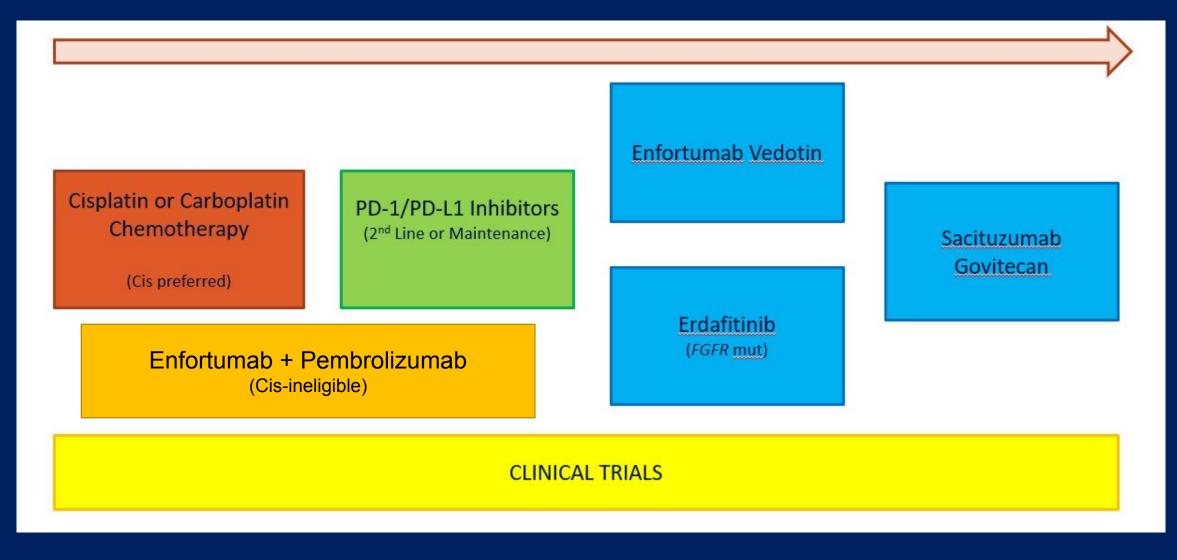
How I Treat Metastatic Bladder Cancer

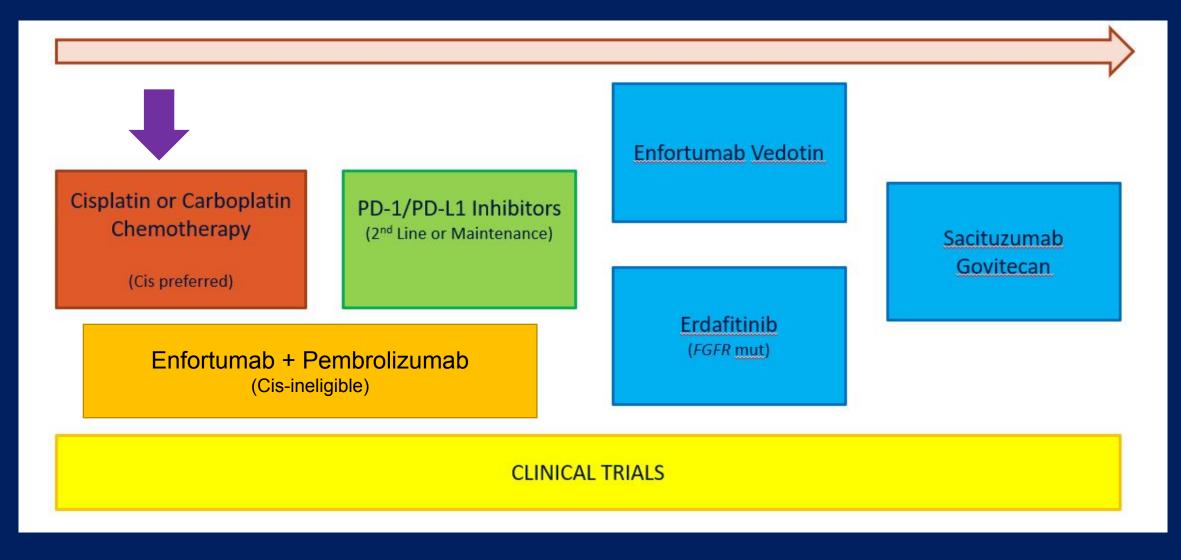
Master Lecture Series – Nashville 7/29/23

Benjamin Garmezy, MD Sarah Cannon Research Institute at Tennessee Oncology

Metastatic Urothelial Carcinoma



Metastatic Urothelial Carcinoma



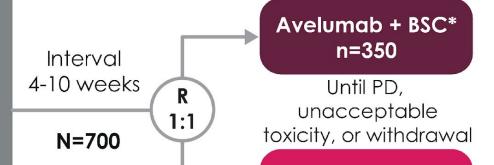
JAVELIN Bladder 100

Unresectable locally advanced or metastatic UC

CR, PR, or SD with standard 1L chemotherapy (4-6 cycles)

- Cisplatin + gemcitabine or
- Carboplatin + gemcitabine

All endpoints measured post randomization (after chemotherapy)



• OS

Primary analysis populations

- All randomized patients
- PD-L1+ population[†]

Primary endpoint

Secondary endpoints

- PFS per RECIST 1.1
- Safety

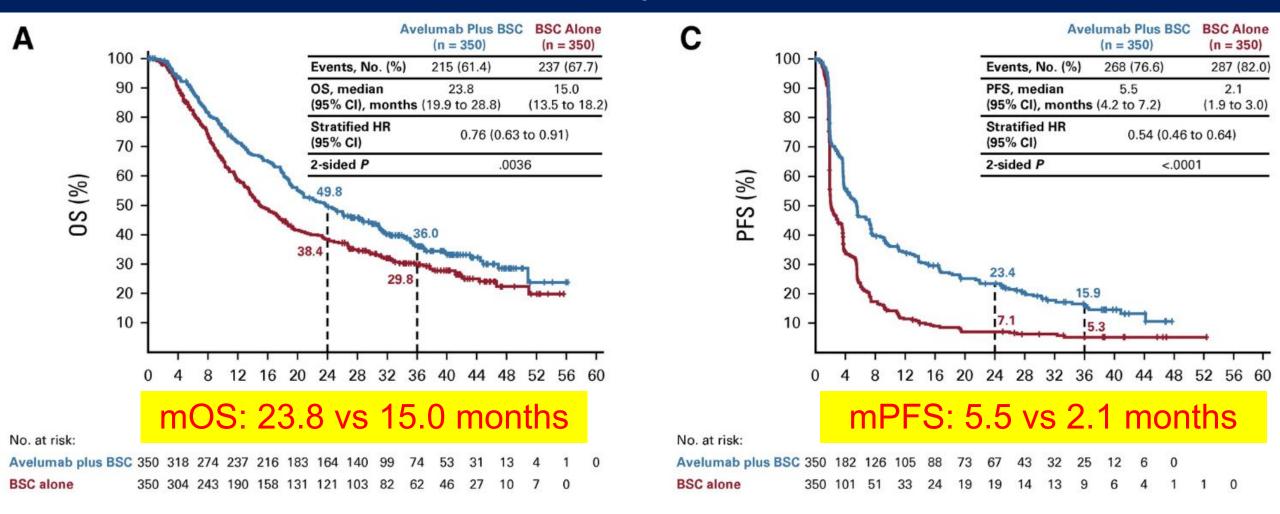
Stratification

- Best response to 1L chemotherapy (CR or PR vs SD)
- Metastatic site when initiating 1L chemotherapy (visceral vs nonvisceral)

BSC* alone

n = 350

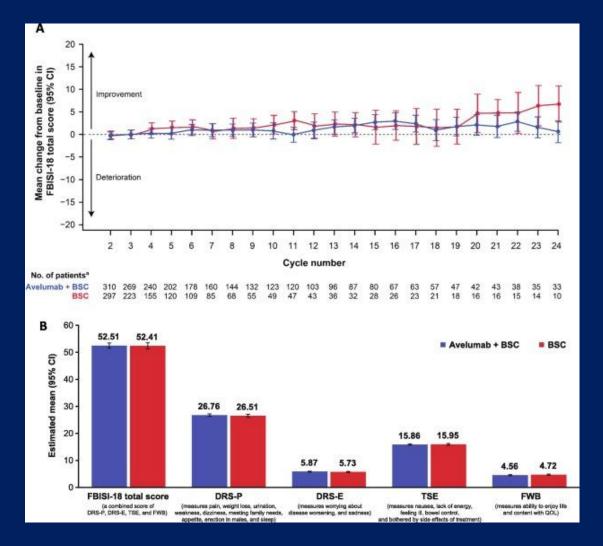
JAVELIN Bladder 100: ≥2 years of Follow-Up

