

REUNIÓN VIRTUAL

El Manejo del Paciente con Cáncer

**Renal y Urotelial Avanzado en 2026:
Retos y Oportunidades**

 15 junio 2026

Advanced Bladder Cancer: A global review

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Santander

My disclosures

- **Compensated Advisory Boards:**
 - MSD, BMS, Roche-Genentech, Astellas, PYCYC, IPSEN, Novartis, Bayer, Astra-Zeneca
- **Research Funding [institution]:**
 - Roche-Genentech, Astra-Zeneca
- **Cover of Travel expenses:**
 - Roche-Genentech, IPSEN, Astra-Zeneca, Bayer
- **Clinical Trials [collaboration]:**
 - BMS, Roche-Genentech, PYCYC, Eisai, MSD, Tahoe Oncology, Gilead, Exelixis, Bicycle Therapeutics,
- **Compensated Lectures:**
 - EUSA pharma, MSD, BMS, Roche-Genentech, IPSEN, Jansen, Astellas, Bayer, Astra-Zeneca
- **Clinical trial [lead]:** Gilead [PI of PRISMA-1 study]

Learning objectives

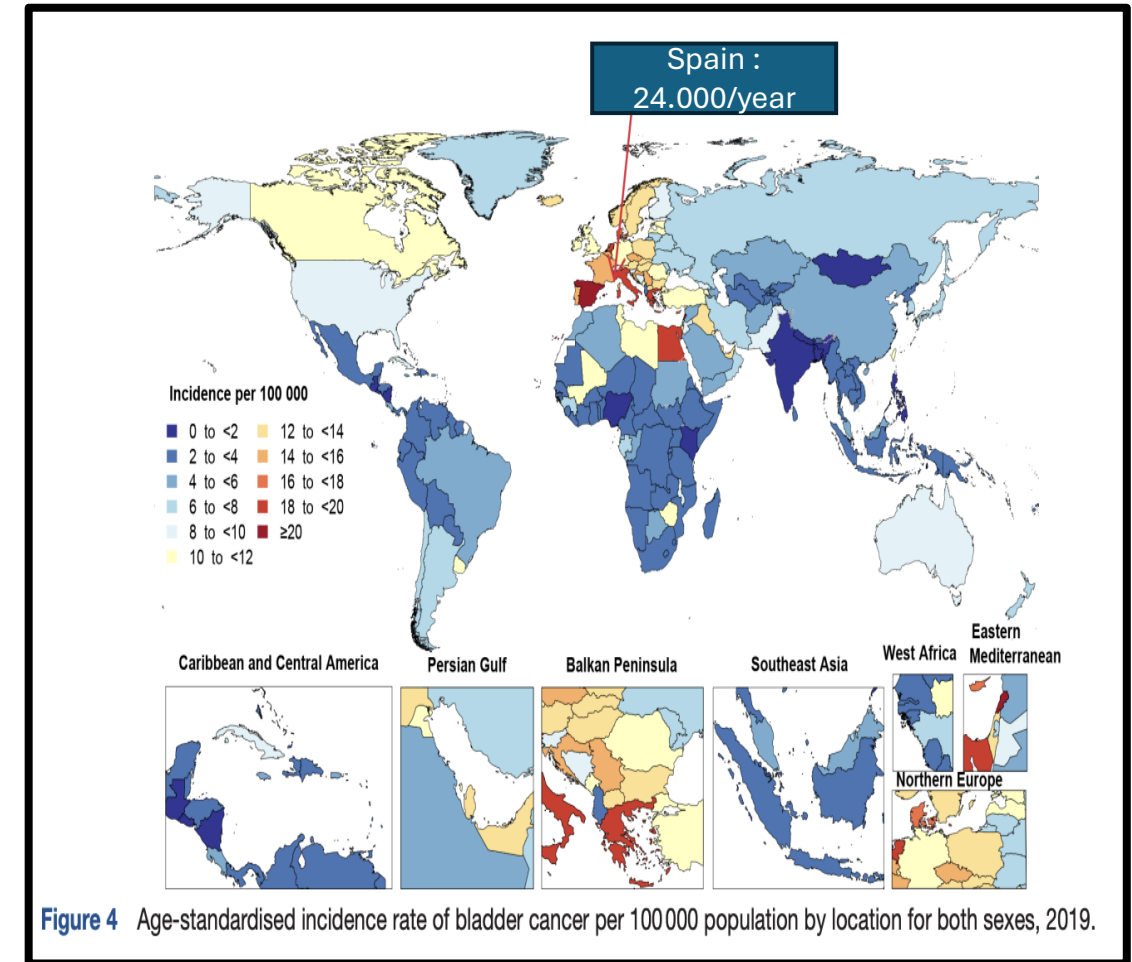
- To briefly review mUC therapeutics with a historical approach and understand current standard of care in June 2026 in Spain as an introduction to the case/s to be discussed

Outline

- Epidemiology
- Introduction
- Historical treatment data
- Current treatment options
- Take home message
- Q&A

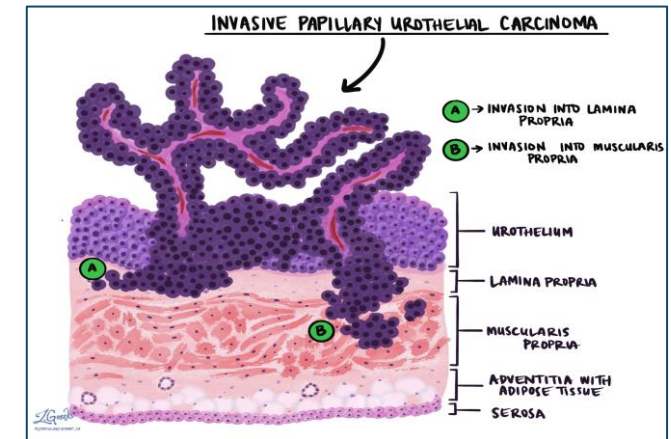
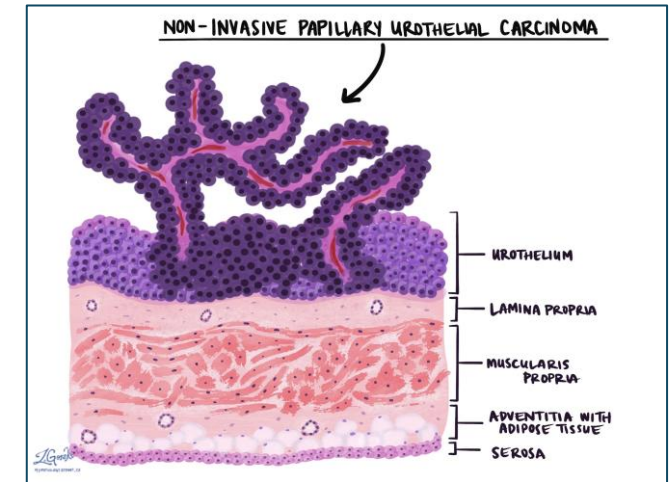
Epidemiology: How relevant is BC?

- **614,298** new diagnoses of bladder cancer worldwide in 2022 and over 220.000 deaths
- Age primary risk factor, **median diagnosis age of 73** in USA [68 y/o in Spain (Ebano)]
- Long-term exposure to carcinogens, **especially tobacco smoke**, accounts for >50% of cases, followed by occupational exposure to aromatic amines, benzene, and ionizing radiation.
- Men are diagnosed **three to four times more frequently than women**, with lifetime risks of 1.1% in men and 0.27% in women.
- In Spain around **24.000 new cases** of bladder cancer are expected in 2026, with an incidence of around 20/105 making it the country with the highest incidence worldwide



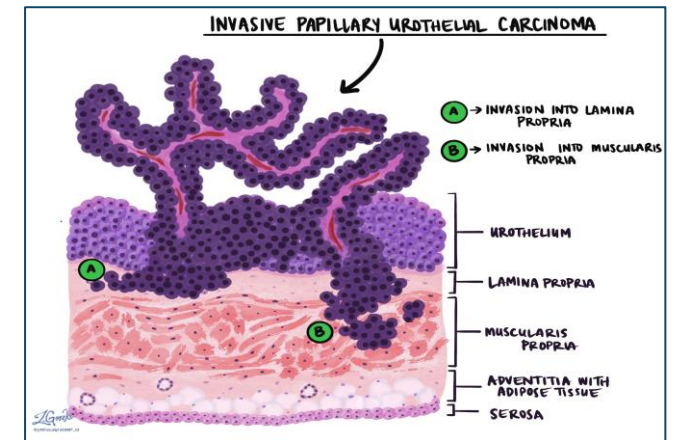
Introduction

- Bladder cancer is classified by invasion depth into **non-muscle-invasive** (NMIBC) and **muscle-invasive** (MIBC) forms.
- NMIBC, confined to the **urothelium and lamina propria**, represents **nearly 70%** of organ-confined bladder cancer with a generally good prognosis.
- MIBC involves the **muscle layer or beyond**, represent **about 20%** of cases at diagnosis and may progress to advanced disease in about half of the cases.



Muscle invasive bladder cancer

- MIBC management typically involves **perioperative treatment** [platinum-based chemotherapy/ADC plus ICI] followed by **radical cystectomy**, pelvic lymph node dissection, and urinary diversion +/- adjuvant treatments
- Alternatives exist that include **bladder preservation strategies** [i.e. chemoradiation] and partial cystectomy in selected cases.
- Despite optimal treatment, MIBC is aggressive, with about 50% progressing to advanced disease



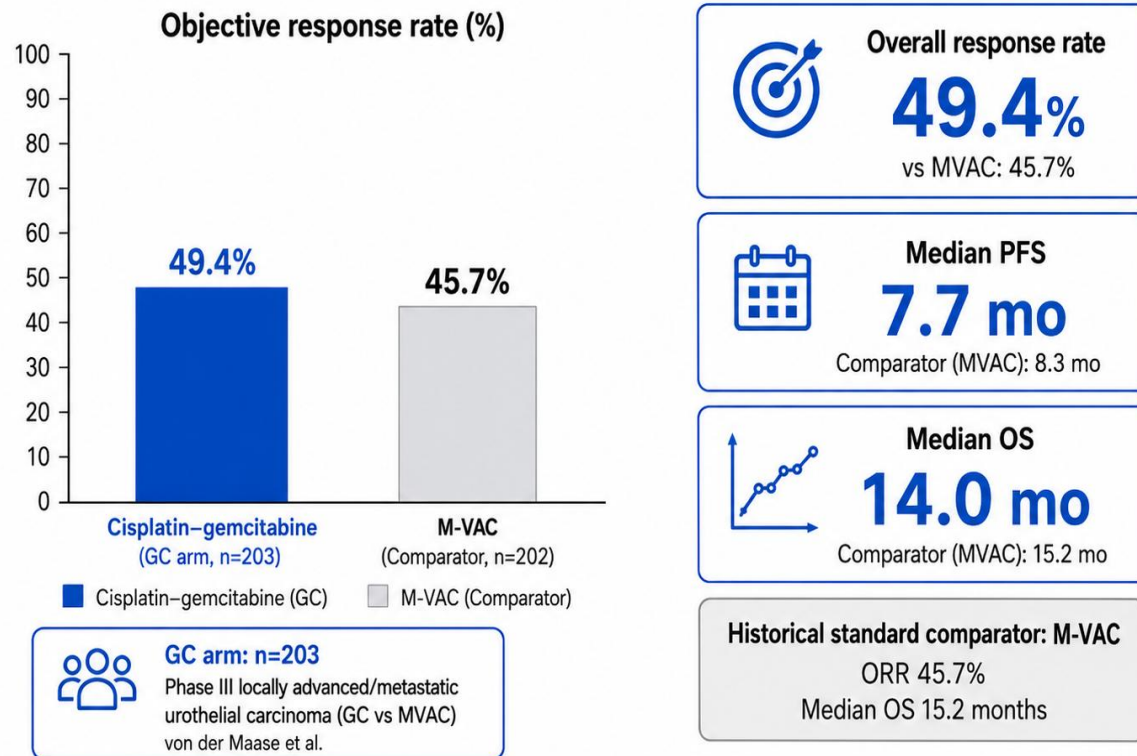
Alfred Witjes, J., et al. European Association of Urology Guidelines on Muscle-invasive and Metastatic Bladder Cancer: Summary of the 2023 Guidelines. Eur Urol, 2024. 85: 17.

