

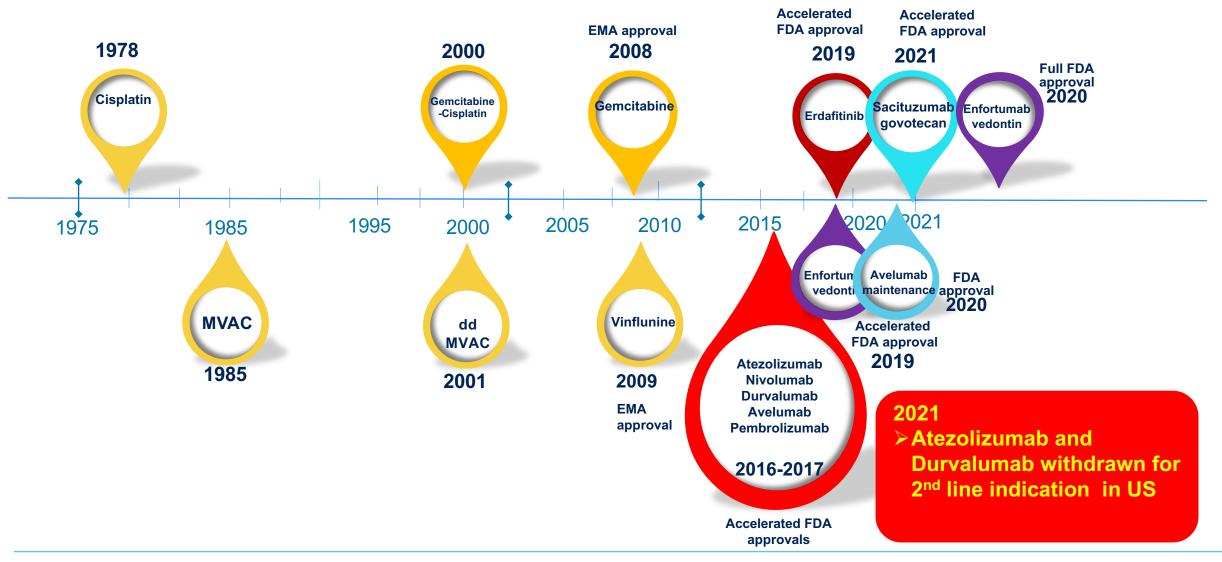


## **How I Treat Metastatic Bladder Cancer in 2023**

Shilpa Gupta, M.D. Clinical Professor Cleveland Clinic Lerner College of Medicine at CWRU Director, Genitourinary Oncology Program Cleveland Clinic Taussig Cancer Institute

August 19, 2023

## **Therapy Advances in Advanced UC**





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# First-line (IL) treatment of metastatic urothelial carcinoma (mUC)

## Platinums are the backbone of 1L therapy in aUC

Gemcitabine-Cisplatin (GC): Median OS ~ 14 months, ORR 49%

ddMVAC: Median OS ~ 15 months, ORR 70%

Gemcitabine-Carboplatin: Recent Trials show median OS~ 13 months ORR 43%

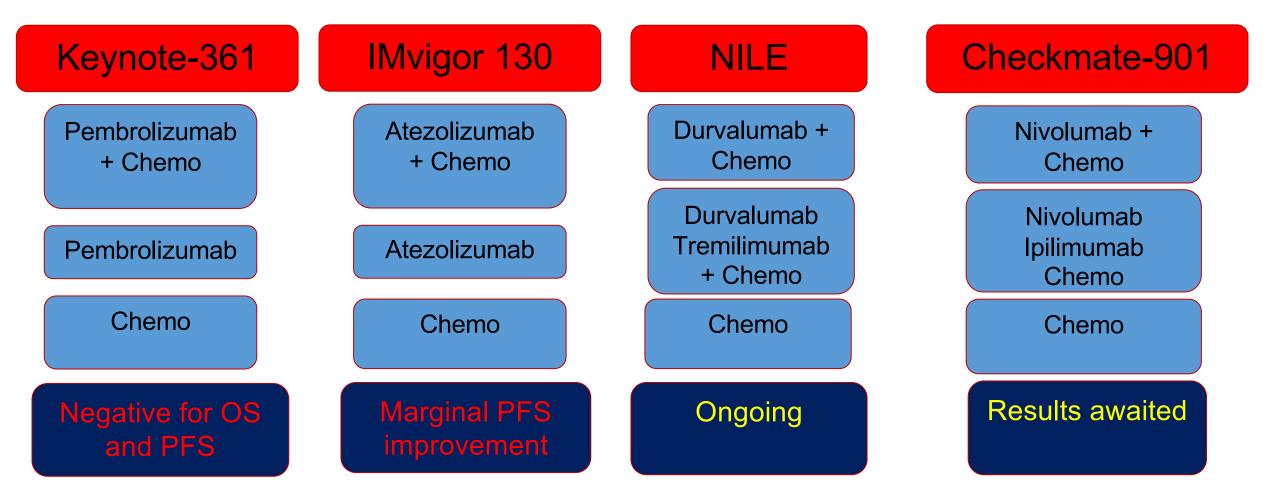
Only a minority of patients receive 2<sup>nd</sup>-line therapy for mUC

An unmet need to improve survival with 1<sup>st</sup>-line treatment

Von der Maase H et al. JCO 2005 Sternberg CN Eur J Cancer 2006, Galsky MD Lancet 2020, Flannery K et al. Future Oncol 2019, Powles T ASC) GU 2021

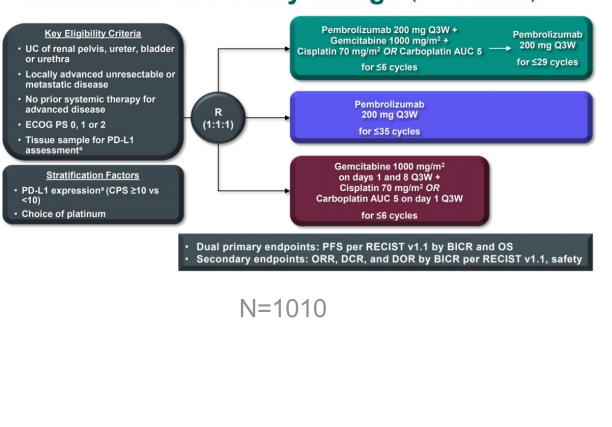


## Is there a role for 1L Chemo-immunotherapy in mUC?



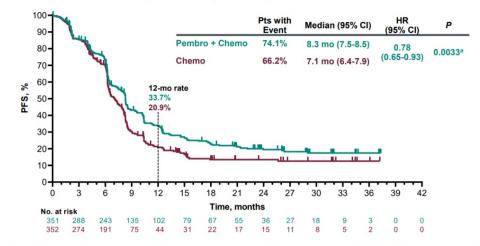


## Pembrolizumab alone or combined with chemotherapy vs chemotherapy alone as 1L therapy for la/mUC: KN-361

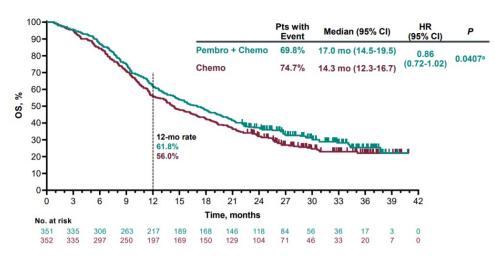


#### KEYNOTE-361 Study Design (NCT02853305)

PFS by BICR: Pembro + Chemo vs Chemo, ITT Population (Primary Endpoint)

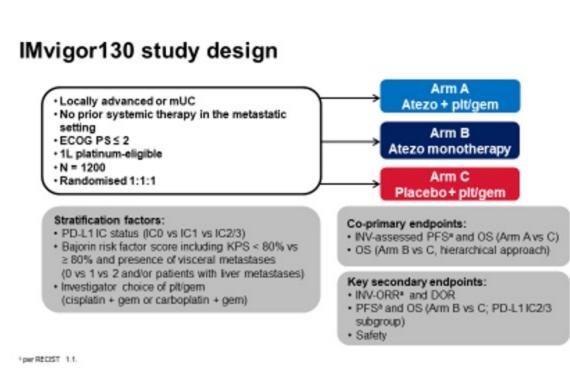


#### **OS: Pembro + Chemo vs Chemo, ITT Population**

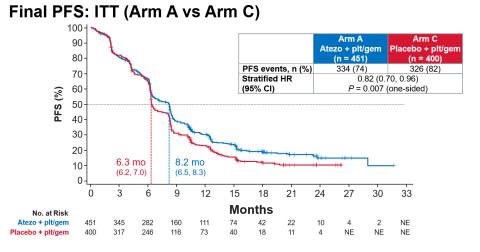


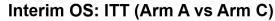
**Cleveland Clinic** Ajjai Alva ESMO 2020, Powles T et al. Lancet