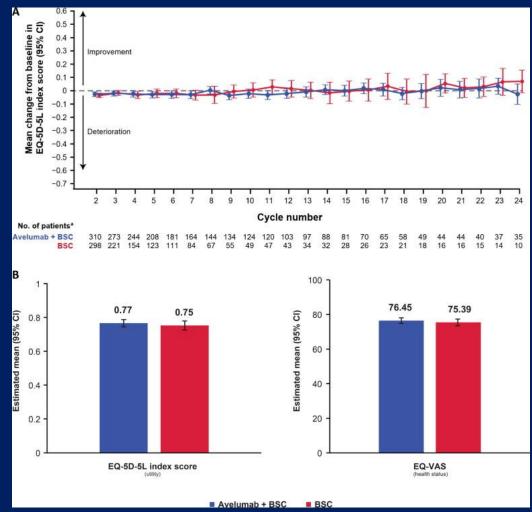


JAVELIN Bladder 100

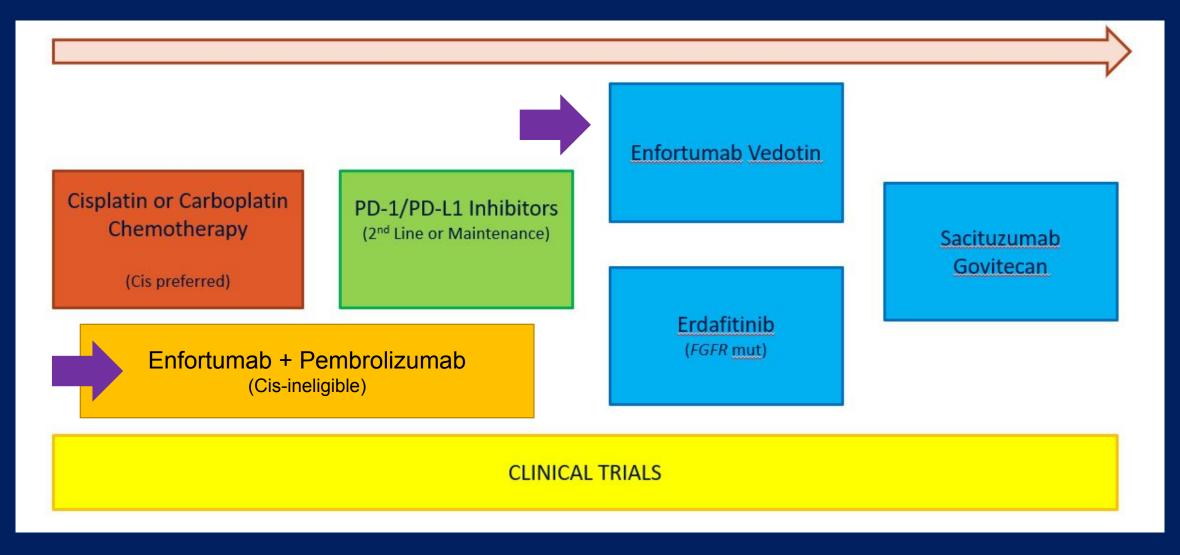
Table 3. Adverse Events (Safety Population).*				
Event	Avelumab Group (N = 344) Control Group (N = 345)			up (N=345)
	Any Grade	Grade ≥3	Any Grade	Grade ≥3
		number of patier	nts (percent)	
Any adverse event	337 (98.0)	163 (47.4)	268 (77.7)	87 (25.2)
Fatigue	61 (17.7)	6 (1.7)	24 (7.0)	2 (0.6)
Pruritus	59 (17.2)	1 (0.3)	6 (1.7)	0
Urinary tract infection	59 (17.2)	15 (4.4)	36 (10.4)	9 (2.6)
Diarrhea	57 (16.6)	2 (0.6)	17 (4.9)	1 (0.3)
Arthralgia	56 (16.3)	2 (0.6)	19 (5.5)	0
Asthenia	56 (16.3)	0	19 (5.5)	4 (1.2)
Constipation	56 (16.3)	2 (0.6)	31 (9.0)	0
Back pain	55 (16.0)	4 (1.2)	34 (9.9)	8 (2.3)
Nausea	54 (15.7)	1 (0.3)	22 (6.4)	2 (0.6)
Pyrexia	51 (14.8)	1 (0.3)	12 (3.5)	0
Decreased appetite	47 (13.7)	1 (0.3)	23 (6.7)	2 (0.6)
Cough	44 (12.8)	1 (0.3)	16 (4.6)	0
Vomiting	43 (12.5)	4 (1.2)	12 (3.5)	2 (0.6)
Hypothyroidism	40 (11.6)	1 (0.3)	2 (0.6)	0
Rash	40 (11.6)	1 (0.3)	4 (1.2)	0
Anemia	39 (11.3)	13 (3.8)	23 (6.7)	10 (2.9)
Hematuria	36 (10.5)	6 (1.7)	37 (10.7)	5 (1.4)
Infusion-related reaction	35 (10.2)	3 (0.9)	0	0

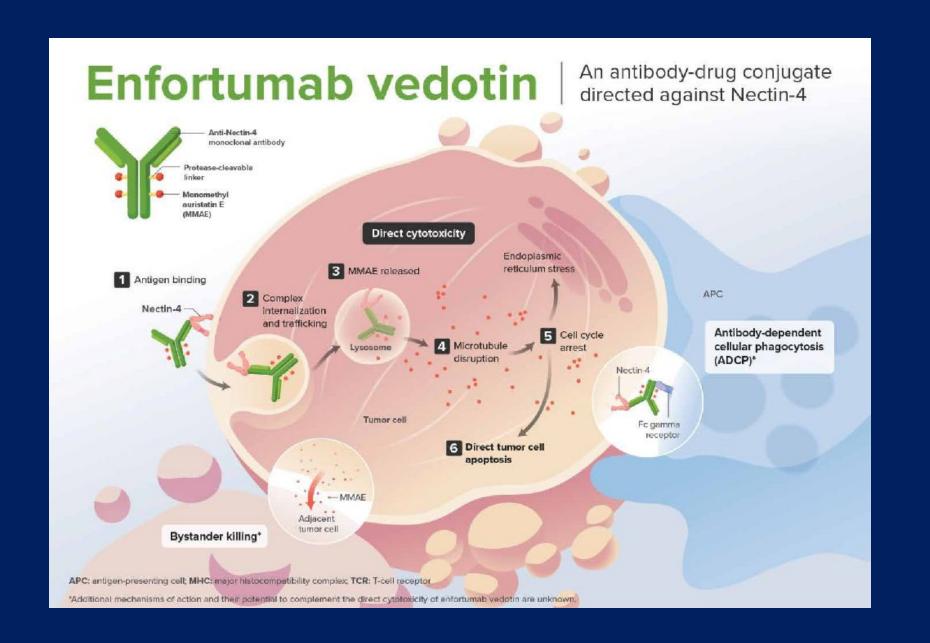
JAVELIN Bladder 100 PROs: Similar QOL with Avelumab vs BSC





Metastatic Urothelial Carcinoma

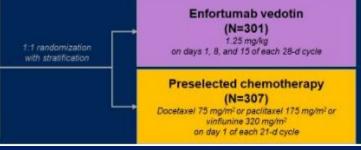




EV-301: Enfotumab Vedotin in Previously Treated Advanced Urothelial Carcinoma

Key eligibility criteria:

- Histologically/Cytologically confirmed UC
- Radiographic progression/ relapse during or after PD-1/L1 treatment for advanced UC
- Prior platinum-containing regimen for advanced UC
- ECOG PS 0-1



Primary end point: Overall survival Secondary end points: Progression-free survival Disease control rate Overall response rate Safety Findings from the prespecified, event-driven OS analysis when 439 deaths occurred are presented

Overall Survival

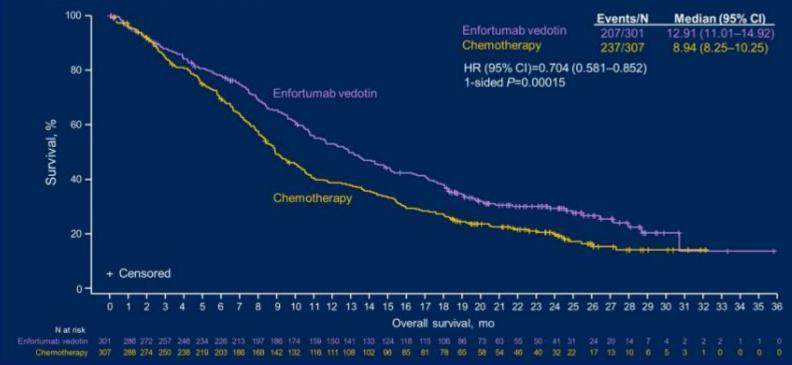


Table 2. Treatment-Related Adverse Events (Safety Population).* Enfortumab Vedotin Group Chemotherapy Group Adverse Event (N=296) (N=291)Any Grade Grade ≥3 Any Grade Grade ≥3 number of patients (percent) Any adverse event 278 (93.9) 267 (91.8) 145 (49.8) 152 (51.4) 134 (45.3) 106 (36.4) Alopecia 0 0 Peripheral sensory neuropathy† 100 (33.8) 9 (3.0) 6 (2.1) 62 (21.3) 0 Pruritus 95 (32.1) 4 (1.4) 13 (4.5) Fatigue 92 (31.1) 19 (6.4) 66 (22.7) 13 (4.5) Decreased appetite 91 (30.7) 9 (3.0) 68 (23.4) 5 (1.7) Diarrhea 72 (24.3) 10 (3.4) 48 (16.5) 5 (1.7) Dysgeusia 72 (24.3) 0 21 (7.2) 0 4 (1.4) Nausea 67 (22.6) 3 (1.0) 63 (21.6) Maculopapular rash 48 (16.2) 22 (7.4) 5 (1.7) 0 Anemia 34 (11.5) 8 (2.7) 59 (20.3) 22 (7.6) Decreased neutrophil count 39 (13.4) 30 (10.1) 18 (6.1) 49 (16.8) Neutropenia 20 (6.8) 14 (4.7) 24 (8.2) 18 (6.2) Decreased white-cell count 16 (5.4) 4 (1.4) 31 (10.7) 20 (6.9)

2 (0.7)

16 (5.5)

2 (0.7)

Febrile neutropenia

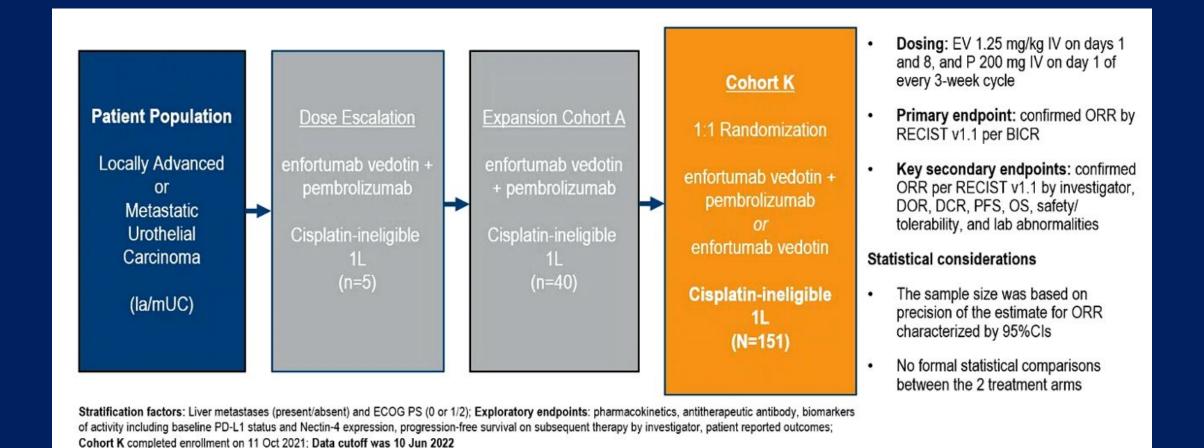
16 (5.5)

EV-301: Enfotumab Vedotin in Previously Treated Advanced Urothelial Carcinoma

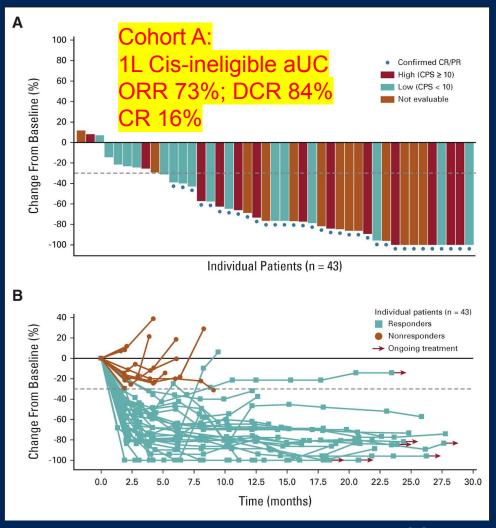
	Enfortuma N=2	ıb Vedotin 296	Chemotherapy N=291	
Treatment-Related Adverse Event	All Grade	Grade ≥3	All Grade	Grade ≥3
Skin Reactions ^a	47%	15%	16%	1%
Rash	44%	15%	10%	Oc
Severe cutaneous adverse reactions ^b	20%	5%	8%	1%
Peripheral neuropathy	46%	5%	31%	2%
Sensory events	44%	4%	30%	2%
Motor events	7%	2%	2%	0
Hyperglycemia	6%	4%	0 c	0

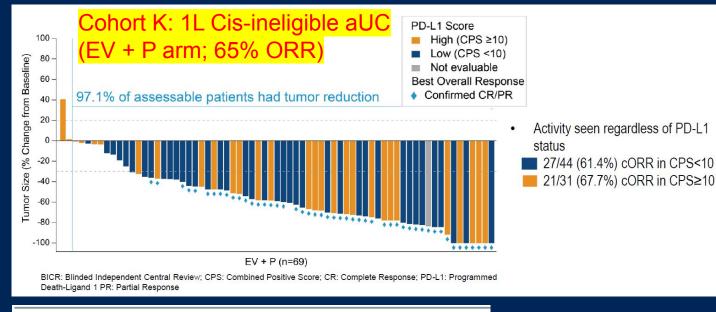
The majority of TRAEs of special interest were mild-to-moderate in severity.