Our weapons, not so long ago.....

WE USED TO DIVIDE PATIENTS ACCORDING TO ELIGIBILITY TO RECEIVE CISPLATIN

Cisplatin–gemcitabine in advanced bladder cancer: representative activity

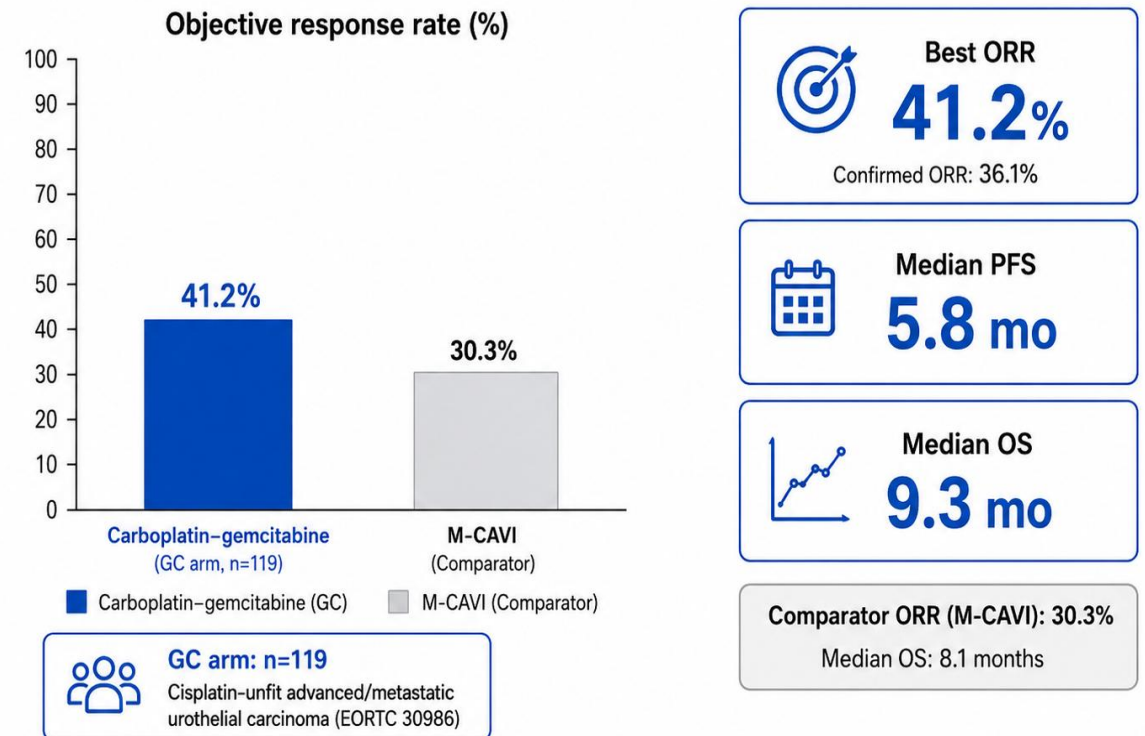
Cisplatin-fit advanced/metastatic urothelial carcinoma (phase III GC vs MVAC)



Representative historical efficacy summary based on von der Maase et al., J Clin Oncol 2000 and long-term follow-up J Clin Oncol 2005 in advanced urothelial carcinoma. Values shown for the cisplatin–gemcitabine arm; comparator shown for context.

Carboplatin–gemcitabine in advanced bladder cancer: representative activity

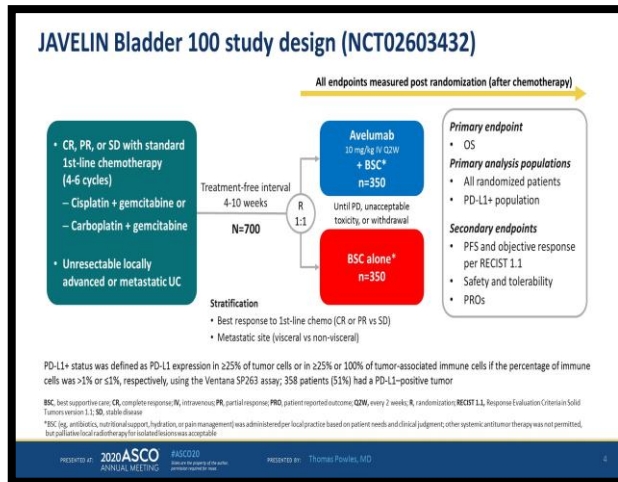
Cisplatin-unfit advanced/metastatic urothelial carcinoma (EORTC 30986)



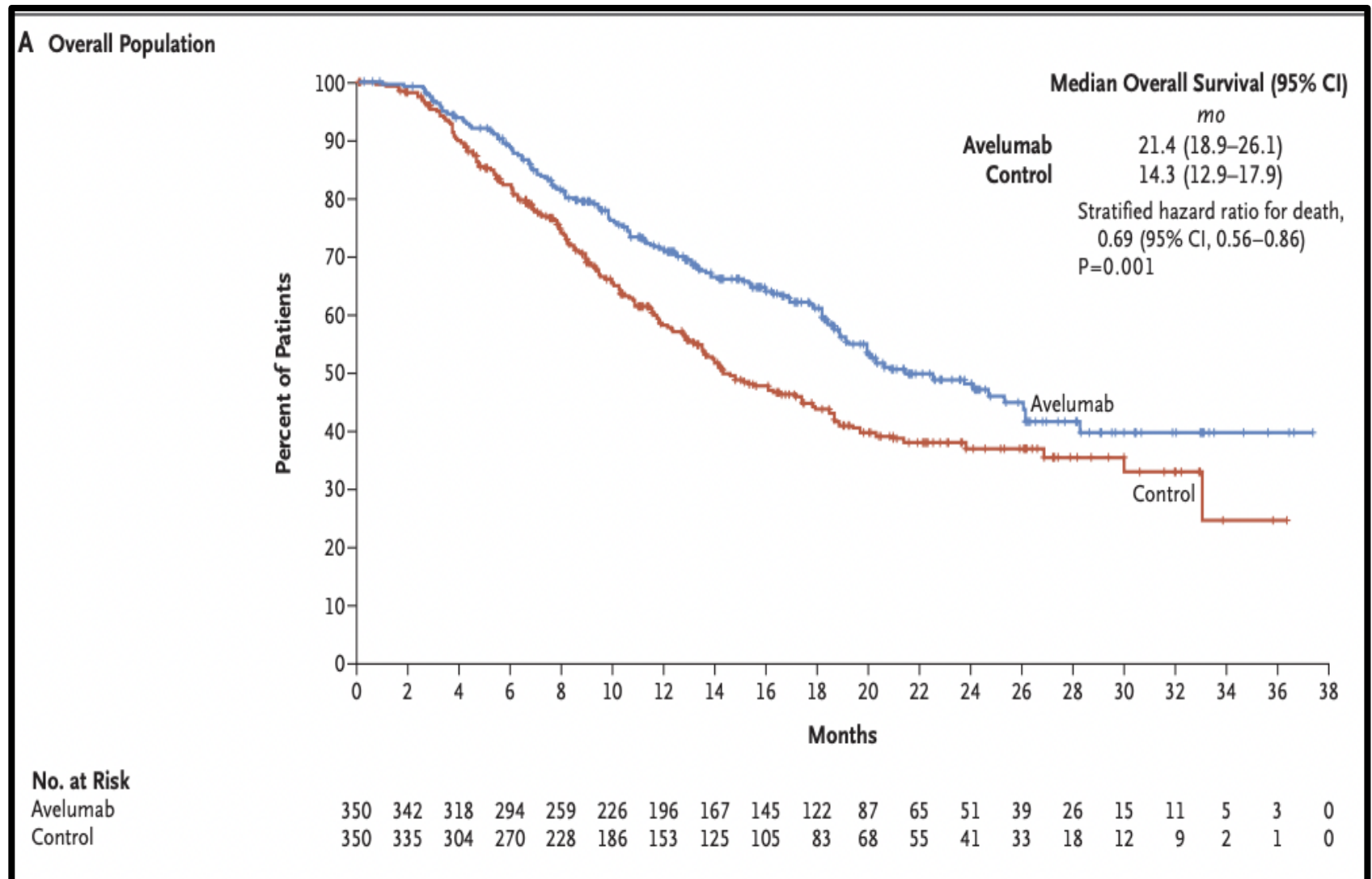
Representative historical efficacy summary based on EORTC 30986 (De Santis et al., J Clin Oncol 2012) in cisplatin-unfit advanced urothelial carcinoma. Values shown for the carboplatin–gemcitabine arm; comparator shown for context.

