Bladder Cancer Update

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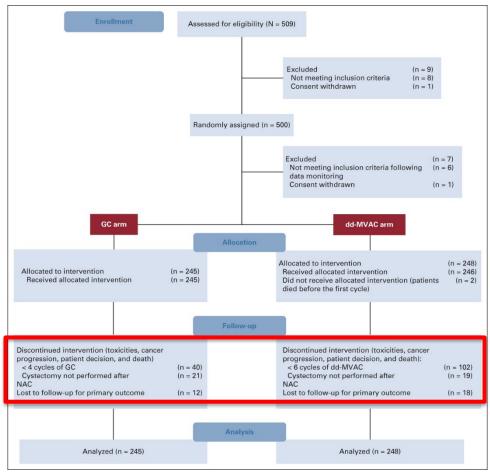
Sarah Cannon Research Institute at Tennessee Oncology



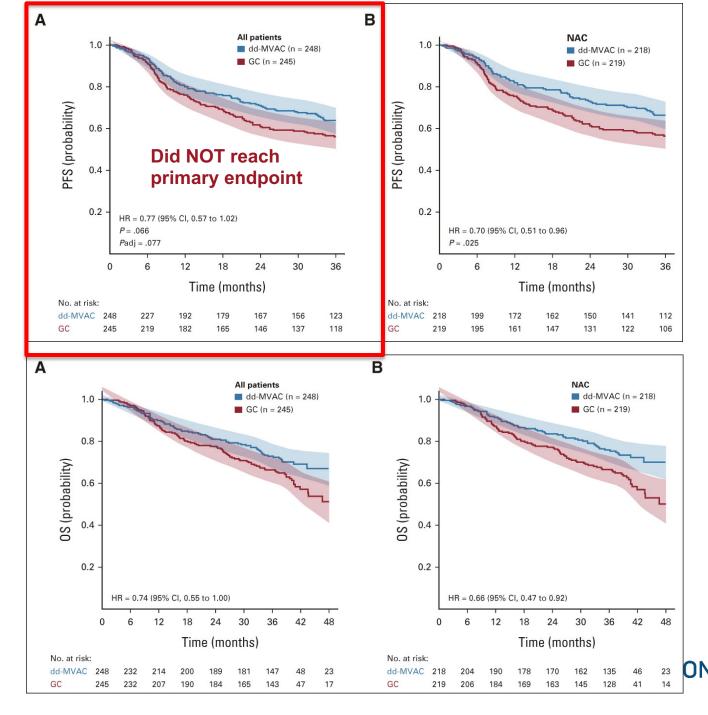
Perioperative Therapy



GETUG-AFU V05 VESPER Trial

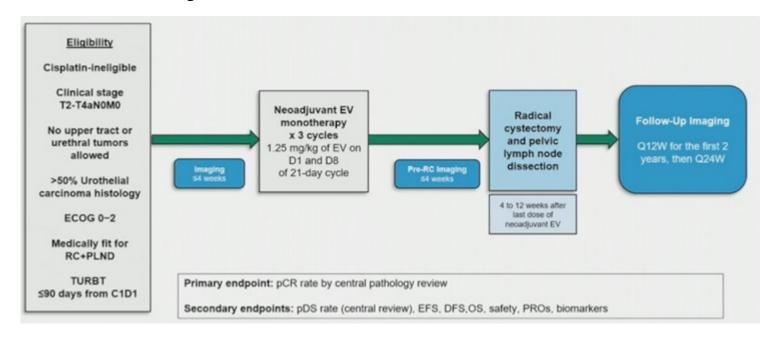


- 88% received NAC
 - 84% received GC x 4
 - 60% received ddMVAC x6
- Adjuvant Chemo
 - 81% received GC x 4
 - 40% received ddMVAC x6
 - 3 | Pfister C et al. JCO 2022.



Research Frontier:

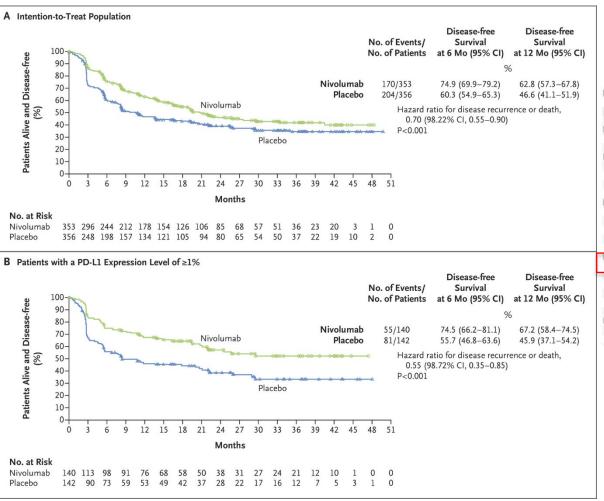
EV-103 Cohort H: Neoadjuvant Enfortumab Vedotin



- 22 patients treated (68.2% cT2, 68.2% pure urothelial histology)
- 36.4% pCR, 50% pathological downstaging
- No surgical delays
- Cohort L, added in adjuvant treatment as well (x6 cycles)



CheckMate 274 (Adjuvant Nivolumab)



| not reported | 14 | 1/3 | 2/2 | 5 | 1375 |
|---|-----|---------|----------|-------------|--------------------|
| nitial tumor origin | 500 | 120/270 | 255 (202 | | 0.63 (0.40, 0.70) |
| Urinary bladder | 560 | 129/279 | 166/281 | | 0.62 (0.49-0.78) |
| Renal pelvis | 96 | 24/44 | 25/52 | | 1.23 (0.67-2.23) |
| Ureter | 53 | 17/30 | 13/23 | | - 1.56 (0.70-3.48) |
| Minor histologic variants | | | | | |
| Yes | 286 | 70/145 | 76/141 | - | 0.73 (0.53-1.02) |
| No | 423 | 100/208 | 128/215 | | 0.69 (0.53-0.90) |
| Nodal status | | | | | |
| N+ | 335 | 95/167 | 116/168 | | 0.64 (0.48-0.85) |
| N0 or NX with <10 nodes removed | 193 | 46/94 | 50/99 | | 0.85 (0.57-1.28) |
| N0 with ≥10 nodes removed | 179 | 29/91 | 37/88 | - | 0.67 (0.41-1.10) |
| Not reported | 2 | 0/1 | 1/1 | | NA NA |
| Pathological tumor stage | | | | | |
| pT0-2 | 166 | 35/80 | 40/86 | | 0.88 (0.54-1.43) |
| pT3 | 410 | 97/206 | 120/204 | | 0.63 (0.48-0.82) |
| pT4a | 119 | 36/57 | 40/62 | | 0.77 (0.47-1.25) |
| Other | 12 | 1/9 | 3/3 | | NA |
| Not reported | 2 | 1/1 | 1/1 | | NA |
| Pathological tumor stage and nodal status | | -,- | -,- | | |
| pT2N- | 54 | 6/25 | 10/29 | | 0.54 (0.16-1.86) |
| p13.4N- | 317 | 68/158 | 78/159 | - | 0.75 (0.54-1.05) |
| pT0-4N1 | 143 | 39/71 | 45/72 | - | 0.74 (0.47-1.15) |
| pT0-4N2.3 | 192 | 56/96 | 71/96 | | 0.57 (0.40-0.83) |
| pTisN- | 1 | 0/1 | 0 | | NA |
| Not reported | 2 | 1/2 | 0 | - | NA |
| Previous neoadjuvant cisplatin therapy | | -/- | | | |
| Yes | 308 | 70/153 | 100/155 | | 0.52 (0.38-0.71) |
| No | 401 | 100/200 | 104/201 | | 0.92 (0.69-1.21) |