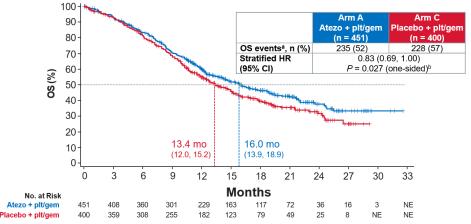
## 1L Atezolizumab with or without chemotherapy in lamUC (IMvigor130)



Cleveland Clinic

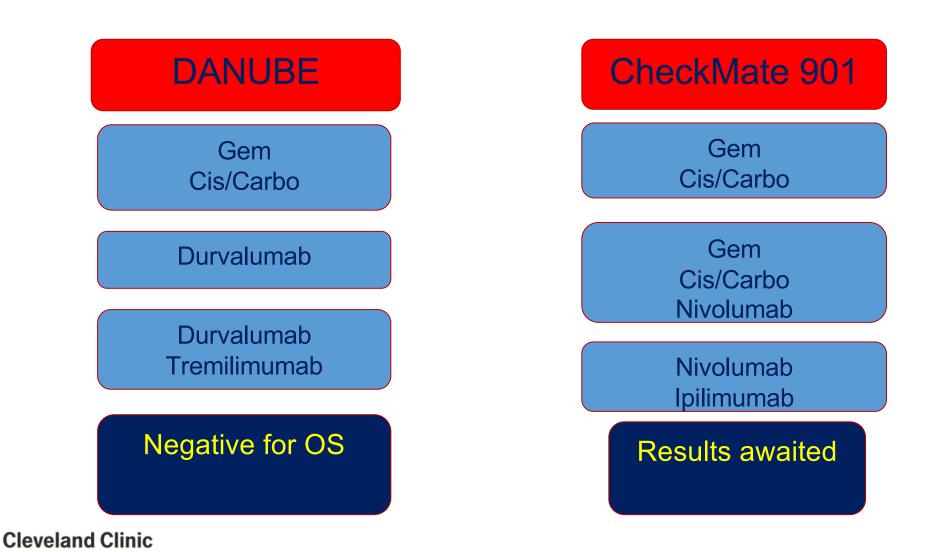




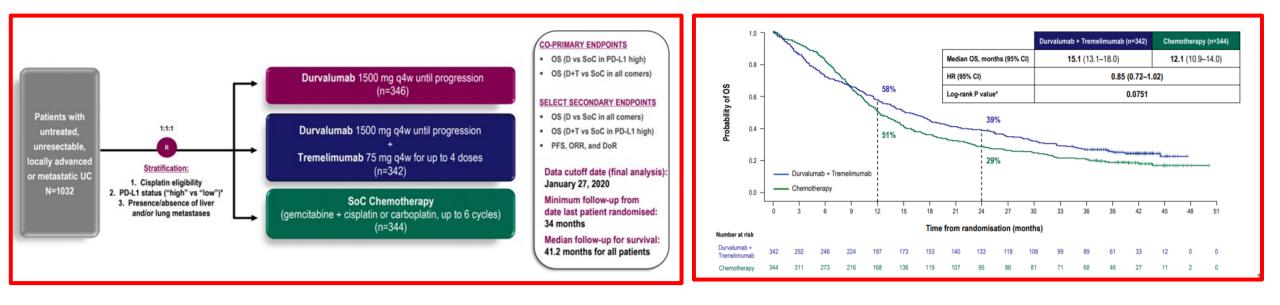


#### Galsky MD et et al. Lancet Oncology 2020

## Is there a role for 1L Immunotherapy doublets in mUC?



## 1L durvalumab with or without tremelimumab vs SOC chemotherapy in patients with aUC (DANUBE)





## **Evolution of First-Line Therapy in Cisplatin-Ineligible mUC**



ANNUAL MEETING

## **KEYNOTE-361: Pembro vs Choice of Carbo Patients**

### Response Rates and Disease Control Rates Lower with Pembro compared to Carbo-Gem

#### **Total Patients**

Confirmed Response	Pembro N = 170	Carbo + Gem N = 196
ORR (95% CI)	27.6% (21.1–35.0)	41.8% (34.8–49.1)
DCR (95% CI)	45.3% (37.7–53.1)	73.5% (66.7–79.5)
CR	10.0%	10.7%
PR	17.6%	31.1%
SD	17.6%	31.6%
PD	37.6%	11.7%
Non-CR/non-PD	2.9%	5.1%
Non-evaluable or no assessment	14.1%	9.7%

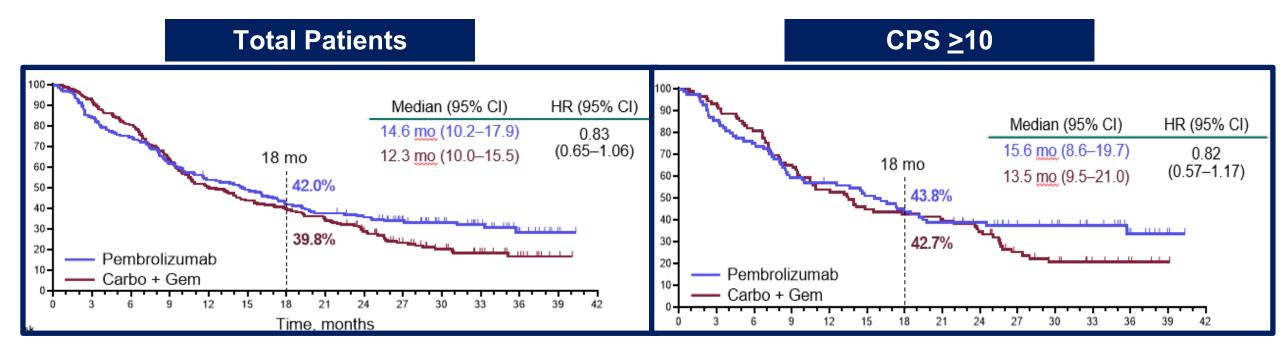
Confirmed Response	Pembro N = 84	Carbo + Gem N = 89
ORR (95% CI)	29.8% (20.3–40.7)	46.1% (35.4–57.0)
DCR (95% CI)	48.8% (37.7–60.0)	73.0% (62.6–81.9)
CR	11.9%	18.0%
PR	17.9%	28.1%
SD	19.0%	27.0%
PD	36.9%	7.9%
Non-CR/non-PD	1.2%	5.6%
Non-evaluable or no assessment	13.1%	13.5%





## **KEYNOTE-361: Pembro vs Choice of Carbo Patients**

## OS for Pembro cathes up but DOES NOT cross significantly enough for a positive trial





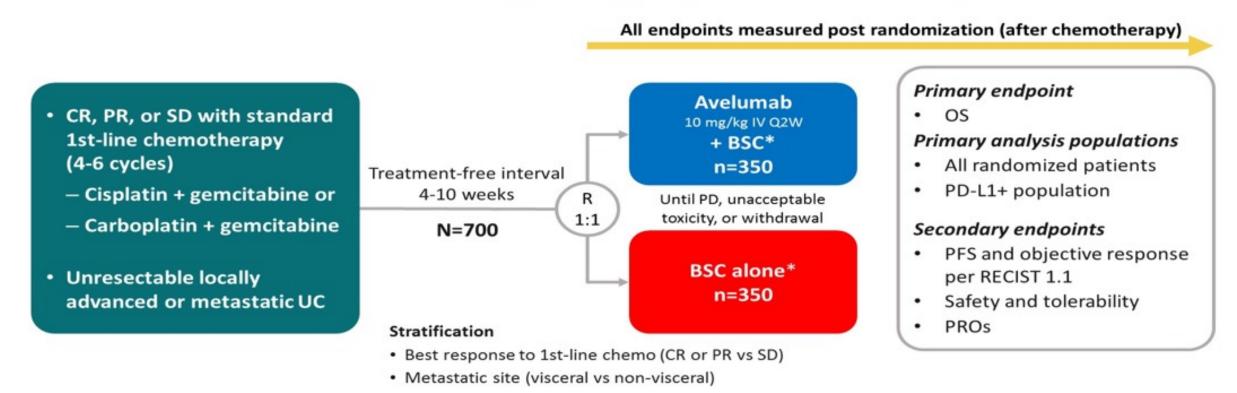
1L combination chemo-immunotherapy does **not** improve OS compared to chemotherapy alone in patients with aUC