A historical median overall survival (OS) of 13-15 months and <10% of the patients surviving beyond 5 years

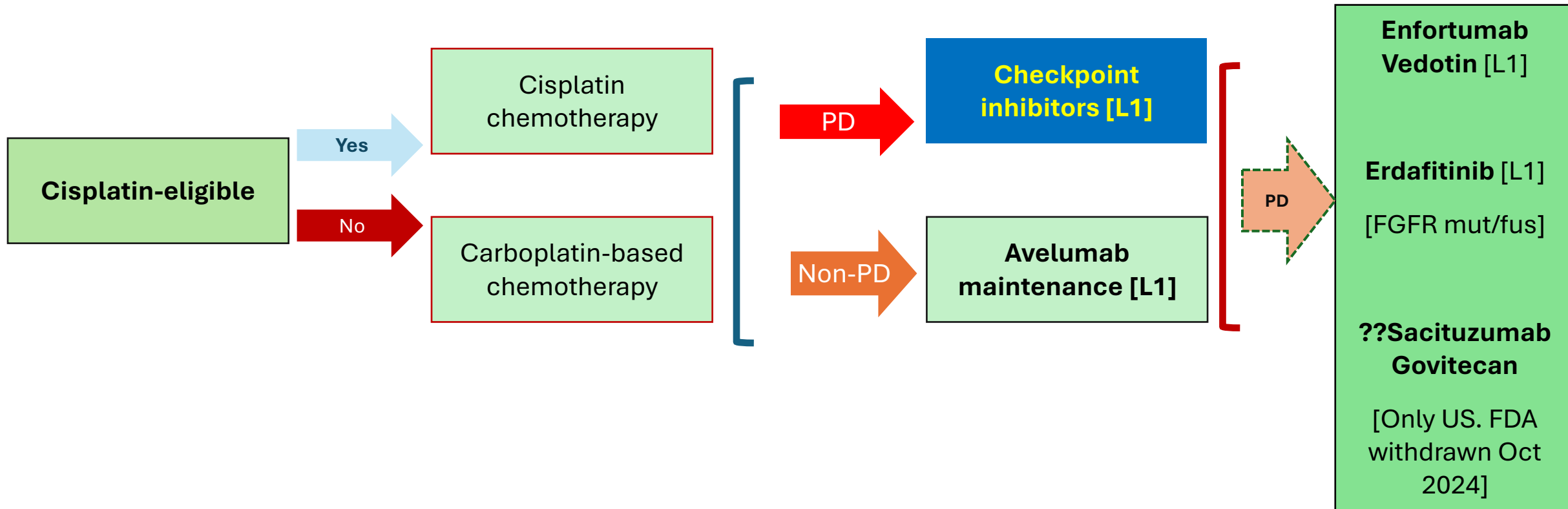
CPI as maintenance as a strategy



JAVELIN showed that first-line maintenance avelumab therapy in patients with advanced urothelial carcinoma with disease that had not progressed with platinum-based chemotherapy resulted in significantly longer overall survival than best supportive care alone



mUC treatment: The picture not so long ago



Where did things start to be cooked?

THERAPEUTICS, TARGETS, AND CHEMICAL BIOLOGY | AUTHOR CHOICE | MAY 12 2016

Enfortumab Vedotin Antibody-Drug Conjugate Targeting Nectin-4 Is a Highly Potent Therapeutic Agent in Multiple Preclinical Cancer Models FREE

Pia M. Challita-Eid ✉; Daulet Satpayev; Peng Yang; Zili An; Karen Morrison; Yuriy Shostak; Arthur Raitano; Rossana Nadell; Wendy Liu; Dawn Ratay Lortie; Linnette Capo; Alla Verlinsky; Monica Leavitt; Faisal Malik; Hector Aviña; Claudia I. Guevara; Nick Dinh; Sher Karki; Banmeet S. Anand; Daniel S. Pereira; Ingrid B.J. Joseph; Fernando Doñate; Kendall Morrison; David R. Stover

Through a suppression subtractive hybridization, it was identified nectin-4 (PVRL4), a type I transmembrane protein and member of a family of related immunoglobulin-like adhesion molecules, as a potential target in epithelial cancers.

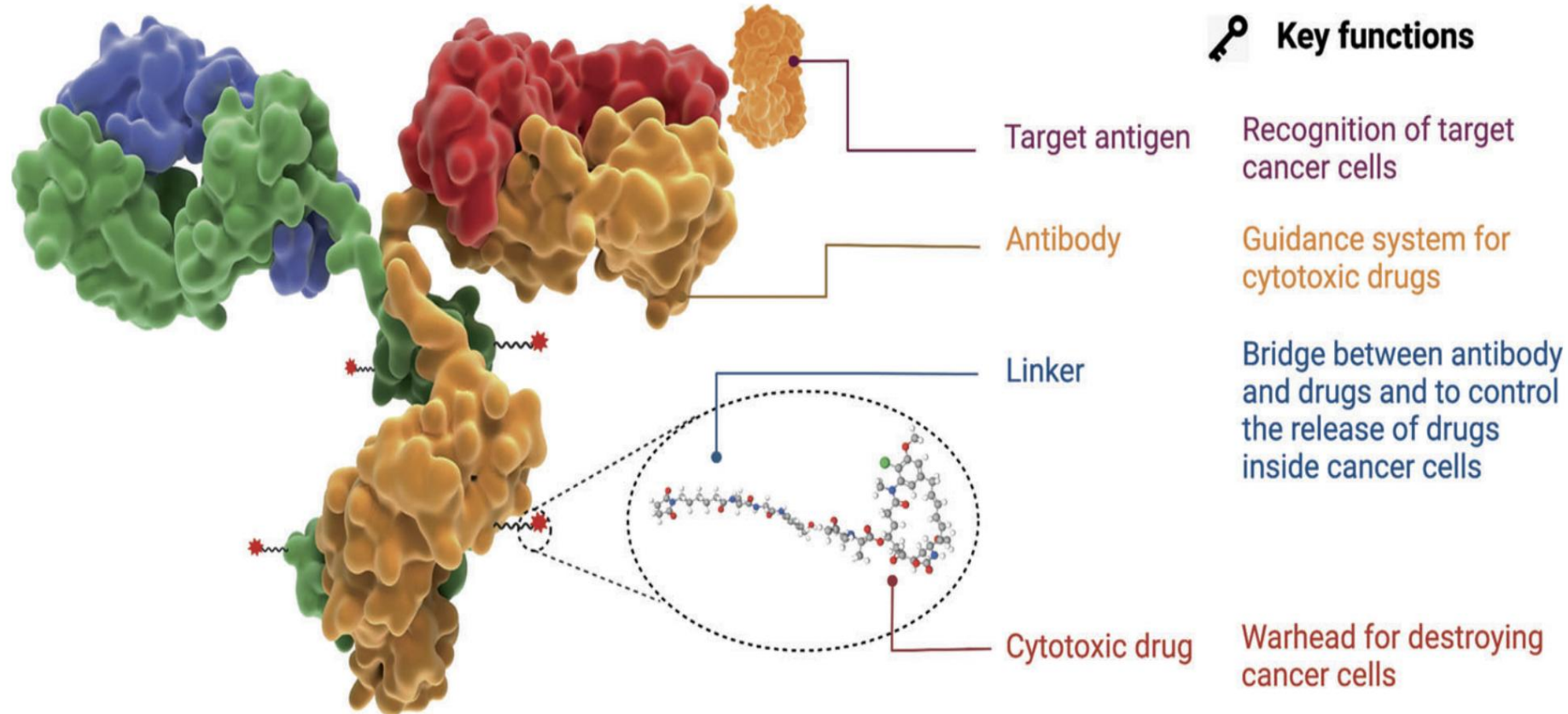
They conducted immunohistochemical analysis of 2,394 patient specimens from bladder, breast, lung, pancreatic, ovarian, head/neck, and esophageal tumors and found that 69% of all specimens stained positive for nectin-4.

Moderate to strong staining was especially observed in **60% of bladder** and 53% of breast tumor specimens, whereas the expression of nectin-4 in normal tissue was more limited.

They generated a novel antibody-drug conjugate (ADC) enfortumab vedotin comprising the human anti-nectin-4 antibody conjugated to the highly potent microtubule-disrupting agent **MMAE**.

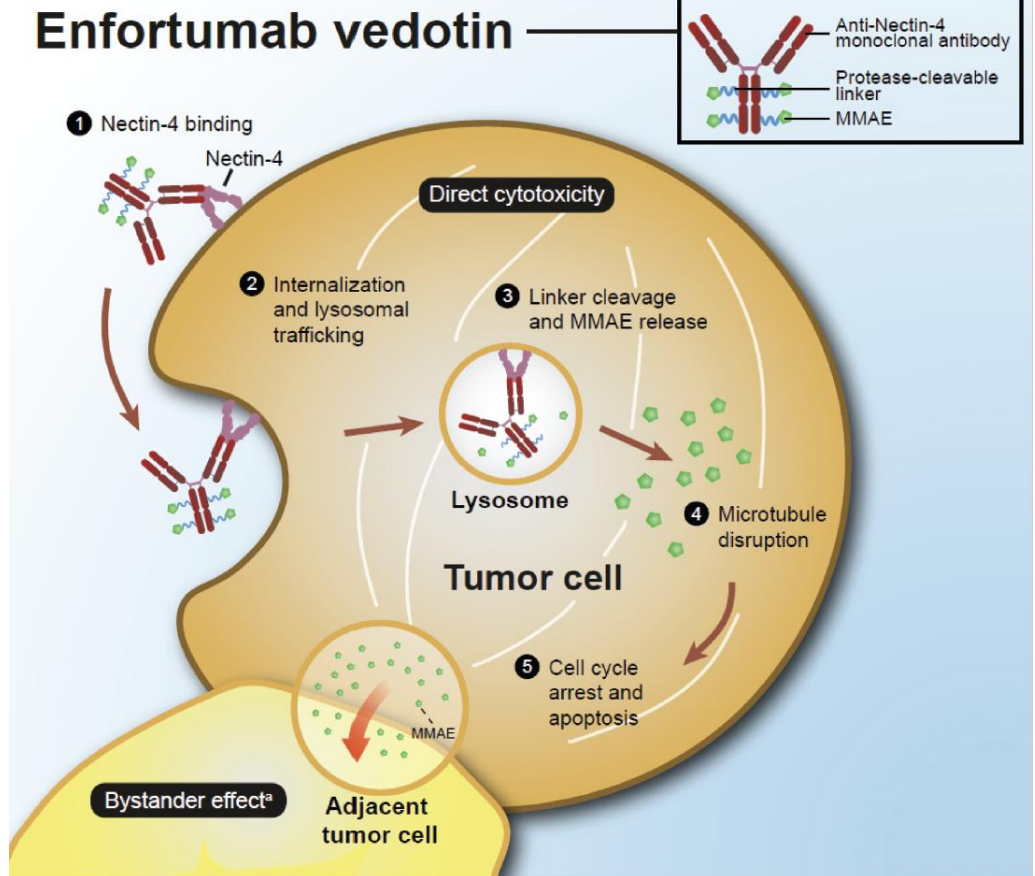
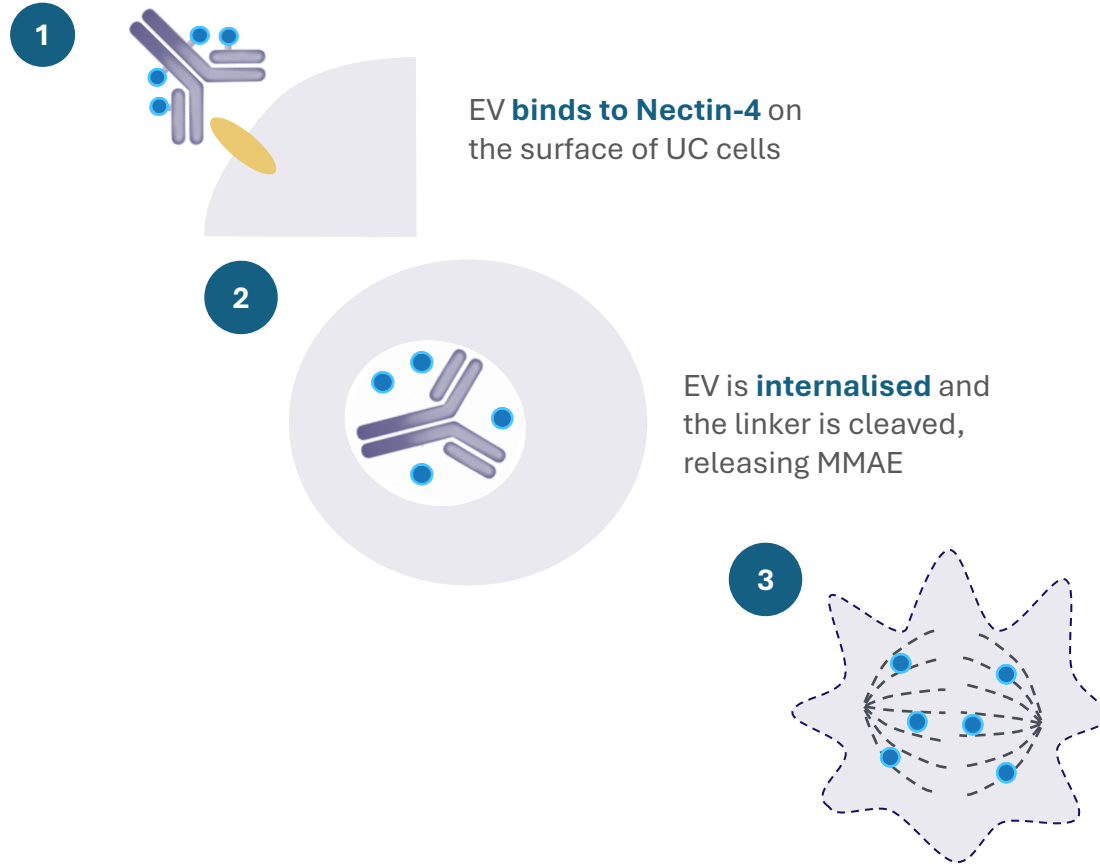
The in vivo efficacy of AGS-22M6E generally **correlated well with the expression level of nectin-4 in xenografts and cell lines**.