EV-103: Enfortumab Vedotin +/- Pembrolizumab



EV-103: Pembrolizumab + Enfortumab Vedotin





TRAEs Any Grades by Preferred Term _	EV+P (N=76) n (%)			
≥20% of Patients	Any Grade	Grade ≥3		
Overall	76 (100.0)	48 (63.2)		
Fatigue	43 (56.6)	7 (9.2)		
Peripheral sensory neuropathy	39 (51.3)	1 (1.3)		
Alopecia	35 (46.1)	0		
Rash maculo-papular	35 (46.1)	13 (17.1)		
Pruritus	30 (39.5)	3 (3.9)		

ORR, objective response rate

Hoimes et al, JCO 2023

Rosenberg et al, ESMO 2022





PRESENTED BY: Benjamin Garmezy, MD



EV-103 Cohort K: Treatment-Related Adverse Events of Special Interest

TABLE A2. EV Treatment-Related AEs of Special Interest

_	EV + Pembro (N = 76)			EV Monotherapy (N = 73)			
Adverse Event	Any Grade, No. (%)	Grade ≥3, No. (%)	Time to Onset, Any Grade, Median, Months	Any Grade, No. (%)	Grade ≥3, No. (%)	Time to Onset, Any Grade, Median, Months	
Skin reactions	51 (67.1)	16 (21.1)	0.53	33 (45.2)	6 (8.2)	0.95	
Rashes	50 (65.8)	15 (19.7)	NA	32 (43.8)	5 (6.8)	NA	
Severe cutaneous AEs	14 (18.4)	2 (2.6)	NA	13 (17.8)	3 (4.1)	NA	
Peripheral neuropathy	46 (60.5)	2 (2.6)	2.99	40 (54.8)	2 (2.7)	2.48	
Ocular disorders	20 (26.3)	0	NA	21 (28.8)	0	NA	
Dry eye	19 (25.0)	0	1.64	21 (28.8)	0	2.04	
Blurred vision	2 (2.6)	0	6.93	5 (6.8)	0	3.45	
Corneal disorders	0	0	NA	4 (5.5)	0	3.48	
Hyperglycemia	11 (14.5)	5 (6.6)	0.53	8 (11.0)	7 (9.6)	0.69	
Infusion-related reactions	3 (3.9)	0	NA	4 (5.5)	0	NA	

NOTE. Treatment relatedness is determined by investigator.

Abbreviations: AE, adverse event; EV, enfortumab vedotin; NA, not available; Pembro, pembrolizumab.

FDA grants accelerated approval to enfortumab vedotin-ejfv with pembrolizumab for locally advanced or metastatic urothelial carcinoma

Apr 3, 2023

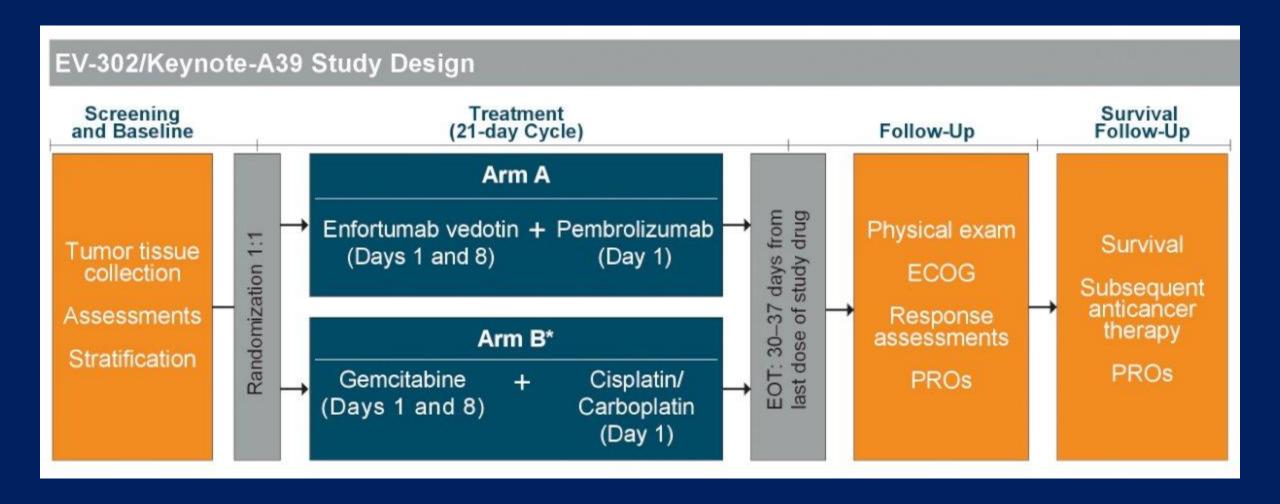
- Cisplatin-ineligible patients
- Combination of dose escalation, cohort A, and cohort K
- 121 patients: ORR 68%, CR 12%
 - Cohort A median DoR 25.6 months
 - Cohort K median DoR not reached

ORR, objective response rate; DoR, duration or response





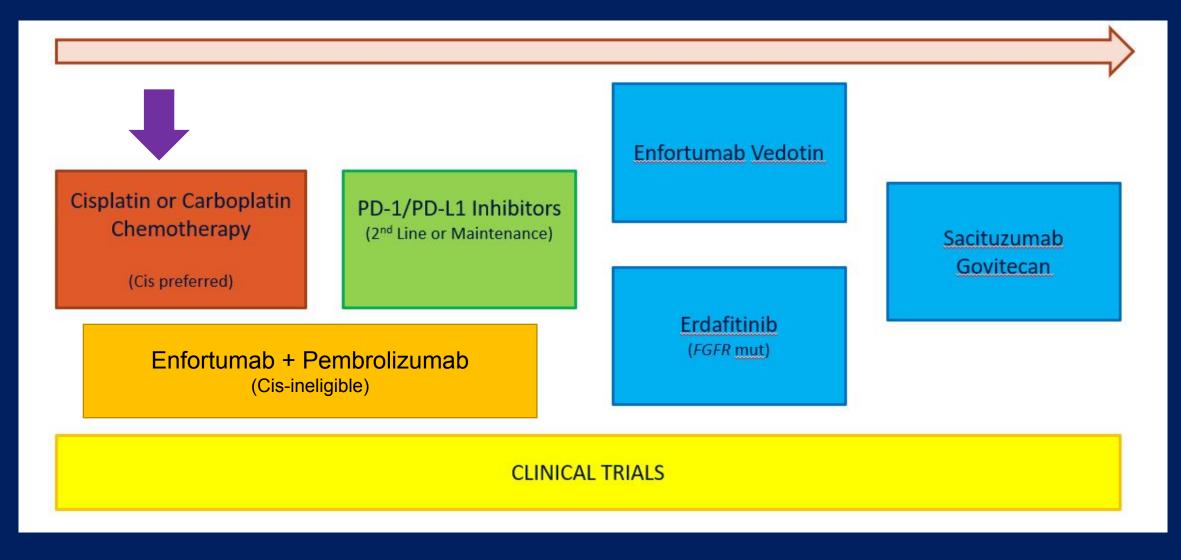




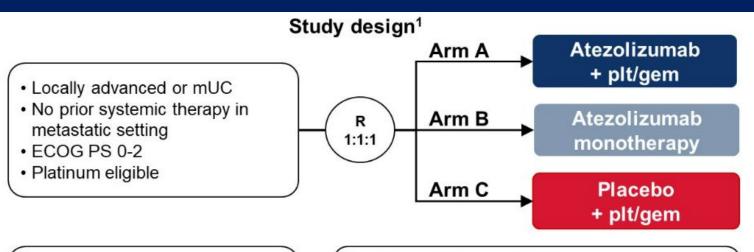
Expression of Nectin-4 and PD-L1 in Bladder Cancer with Variant Histology

				ctin-4 H-score	PD-L1	
Histology	No. of specimens	% of total (N = 117)	Mean	Median (range)	CPS ≥ 10 n(%)	
Squamous	31	26.5	207.7	219.5 (17-300)	15/30 (50)	
Adenocarcinoma	24	20.5	166.9	140.0 (45-299)	4/24 (16.7)	
Sarcomatoid	24	20.5	52.3	2.5 (0-300)	17/24 (70.8)	
Plasmacytoid	20	17.1	253.5	257.5 (108-300)	1/20 (5)	
Small cell	10	8.5	46.8	0 (0-233)	2/10 (20)	
Mixed	8	6.8	122	105 (20-265)	2/8 (25)	

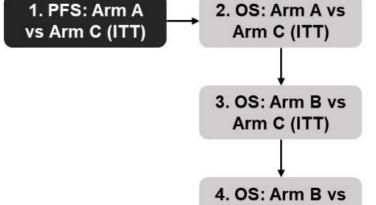
Metastatic Urothelial Carcinoma



IMvigor130: a global, randomized, Phase III study (NCT02807636)



Statistical testing hierarchy (PFS and OS co-primary endpoints)^b



Stratification factors

- PD-L1 IC status (IC0 vs IC1 vs IC2/3)
- Bajorin risk factor score (0 vs 1 vs 2 and/or liver metastases)
- Investigator's choice of platinum

Co-primary efficacy endpoints

- Investigator-assessed PFS^a and OS (Arm A vs C ITT)
- OS (Arm B vs C ITT and PD-L1 IC2/3, hierarchical approach)

Secondary efficacy endpoints

- Investigator-assessed ORRa and DOR
- Investigator-assessed PFSa (Arm B vs C)

Safety

Exploratory analysis: Subgroup analysis of outcomes in patients who were cisplatin ineligible

ITT, intention to treat; KPS, Karnofsky performance status.

^a Per RECIST 1.1. ^b Final OS analysis planned to occur after approximately 667 OS events in Arms A and C. 1. Galsky, et al. Lancet. 2020;395:1547-57.