Metastatic Urothelial Carcinoma



Cisplatin or Carboplatin Chemotherapy

(Cis preferred)

PD-1/PD-L1 Inhibitors (2nd Line or Maintenance)

(1st: If Cis ineligible and PDL1+)

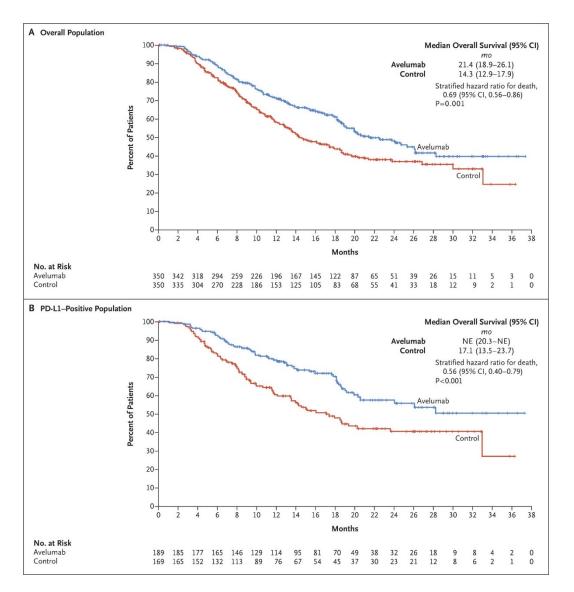
Enfortumab Vedotin

Erdafitinib (FGFR mut) Sacituzumab Govitecan

CLINICAL TRIALS



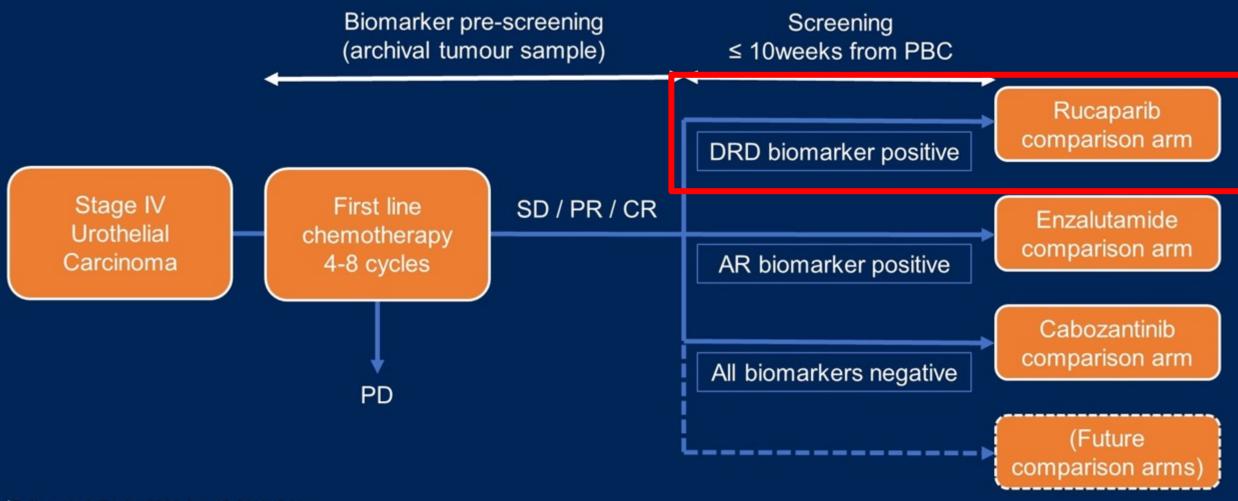
JAVELIN Bladder 100: Avelumab Maintenance



| | All pts | | Pts with PD-L1 | + tumors |
|--|-------------------------------------|--------------------------------|------------------------------------|---------------------------|
| | Avelumab + BSC (n = 350) | BSC alone (n = 350) | Avelumab + BSC (n = 189) | BSC alone (n = 169) |
| Median OS (95% CI), months | 23.8 (19.9-28.8) | 15.0 (13.5- 18.2) | 30.9 (24.0- 39.8) | 18.5 (14.1- 24.2) |
| HR for OS (95% CI); 2-sided p value | | 0.76 (0.631-0.915); p = 0.0036 | | 901); p = 4 |
| 30-month OS rate, % (95% CI) | 43.7 (38.2-49.0) | 33.5 (28.4- 38.7) | 51.3 (43.7- 58.4) | 38.5 (30.9- 46.1) |
| Restricted mean survival time (95% CI), months; 2- sided p value | 28.8 (26.6- 31.0); p = 0.0029 | 24.1 (21.9- 26.3) | 32.4 (29.4- 35.4) p = 0.0080 | 26.4 (23.2- 29.7) |
| Median PFS by investigator (95% CI), months | 5.5 (4.2-7.2) | 2.1 (1.9- 3.0) | 7.5 (5.5-11.1) | 2.8 (2.0- 3.7) |
| HR for PFS (95% CI); 2-sided p value | 0.54 (0.457-0.645); p < 0.0001 | | 0.46 (0.360-0.588); p 0.0001 | |
| 30-month PFS rate, % (95% CI) | 19.3 (15.0-24.0) | 6.3 (3.8- 9.5) | 25.1 (18.6- 32.2) | 6.7 (3.3- 11.6) |
| © 2022 by American Society of | Clinical Oncology | | | |