1L immunotherapy is **not** better than gemcitabine-carboplatin in cisplatin-ineligible patients with aUC

But.....switch maintenance Immunotherapy after 1L platinum chemotherapy approach is effective in aUC

## JAVELIN Bladder 100- "Switch Maintenance" Strategy After 1L platinum-based chemotherapy

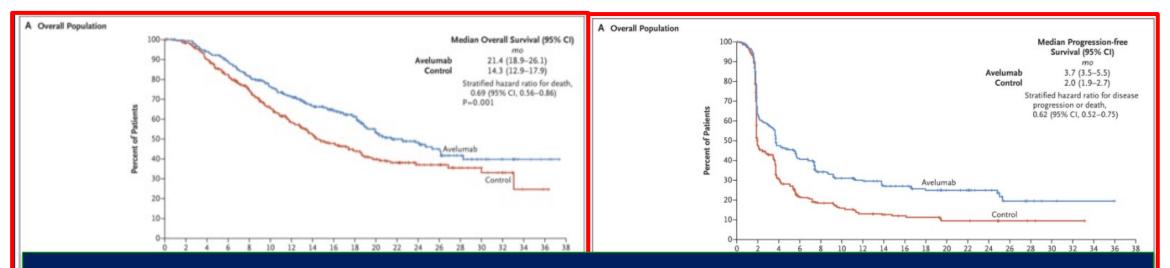
## JAVELIN Bladder 100 study design (NCT02603432)



PD-L1+ status was defined as PD-L1 expression in ≥25% of tumor cells or in ≥25% or 100% of tumor-associated immune cells if the percentage of immune cells was >1% or ≤1%, respectively, using the Ventana SP263 assay; 358 patients (51%) had a PD-L1–positive tumor

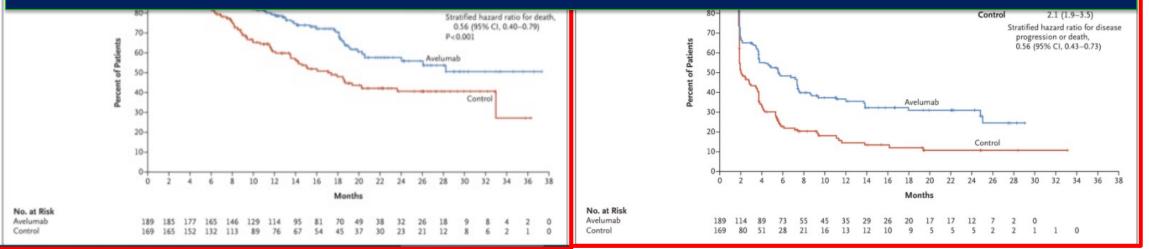


## **Maintenance avelumab improves OS and PFS**



38- months median follow-up data shows median OS of 23.8 months with Avelumab + BSC vs 15 months with BSC alone

(Powles et al. ASCO GU 2022)



Cleveland Clinic

### Subgroup analysis of OS in the overall population

	Subgroup	Events/patie Avelumab + BSC			Hazard ratio (95% CI)
All patients		145/350	179/350		0.69 (0.56, 0.86)*
Age	<65 years ≥65 years	61/129 84/221	53/107 126/243		<b>0.79</b> (0.55, 1.15) <b>0.63</b> (0.47, 0.83)
ECOG PS score	0 ≥1	77/213 68/137	101/211 78/139		<b>0.64</b> (0.48, 0.86) <b>0.74</b> (0.54, 1.03)
1st-line chemotherapy regimen	Gemcitabine + cisplatin Gemcitabine + carboplatin Gemcitabine + cisplatin/carboplatin	71/183 68/147 6/20	98/206 73/122 7/20		0.69 (0.51, 0.94) 0.66 (0.47, 0.91) 0.75 (0.25, 2.25)
Best response to 1st-line chemotherapy	CR or PR SD	104/253 41/97	127/252 52/98		<b>0.69</b> (0.53, 0.89) <b>0.70</b> (0.46, 1.05)
	Visceral Nonvisceral	93/191 52/159	101/191 78/159		0.82 (0.62, 1.09) 0.54 (0.38, 0.76)
Creatinine clearance	≥60 mL/min <60 mL/min	74/181 71/168	97/196 81/148	=	0.68 (0.50, 0.92) 0.68 (0.50, 0.94)
PD-L1 status	Positive Negative Unknown	61/189 76/139 8/22	82/169 72/132 25/49		<b>0.56</b> (0.40, 0.78) <b>0.86</b> (0.62, 1.18) <b>0.69</b> (0.31, 1.53)
rs show 95% Cl				0.25 0.5 1 2 4 Hazard ratio for OS with 95% CI	
ied (all other analyses are unst	ratified)		Far	vors avelumab + BSC Favors BSC alone	
RESENTED AT: 2020ASC ANNUAL MEE		PRESENTED BY: T	homas Powl	es, MD	



A032001: MAINCAV- Phase III randomized trial of maintenance cabozantinib and avelumab vs maintenance avelumab after 1L platinum-based chemotherapy in patients with mUC

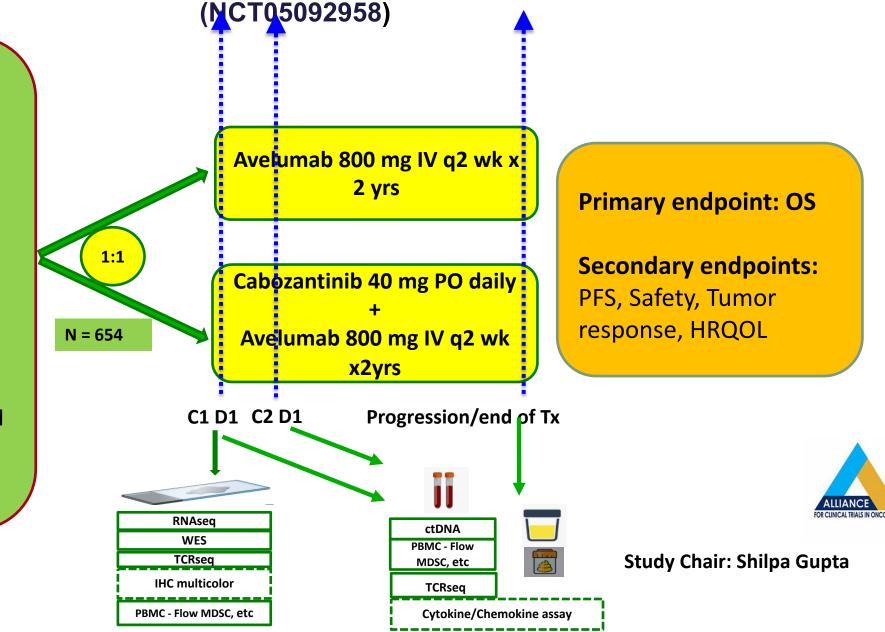
Patients with locally advanced/mUC, N3 only disease allowed

CR/PR/SD with standard 1st-line platinum-based chemotherapy (4-6 cycles)

Stratification:

- Best response to 1st-line chemo (CR vs PR vs SD)
- Sites of metastases: visceral vs non-visceral





## Second-line therapy and beyond in aUC

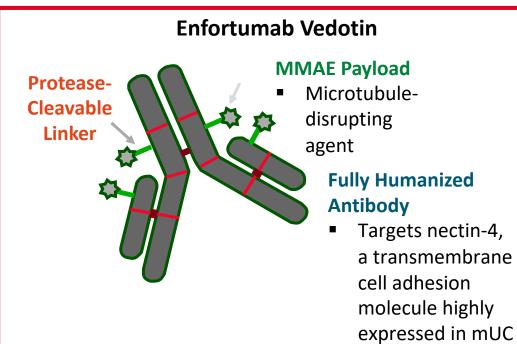
## Pembrolizumab is the preferred IO in patients with platinum-refractory la/mUC (KEYNOTE-045)

