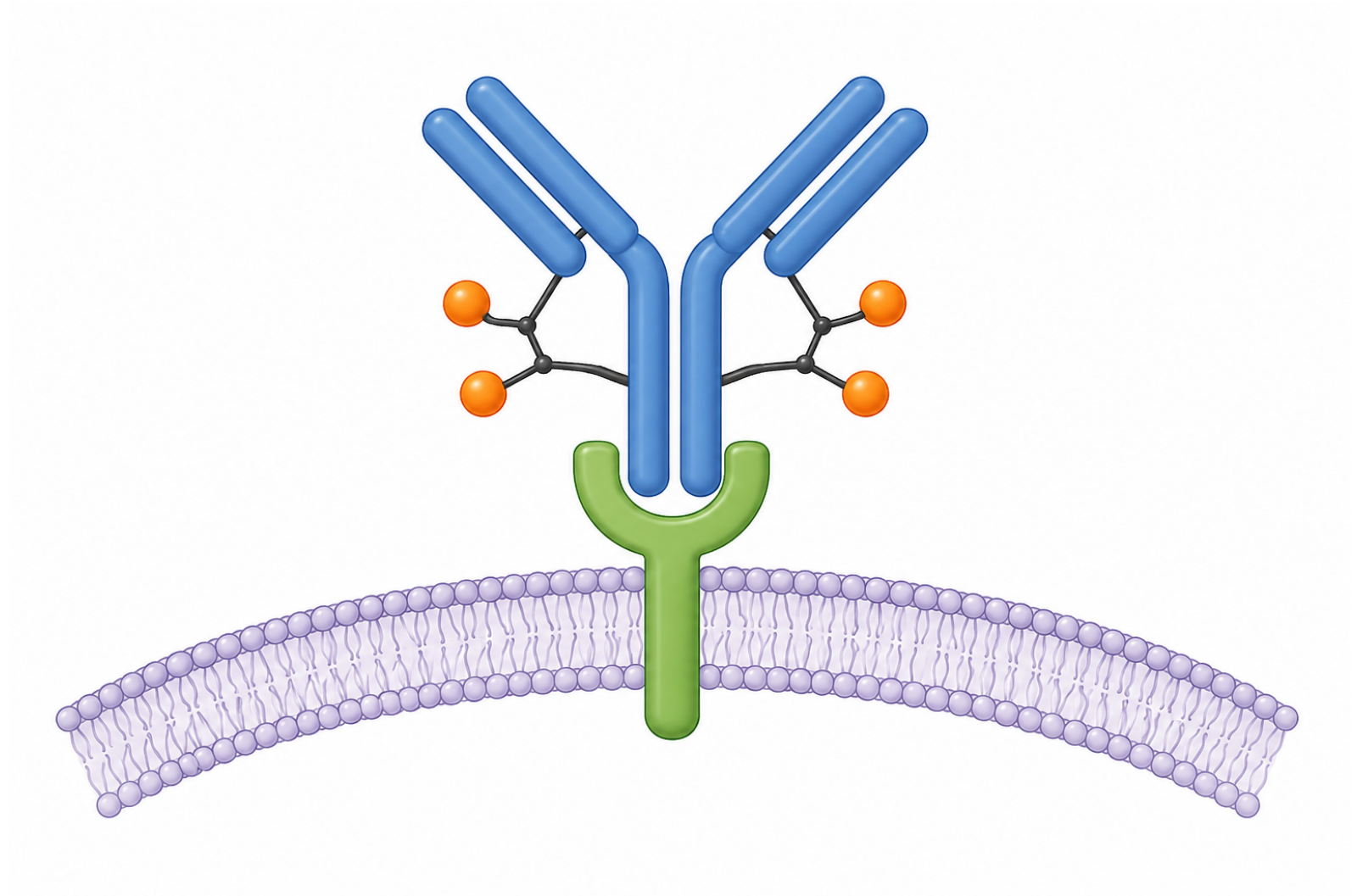
Treatment-Emergent AEs ≥20%				
	All Patients (N=107)		200 mg, 300 mg, 400 mg BID (n=70)	
All TEAEs, %	Any Grade	Grade ≥3	Any Grade	Grade ≥3
Any	98	45	100	46
Diarrhea	63	3	76	4
Fatigue	26	<1	29	1
ALT increased	22	7	29	9
AST increased	22	7	29	9
Decreased appetite	21	3	24	1
AEs of interest, %				
Skin disorders	42	3	46	4
Hand-foot (PPE)	6	2	9	3
Hyperphosphatemia	26	<1	36	1
Eye disorders	19	-	21	-
Retinopathy	4	-	4	-
Stomatitis	18	<1	23	1
Nail disorders	16	-	19	-
Dry mouth	14	-	17	-
Dose modifications, %				
Dose reductions due to TEAEs	10		14	
Discontinuations due to TEAEs	5		6	