The ATLANTIS trial platform¹



¹Fulton et al, Trials. 2020 Apr 19;21(1):344

SD, stable disease; PR, partial response; CR, complete response; PD, progressive disease; DRD, DNA repair deficiency; AR, androgen receptor







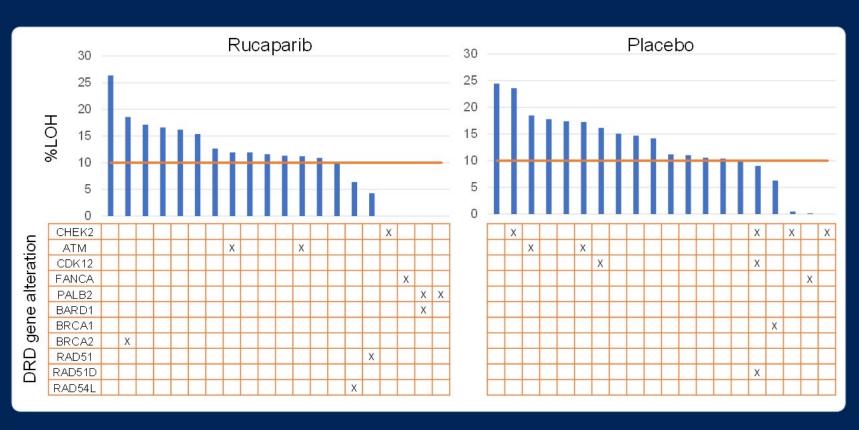
CONSORT and DRD biomarker



• ≥10% LOH: 22 / 40 (55%)

• DRD gene altered: 11 / 40 (27.5%)

• Both: 7 / 40 (17.5%)



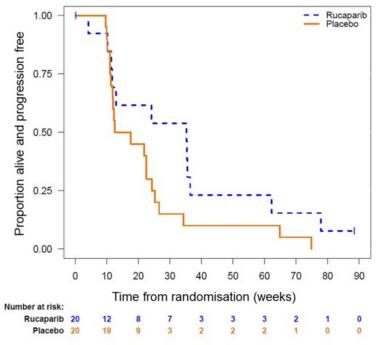
^{*31} patients were screened for ATLANTIS prior to the first site opening the rucaparib comparison arm. DRD, DNA repair deficiency; %LOH, percentage of genome-wide loss of heterozygosity



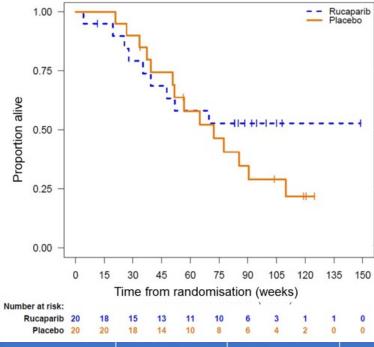




Progression Free Survival (PE) and Overall Survival (Secondary EP)



| | Rucaparib | Placebo | р |
|-------------------|----------------------------|----------------------------|------|
| PFS events | 12 (60%) | 20 (100%) | |
| Median PFS, weeks | 35.3 (80% CI 11.7-35.6) | 15.1 (80% CI 11.9-22.6) | |
| Hazard ratio | 0.53 (80% CI 0.30-0.92) | | 0.07 |

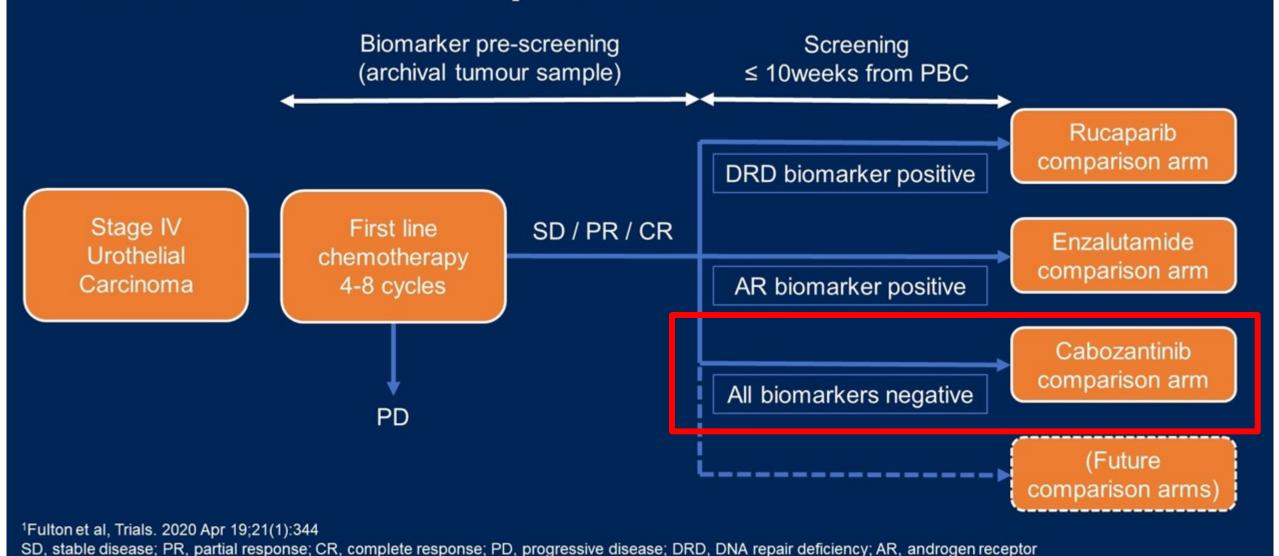


| | Rucaparib | Placebo | р |
|------------------|----------------------------|----------------------------|------|
| OS events | 9 (45%) | 14 (70%) | |
| Median OS, weeks | Not reached | 72.3 (80% CI 51.7-85.4) | |
| Hazard ratio | 1.22 (80% CI 0.62-2.38) | | 0.35 |