ASCO Genitourinary Cancers Symposium



PRESENTED BY: Bamias A. IMvigor130 Arms B/C Final OS [abs LBA441]

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https://bit.ly/3iUbdF3 #IMvigor130

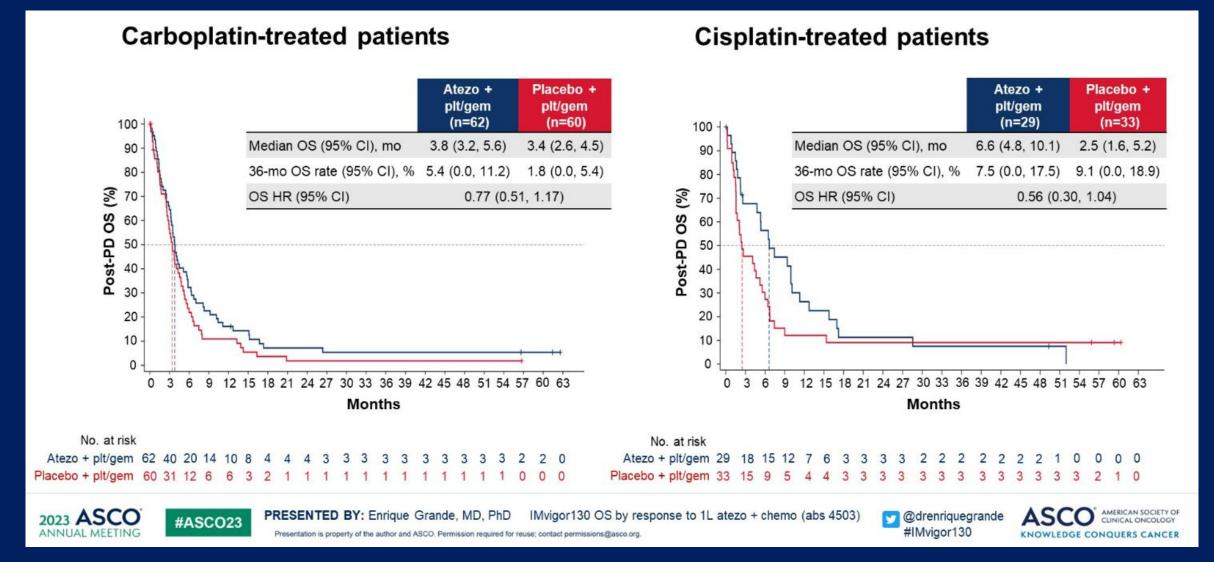


Arm C (IC2/3)

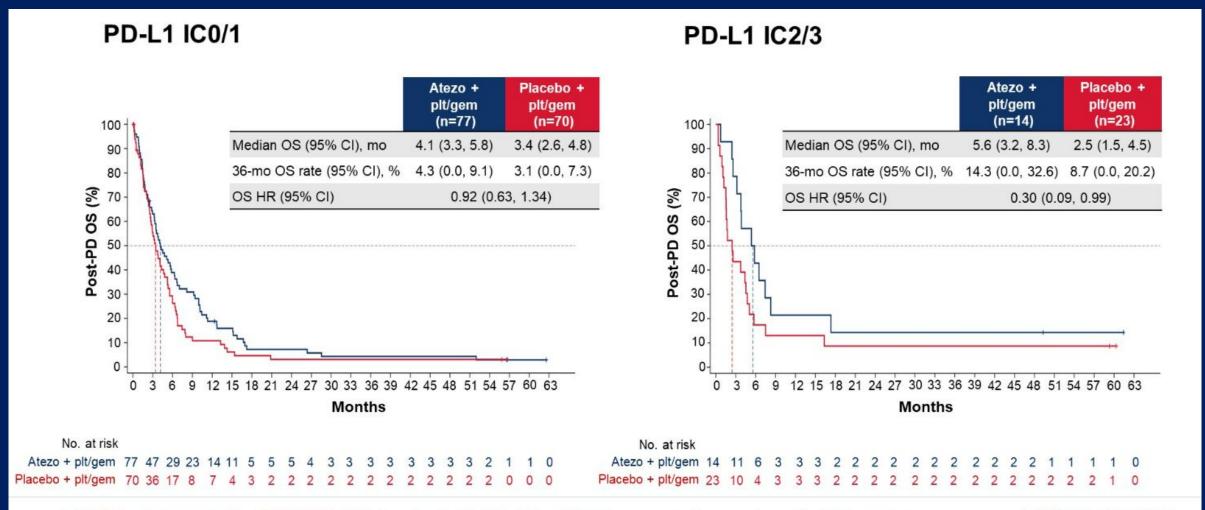
IMvigor130: OS by Clinical Subgroup

	А	rm B	А	rm Ca	
Baseline risk factors	n	Median OS. mo	n	Median OS. mo	Hazard ratio (95% CI) ^b
All patients	360	15.2	359	13.3	0.96 (0.80, 1.12)
Age <65 years	142	16.0	145	12.6	0.91 (0.70, 1.19)
Age 65-80 years	192	14.7	192	14.6	1.00 (0.80, 1.26)
Age ≥80 years	26	14.9	22	11.3	0.82 (0.43, 1.57)
Female	81	17.7	95	12.2	0.69 (0.48, 0.98)
Male	279	14.6	264	14.3	1.05 (0.87, 1.27)
Investigator's choice of cisplatin	135	16.3	136	13.4	0.98 (0.74, 1.30)
Investigator's choice of carboplatin	225	14.6	223	13.0	0.92 (0.75, 1.14)
Bajorin risk factor score 0	150	22.4	149	19.9	0.92 (0.70, 1.21)
Bajorin risk factor score 1	133	16.0	134	11.7	0.73 (0.56, 0.96)
Bajorin risk factor score 2 or liver metastasis	77	3.6	76	10.0	1.60 (1.14, 2.26)
ECOG PS 0	157	20.3	161	18.9	0.86 (0.65, 1.12)
ECOG PS 1	172	11.0	171	11.2	1.04 (0.83, 1.32)
ECOG PS 2	31	2.9	27	8.4	0.88 (0.50, 1.58)
PD-L1 IC0	113	12.1	115	12.8	1.04 (0.78, 1.39)
PD-L1 IC1	159	14.2	159	13.1	1.02 (0.80, 1.31)
PD-L1 IC2/3	88	27.5	85	16.7	0.73 (0.51, 1.07)
					0.3 1.0 3.0
^a Comparison included only patients concurrently enrolled	d with Arm E	3. b Unstratified.			Hazard ratio Favors atezolizumab Favors placebo + plt/gem
Cancara Cuma acium #GU23		nias A. IMvigor130			41] https://bit.ly/3iUbdF3 ASCO* AMERICAN SOCIETY OF CLINICAL ONCOLOGY

Imvigor: Post-progression OS in patients with PD: by Chemotherapy Type



IMvigor 130: Post-progression OS in patients with PD: by PD-L1 Status

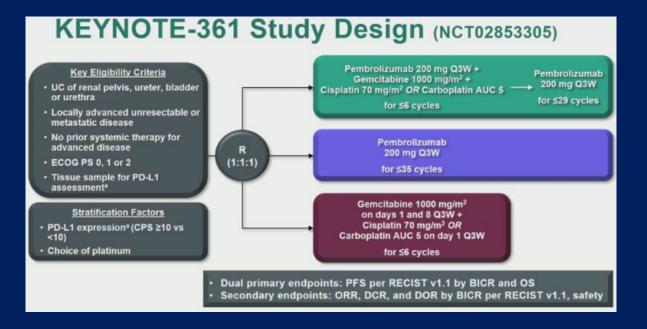




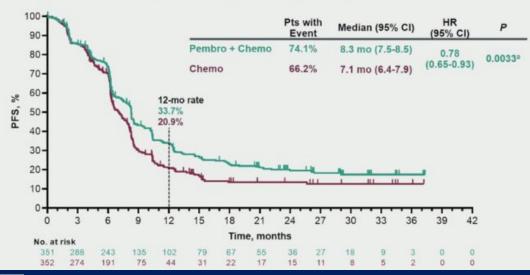




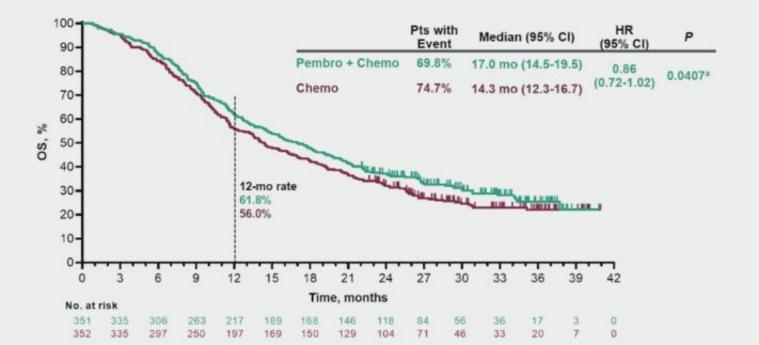




PFS by BICR: Pembro + Chemo vs Chemo, ITT Population (Primary Endpoint)



OS: Pembro + Chemo vs Chemo, ITT Population



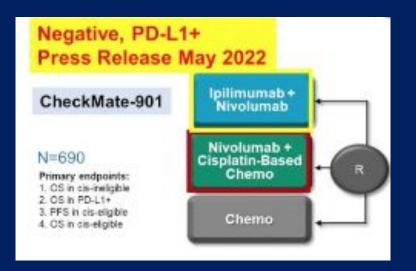
Neither PFS or OS reached statistical significance via predetermined plan

(nivolumab) in Combination with Cisplatin-Based Chemotherapy Shows Overall Survival and Progression-Free Survival Benefit for Cisplatin-Eligible Patients with Unresectable or Metastatic Urothelial Carcinoma in the Phase 3 CheckMate -901 Trial