Other FGFR3i

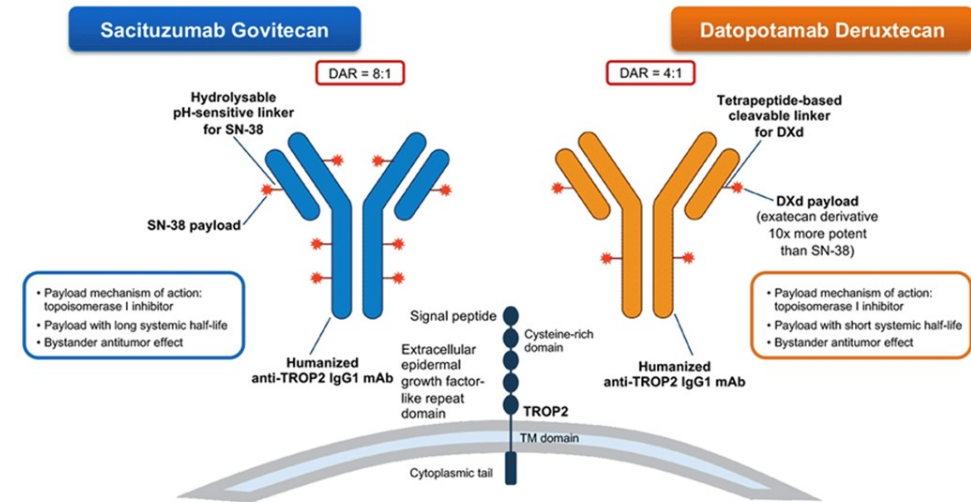
Patients with events, n (%)	Erdaftinib (n=135)
≥1 treatment-related AE (any grade)	131 (97.0)
Hyperphosphatemia	106 (78.5)
Diarrhea	74 (54.8)
Stomatitis	62 (45.9)
Dry mouth	52 (38.5)
PPE syndrome	41 (30.4)
≥1 treatment-related AE leading to discontinuation of study treatment	11 (8.1)

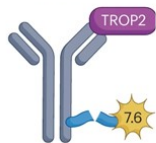
- High-grade FGFR3 related AEs typical for other FGFR3i were very rare
- Dose reductions/discontinuations were uncommon (14.1% in erdaftinib group, median follow-up 5 months) (median follow-up 5 months)

ADCs



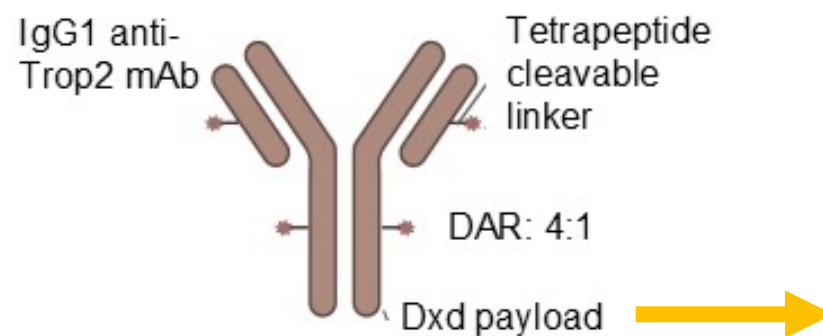
Ab-anti TROP2





Trop2

Datopotamab Deruxtecan

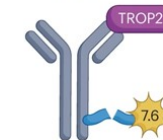


Topoisomerase I inhibitor

Phase I TROPION-PanTumor-01
n=40 mUC cohort, 2L+¹⁰



Phase 1 trial: Datopotemab Derutexan



Key eligibility criteria

- Unresectable locally advanced/metastatic (stage III or IV) urothelial carcinoma (included renal pelvis, ureter, urinary bladder, and urethra)
- Previous treatment with ≥ 1 line of therapy including an immune checkpoint inhibitor
- ECOG PS 0–1
- Unselected for TROP2 expression
- No prior treatment with DXd-ADCs or TROP2-directed therapies

Dato-DXd
6 mg/kg Q3W
(N=40)

Primary endpoints

- Safety and tolerability

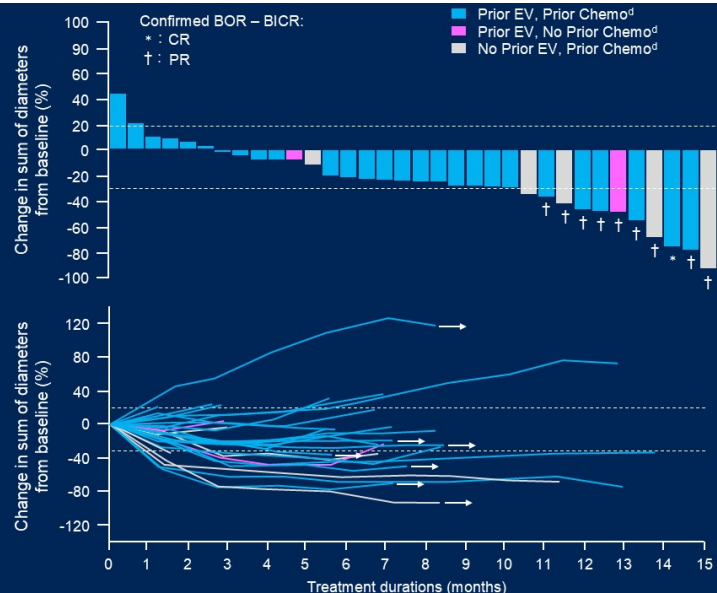
Secondary endpoints (by BICR^a)