The ATLANTIS trial platform¹

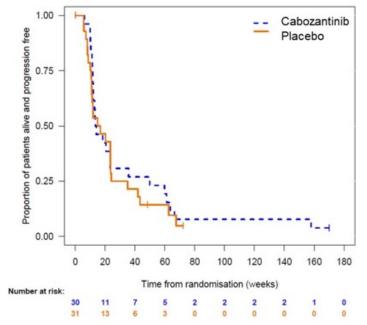




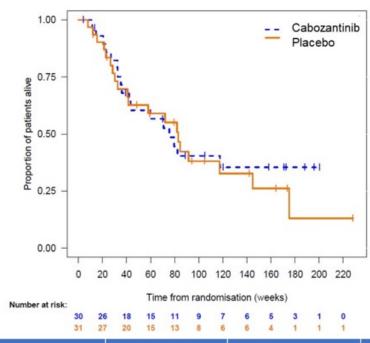




Progression Free Survival (PE) and Overall Survival (Secondary EP)



| | Cabozantinib | Placebo | р |
|-------------------|-----------------------------|-----------------------------|------|
| PFS events | 25 (83%) | 26 (84%) | |
| Median PFS, weeks | 13.7 (80% CI 12.1, 23.3) | 15.8 (80% CI 11.3, 23.6) | |
| Hazard ratio* | 0.89 (80% CI 0.61, 1.30) | | 0.35 |



| | Cabozantinib | Placebo | р |
|------------------|------------------------------|------------------------------|------|
| OS events | 17 (57%) | 20 (65%) | |
| Median OS, weeks | 75.5 (80% CI 43.4, 117.6) | 82.9 (80% CI 58.0, 117.1) | |
| Hazard ratio* | 0.80 (80% CI 0.52, 1.30) | | 0.25 |





*adjusted for minimization factors

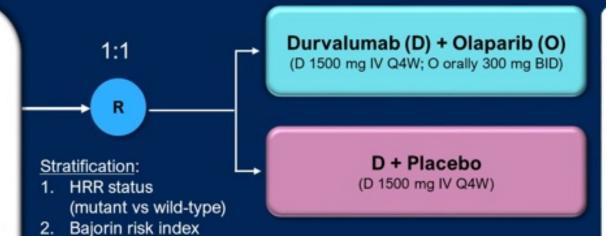


BAYOU: Phase 2 Study Design

Key Inclusion Criteria

- ≥18 years of age
- Unresectable, stage IV UC
- · TCC of bladder, renal pelvis, ureter, urethra
- Treatment-naïve
- Ineligible for platinum-based chemotherapy, defined as: unfit for carboplatin-based chemotherapy (per investigator), and meeting one of the following:
 - CrCl <60 mL/min
 - CTCAE Grade ≥2 audiometric hearing loss/peripheral neuropathy
 - NYHA Class III heart failure
 - ECOG 2
- ECOG PS 0-2

 $N = \sim 150$



NCT03459846

Data cutoff: October 15, 2020 Median follow-up:

- D+O, 9.8 months (range, 0.0 to 29.0)
- D+Placebo, 10.7 months (range, 1.0 to 29.0)

Primary Endpoint:

 PFS by RECIST v1.1 (investigator assessed)

Secondary Endpoints:

- PFS by RECIST v1.1 (HRR mutation subgroup)
- OS
- DoR, ORR, PFS6 by RECIST v1.1 (ITT and HRR mutation subgroup)

Other Endpoints:

Safety and tolerability

CTCAE, Common Terminology Criteria for Adverse Events; DoR, duration of response; ECOG, Eastern Cooperative Oncology Group performance status; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; PFS6, PFS at 6 months; Q4W, every 4 weeks; R, randomized; RECIST, Response Evaluation Criteria In Solid Tumors; TCC, transitional cell carcinoma.





PRESENTED BY: Jonathan E. Rosenberg, MD

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BAYOU: Select Baseline Characteristics in (IIT Population)

| | D+O (n = 78) | D+Placebo (n = 76) |
|-----------------------------|-----------------|-----------------------|
| Bajorin risk factors, n (%) | | |
| 0 | 16 (21) | 18 (24) |
| | 38 (49) | 36 (47) |
| 2 | 24 (31) | 22 (29) |
| Previous therapy, n (%) | 9 (11.5) | 8 (10.5) |
| HRR status, n (%) | | |
| Mutant | 17 (22) | 14 (18) |
| Wild-type | 61 (78) | 62 (82) |
| PD-L1 status,* n (%) | | |
| High expression | 34 (44) | 32 (42) |
| Low expression | 27 (35) | 22 (29) |
| Missing | 17 (22) | 22 (29) |

ASCO Genitourinary Cancers Symposium

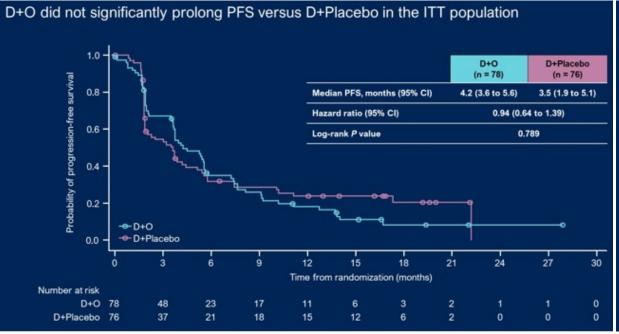


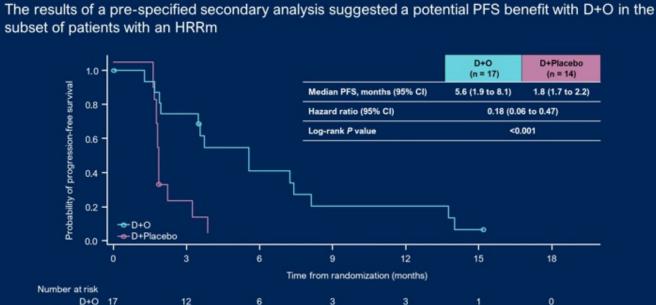
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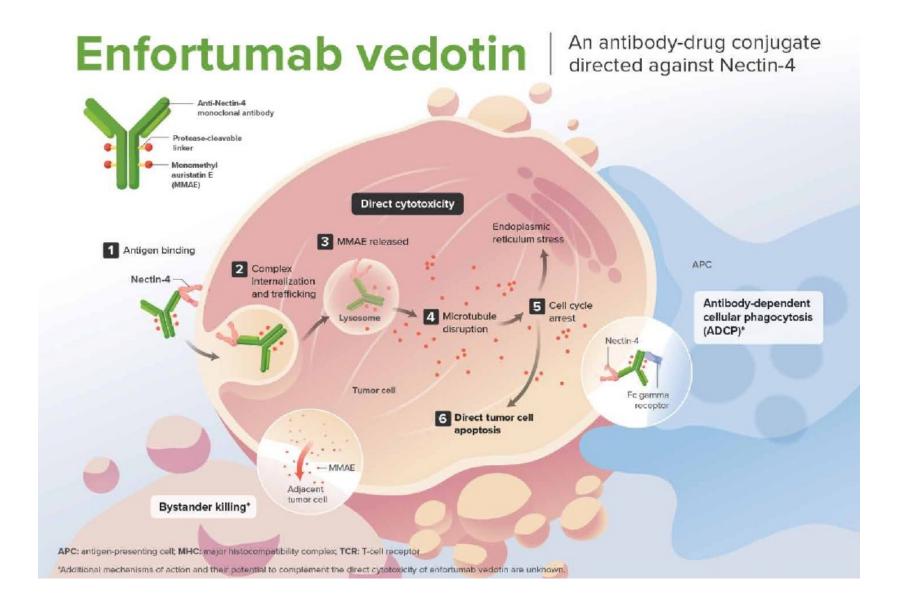
BAYOU: PFS