A “new” class of drugs: Antibody Drug Conjugate



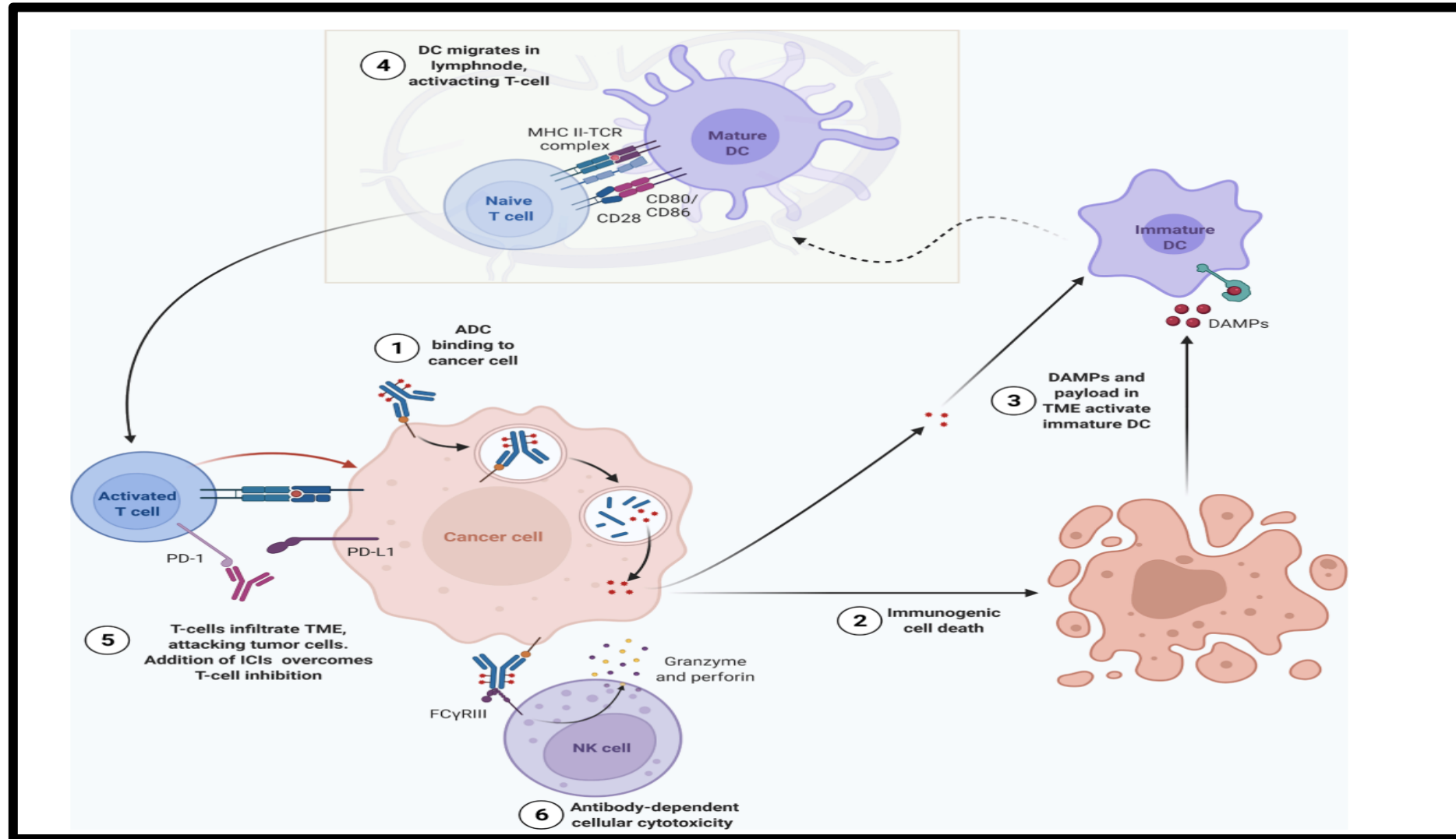
ADC consists of a tumor targeting **mABS** conjugated to a **CYTOTOXIC PAYLOAD** through a sophisticatedly designed **CHEMICAL LINKER**, enabling the ability of precise targeting and potent effectiveness simultaneously.

Mechanism of action

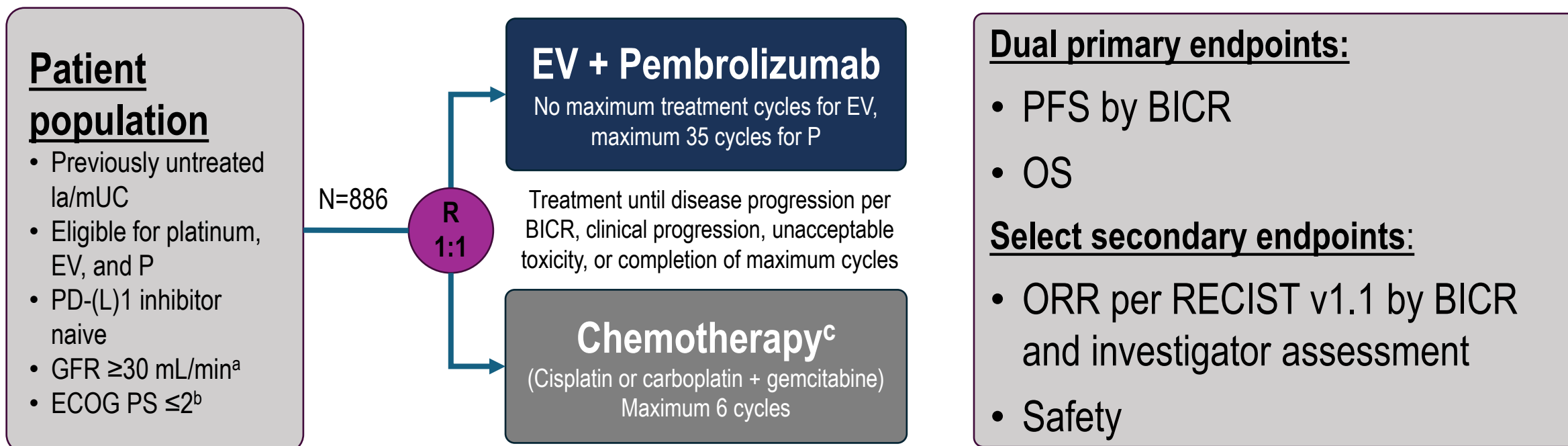


- Image of EV structure adapted from Alt M et al. 2020.³
- ADC, antibody–drug conjugate; EV, enfortumab vedotin; MMAE, monomethyl auristatin E; UC, urothelial carcinoma.
- 1. Moussa M et al. *Drug Des Dev Ther* 2021;15:453–462; 2. Jain RK et al. *Cancer Manag Res* 2020;12:8379–8386; 3. Alt M et al. *Ther Adv Urol* 2020;12:1756287220980192.

Could Immunotherapy be a good partner of EV?



EV-302/KEYNOTE-A39 (NCT04223856)



Stratification factors: cisplatin eligibility (eligible/ineligible), PD-L1 expression (high/low), liver metastases (present/absent)

Cisplatin eligibility and assignment/dosing of cisplatin vs carboplatin were protocol-defined; patients received 3-week cycles of EV (1.25 mg/kg; IV) on Days 1 and 8 and P (200 mg; IV) on Day 1

Statistical plan for analysis: the first planned analysis was performed after approximately 526 PFS (final) and 356 OS events (interim); if OS was positive at interim, the OS interim analysis was considered final