- ORR
- DOR
- DCR
- PFS

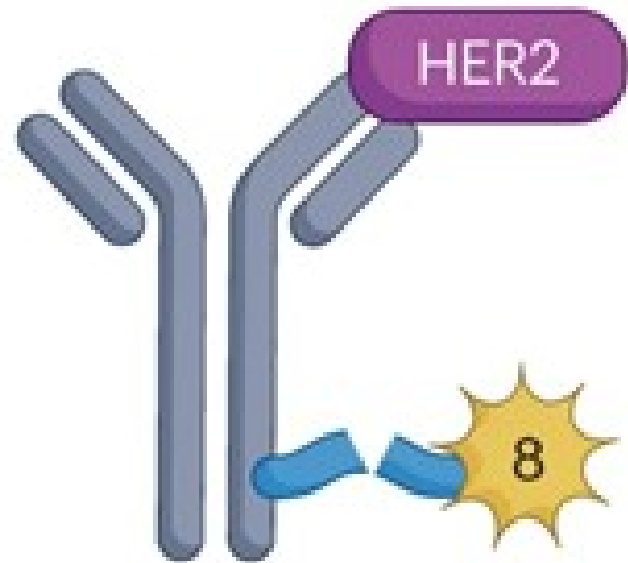
5% pts with brain mets
83% prior EV

Response by BICR ^a	Dato-DXd (N=40)
ORR ^b , n (%) [95% CI]	10 (25.0) [12.7–41.2]
DCR ^c , n (%) [95% CI]	31 (77.5) [61.5–89.2]
BOR, n (%)	
CR	1 (2.5)
PR	9 (22.5)
SD	20 (50.0)
Non-CR/non-PD	1 (2.5)
PD	5 (12.5)
NE	4 (10.0)
DOR, median (95% CI), months	NE (2.6–NE)
6-month DOR rate, % (95% CI)	76.2 (33.2–93.5)

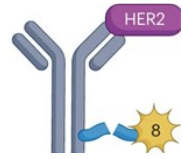
ORR by investigator was 30.0% (n=12); all were PR



Ab-anti HER 2



HER2-directed ADCs in mUC: Promising results



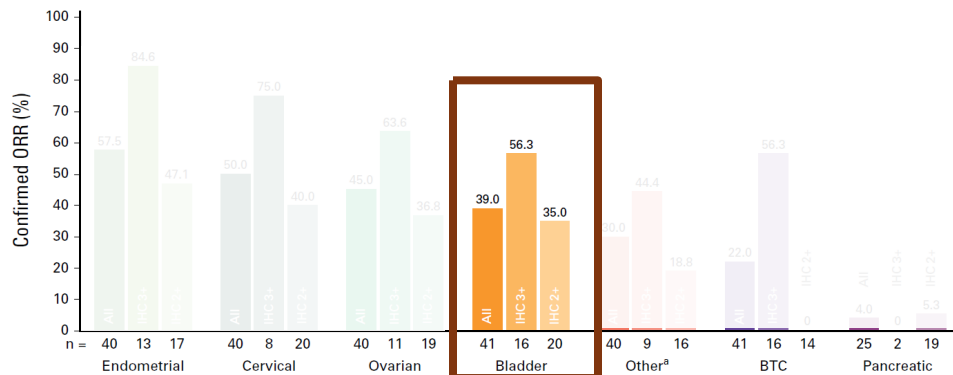
Deruxtecan
(topo-
isomerase II)

Phase II DESTINY-PanTumor02 (Bladder): Trastuzumab Deruxtecan^{1,2}

n = 41 mUC, 2L+,
HER2 IHC 2+/3+
Primary endpoint: ORR

T-Dxd 5.4 mg/kg q3w

Trastuzumab Deruxtecan	
ORR	39.0% (95% CI 24.2, 55.5)
mPFS	7.0 mo (95% CI, 4.2-9.7)
mOS	12.8 mo (95% CI, 11.2-15.1)

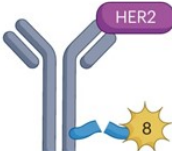
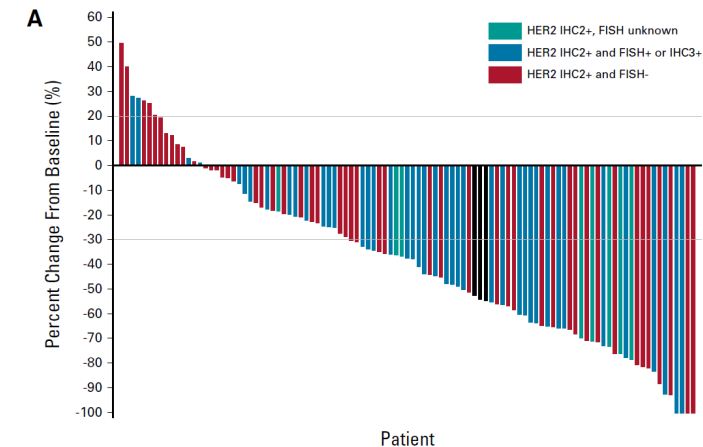