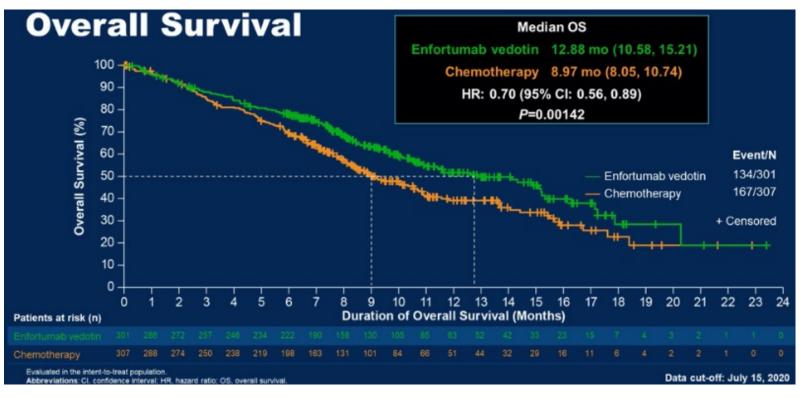


D+Placebo 14





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

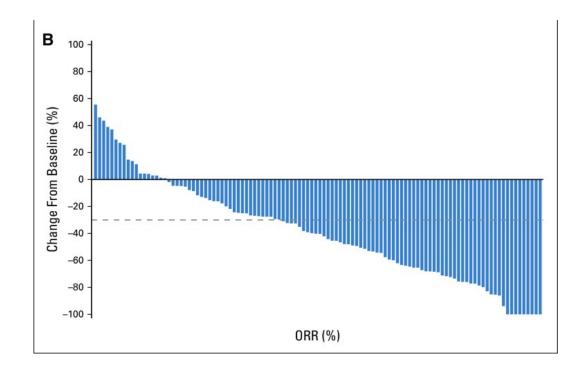


Update at 24 months – ASCO 2022:

- mOS: 12.9 vs 8.9 m (HR 0.70)
- mPFS: 5.6 vs 3.7 m (HR 0.63)
- No new safety signals



EV-201: Cohort 1: Enfortumab Vedotin Phase II Trial



- Patients treated with prior Chemo and IO
- 92 of 110 patients evaluable
- Target lesions reduced in 84%
- ORR 55%
 - 56% in IO responders
 - 41% in IO non-responders



Table 2. Treatment-Related Adverse Events (Safety Population).**

| Adverse Event | | Enfortumab Vedotin Group (N=296) | | Chemotherapy Group (N=291) | |
|--------------------------------|------------|-------------------------------------|----------------|-------------------------------|--|
| | Any Grade | Grade ≥3 | Any Grade | Grade ≥3 | |
| | | number of patie | ents (percent) | | |
| Any adverse event | 278 (93.9) | 152 (51.4) | 267 (91.8) | 145 (49.8) | |
| Alopecia | 134 (45.3) | 0 | 106 (36.4) | 0 | |
| Peripheral sensory neuropathy† | 100 (33.8) | 9 (3.0) | 62 (21.3) | 6 (2.1) | |
| Pruritus | 95 (32.1) | 4 (1.4) | 13 (4.5) | 0 | |
| 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 | |
| Nausea | 67 (22.6) | 3 (1.0) | 63 (21.6) | 4 (1.4) | |
| 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 | 30 (10.1) | 18 (6.1) | 49 (16.8) | 39 (13.4) | |
| 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) | |
| Febrile neutropenia | 2 (0.7) | 2 (0.7) | 16 (5.5) | 16 (5.5) | |
| | | | | | |



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

| | Enfortuma N=2 | 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 |

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Enfortumab Vedotin Skin Toxicity

Prevention^a

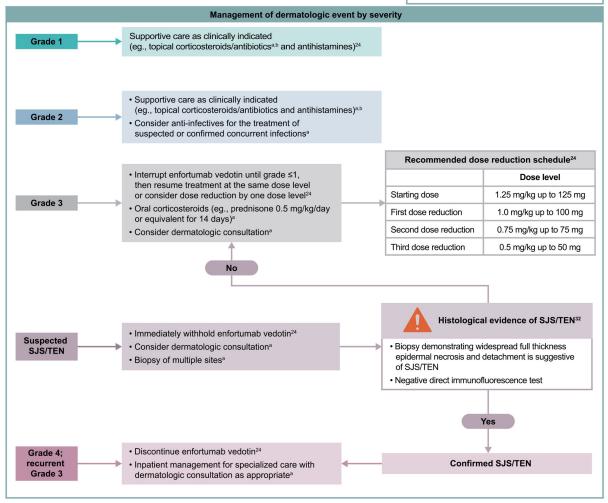
Barrier-protecting agents (eg., zinc-containing moisturizers), and sunscreen, regardless of the causative mechanism of the dermatologic event

Monitoring²⁴

- Routine skin assessments and follow-up starting with the first cycle of treatment
- · Patient/caretaker education on possible dermatologic events and the need for immediate notification of new or worsening dermatologic events and signs of severe cutaneous adverse events

Warning signs and symptoms of severe cutaneous adverse events, including SJS/TEN32

- Malaise
- Fever ≥100.4°F
- · Mucosal involvement
- · Ocular (conjunctivitis)
- Oral
- Genital
- · Dermatodynia (skin pain, burning, numbness, or tingling)