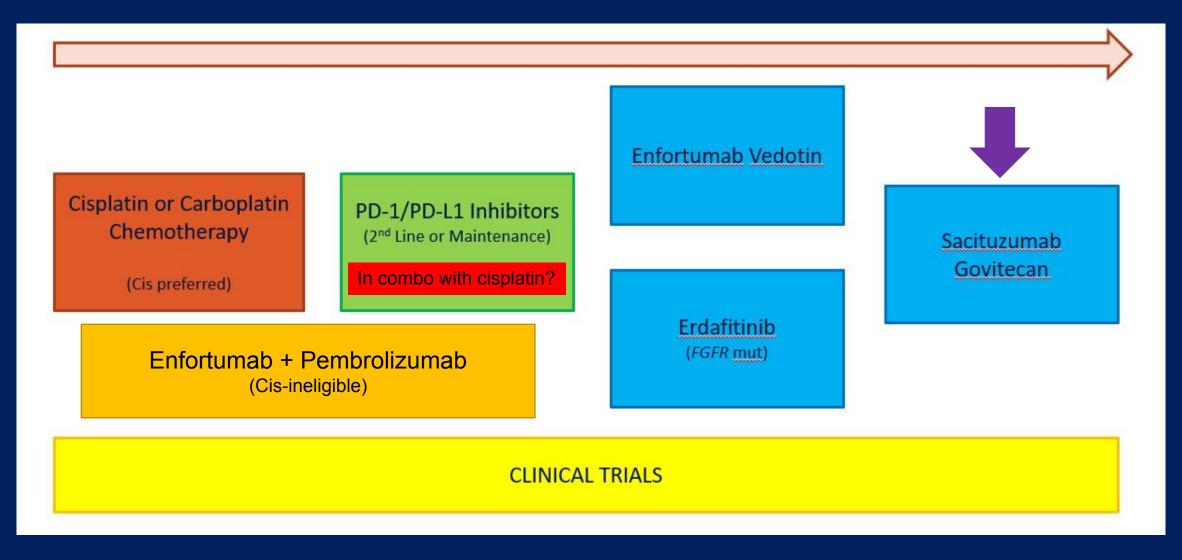
07/11/2023

CATEGORY: Corporate/Financial News

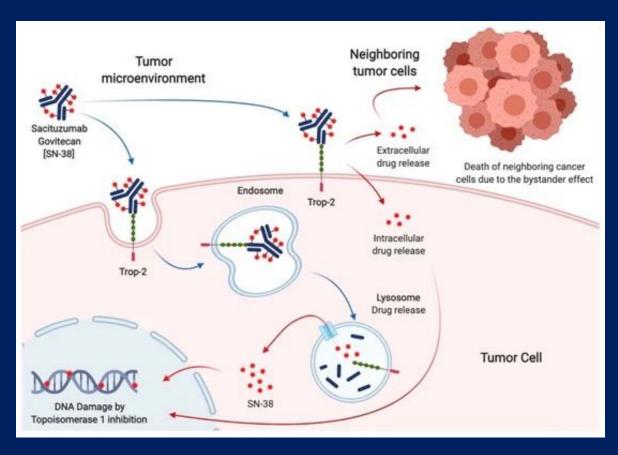
CheckMate -901 is the first and only Phase 3 trial with an immunotherapy-based combination to demonstrate a survival benefit compared to standard-of-care cisplatin-based combinations in the first-line treatment of this patient population



Metastatic Urothelial Carcinoma

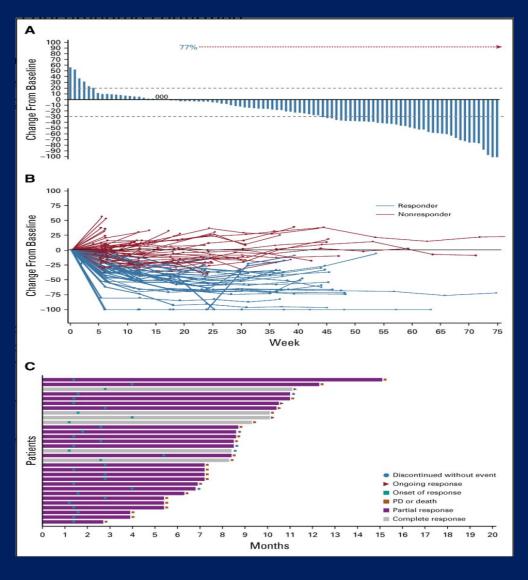


Sacituzumab Govitecan (SG): Trop-2-Directed ADC



- SG is an ADC composed of Trop-2 antibody coupled to SN-38, the active metabolite of irinotecan
- SG was granted FDA –accelerated approval for patients with locally advanced or mUC who have previously received a platinum-chemotherapy and a CPI.

TROPHY-U-01 Cohort 1: Prior Platinum and Immunotherapy



- 113 patients
- ORR 27.4%, including 6 CR (5.3%) and 25 PR (22.1%)
- Median DOR 7.2 mo (95% CI, 4.7 8.6m)
- mPFS 5.4mo (95% CI, 3.5 7.2 m; range 2.4 8.9)
- mOS 10.9mo (95% Cl 9 13 m; range 3.8 -19.8

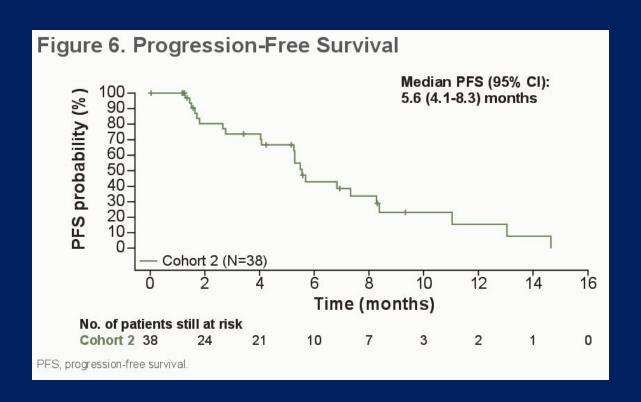
TROPHY-U-01 Cohort 1: Prior Platinum and Immunotherapy

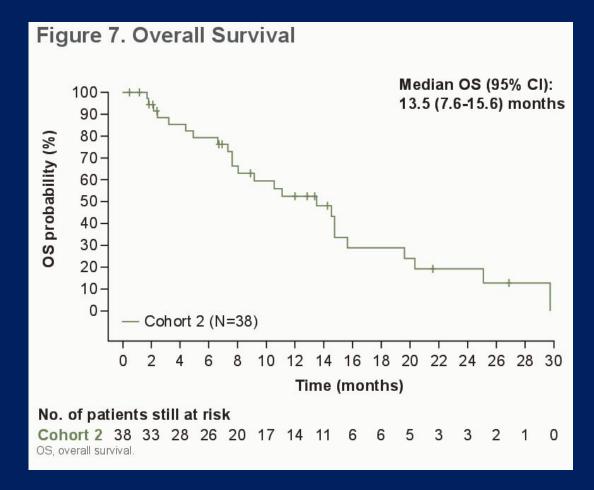
TABLE 3. Most Common TRAEs of Any Grade (Observ	ed in \geq 20% of Patients) orTRAE	Es Grade \geq 3 (Observed	in \geq 5% of Patients)	(N = 113)
Category	Event	All Grades (%)	Grade 3 (%)	Grade 4 (%)
Hematologic ^a	Neutropenia	46	22	12
	Leukopenia	25	12	5
	Anemia	33	14	0
	Lymphopenia	11	5	2
	Febrile neutropenia	10	7	3
GI	Diarrhea	65	9	1
	Nausea	60	4	0
	Vomiting	30	1	0
General disorders and administrative site conditions	Fatigue	52	4	0
Skin and subcutaneous tissue	Alopecia	47	0	0
Metabolism and nutrition	Decreased appetite	36	3	0
Infections and infestations	Urinary tract infection	8	6	0

Abbreviation: TRAEs, treatment-related adverse events.

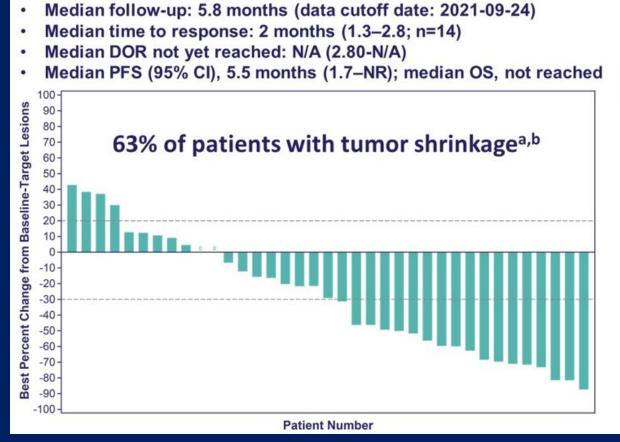
^aNeutrophil count decreased, WBC count decreased, lymphocyte count decreased, and hemoglobin decreased have been recoded to neutropenia, leukopenia, lymphopenia, and anemia, respectively, for summary purposes.

TROPHY-U-01 Cohort 2: Platinum-Ineligible and CPI-exposed





TROPHY-U-01 Cohort 3: SG + Pembro in pts with mUC who progressed after PLT-based regimens



	Cohort 3 ^a (N=41)
Objective response rate (CR + PR), n (%) [95%CI]	14 (34) [20.1-50.6]
Objective response rate (CR + PR), evaluable patients, n (%)	14 (38)
Best overall response, n (%)	
CR	1 (2)
PR	13 (32)
SD	11 (27)
SD ≥ 6 months	4 (10)
PD	12 (29)
Not assessed	4 (10)
Clinical Benefit Rate (CR + PR + SD), n (%) [95%CI]	25 (61) [44.5-75.8]

- Treatment-related Gr 3-4 AEs in 59% of patients 39% of pts had SG dose reduction due to TRAE.
- No treatment-related death occurred.

TROPHY-U-01 Study Design

Cohort 1a (~100 pts): Pts (≥18 years) with mUC who SG 10 mg/kg progressed after prior PT- and CPI-based therapies D1 and D8, every 21 D Petrylak DP, et al.3 Cohort 2 (~40 pts): Pts with mUC who progressed SG 10 mg/kg after CPI therapy and were D1 and D8, every 21 D PT-ineligible at the start of study Grivas P. et al.4 Cohort 3 (up to 61 pts): CPI-naive pts with mUC who SG 10 mg/kg D1 and D8, every 21 D + Pembrolizumab 200 mg D1 every 21 D progressed after prior PT-therapies Induction: Cis + SG (6 cycles); Cohort 4 (up to 57 pts): Pts with cis-eligible, Maintenance: (1) SG + avelumab; treatment-naive LA or mUC (2) SG + zimc Cohort 5b (~158 pts): Pts with LA or mUC who Arms: (1) SG + zim; (2): Avelumab; (3): zim completed 1L cis + gem without progression Cohort 6 (up to 226 pts): Pts with cis-ineligible, Arms: (1) SG; (2) SG + zim; (3) SG + zim + dom; (4) carbo + gem + avelumab treatment-naive LA or mUC maintenance

Enrollment of Cohorts 1,2,3 is closed. Currently enrollment is open under PA 9 for cohort 4,5,and 6.

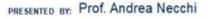
Tagawa ST, et al. 1,2

^aAccelerated FDA approval for treatment of patients with LA or mUC who previously received PT-containing chemotherapy and PD-1/L1 inhibitor9. ^bPatients will complete 4-6 cycles of cis + gem induction before being randomized. ^cAfter completion of the cohort 5 safety lead-in, patients in the dose expansion of cohort 4 will receive SG + zim in the maintenance phase.