Initial efficacy was maintained at 2-, 3-, and 5-years follow-up

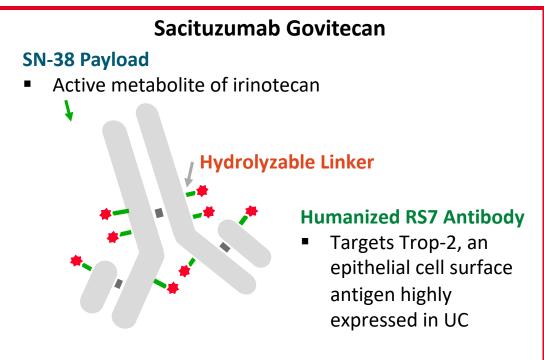
5-year follow-up	Pembrolizumab ITT n = 270	Chemotherapy ITT n = 272	Pembrolizumab v Investigator's choi chemotherapy
ORR, % (95% CI)	21.9 (17.1-27.3)	11.0 (7.6-15.4)	OS: 10.1 mo vs 7.2
Best response, n (%)			DOR: 29.7 mo vs 4.4
CR	27 (10.0)	8 (2.9)	
PR	32 (11.9)	22 (8.1)	
SD	47 (17.4)	92 (33.8)	Nivolumab and avelue
PD	129 (47.8)	90 (33.1)	are also approved in t
NA <sup>a</sup>	31 (11.5)	51 (18.8)	setting and are alterna
NE <sup>b</sup>	4 (1.5)	9 (3.3)	options

Cleveland Clinic Bellmunt J et al. N Engl Med. 2017; Fradet Y et al. Ann Oncol. 2019; Necchi A et al. Ann Oncol. 2019; Bellmunt J et al. ASCO 2021 Abstract 4532

## **Antibody–Drug Conjugates in Bladder Cancer**



FDA approval: for adults with locally advanced or metastatic UC who have previously received a PD-1 or PD-L1 inhibitor and a platinum-containing CT or are ineligible for cisplatin-containing chemotherapy and have previously received 1 or more prior lines of therapy; accelerated approval: in combination with pembrolizumab for the treatment of adult patients with locally advanced or metastatic urothelial cancer who are not eligible for cisplatin-containing chemotherapy



 Accelerated FDA approval: for adults with locally advanced or metastatic UC who previously received a platinum-containing chemotherapy and either a PD-1 or PD-L1 inhibitor

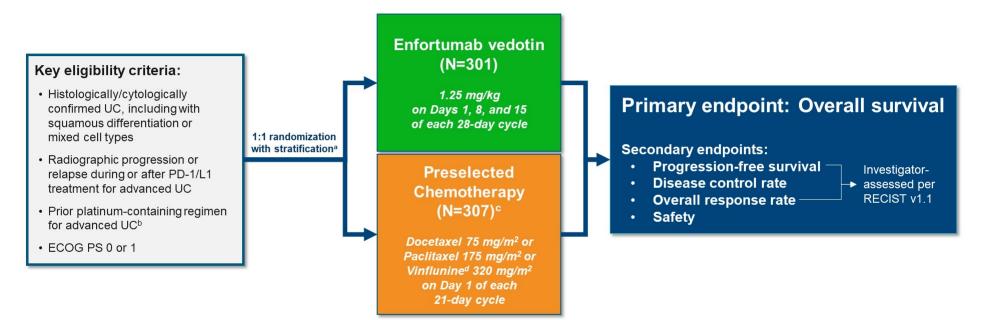
Samanta. Cell Mol Life Sci. 2015;72:645. Rosenberg. JCO. 2019;37:2592. Enfortumab vedotin PI. Sacituzumab govitecan PI. Avellini. Oncotarget. 2017;8:58642. Starodub. Clin Cancer Res. 2015;21:3870. Cardillo. Bioconjugate Chem. 2015;26:919.

#### Enfortumab Vedotin in Previously Treated Advanced Urothelial Carcinoma

Thomas Powles, M.D., Jonathan E. Rosenberg, M.D., Guru P. Sonpavde, M.D., Yohann Loriot, M.D., Ph.D., Ignacio Durán, M.D., Ph.D., Jae-Lyun Lee, M.D., Ph.D., Nobuaki Matsubara, M.D., Christof Vulsteke, M.D., Ph.D., Daniel Castellano, M.D., Chunzhang Wu, Ph.D., Mary Campbell, M.D., Maria Matsangou, M.B., Ch.B., M.D., et al.



### **EV-301 Open-Label Phase 3 Trial Design**



<sup>a</sup>Stratification variables were ECOG performance status (0 or 1), regions of the world (United States, western Europe, or rest of world), liver metastasis (yes or no). <sup>b</sup>If used in the adjuvant/neoadjuvant setting, progression must be within 12 months of completion.

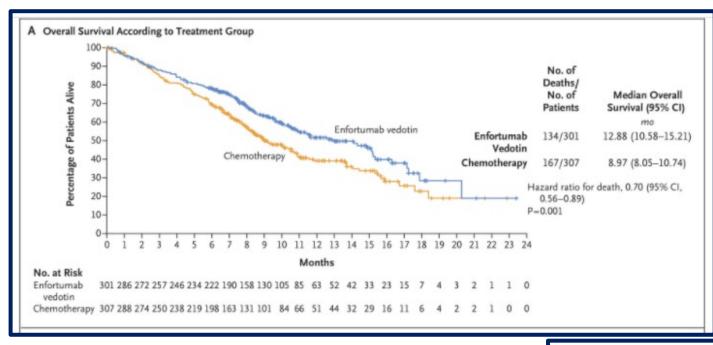
<sup>c</sup>Investigator selected prior to randomization.

<sup>d</sup>In countries where approved; overall proportion of patients receiving vinflunine capped at 35%.

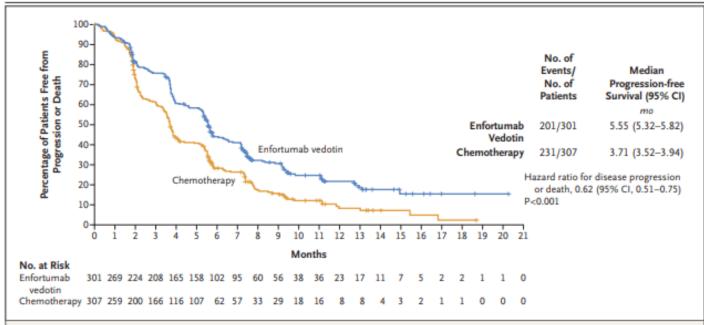
Abbreviations: ECOG PS, Eastern Cooperative Oncology Group performance status; PD-1/L1, programmed cell death protein-1/programmed death-ligand 1; RECIST, Response Evaluation Criteria in Solid Tumors; UC, advanced urothelial carcinoma.

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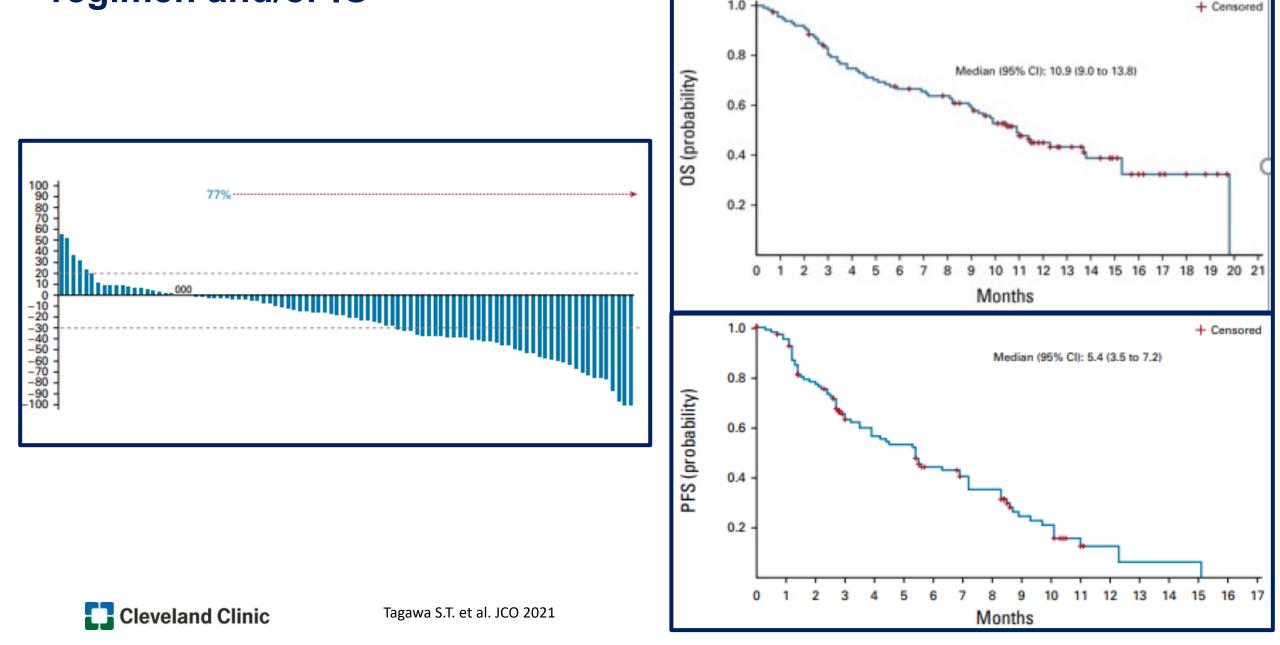