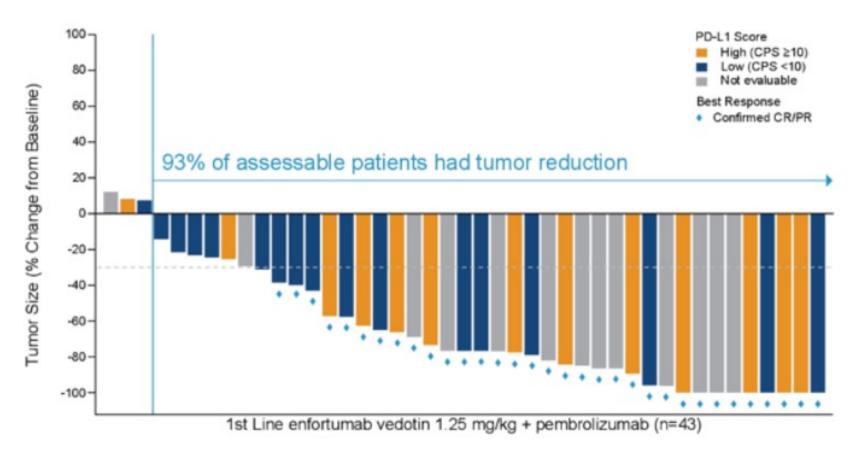




Expression of Nectin-4 and PD-L1 in bladder cancer with variant histology.

| | | | Nec | 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) |

EV-103: Cohort A: Enfortumab Vedotin + Pembrolizumab

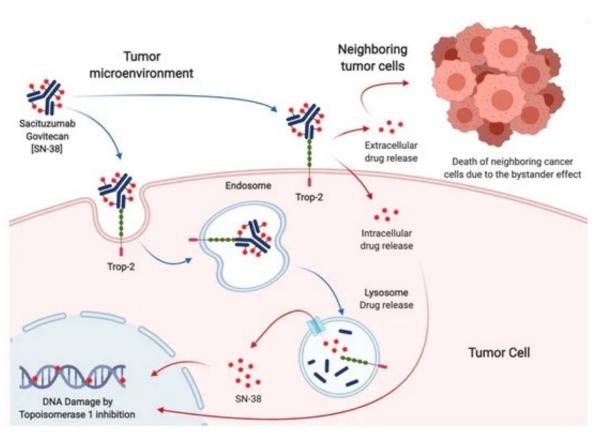


- 45 patients
- Front-line Cis-ineligible
- ORR 73.3%
- 17.8% CR
- mDOR: 25.6 months
- mPFS 12.3 months
- mOS 26.1 months

Phase 3 EV-302 is randomizing EV + P vs Gem + cis/carbo in front-line aUC



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



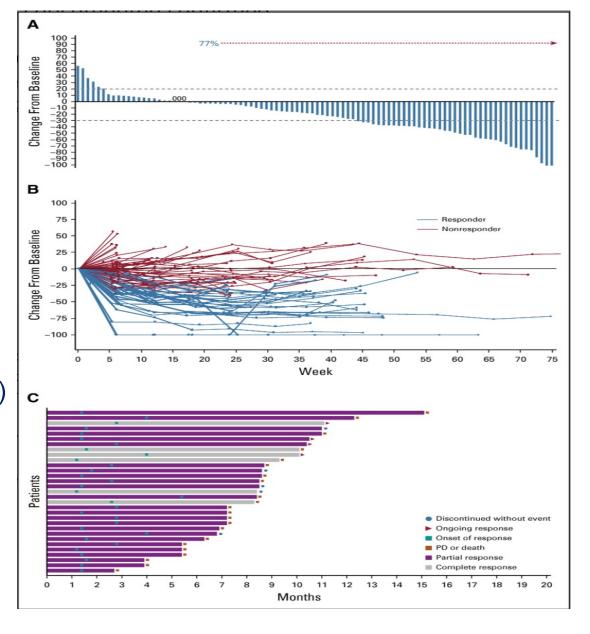
- SG is a novel ADC composed of Trop-2 antibody coupled to SN-38, the active metabolite of irinotecan
- SG was granted FDA –accelerated approval for patients with locally advanced or mUC who have previously received a platinum-chemotherapy and a CPI.
- In the mUC cohort (N=45) of IMMU-132-01 with a median of 2 prior therapies, SG showed an ORR of 29% and median DOR of 12.9 months.²
- In the Phase 2 registrational TROPHY-U-01 study, SG monotherapy resulted in 27% ORR and a median DOR of 7.2 months in heavily pretreated patients with mUC (N-113; cohort 1).

- 1. Pavone, G. et al. Molecules. 2021.
- 2. Bardia, A. et al. Ann Oncol. 2021.
- 3. Tagawa, ST. et al. J Clin Oncol. 2021.



TROPHY-U-01 Cohort 1 Prior Platinum and IO

- 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



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TROPHY-U-01 Cohort 1

TABLE 3. Most Common TRAEs of Any Grade (Observed in \geq 20% of Patients) or TRAEs 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 |

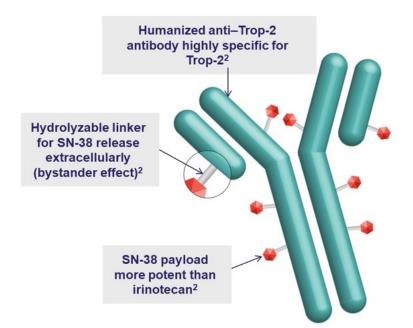
Abbreviation: TRAEs, treatment-related adverse events.

^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.



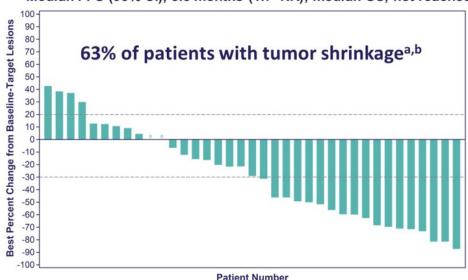
Early Results of TROPHY-U-01 Cohort 3: SG in combo with Pembro in pts with mUC who progressed after PLT-based

regimens



Overall Response and Best % Change From Baseline in Tumor Size

- Median follow-up: 5.8 months (data cutoff date: 2021-09-24)
- Median time to response: 2 months (1.3–2.8; n=14)
- Median DOR not yet reached: N/A (2.80-N/A)
- Median PFS (95% CI), 5.5 months (1.7–NR); median OS, not reached