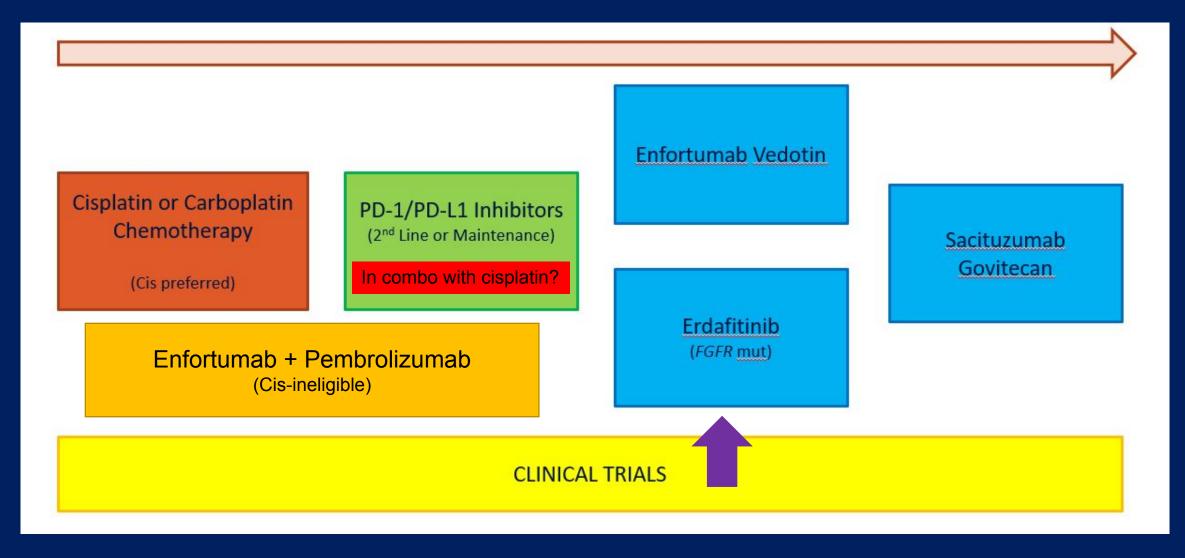
1. Tagawa ST, et al. J Clin Oncol. 2021 Aug 1;39(22):2474-2485; 2. Tagawa ST, et al. J Clin Oncol. 41, 2023 (suppl 6; abstr 526); 3. Petrylak DP, et al. J Clin Oncol. 41, 2023 (suppl 6; abstr 518)







Metastatic Urothelial Carcinoma



Phase 3 THOR Study: Erdafitinib vs Chemotherapy of Choice in Patients with Advanced Urothelial Cancer and Selected FGFR Aberrations

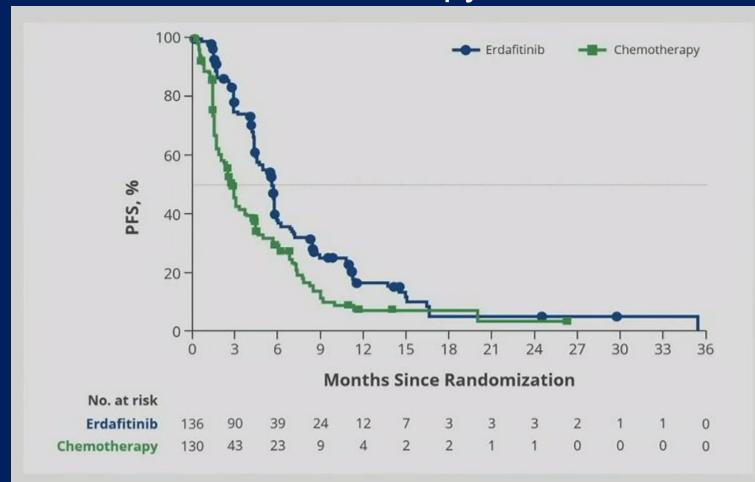


*Molecular eligibility can be confirmed using either central or local historical FGFR test results (Qiagen assay). If a patient was enrolled based on local historical testing, a tissue sample must still be submitted at the time of enrollment for retrospective confirmation (by central lab) of FGFR status. Tumors must have ≥1 of the following translocations: FGFR2-BICC1, FGFR3-TACC3_V1, FGFR3-TACC3_V1, FGFR3-TACC3_V1, FGFR3-TACC3_V3, FGFR3-BAIAP2L1; or 1 of the following FGFR3 gene mutations: R248C, S249C, G370C, Y373C.

^bNumber of patients randomized at the time of the interim analysis (data cutoff January 15, 2023).

ECOG PS, Eastern Cooperative Oncology Group performance status; FGFR, fibroblast growth factor receptor; FGFR3/2alt, FGFR3/2 alterations; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; PD-1, programmed cell death protein 1; PD-L1, programmed death-ligand 1; Q3W, every 3 weeks; tx, treatment; UC, urothelial cancer.

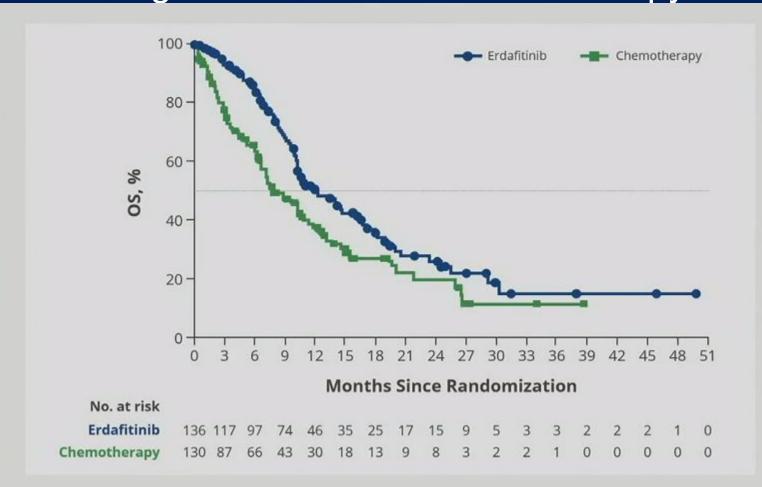
THOR: Erdafitinib Significantly Improved Progression-Free Survival vs Chemotherapy



- Median PFS was 5.6 versus 2.7 months for erdafitinib versus chemotherapy
- Erdafitinib reduced the risk of progression or death by 42% versus chemotherapy
 - HR, 0.58 (95% CI, 0.44-0.78;
 P = 0.0002)

CI, confidence interval; HR, hazard ratio; PFS, progression-free survival.

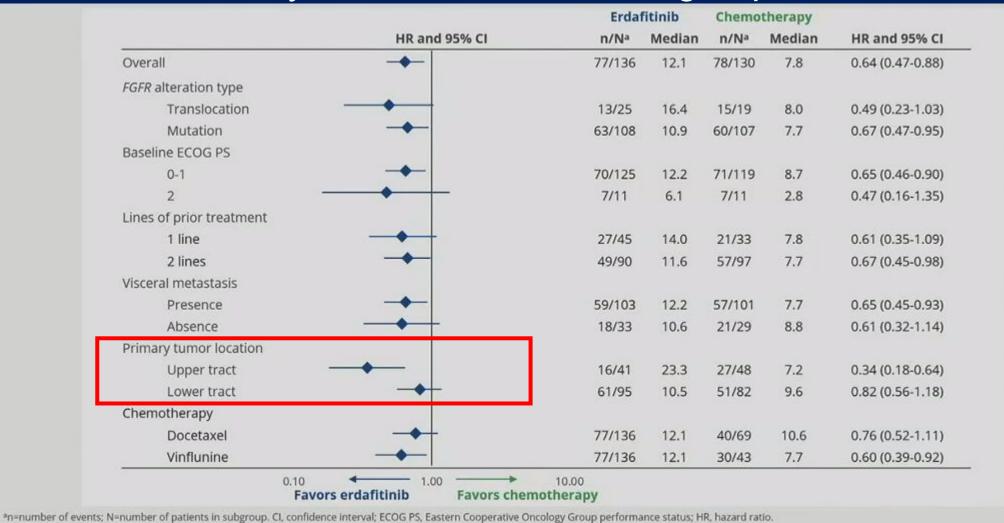
THOR: Overall Survival for Erdafitinib Was Superior to Investigator's Choice of Chemotherapy



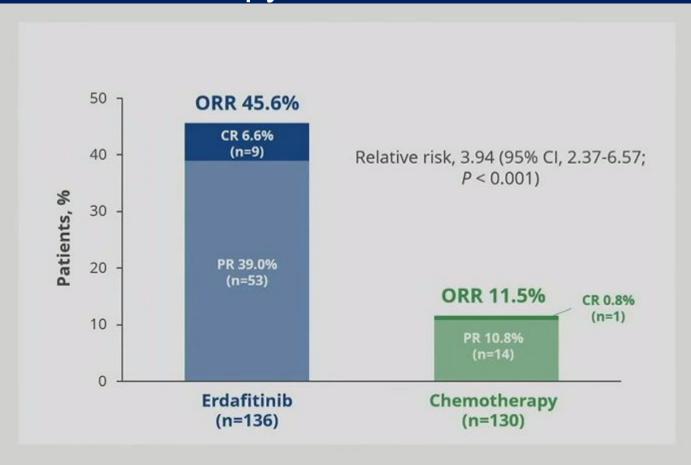
- Median follow-up was 15.9 months
- Median OS was 12.1 months for erdafitinib versus 7.8 months for chemotherapy
- Erdafitinib reduced the risk of death by 36% versus chemotherapy
 - HR, 0.64 (95% CI, 0.47-0.88;
 P = 0.005)^a
- Based on these interim analysis results, the IDMC recommended to stop the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

CI, 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.

THOR: Overall Survival Benefit with Erdafitinib vs Chemotherapy Was Consistently Observed Across Subgroups



THOR: Objective Reponse Rate Was Significantly Higher for Erdafitinib vs Chemotherapy



CI, confidence interval; CR, complete response; ORR, objective response rate; PR, partial response.

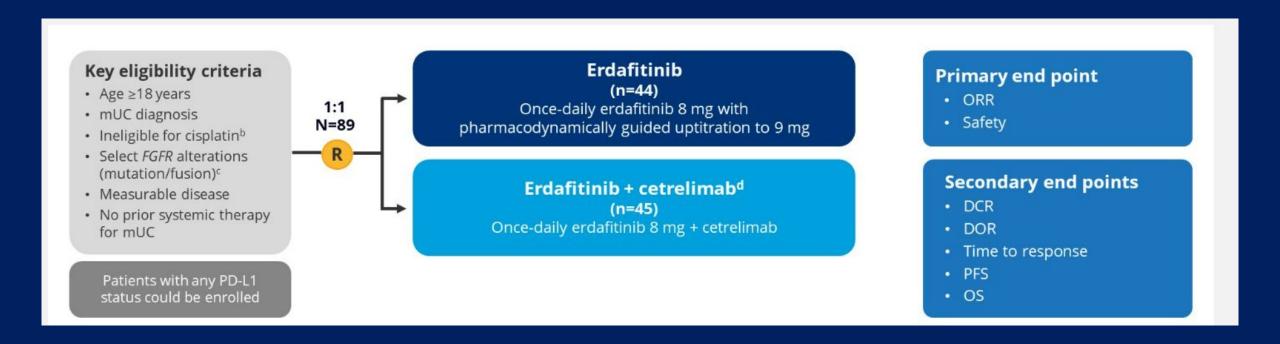
Responses were best overall response per investigator assessment.