Phase II RC48-C005, RC48-C009: Disitamab Vedotin³

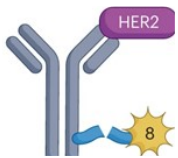
n = 107 mUC, 2L,
HER2 IHC 2+/3+
Primary endpoint: ORR

DV 2.0mg/kg q2w

Disitamab Vedotin	
ORR	50.5% (95% CI, 4.6-60.3)
mPFS	5.9 mo (95% CI, 4.3-7.2)
mOS	14.2 mo (95% CI, 9.7-18.8)



MMAE
(microtubule
inhibitor)



MMAE
(microtubule
inhibitor)

Phase III Disitamab V vs chemotherapy (1L)



Key Inclusion criteria

- No prior systemic treatment for unresectable locally advanced or metastatic UC
- Central lab-confirmed HER2 IHC 1+, 2+, or 3+
- Measurable disease per RECIST v1.1
- Eligible for cisplatin or carboplatin
- ECOG PS 0 or 1

N=243

Disitamab vedotin + Toripalimab

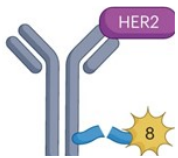
no set maximum cycles

R
1 : 1

N=241

**Gemcitabine +
Cisplatin/Carboplatin**

a maximum of 6 cycles



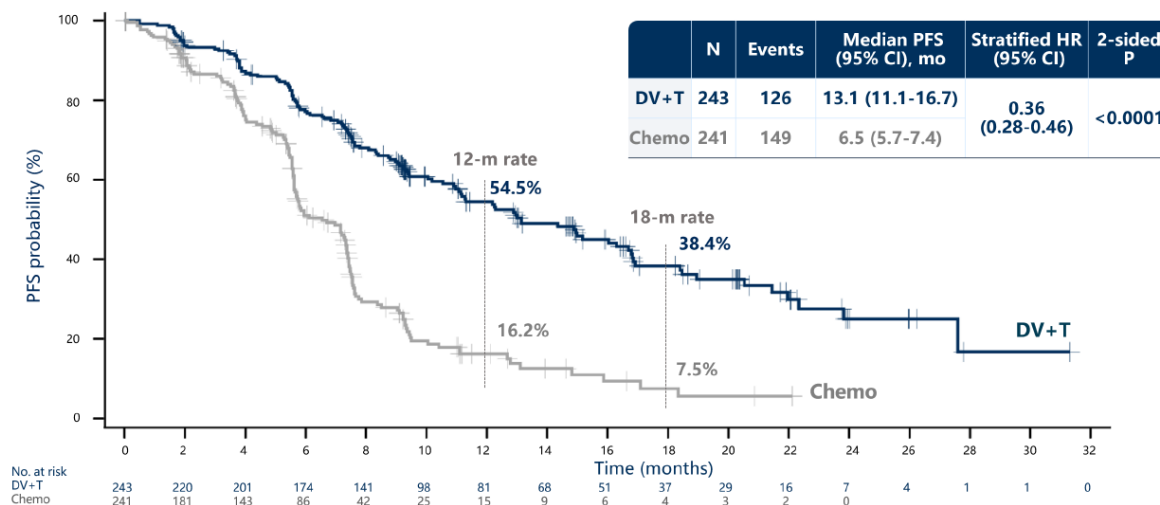
Phase III Disitamab V vs chemotherapy (1L)



Evidence gap in the post-enfortumab setting

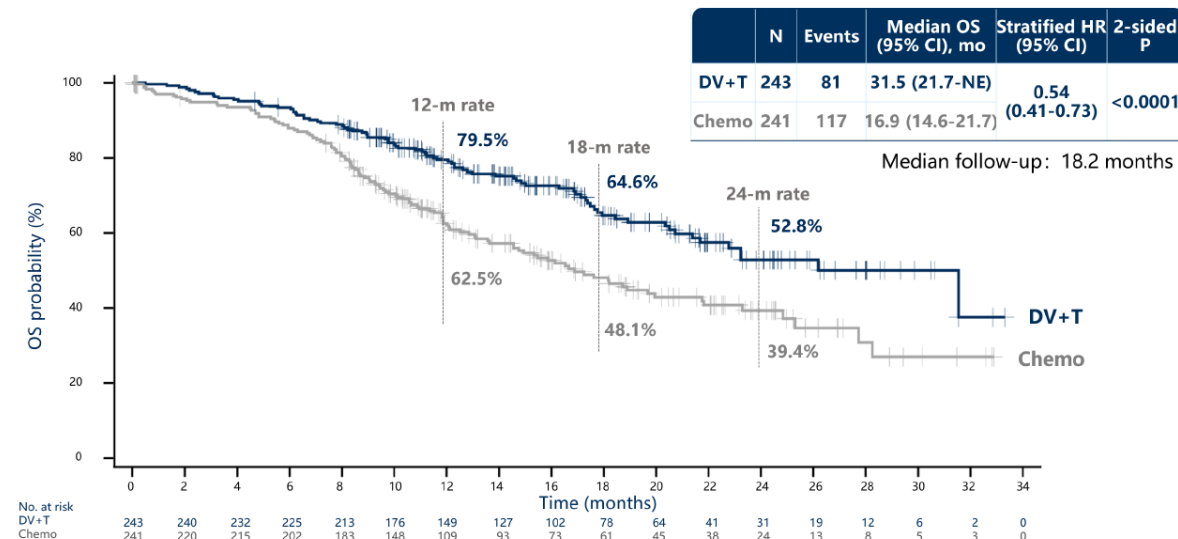
Progression-free Survival according to BIRC