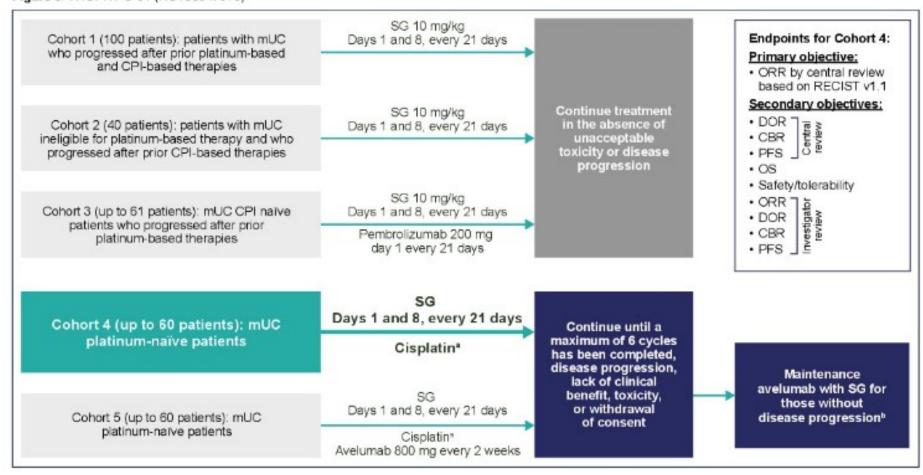
| | Cohort 3 ^a (N=41) |
|--|---------------------------------|
| Objective response rate (CR + PR), n (%) [95%CI] | 14 (34) [20.1-50.6] |
| Objective response rate (CR + PR), evaluable patients, n (%) | 14 (38) |
| Best overall response, n (%) | |
| CR | 1 (2) |
| PR | 13 (32) |
| SD | 11 (27) |
| SD ≥ 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.

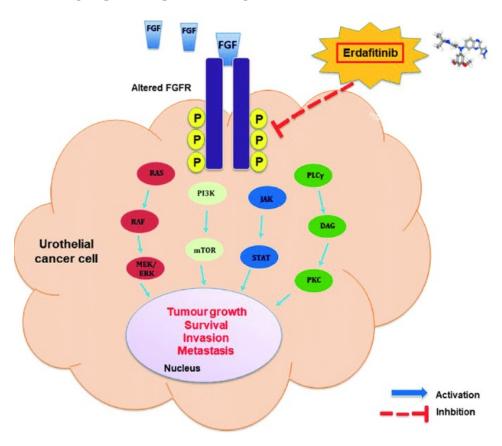


TROPHY-U-01

Figure 3. TROPHY-U-01 (NCT03547973)







 FDA approved for patients with susceptible FGFR3 or FGFR2 alterations that have progressed following platinum

| haracteristic | Value |
|--|---------|
| ge — yr | |
| Median | 68 |
| Range | 36-87 |
| COG performance-status score — no. (%)† | |
| 0 | 50 (51) |
| 1 | 42 (42) |
| 2 | 7 (7) |
| reatment history — no. (%) | |
| Progression or relapse after chemotherapy | 87 (88) |
| No previous chemotherapy | 12 (12) |
| Progression or relapse after immunotherapy | 22 (22) |
| No. of previous treatments — no. (%) | |
| 0 | 11 (11) |
| 1 | 45 (45) |
| ≥2 | 43 (43) |
| isceral metastasis — no. (%) | |
| Present;: | 78 (79) |
| Absent | 21 (21) |
| reatinine clearance rate — no. (%) | |
| <60 ml/min | 52 (53) |
| ≥60 ml/min | 47 (47) |

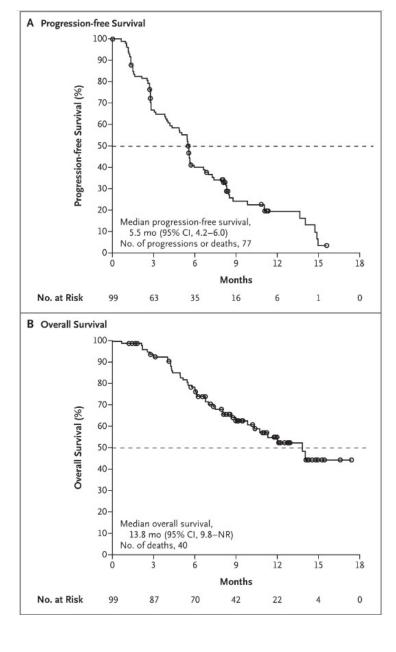


Update 2022: Siefker-Radtke et al, The Lancet Oncology

- ORR 40% (40/101)
- No new safety signals

| Variable | Value | Rate of Response (95% CI) |
|--|---------------|---------------------------|
| | | percent |
| Response per investigator assessment — no. of patients† | | |
| Any objective response | 40 | 40 (31-50) |
| Complete response | 3 | 3 |
| Partial response | 37 | 37 |
| Stable disease | 39 | 39 |
| Progressive disease | 18 | 18 |
| Could not be evaluated or unknown | 2 | 2 |
| Median time to response — mo | 1.4 | |
| Median duration of response (95% CI) — mo | 5.6 (4.2-7.2) | |
| esponse according to daily dose of erdafitinib — no./total no. | | |
| 8 mg | 20/58 | 34 (22-47) |
| 8 mg with dose escalation to 9 mg | 20/41 | 49 (34-64) |
| esponse according to genetic alteration — no./total no. | | |
| FGFR3 mutation | 36/74 | 49 (37-60) |
| FGFR2/3 fusion | 4/25 | 16 (2-30) |