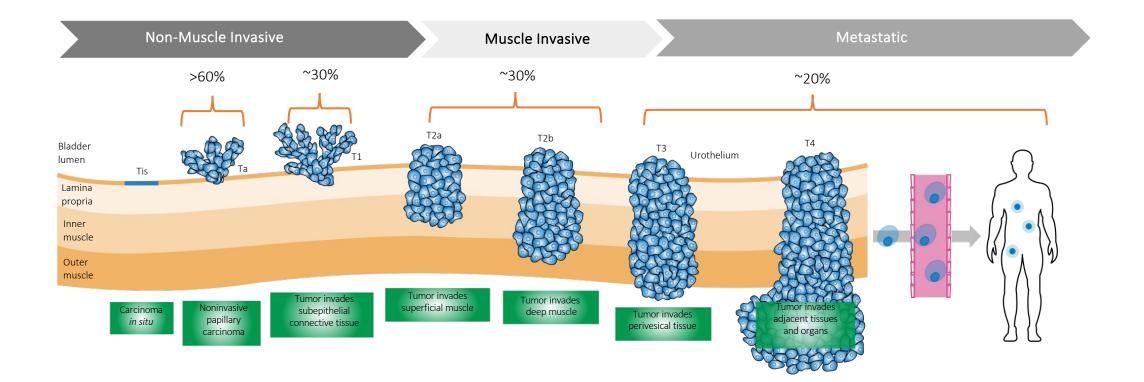


Powles T et al. NEJM 2021

## TROPHY U-01: Phase II trial of SG in mUC after platinum-based regimen and/or IO



## **Targeting FGFR in mUC**





### Erdafitinib is a Pan-FGFR Inhibitor With Activity in Metastatic Urothelial Carcinoma

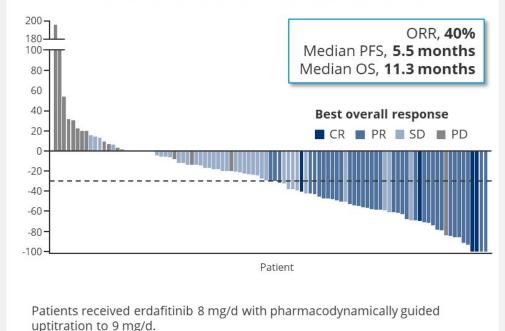
 FGFRalt are observed in ~20% of advanced or mUC and may function as oncogenic drivers<sup>1,2</sup>



Erdafitinib is an oral selective pan-FGFR tyrosine kinase inhibitor<sup>3</sup>

- Erdafitinib was granted accelerated approval in the United States and is approved in 17 other countries to treat locally advanced or mUC in adults with susceptible *FGFR3/2alt* who have progressed after platinum-containing chemotherapy<sup>4-6</sup>
- **THOR** is a confirmatory, randomized phase 3 study:
  - Cohort 1 assessed whether erdafitinib improved survival over chemotherapy in patients with *FGFRalt* mUC who progressed on or after ≥1 prior treatment that included anti–PD-(L)1

#### In the single-arm phase 2 BLC2001 trial, erdafitinib showed a benefit in patients with *FGFR-altered* advanced urothelial cancer<sup>4</sup>



FGFR, fibroblast growth factor receptor; *FGFRalt, FGFR* alterations; mUC, metastatic urothelial carcinoma; ORR, overall response rate; OS, overall survival; PD-1, programmed cell death protein 1; PD-L1, programmed death-ligand 1; PFS, progression-free survival.

1. Necchi A, et al. Eur Urol Focus. 2019;5:853-586; 2. di Martino E, et al. Future Oncol. 2016;12:2243-2263; 3. Perera TPS, et al. Mol Cancer Ther. 2017;16:1010-1020; 4. Loriot Y, et al. N Engl J Med. 2019;381:338-348;

5. BALVERSA® (erdafitinib) [package insert]. Horsham, PA: Janssen Products, LP; 2023; 6. Siefker-Radtke AO, et al. Lancet Oncol. 2022;23:248-258.



<sup>&</sup>lt;sup>a</sup>Patients received erdafitinib 8 mg/d with pharmacodynamically guided uptitration to 9 mg/d.

\*Molecular eligibility can be confirmed using either central or local historical FGR test results (a) effe assay. If a local metabolistic all estimates and the submitted at the time of enrollment for extremental bab (FGR est status. Tumors must have 2) of the submitted at the time of enrollment for extrements (FGR est results (GGR estimates) and FGR est status. Tumors must have 2) of the submitted at the time of enrollment for extrements (FGR est results (GGR estimates) and FGR estimates) and FGR estimates and the submitted at the time of enrollment for extrements (FGR estimates) and FGR estimates and the submitted at the time of enrollment for extrements (FGR estimates) and FGR estimates and the submitted at the time of enrollment for extrements (FGR estimates) and FGR estimates and the submitted at the time of enrollment for extrements (FGR estimates) and FGR estimates and the submitted at the time of enrollment for extrements (FGR estimates) and FGR estimates and the submitted at the time of enrollment (FGR estimates) and FGR estimates and the submitted at the time of enrollment (FGR estimates) and FGR estimates and the submitted at the time of enrollment (FGR estimates) and FGR estimates and the submitted at the time of enrollment (FGR estimates) and FGR estimates and the submitted at the time of enrollment (FGR estimates) and FGR estimates and the submitted at the time of enrollment (FGR estimates) and FGR estimates and the submitted at the time of enrollment (FGR estimates) and FGR estimates and the submitted at the time of enrollment (FGR estimates) and FGR estimates and the submitted at the time of enrollment (FGR estimates) and FGR estimates and the submitted at the time of enrollment (FGR estimates) and FGR estimates and the submitted at the time of enrollment (FGR estimates) and FGR estimates and the submitted at the time of enrollment (FGR estimates) and FGR estimates and the submitted at the time of enrollment (FGR estimates) and FGR estimates and the submitted at the time of enrollment (FGR estima

Phase 3 THOR Study: Erdafitinib Versus Chemotherapy of Choice in

Patients With Advanced Urothelial Cancer and Selected FGFR Aberrations

Erdafitinib

(n=136)

Once-daily erdafitinib 8 mg with

pharmacodynamically guided uptitration to 9 mg

**Chemotherapy of Choice** 

(n=130)

**Primary end point:** 

PFS

Safety

Key secondary end points:

following FGFR3 gene mutations: R248C, S249C, G370C, Y373C.