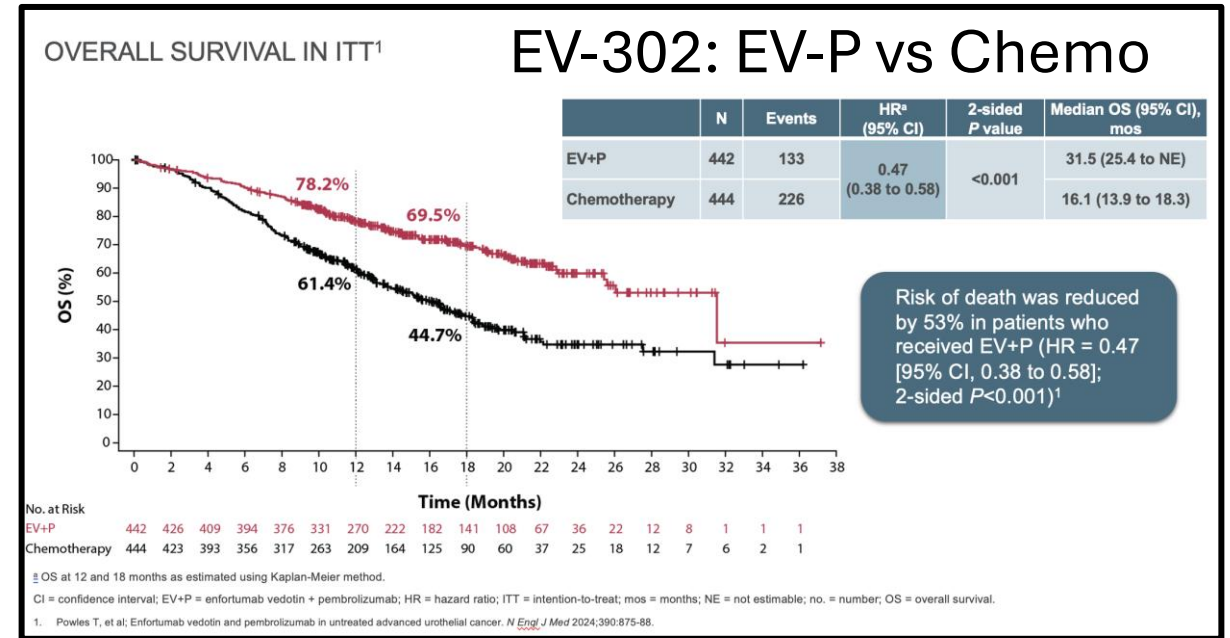
BICR, blinded independent central review; ECOG PS, Eastern Cooperative Oncology Group performance status; GFR, glomerular filtration rate; ORR, overall response rate; PFS, progression-free survival; R, randomization; RECIST, Response Evaluation Criteria in Solid Tumors

^aMeasured by the Cockcroft-Gault formula, Modification of Diet in Renal Disease, or 24-hour urine

^bPatients with ECOG PS of 2 were required to also meet the additional criteria: hemoglobin ≥ 10 g/dL, GFR ≥ 50 mL/min, may not have NYHA class III heart failure

^cMaintenance therapy could be used following completion and/or discontinuation of platinum-containing therapy

mUC treatment: Upside down



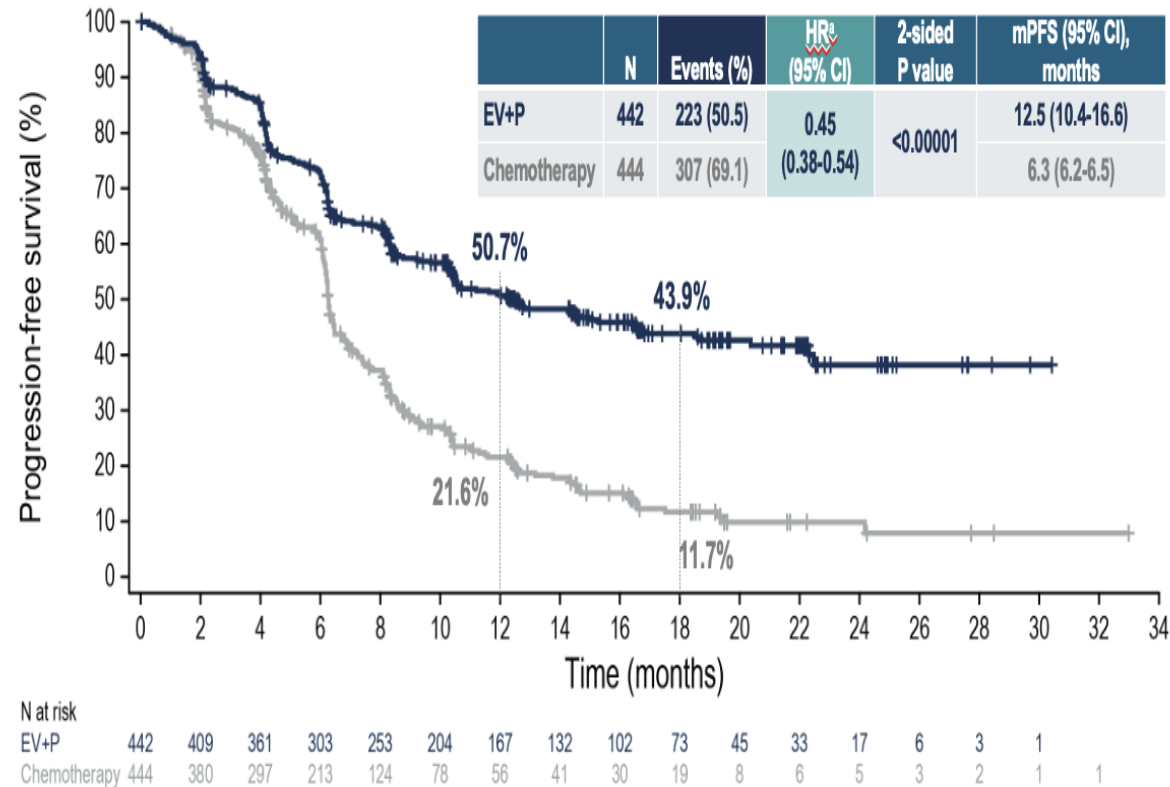
The PD-1 inhibitor **pembrolizumab** combined with the antibody drug conjugate **enfortumab vedotin** (EV) received accelerated Food and Drug Administration (FDA) approval for cisplatin-ineligible 1a/mUC patients and **full approval for first-line 1a/mUC regardless of platinum eligibility**, recommended by ESMO since March 2024 based upon data shared in **ESMO 2023** by Thomas Powles (**Study EV 302-KN-A39**) that showed a substantial benefit for this combo.

The data matured well

Progression-Free Survival per BICR

ESMO 2023

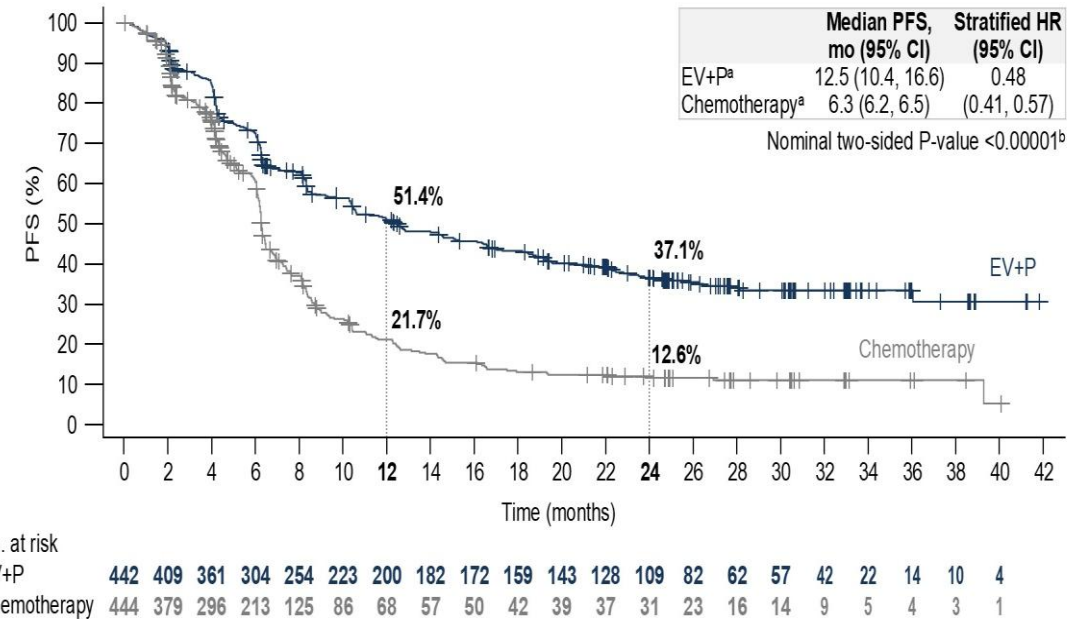
Risk of progression or death was reduced by 55% in patients who received EV+P



PFS by BICR in the Overall Population

ASCO GU 2025

PFS benefit with EV+P was maintained with 1 additional year of follow-up



Data cutoff: August 8, 2024.

EV, enfortumab vedotin; P, pembrolizumab; PFS, progression-free survival.

^aEvents/N were 262/442 for EV+P and 317/444 for chemotherapy. ^bP-value is nominal and descriptive.

ASCO Genitourinary
Cancers Symposium

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KNOWLEDGE CONQUERS CANCER

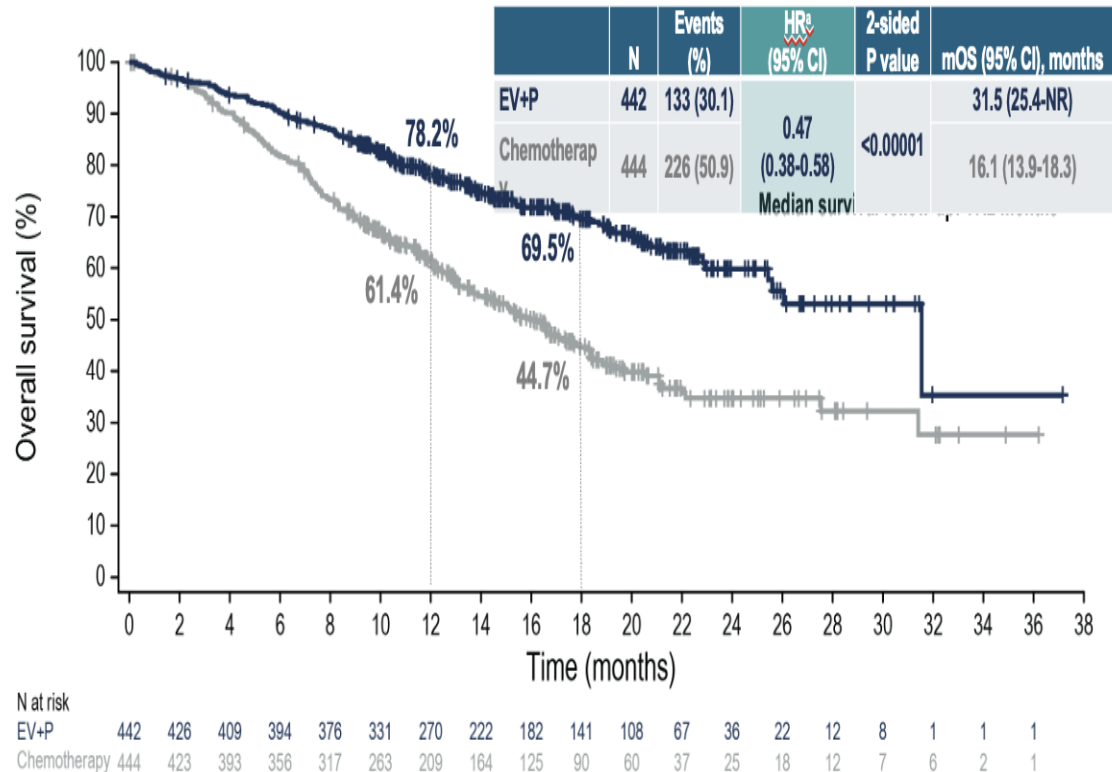
Update PFS unchanged and HR slightly increased: 0.45--→ HR 0.48