Clinically meaningful reduction in the risk of progression or death by 64% with DV+T



Overall Survival

Clinically meaningful reduction in the risk of death by 46% with DV+T



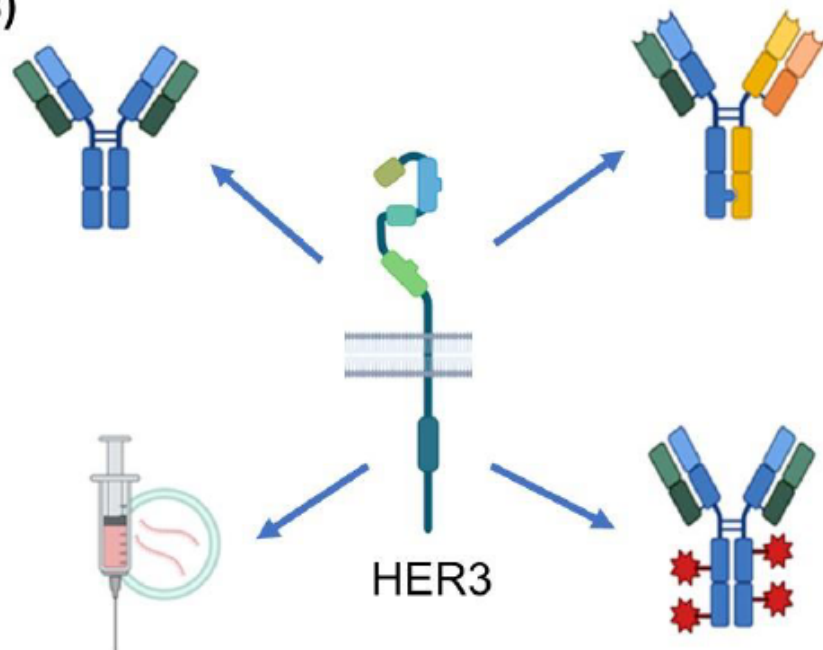
Examples of Drugs Targeting HER3

Monoclonal Antibodies (mABs)

Patritumab
HMBD-001
SIBP-03
GSK2849330

Vaccines

Dendritic cell vaccines
pING-hHER3FL (plasmid DNA)



New target and bispecifics

Bispecific Antibodies (bABs)

Zenocutuzumab (HER2 x HER3)
SI-B001 (EGFR x HER3)

Antibody Drug Conjugates (ADCs)

Patritumab deruxtecan

YL202/BNT326

ENV-501

SHR-A2009

SIBP-A13

AK138D1

AMT-562

EO-1022

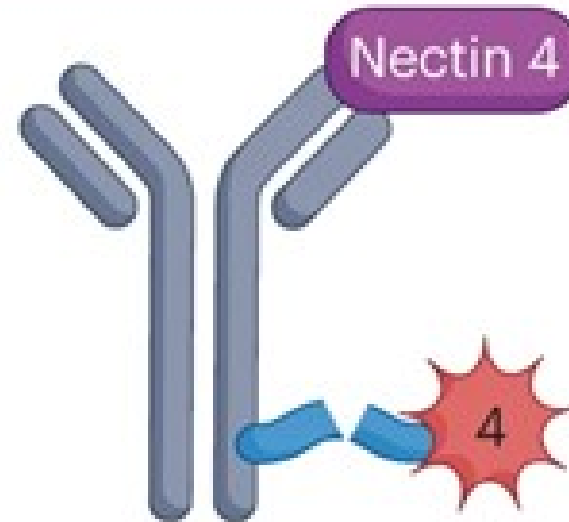
DB-1310

Iza-bren /BL-B01D1 (EGFR x HER3 bispecific)

BCG022 (MET x HER3 bispecific)

DM002 (MUC1 x HER3 bispecific)

Ab-anti Nectin 4





Nectin-4 expression post-EVP

61 tissue pre e post EV

Figure 2: Changes in membranous (TOP) and cytoplasmic (BOTTOM) Nectin4 expression by resistance pattern (A), and among patients with residual disease at definitive surgery (B)