1:1

N=266<sup>b</sup>

Cohort 1

Age ≥18 years

Metastatic or

unresectable UC

 Confirmed disease progression

Select FGFR3/2alt

• ECOG PS 0-2

NCT03390504

(mutation/fusion)a

Key eligibility criteria

Prior tx with anti–PD-(L)1

• 1-2 lines of systemic tx

Introducing corrising energications. Review 30:507, 07:007, 17:302.
Wunnber of patients randomized at the time of the interim analysis (data cutoff January 15, 2023).
ECOG FX, Eastern Cooperative Oncology Group performance status; FGFR, libroblast growth factor receptor; FGFR3/2air, FGFR3/2 alterations; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; PF-10, programmed cell death roleant; PFS, progression-free survival; PFS, progres

ASCO Annual Meeting 2023 Slide use permitted by Dr. Yohann Loriot

#### **Demographics and Disease Characteristics**

Characteristic	Erdafitinib (n=136)	Chemotherapy (n=130)	Characteristic	Erdafitinib (n=136)	Chemotherapy (n=130)
Age, median (range), years	66 (32-85)	69 (35-86)	ECOG PS 0-1, n (%)	124 (91.2)	117 (90)
Men, n (%)	96 (70.6)	94 (72.3)	Primary tumor upper tract, n (%)	41 (30.1)	48 (36.9)
Race, n (%)			PD-L1 low (CPS <10), n (%)	<b>89 (92.7)</b> ª	68 (86.1)ª
White	81 (59.6)	63 (48.5)	<i>FGFRalt</i> , n (%) <sup>b</sup>	(n=135)	(n=129)
Asian	37 (27.2)	40 (30.8)	Mutations	108 (79.4)	107 (82.3)
Black or African American	0	1 (0.8)	Fusions	25 (18.4)	19 (14.6)
Multiple	0	1 (0.8)	Mutations and fusions	2 (1.5)	3 (2.3)
Not reported	18 (13.2)	25 (19.2)	Prior lines of systemic therapy <sup>c</sup>		
Presence of visceral metastases, n (%)	101 (74.3)	97 (74.6)	1 line	45 (33.1)	33 (25.4)
Liver	31 (22.8)	38 (29.2)	2 lines	90 (66.2)	97 (74.6)

· Patient baseline characteristics were generally balanced between treatment arms

<sup>a</sup>For PD-L1 status, percentage is based on patients with available data (n=96 for erdafitinib and n=79 for chemotherapy). <sup>b</sup>All patients enrolled had *FGFR3alt*. 2 patients were subsequently identified as false positives; they were included in the intent-to-treat population <sup>c1</sup> patient in the erdafitinib group had 3 prior lines of systemic therapy.

CPS, combined positive score; ECOG PS, Eastern Cooperative Oncology Group performance status; FGFRalt, FGFR alterations; PD-L1, programmed death-ligand 1.



#### All Patients Enrolled in the Study Had Received **Anti-PD-1 in the First- or Second-Line Setting**

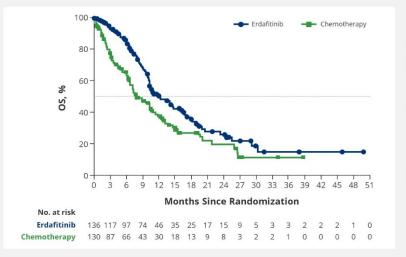
Patients receiving prior therapy, n (%)	Erdafitinib (n=136)ª	Chemotherapy (n=130)
1 line of prior systemic therapy	45 (33.1)	33 (25.4)
Chemotherapy + anti–PD-(L)1 <sup>b</sup>	33 (24.3)	15 (11.5)
Anti-PD-(L)1 <sup>c</sup>	11 (8.1)	16 (12.3)
Chemotherapy	1 (0.7)	2 (1.5)
2 lines of prior systemic therapy	90 (66.2)	97 (74.6)
First line of therapy		
Chemotherapy	77 (56.6)	76 (58.5)
Chemotherapy + anti–PD-(L)1	6 (4.4)	10 (7.7)
Other	7 (5.1)	11 (8.5)
Second line of therapy		
Anti-PD-(L)1	76 (55.9)	76 (58.5)
Chemotherapy	10 (7.4)	14 (10.8)
Other	4 (2.9)	7 (5.4)

\*1 patient in the erdafitinib group had 3 prior lines of systemic therapy. <sup>b</sup>Includes patients who received other therapy in addition to chemotherapy + anti-PD-(L)1. <sup>c</sup>Includes patients who received other therapy in addition to anti-PD-(L)1. PD-1, programmed cell death protein 1; PD-L1, programmed death-ligand 1.



#### Overall Survival for Erdafitinib Was Superior to Investigator's Choice of Chemotherapy

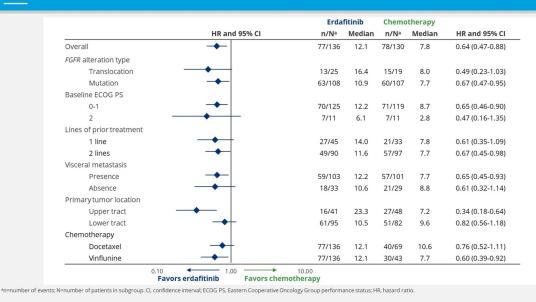
#### **Overall Survival Benefit With Erdafitinib Versus Chemotherapy Was Consistently Observed Across Subgroups**



Cl, confidence interval; HR, hazard ratio; IDMC, independent data monitoring committee; OS, overall survival. \*The significance level for stopping for efficacy was p=0.019, corresponding to a HR of 0.69.

- Median follow-up was 15.9 months
- Median OS was 12.1 months for erdafitinib versus 7.8 months for chemotherapy
- Erdafitinib reduced the risk of death by 36% versus chemotherapy
- HR, 0.64 (95% CI, 0.47-0.88;
   P = 0.005)<sup>a</sup>
- Based on these interim analysis results, the IDMC recommended to stop the study, unblind data, and cross over patients from chemotherapy to erdafitinib

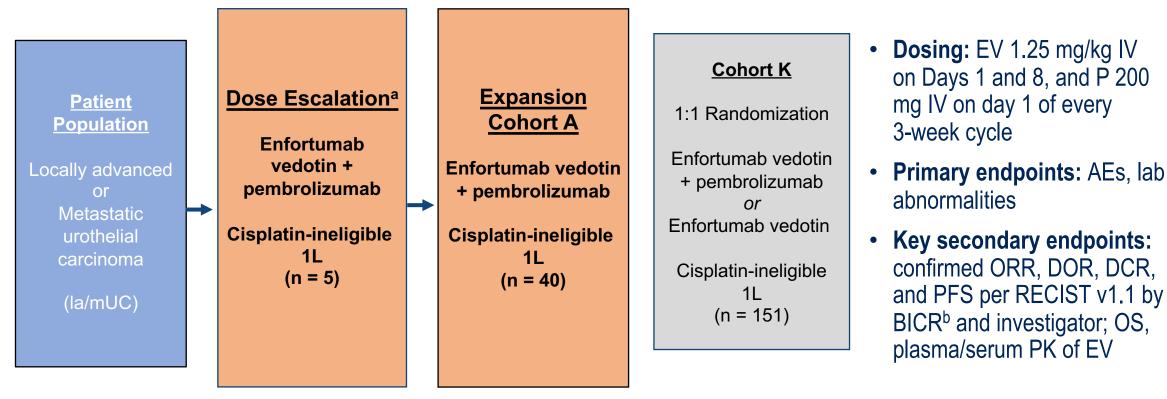






## **Study Design – EV+P Cohorts**

EV-103 is an open-label, multiple cohort, phase 1b/2 study



AE = adverse events; BICR = blinded independent central review; DCR = disease control rate; DOR = duration of response; EV = enfortumab vedotin; ORR = objective response rate; OS = overall survival; P = pembro; PFS = progression-free survival; PK = pharmacokinetics; 1L = first-line

Exploratory endpoints: biomarkers of activity including baseline PD-L1 status and Nectin-4 expression; Dose Escalation/Cohort A completed enrollment in Jan 2019; Data cutoff was 16 Sep 2022

<sup>a</sup>Patients assigned to EV 1.25 mg/kg + pembro and for whom study treatment was administered as 1L therapy

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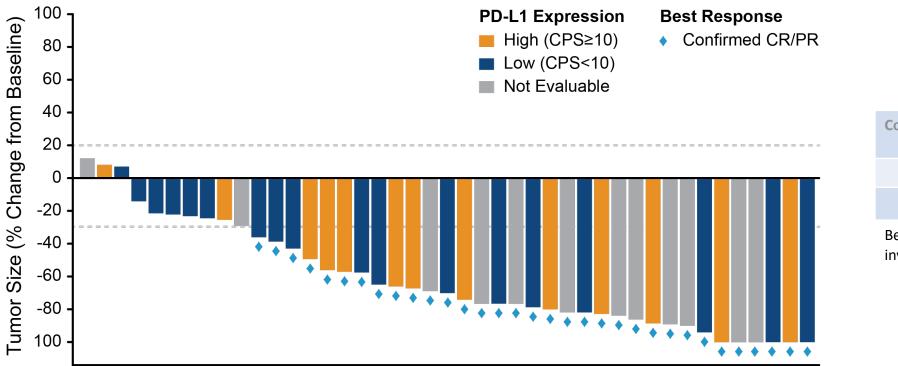
<sup>b</sup>The efficacy endpoints per RECIST v1.1 by BICR are presented for the first time herein. Results by investigator assessment have been previously published (Hoimes CJ, et al. JCO 2022).