THOR: The Safety Profiles Were Consistent With the Known Profiles of Erdafitinib and Chemotherapy (1/2)

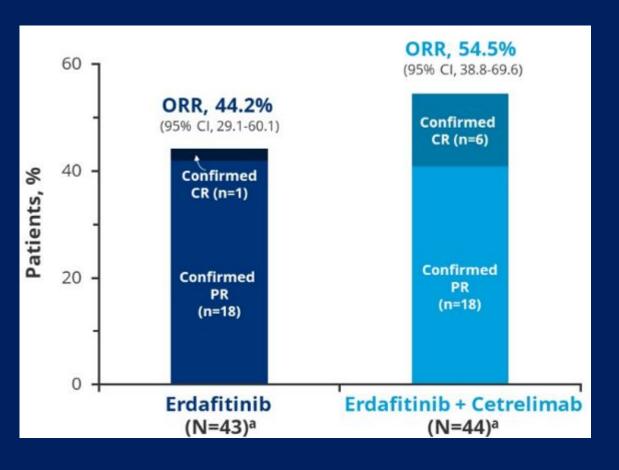
Patients with AEs, n (%) ^a	Erdafitinib (n=135)	
	Any grade	Grade 3-4
≥1 treatment-related AE	131 (97.0)	62 (45.9)
Hyperphosphatemia	106 (78.5)	7 (5.2)
Diarrhea	74 (54.8)	4 (3.0)
Stomatitis	62 (45.9)	11 (8.1)
Dry mouth	52 (38.5)	0
PPE syndrome	41 (30.4)	13 (9.6)
Onycholysis	31 (23.0)	8 (5.9)
Patients who discontinued study treatment, n (%)		
Discontinuation due to treatment-related AEs	11 (8.1%)b	

Patients with AEs of interest, n (%)	Erdafitinib (n=135)	
	Any grade	Grade 3-4
Nail disorders ^a	90 (66.7)	15 (11.1)
Skin disorders ^b	74 (54.8)	16 (11.9)
Eye disorders (excluding central serous retinopathy) ^c	57 (42.2)	3 (2.2)
Central serous retinopathy ^d	23 (17.0)	3 (2.2)

NORSE: Erdafitinib vs Erdafitinib + Cetrelimab

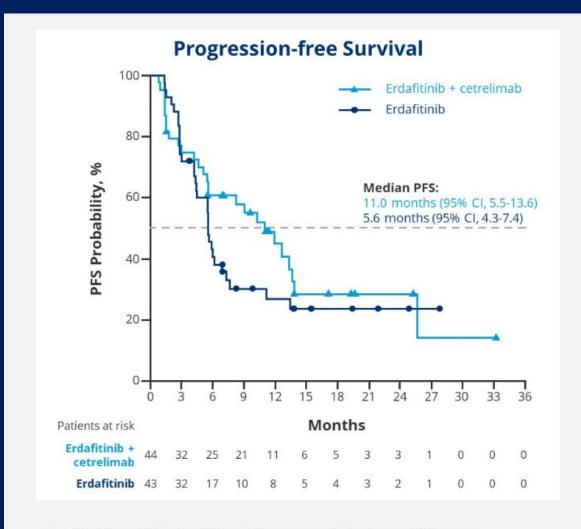


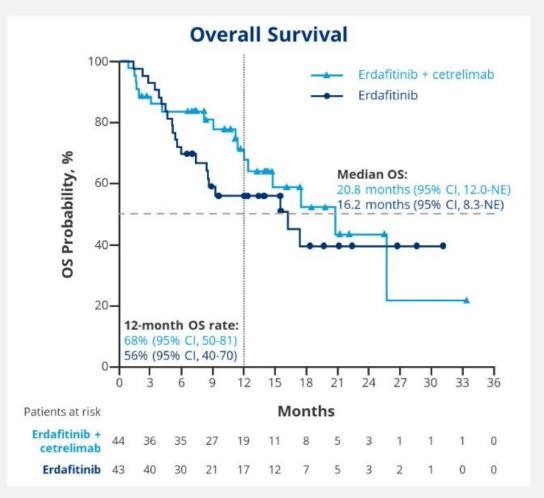
NORSE: Erdafitinib vs Erdafitinib + Cetrelimab



	Erdafitinib (N=43)	Erdafitinib + Cetrelimab (N=44)
DCR, median (95% CI), %	88.4 (74.9-96.1)	79.5 (64.7-90.2)
DOR, median (95% CI), months	9.72 (4.6-NE)	11.10 (8.8-NE)

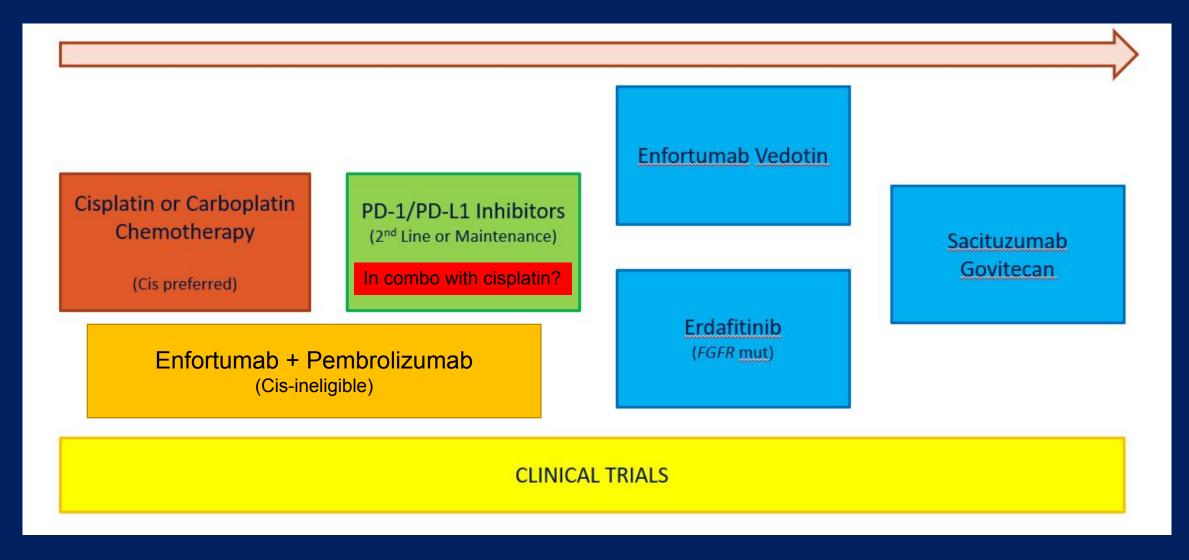
NORSE: Erdafitinib vs Erdafitinib + Cetrelimab



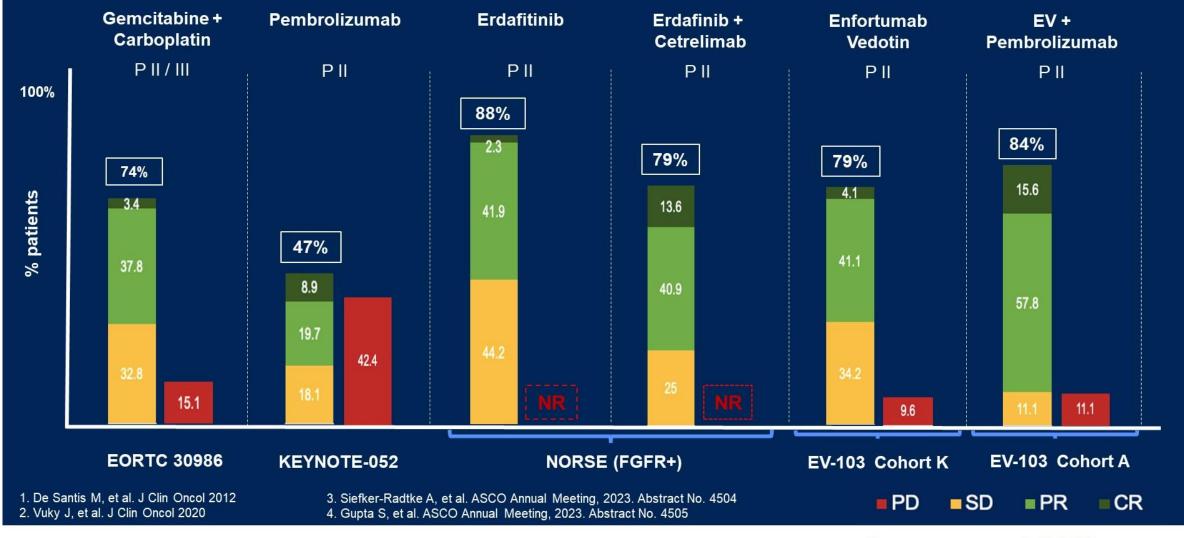


 ${\it CI, confidence interval; NE, not evaluable; OS, overall survival; PFS, progression-free survival.}$