The data matured well

Overall Survival

ESMO 2023

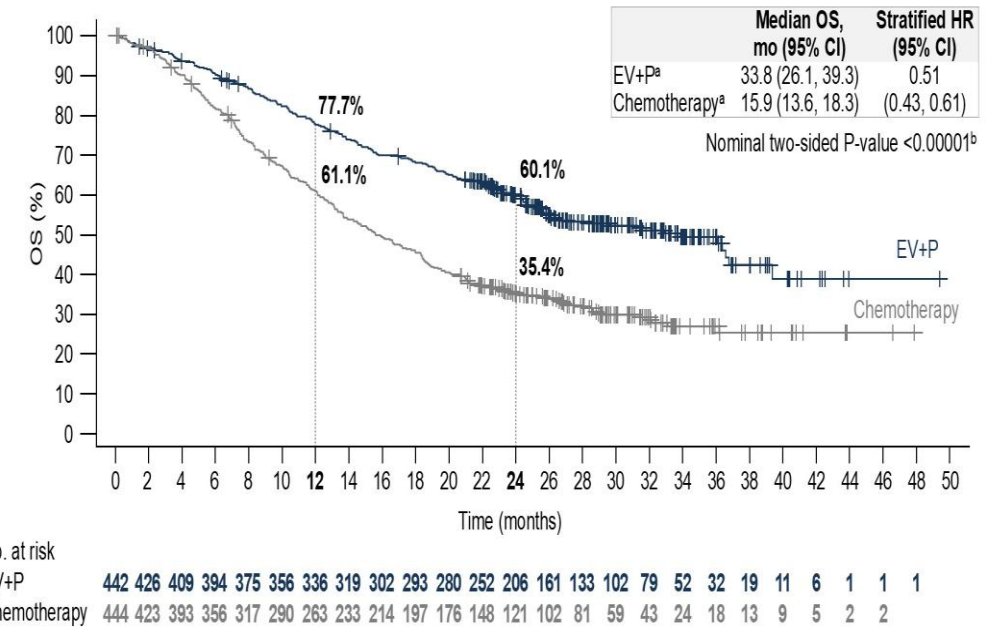
Risk of death was reduced by 53% in patients who received EV+P



OS in the Overall Population

ASCO GU 2025

Risk of death was reduced by almost 50%



Data cutoff: August 8, 2024.

EV, enfortumab vedotin; P, pembrolizumab; OS, overall survival.

^aEvents/N were 203/442 for EV+P and 297/444 for chemotherapy. ^bP-value is nominal and descriptive.

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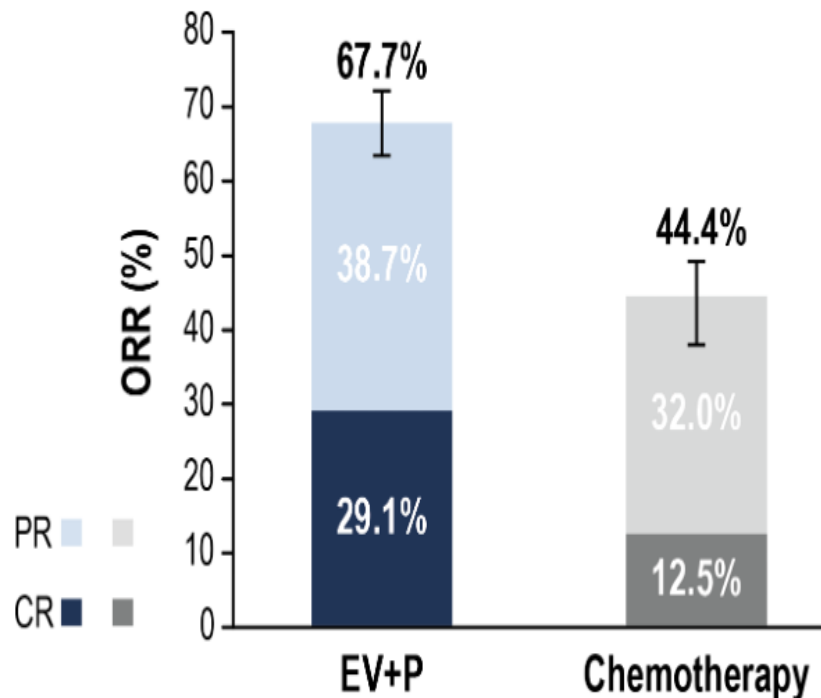
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Update OS approaches 3 years (almost 34 months): HR almost unchanged [HR 0.47--→ HR 0.51]

The main outcomes

Confirmed Overall Response per BICR

Significant improvement in objective response rate was observed with EV+P



Median DOR (95% CI) NR (20.2, NR) 7.0 (6.2, 10.2)

	EV+P (N=437)	Chemotherapy (N=441)
Confirmed ORR, n (%) (95% CI)	296 (67.7) (63.1-72.1)	196 (44.4) (39.7-49.2)
2-sided P value	<0.00001	
Best overall response ^a , n (%)		
Complete response	127 (29.1)	55 (12.5)
Partial response	169 (38.7)	141 (32.0)
Stable disease	82 (18.8)	149 (33.8)
Progressive disease	38 (8.7)	60 (13.6)
Not evaluable/No assessment ^b	21 (4.8)	36 (8.2)

❑ Most patient benefit from EV-P

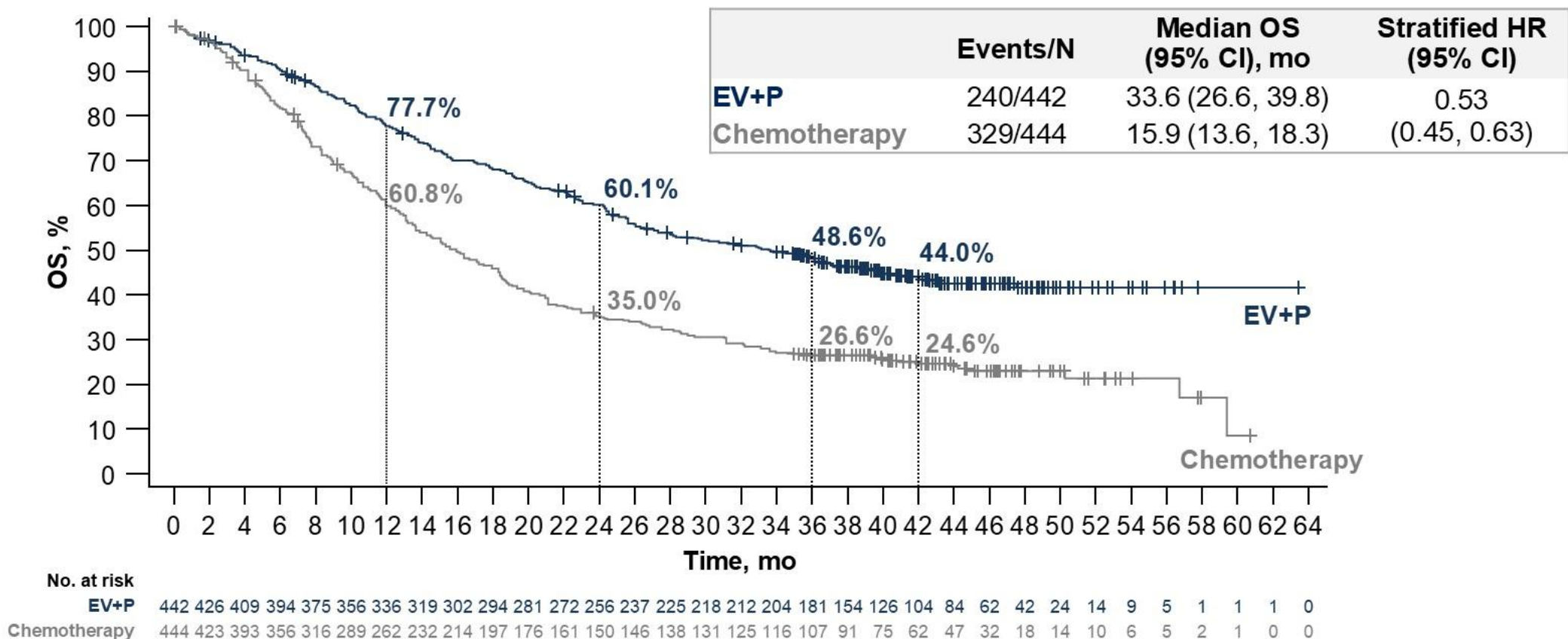
❑ SD+ ORR= 86%

❑ 1 in 3 patients achieve a CR

❑ The magnitude of the difference is remarkable

Are we curing some patients?

At 3.5 years, an estimated 44.0% of patients in the EV+P arm were alive vs 24.6% in the chemotherapy arm^a

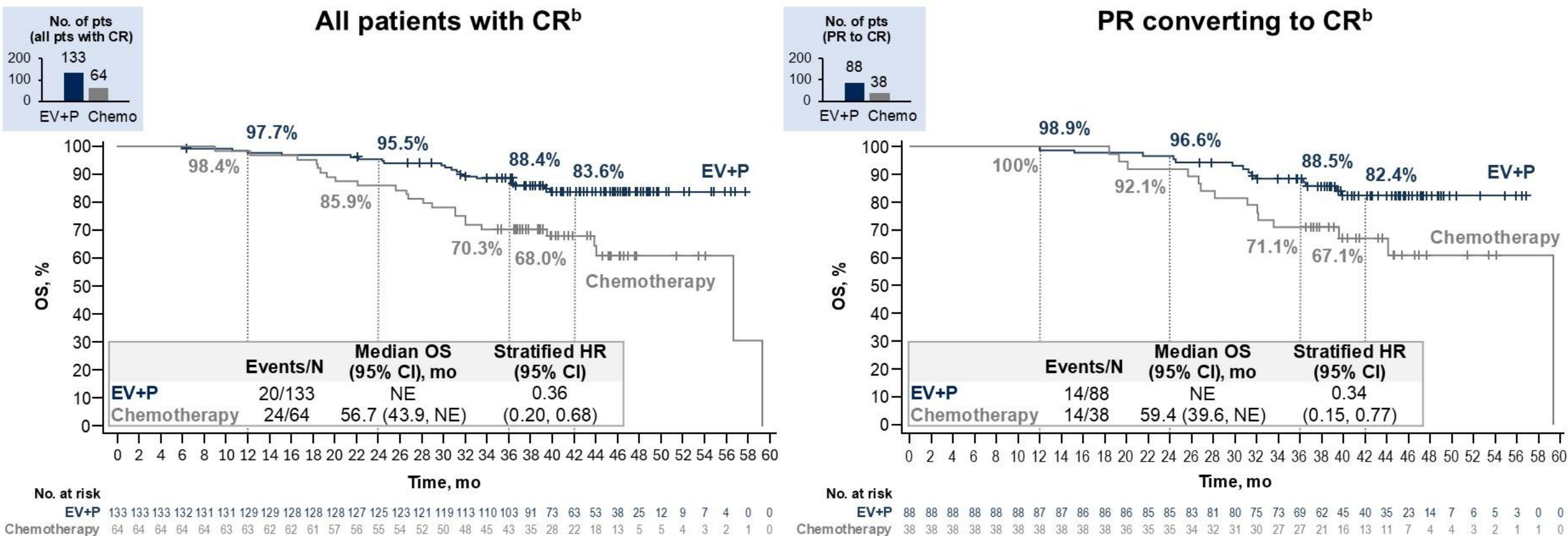


Data cutoff: October 6, 2025. Median follow-up, 42.8 mo.
EV, enfortumab vedotin; ITT, intention to treat; OS, overall survival; P, pembrolizumab.
^aBased on Kaplan-Meier estimates.