PRESENTED BY: Dr. Shilpa Gupta, MD

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## EV 103: Pembrolizumab and EV in 1L cisplatin-ineligible mUC



 Confirmed ORR
 73.3% (33/45)

 95% CI
 (58.1, 85.4)

 Complete response
 15.6% (7/45)

 Partial response
 57.8% (26/45)

Best Overall Response Per RECIST v 1.1 by investigator (N=45)

Individual Patients (n=43)

Responses observed regardless of PD-L1 expression level

Two patients did not have post-baseline response assessments before end-of-treatment: 1 withdrew consent and 1 died before any post-baseline response assessment. These patients are included in the full analysis set used to calculate ORR, but are not included in the figure above.

Horizontal lines at positive 20% and negative 30% denote thresholds for target lesions for disease progression and response, respectively.





## Study EV-103 Dose Escalation/Cohort A: Long-term Outcome of Enfortumab Vedotin + Pembrolizumab in First-line (1L) Cisplatin-ineligible Locally Advanced or Metastatic Urothelial Carcinoma (Ia/mUC) with Nearly 4 Years of Follow-up

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#### Key Demographic and Baseline Disease Characteristics

Patient characteristics are representative of the cisplatin-ineligible population with la/mUC

	Dose Escalation + Cohort A (N = 45)		Dose Escalation + Cohort A (N=45)
Malesex, n (%)	36 (80.0)	Metastasis disease sites, n (%)	
Age (yrs), median (range)	69.0 (51-90)	Lymph nodes	34 (75.6)
White race, n (%)	42 (93.3)		19 (42.2)
ECOG PS, n (%)		Lung	· ,
0	15 (33.3)	Intra-thoracic/abdominal soft tissue	17 (37.8)
1	22 (48.9)	Liver	14 (31.1)
2	8 (17.8)	Metastasis category, n (%)	
Primary tumor location, n (%)		Visceral disease	38 (84.4)
Lower tract	30 (66.7)	Lymph node only disease	7 (15.6)
Upper tract	15 (33.3)	Lymph hode only disease	. (10.0)

ECCG PS = Eastern Cooperative Oncology Group Performance Status; JahnUC = locally advanced or metastatic unothelial cardinoma



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#### **Overall Objective Response Rates by BICR**

High confirmed ORR (73.3%) with high concordance rate between BICR and **INV** assessments

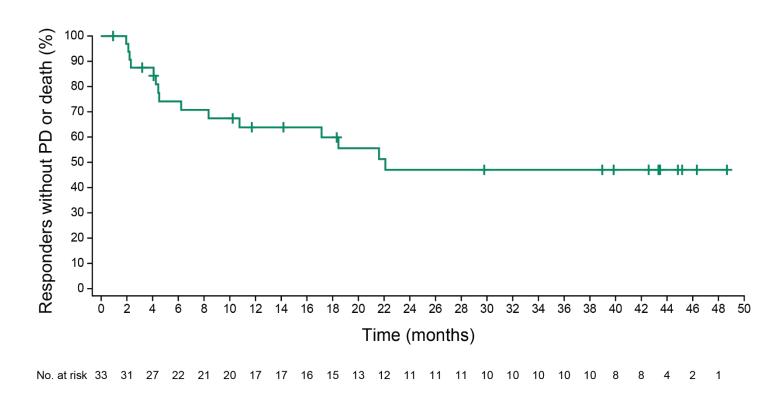
	Dose Escalation + Cohort A (N = 45)
Objective Response Rate, n (%)	33 (73.3)
95% Cla for ORR	58.1-85.4
Best Overall Response, n (%)	
Complete response	7 (15.6)
Partial response	26 (57.8)
Stable disease	5 (11.1)
Progressive disease	5 (11.1)
No assessment <sup>b</sup>	2 (4.4)
Disease Control Rate, n (%)	38 (84.4)
95% Cl <sup>a</sup> for DCR	70.5-93.5
Concordance rate of BOR between BICR and INV <sup>c</sup> assessment	95.3%

BICR = blinded independent central review, BOR = best overall response; CI = confidence interval; DCR = disease control rate; INV = investigator; ORR = objective response rate °CI was computed using the Clopper-Pearson method (Clopper 1934) \*Patients had no response assessment post-baseline ORR per INV assessment was 33/45 (73.3%)

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## **Duration of Response by BICR**

1L EV+P is associated with durable responses



	Dose Escalation + Cohort A (N = 45)
DOR events, n	15
Median DOR (95% Clª)	22.1 months (8.38-NE)
Patients without PD or	
death at:	
6 months, % (95% Clª)	74.1 ( 54.82-86.17)
12 months, % (95% Cl <sup>a</sup> )	63.9 (44.19-78.17)
24 months, % (95% Cl <sup>a</sup> )	47.0 (27.57-64.31)

BICR = blinded independent central review; CI = confidence interval; DOR = duration of response; EV = enfortumab vedotin; NE = not estimable; P = pembrolizumab, PD = progressive disease; 1L = first-line <sup>a</sup>CI was calculated using the complementary log-log transformation method (Collett, 1994)



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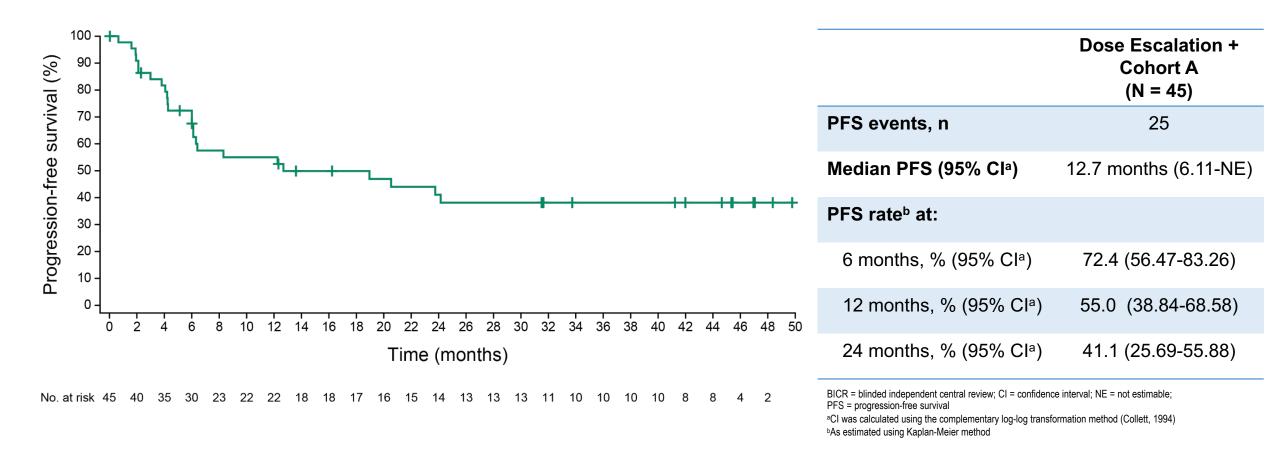
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## **Progression-Free Survival by BICR**

41.1% of patients were progression-free at 24 months





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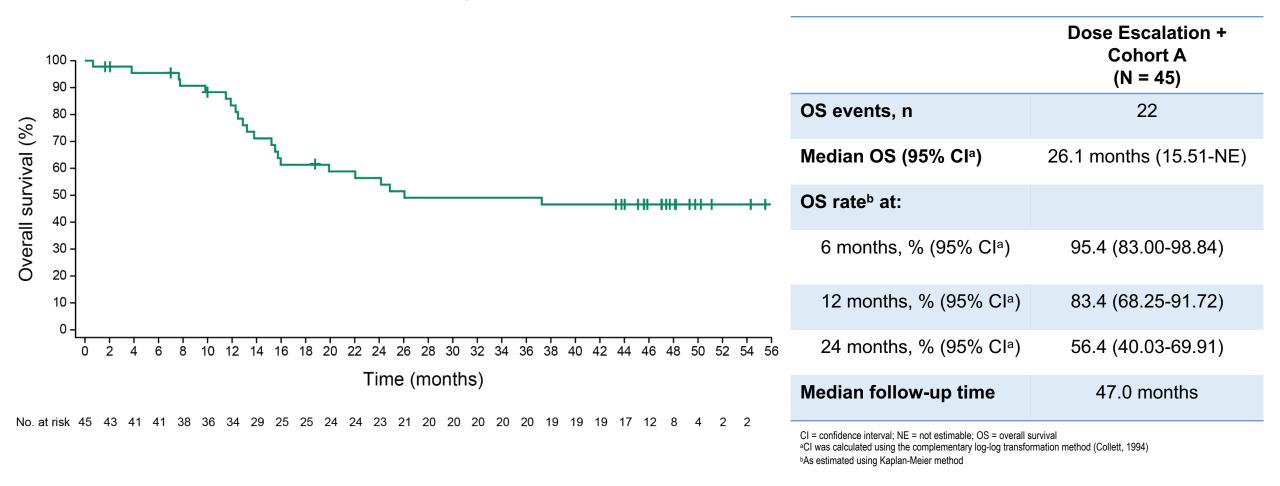
## **Overall Survival**