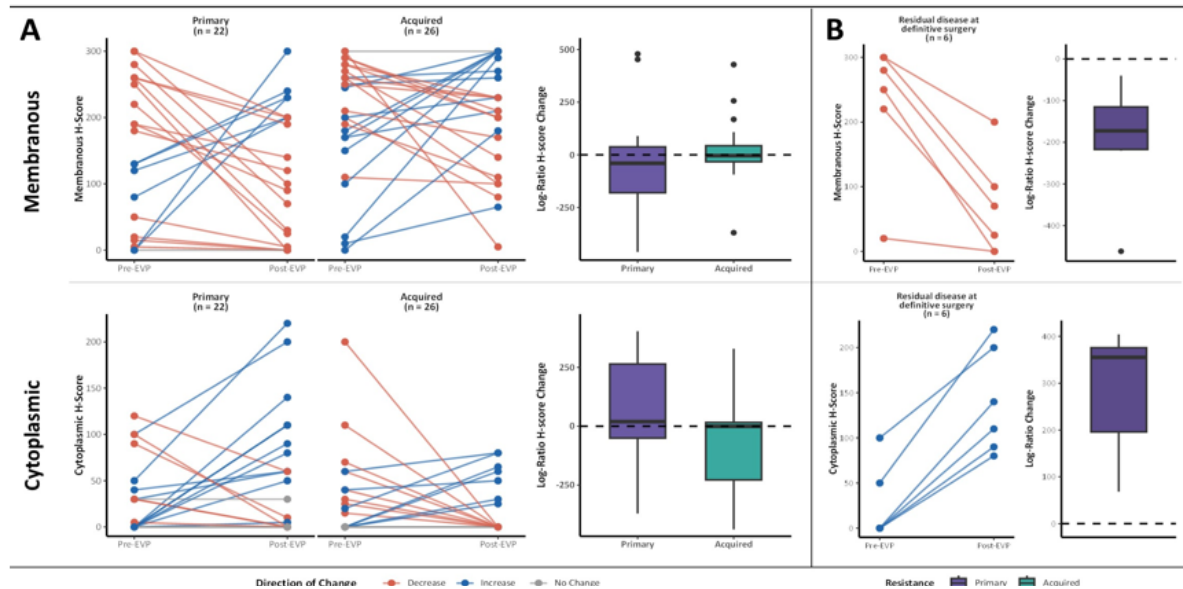
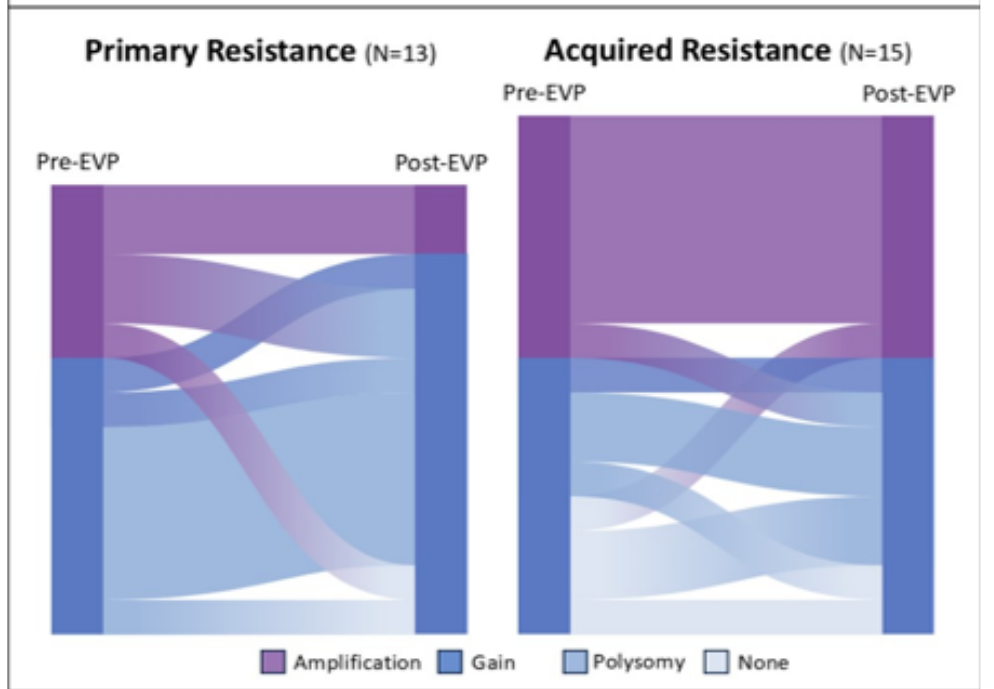


Figure 3: Changes in NECTIN4 FISH by resistance



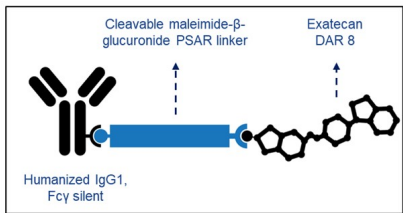
Conclusions

- In a paired analysis, most tumors retained membranous Nectin4 expression post-EVP, and complete target loss was rare, supporting the rationale for Nectin4-directed strategies in the post-EVP setting.
- Nectin4 dynamics did not differ significantly by resistance pattern, though the numerically higher log change in mNectin4 in primary resistance and the observed patterns in the perioperative setting warrants further investigation in larger cohorts.