Update OS 3.5 Years HR evolution: HR 0.47--→ HR 0.51]---→ HR 0.53

Are we curing some patients?

Among patients who achieved CR, those whose response deepened from PR to CR had similar 3.5-year survival to the overall CR group (82.4% vs 83.6%)^a



Data cutoff: October 6, 2025 (BICR data cutoff August 8, 2024).

BICR, blinded independent central review; Chemo, chemotherapy; CR, complete response; EV, enfortumab vedotin; HR, hazard ratio; NE, not estimable; OS, overall survival; P, pembrolizumab; PR, partial response.

^aBased on Kaplan-Meier estimates. ^bIn the response-evaluable set by BICR.

1. Powles T, et al. Ann Oncol 2025;36:1212-19. 2. Gupta S, et al. ASCO 2025. Abstract 4502 (Oral).

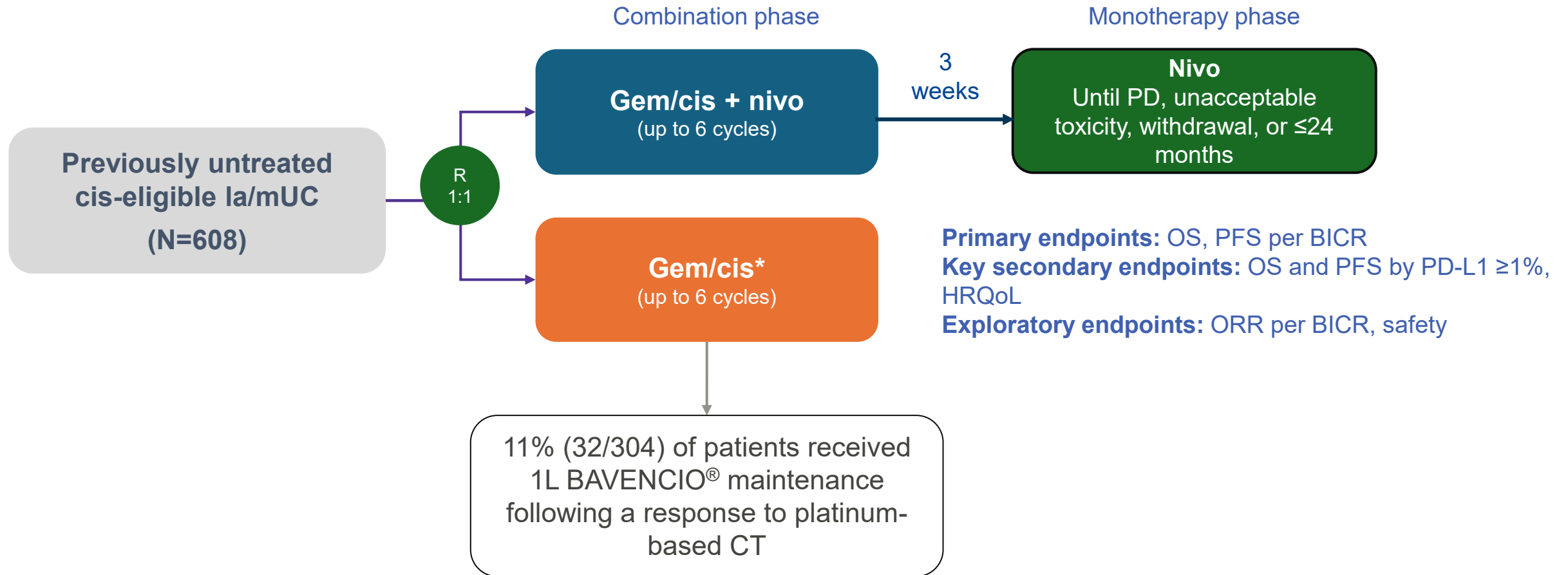
PARADIGM SHIFT

A change from
one way of
thinking to
another.



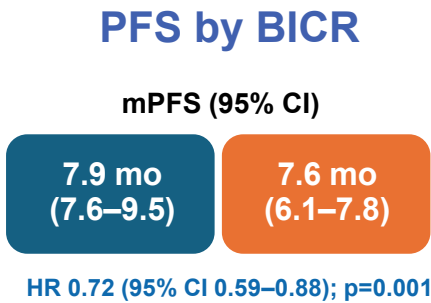
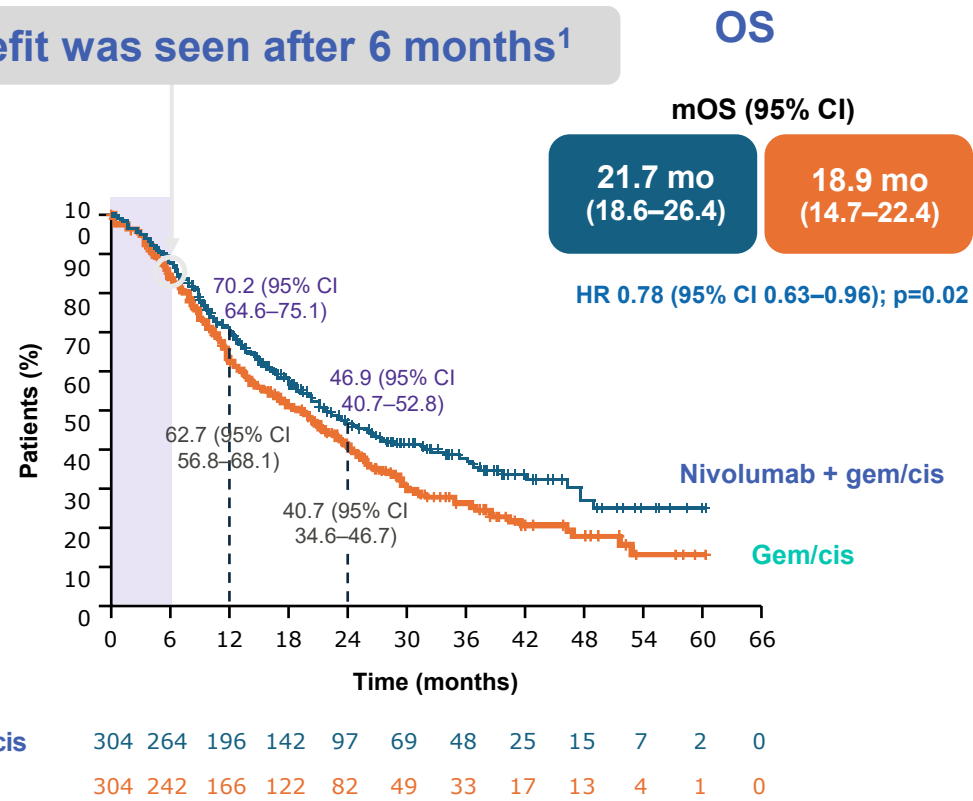
CheckMate 901 substudy: nivo + gem/cis vs gem/cis in Ia/mUC

Phase III, international, open-label, randomized trial to evaluate the efficacy and safety of nivo plus gem/cis vs gem/cis for previously untreated unresectable UC or mUC



CheckMate 901 Substudy: OS, PFS, and TRAE outcomes – overall population

OS benefit was seen after 6 months¹



Most common (≥30%) TRAEs

AE	Nivolumab + gem/cis (n=304)		Gem/cis alone (n=288)	
	Any grade n (%)	Grade ≥3* n (%)	Any grade n (%)	Grade ≥3* n (%)
Anemia	174 (57.2)	67 (22.0)	137 (47.6)	51 (17.7)
Nausea	142 (46.7)	1 (0.3)	138 (47.9)	3 (1.0)
Neutropenia	93 (30.6)	57 (18.8)	86 (29.9)	44 (15.3)

*One grade 5 event occurred in each group (sepsis in the nivolumab plus gemcitabine–cisplatin group and acute kidney injury in the gemcitabine–cisplatin group).

Nivolumab + gem/cis was associated with improved OS (+2.8 months) and PFS (+0.3 months) vs gem/cis

1. Van der Heijden MS, et al. N Engl J Med 2023;389:1778–1789.

STANDARD OF CARE IN ADVANCED DISEASE

Management of advanced disease

Treatment-naïve advanced or metastatic UC (stage IV)

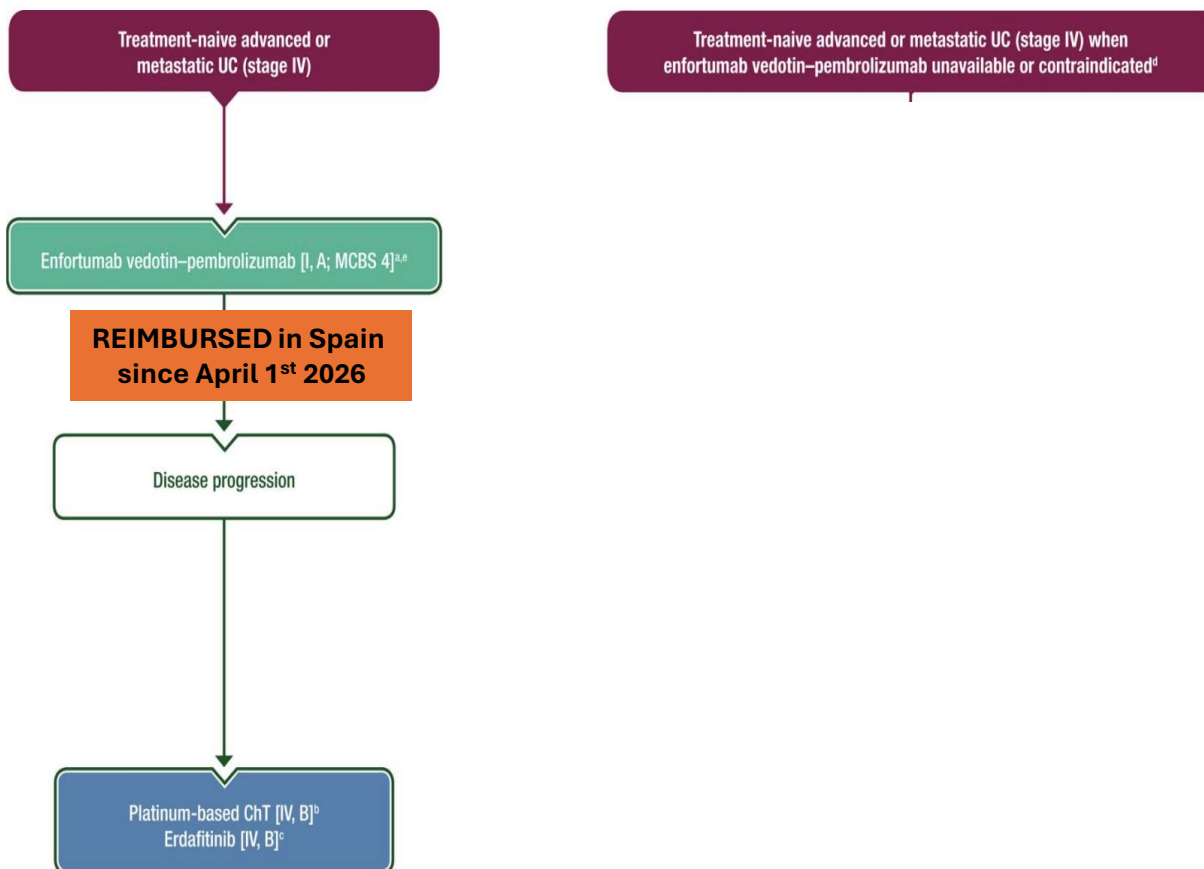
Treatment-naïve advanced or metastatic UC (stage IV) when enfortumab vedotin–pembrolizumab unavailable or contraindicated^d