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#### Median survival exceeds 2 years



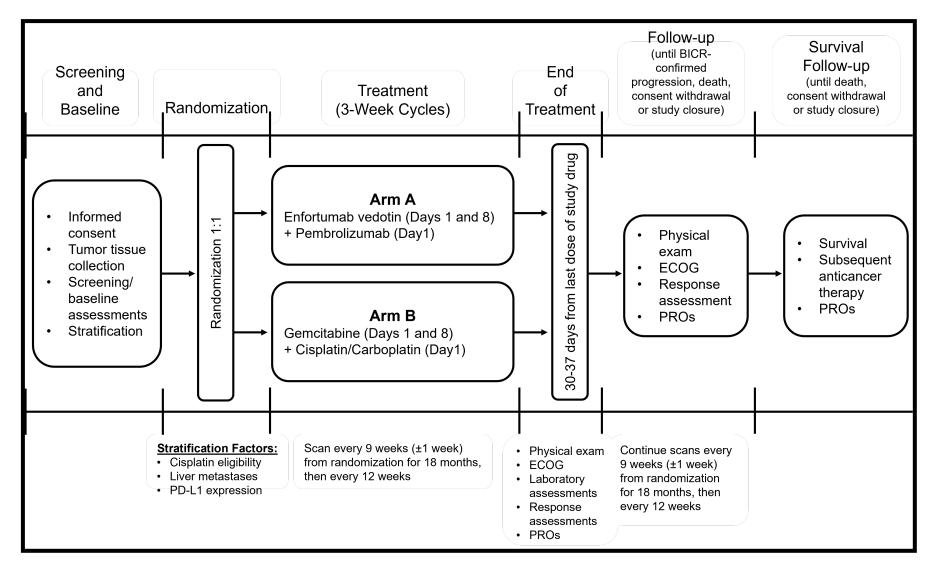


## EV 103: Pembro and EV vs EV monotherapy in 1L cisplatin-ineligible advanced UC (Cohort K)

	EV+P (N=76)	EV Mono (N=73)
Confirmed ORR, n (% ) (95% Cl)	49 (64.5) (52.7, 75.1)	33 (45.2) (33.5, 57.3)
Best overall response, n (%)		
Complete Response	8 (10.5)	3 (4.1)
Partial Response	41 (53.9)	30 (41.1)
Stable Disease	17 (22.4)	25 (34.2)
Progressive Disease	6 (7.9)	7 (9.6)
Not Evaluable	3 (3.9)	5 (6.8)
No Assessment	1 (1.3)	3 (4.1)
Median time to objective response (range), mos	2.07 (1.1, 6.6)	2.07 (1.9, 15.4)
Median number of treatment cycles (range)	11.0 (1, 29)	8.0 (1, 33)

BICR: Blinded Independent Central Review; cORR: Confirmed Objective Response Rate; NR: Not Reached

## **EV 302: Completed accrual**





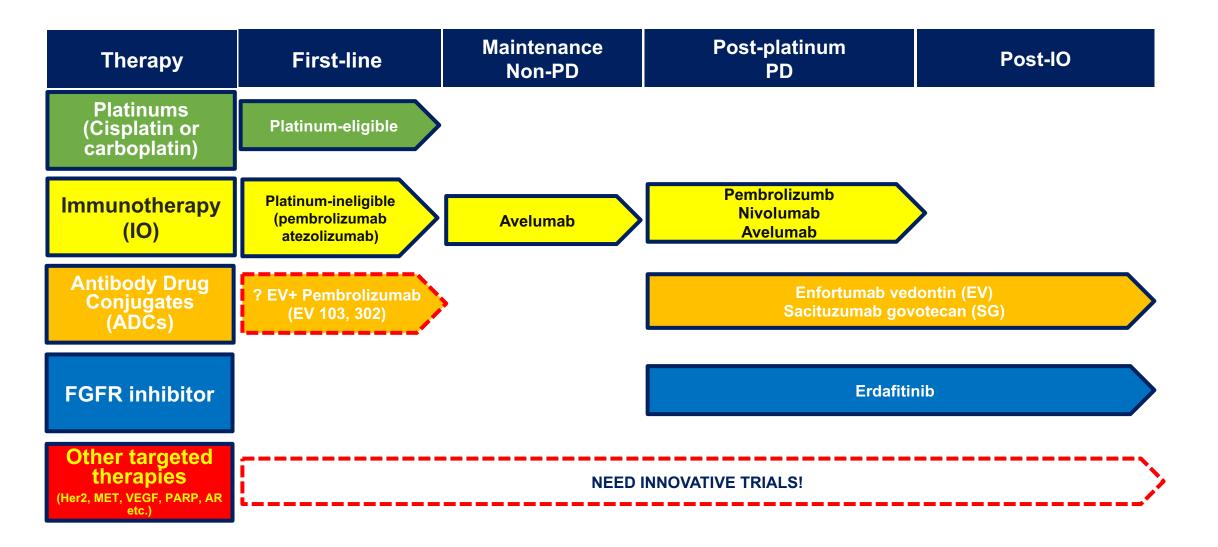
## Conclusions

Platinum-based chemotherapy followed by switch maintenance avelumab is the current standard

Single-agent immunotherapy only recommended in platinum-ineligible mUC patients

Enfortumab + pembrolizumab combination is a promising 1L regimen in cisplatinineligible mUC patients







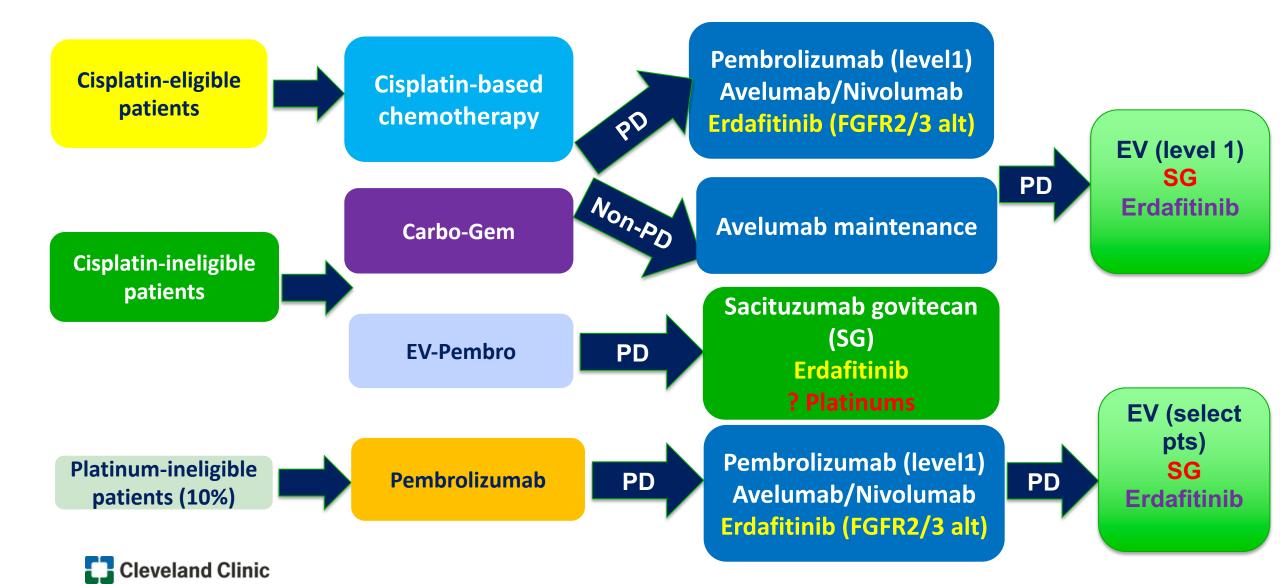


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## **My Treatment Paradigm for mUC in 2023**



## **Thank You!**













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