Nectin-4 Targeted Agents in Development



Nectin 4 Targeted agents under development	Payload	Linker
Zelenectide pevonedotin (BT8009)	MMAE	Bicycle Drug Conjugate peptidase-cleavable sarcosine spacer chain / valine-citrulline
Bulumtatug fuvedotin (9MW2821)	MMAE	protease-cleavable
CRB-701 (SYS6002)	MMAE	Cleavable
ETx-22 (LY4101174)	Topo-1 Exatecan	Cleavable Maleimide-beta-glucuronide poly-sarcosine
BAT8007	Topo-1	Enzymatically cleavable
IPH4502	Topo-1 Exatecan	Cleavable, hydrophilic
ADRX-0706	AP052 (tubulin inhibitor)	Protease-cleavable

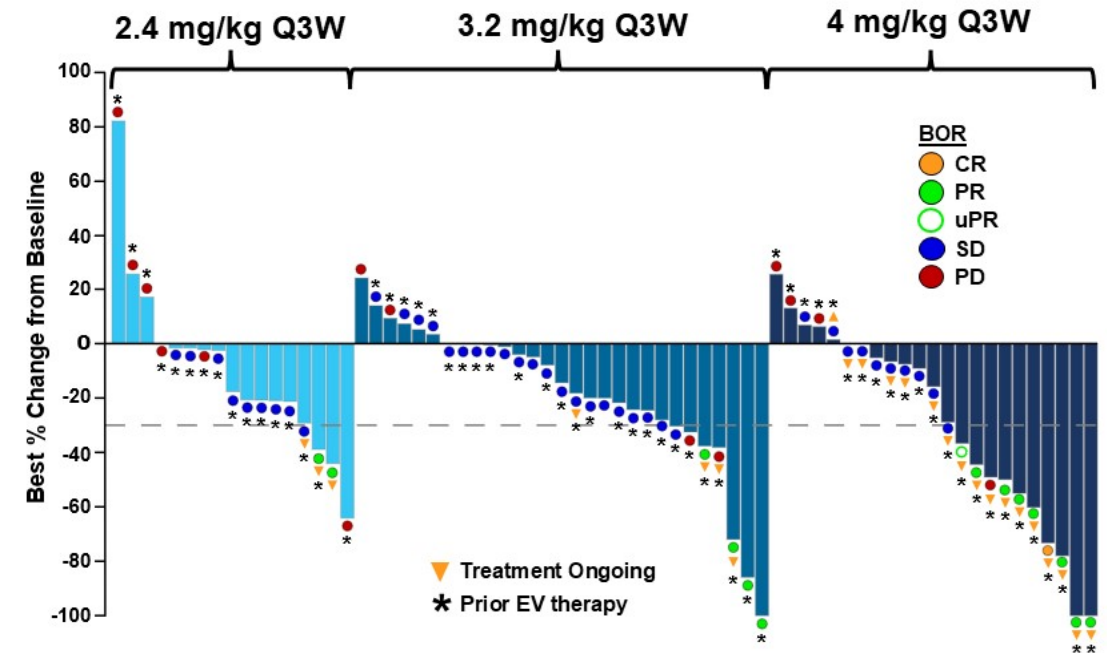


LY4101174 (next generation anti-nectin 4 ADC)



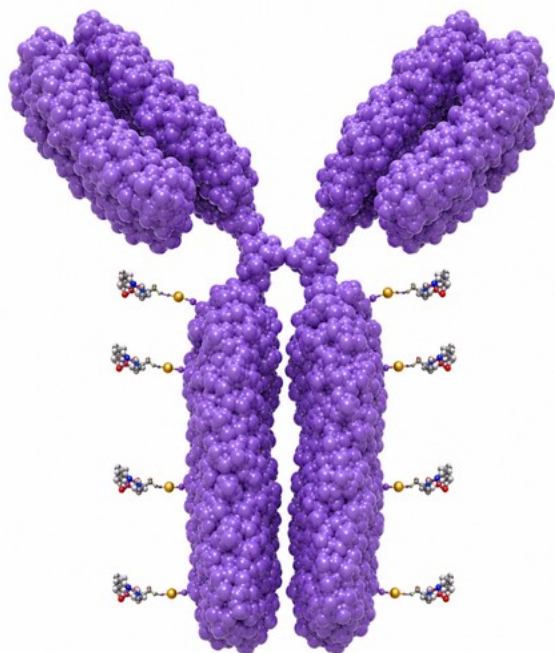
Composed of a humanized IgG1 antibody linked to the Topo-I inhibitor (exatecan)