Metastatic Urothelial Carcinoma



Disease Control Rate (DCR) in cisplatin ineligible



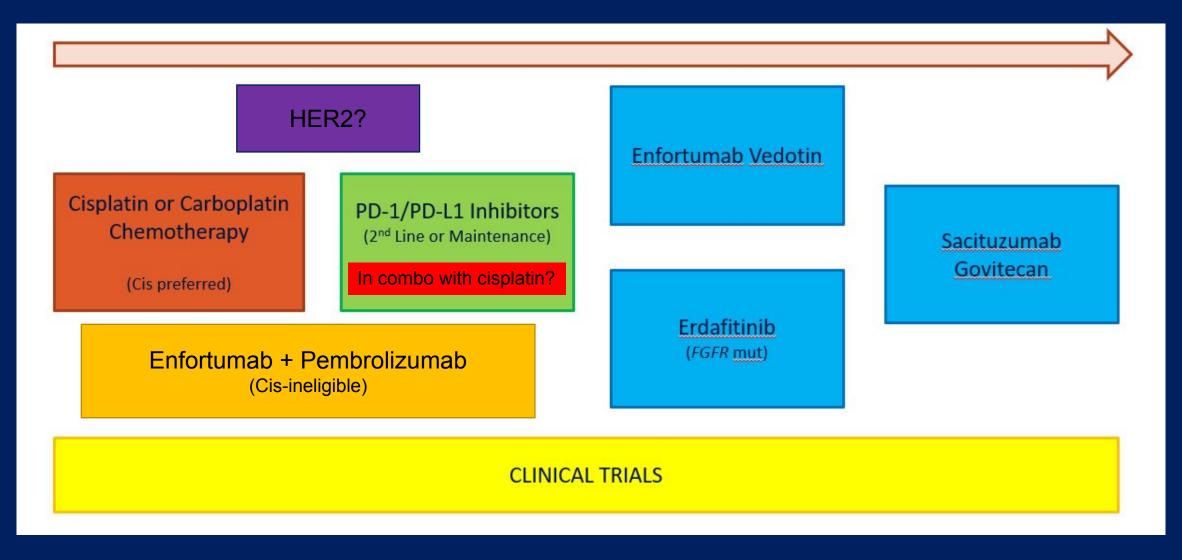


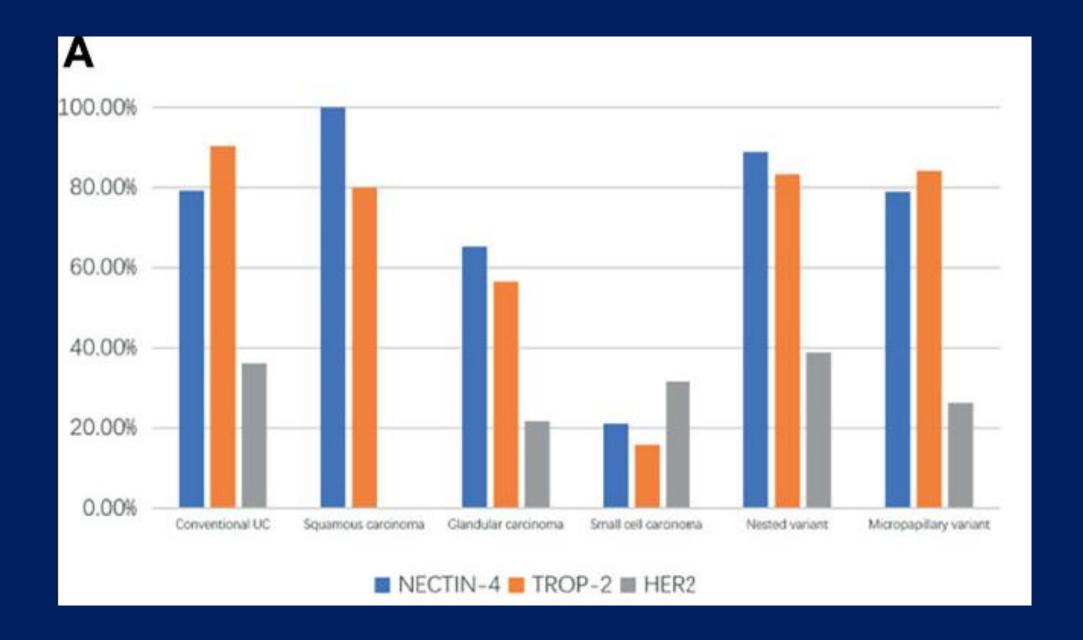






Metastatic Urothelial Carcinoma



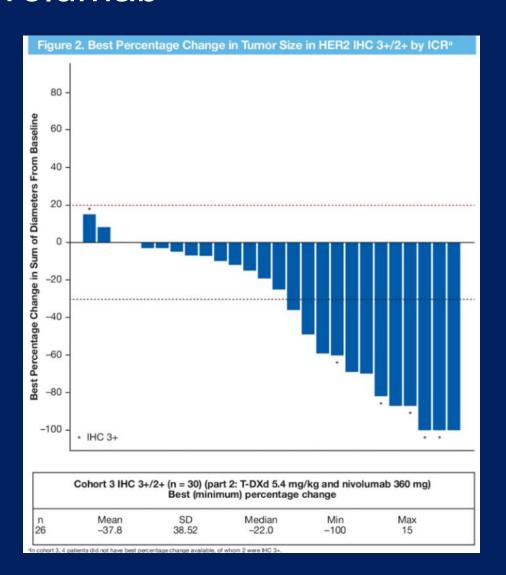


HER2 Failures

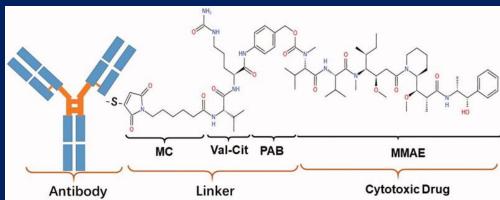
- Trastuzumab + Carboplatin, Paclitaxel, Gemcitabine
 - 22.7% suffered cardiac toxicity, 2 deaths
- Platinum/Gemcitabine ± Trastuzumab: No PFS difference (10.2 vs 8.2 m)
- Lapatanib: 3% PR as single-agent
- Lapatanib as maintenance post-chemo (Phase III). No PFS or OS benefit
- Afatanib: 21.7% had a 3 month PFS
- TDM1 basket study without much efficacy in urothelial cancer
- Tucatanib + Trastuzumab basket study ongoing

Trastuzumab Deruxtecan + Nivolumab

- Cohort 3, UC HER2 IHC 2/3+ (n=30)
- ORR 36.7%
 - CR 13.3%
 - PR 23.3%
 - SD 40%
- mPFS 6.9m
- mOS 11 m
- No previous IO
- Most common TEAEs: Nausea (73.5%), Fatgiue (52.9%), Vomitting (44.1%).
 - ILD/Pneumonitis in 23.5%. 1 G5.



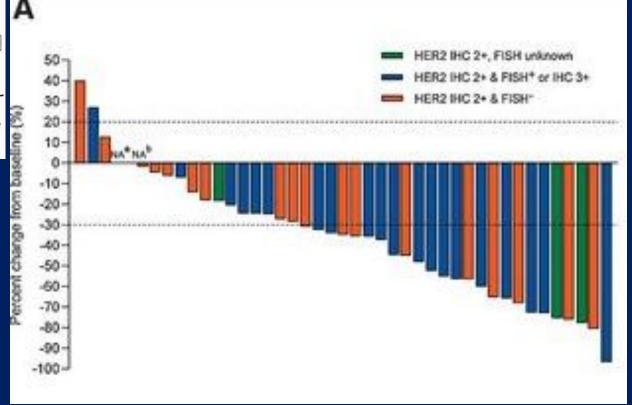
Disitamab vedotin



- mPFS 6.9 months
- mOS 13.9 moths

43 Patients

- CR 0%
- PR 51%
- SD 40%



Duration of Response 6.9 m

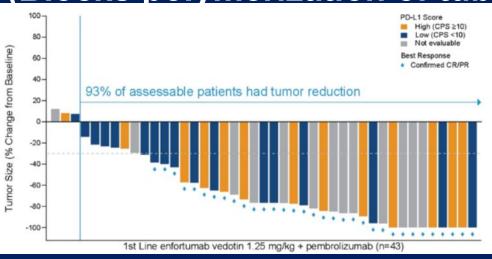
Disitamab vedotin + Torpalimab

- Phase 1b/II Trial of 41 patients
- 61% had NOT received prior systemic therapy
- 54% HAD visceral metastases; 24% had liver mets
- HER2 IHC 2/3+ in 59%; PD-L1 CPS ≥10 in 32%

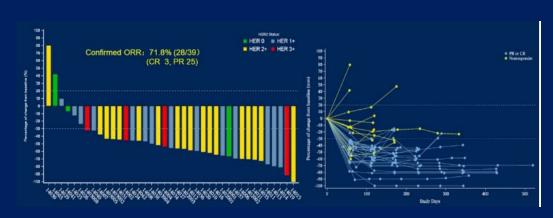


ASCO 2023: ORR 73.2%, CR 9.8%

MMAE Payload (Blocks polymerization of tubulin)

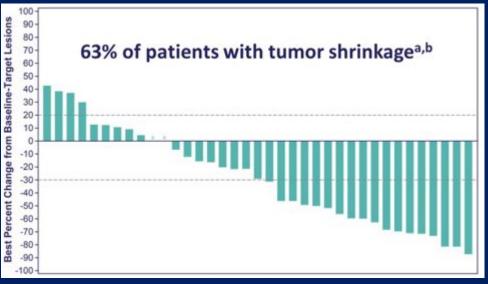


EV + PD1: OR 73%

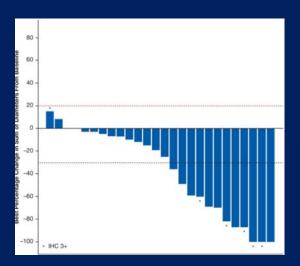


DV + PD1: OR 73%

SN-38 Payload (Topo-1 inh)



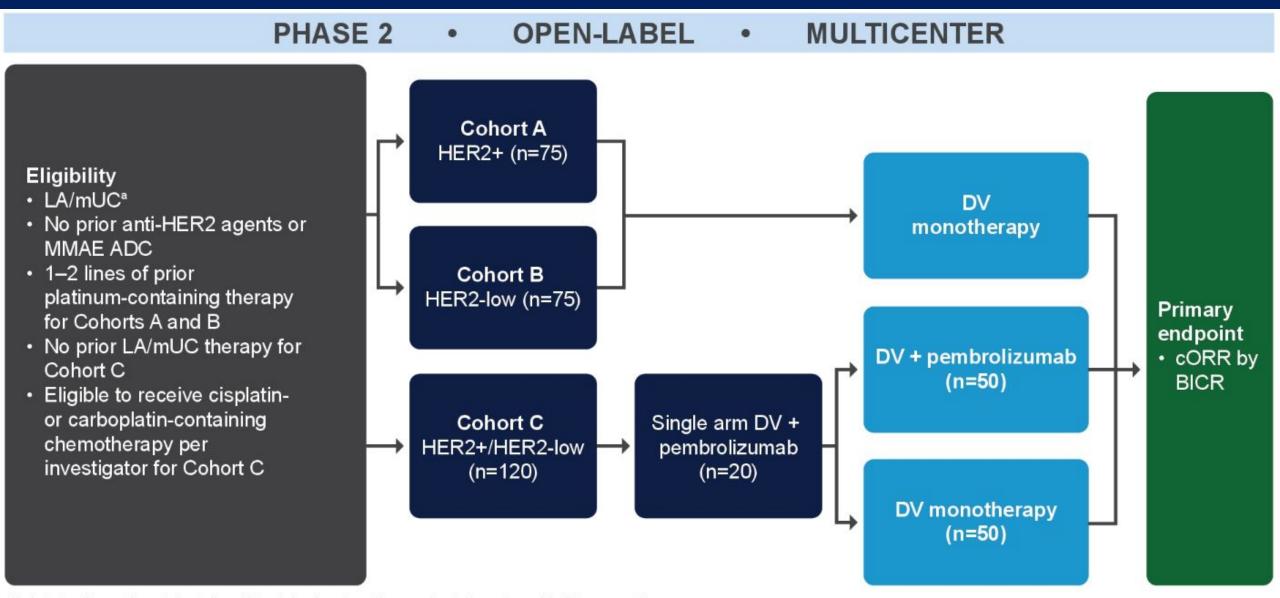
SG + PD1: OR 34%



T-Dxd + PD1: OR 37%

Grivas et al. GU ASCO 2022. Petrylak et al. ASCO Annual Meeting 2019. Galsky et al. GU ASCO 2022.

Phase 2: DV +/- Pembrolizumab



*Histologically-confirmed, including UC originating from the renal pelvis, ureters, bladder, or urethra.

Thank you!

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Thank you to Molly Altman, Therapeutic Development at SCRI