Biomarker	Method	Use	LoE, GoR
FGFR3 gene alteration ⁹	DNA alterations to FGFR3 can either be detected by PCR (FGFR RT-PCR Kit), by whole exome sequencing or gene panels	FGFR-targeted therapy (erdafitinib) is recommended in patients with FGFR gene alteration in the platinum refractory setting [FGFR3 mutations, or FGFR3 fusions (FGFR RT-PCR Kit)]	I, A
HER2 expression in metastatic setting ¹⁰	IHC to identify HER2 expression on tumor cells.	To select patients for trastuzumab deruxtecan in metastatic setting	III, B

Genomic testing [polymerase chain reaction (PCR) or next-generation sequencing (NGS)-based] should be used for detection of *FGFR2/3* mutations and fusions

STANDARD OF CARE IN ADVANCED DISEASE

Management of advanced disease

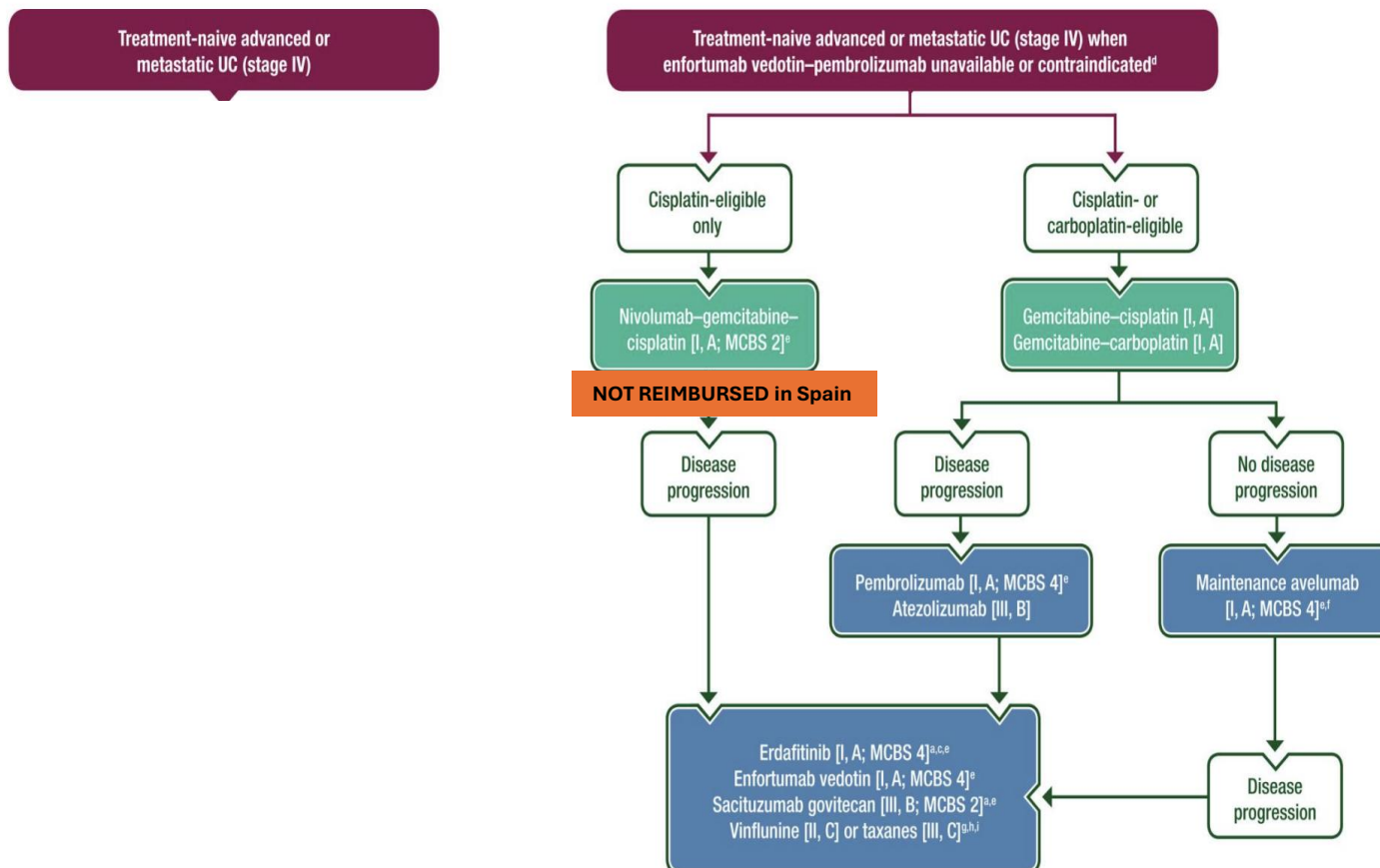


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STANDARD OF CARE IN ADVANCED DISEASE

Management of advanced disease

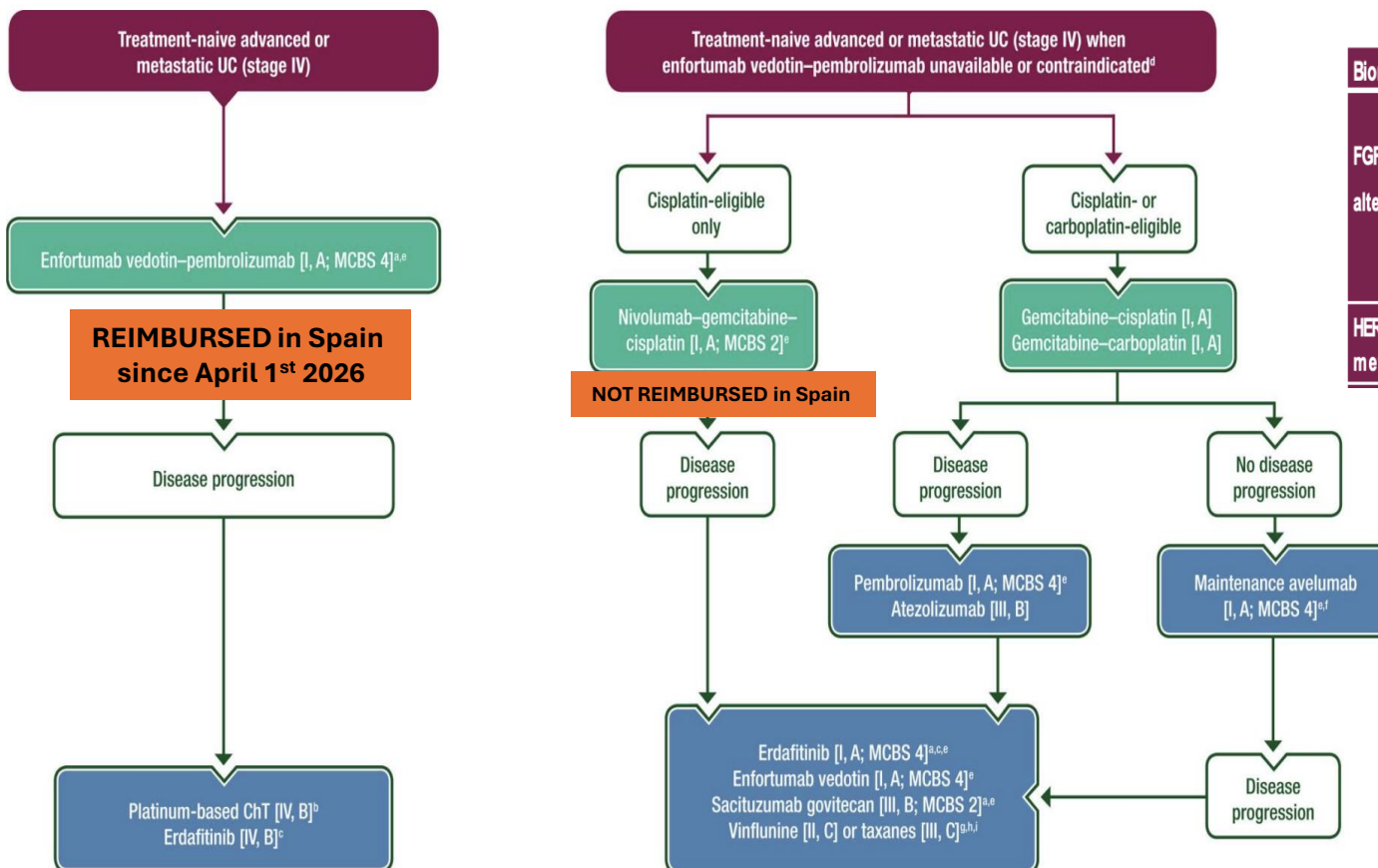


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CHALLENGES/ UNANSWERED QUESTIONS

- Dosing and role/need of dose adjustments
- Identification/ Management of special toxicities
- Duration of treatment / role of consolidative approaches
- Subsequent therapies upon progression
- Effect of EV-P incorporation to the perioperative setting

TAKE HOME MESSAGE

- The combination of the ADC targeting Nectin-4 **Enfortumab Vedotin plus Pembrolizumab** has become the SOC in mUC based on the efficacy data of EV-302/KEYNOTE A39
- A **PARADIGM SHIFT** has happened around not only the management but the expectations in this patient population
- Perhaps in 2026 we have **DIFFERENT AIMS** than historically but also new challenges to confront [toxicity management, # cycles, subsequent treatments]

Marques de Valdecilla Hospital



FELIZ
VERANO

SANTANDER. SPAIN