Efficacy Evaluable Participants ^a	Total Q3W (n=76)	2.4 mg/kg Q3W (n=19)	3.2 mg/kg Q3W (n=32)	4 mg/kg Q3W (n=25)
ORR, % (n)	20 (15)	11 (2)	13 (4)	36 (9)
CR, n (%)	1 (1)	-	-	1 (4)
PR, n (%)	14 ^b (18)	2 (11)	4 (13)	8 ^b (32)
SD, n (%)	40 (53)	9 (47)	21 (66)	10 (40)
DCR, % (n)	72 (55)	58 (11)	78 (25)	76 (19)



- 93% prior EV
- ORR 36%
- **Hematologic toxicities →**
- **discontinuation due to toxicities and low efficacy**

LY4052031 and enfortumab vedotin both target nectin-4 but linker and payload are different



LY4052031

- Nectin-4 ADC
- Topo-I inhibitor, camp98, payload
- A cleavable peptide linker
- Drug antibody ratio (DAR) of 8

Enfortumab vedotin

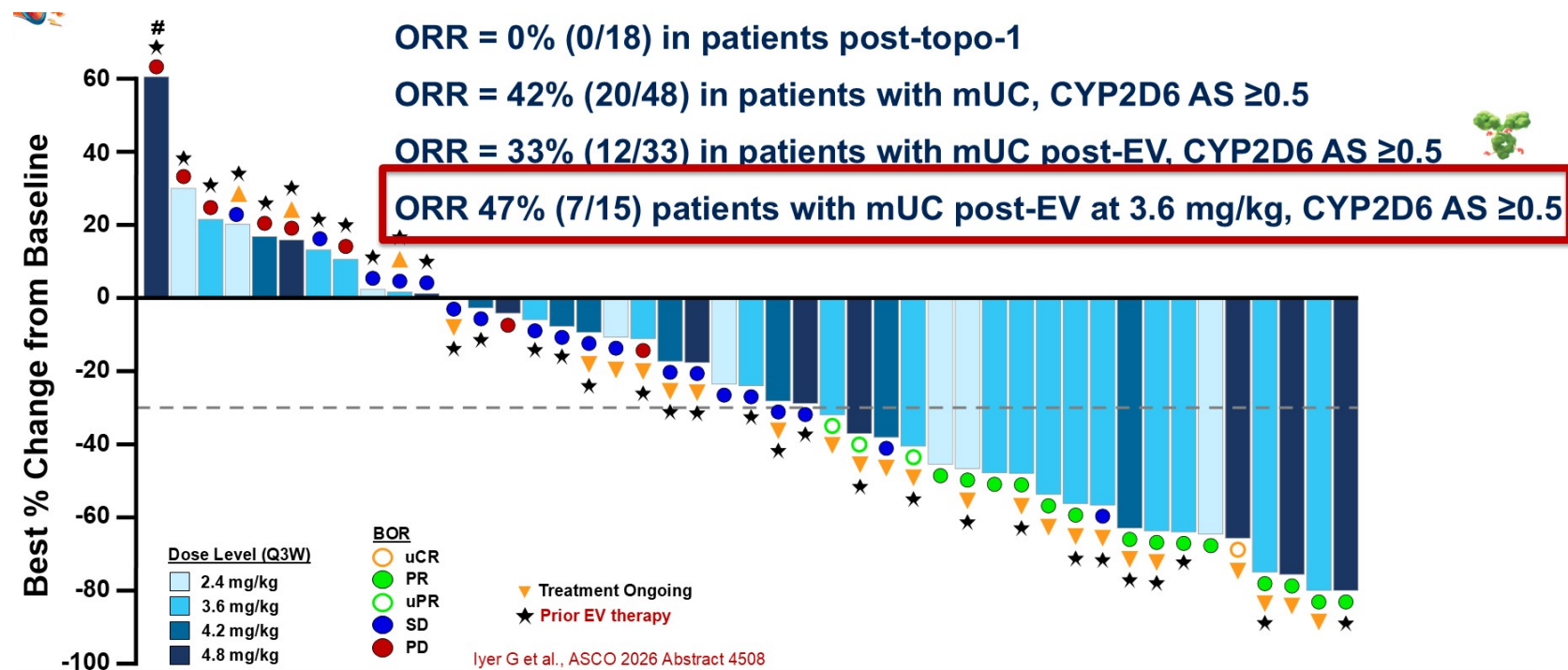




Nexus-01 LY4052031 anti-nectin4

Nex generation anti-nectin-4 target novel Topo-I inhibitor payload (camp98) → DAR8

Preclinical data suggest EV resistance may be mediated bt P-gp-mediated payload efflux



- Clearance of camp98 is mediated by hepatic CYP2D6 genotyping → high risk for severe toxicity
- Median duration of response 7.4 months (95%, CI 2.7-NE) among 9 confirmed responders
- 67% of responders are ongoing

Take home message



EV + pembrolizumab has reshaped first-line treatment of metastatic urothelial carcinoma, creating new challenges for subsequent therapy.



Evidence supporting treatment selection after EV + pembrolizumab remains limited, and current practice is largely guided by expert opinion and retrospective data.



Clinical trials and biomarker-driven strategies will be crucial to optimize treatment sequencing in the post-EV + pembrolizumab era.

Thank you

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