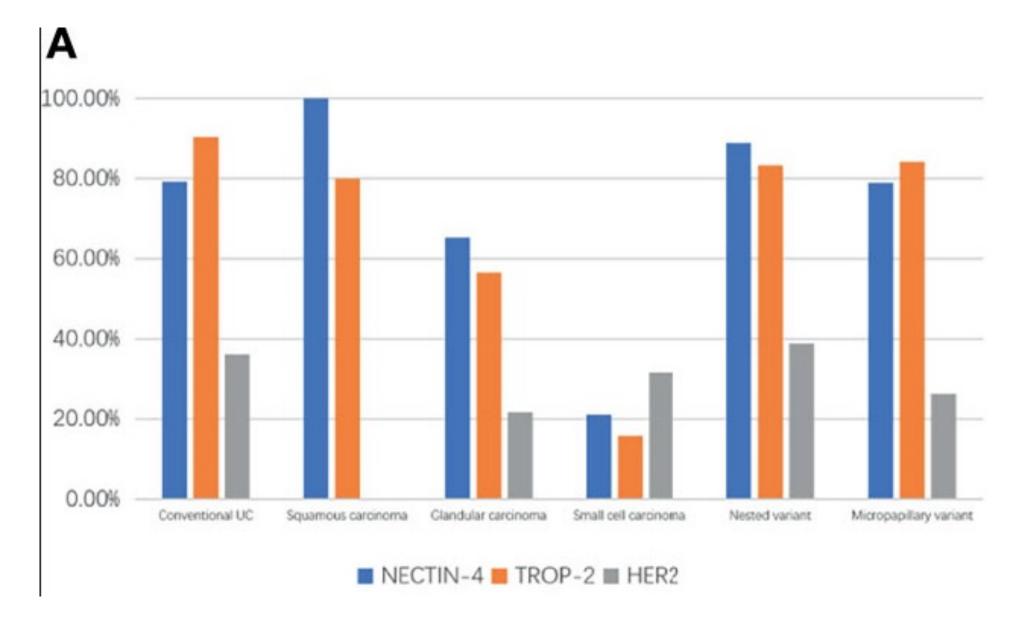




| Adverse Event | Any Grade | Grade 1 | Grade 2 | Grade ≥3 | |
|---|-----------|------------------------------|---------|----------|--|
| | | number of patients (percent) | | | |
| Hyperphosphatemia | 76 (77) | 53 (54) | 21 (21) | 2 (2) | |
| Stomatitis | 57 (58) | 21 (21) | 26 (26) | 10 (10) | |
| Diarrhea | 50 (51) | 31 (31) | 15 (15) | 4 (4) | |
| Dry mouth | 45 (46) | 34 (34) | 11 (11) | 0 | |
| Decreased appetite | 38 (38) | 18 (18) | 20 (20) | 0 | |
| Dysgeusia | 37 (37) | 23 (23) | 13 (13) | 1 (1) | |
| Fatigue | 32 (32) | 12 (12) | 18 (18) | 2 (2) | |
| Dry skin | 32 (32) | 24 (24) | 8 (8) | 0 | |
| Alopecia | 29 (29) | 23 (23) | 6 (6) | 0 | |
| Constipation | 28 (28) | 19 (19) | 8 (8) | 1 (1) | |
| Hand-foot syndrome | 23 (23) | 6 (6) | 12 (12) | 5 (5) | |
| Anemia | 20 (20) | 9 (9) | 7 (7) | 4 (4) | |
| Asthenia | 20 (20) | 2 (2) | 11 (11) | 7 (7) | |
| Nausea | 20 (20) | 13 (13) | 6 (6) | 1 (1) | |
| Dry eye | 19 (19) | 14 (14) | 4 (4) | 1(1) | |
| Onycholysis | 18 (18) | 6 (6) | 10 (10) | 2 (2) | |
| Alanine aminotransferase in- creased | 17 (17) | 13 (13) | 2 (2) | 2 (2) | |
| Paronychia | 17 (17) | 3 (3) | 11 (11) | 3 (3) | |
| Blurred vision | 17 (17) | 10 (10) | 7 (7) | 0 | |
| Nail dystrophy | 16 (16) | 5 (5) | 5 (5) | 6 (6) | |
| Urinary tract infection | 16 (16) | 0 | 11 (11) | 5 (5) | |
| Vomiting | 13 (13) | 10 (10) | 1 (1) | 2 (2) | |
| Hyponatremia | 12 (12) | 1 (1) | 0 | 11 (11) | |



Research Frontiers: HER 2 Targeting





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

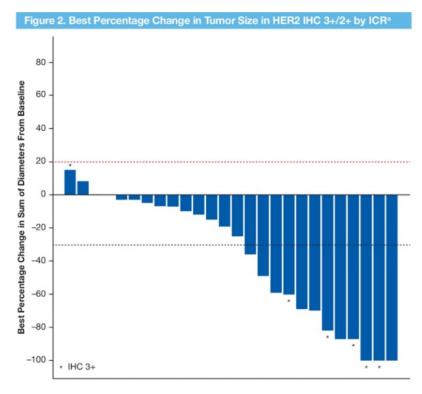


Hussain MH et al. JCO 2007.

Hyman DM et al. Cancer Res. 2017

Trastuzumab Deruxtecan + Nivolumab (DS8201-a-U105)

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



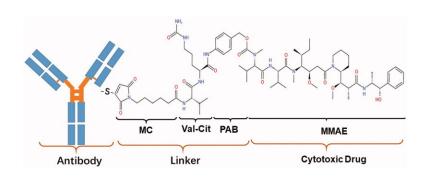
| Cohort 3 IHC 3+/2+ (n = 30) (part 2: T-DXd 5.4 mg/kg and nivolumab 360 mg) Best (minimum) percentage change | | | | | |
|--|-------|-------|--------|------|-----|
| n | Mean | SD | Median | Min | Max |
| 26 | -37.8 | 38.52 | -22.0 | -100 | 15 |

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Disitamab vedotin (RC-48)

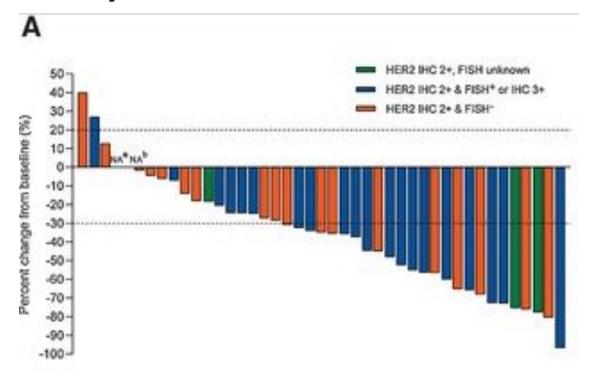


- mPFS 6.9 months
- mOS 13.9 moths

43 Patients

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

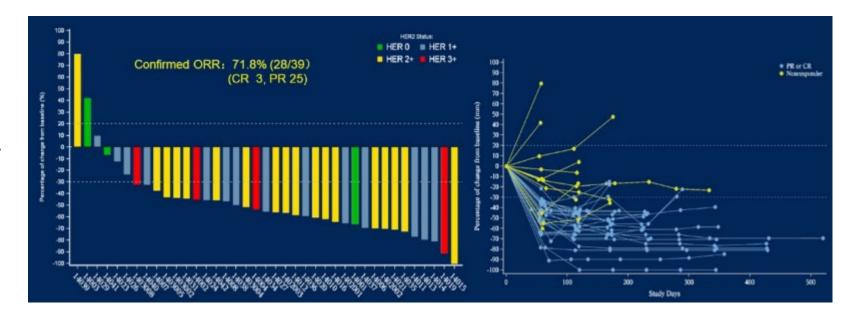
Duration of Response 6.9 m





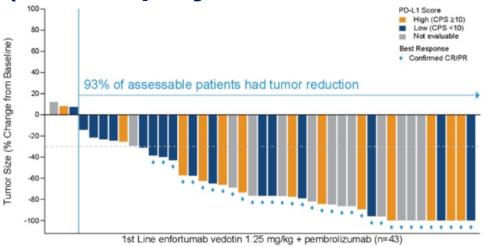
Disitamab vedotin (RC-48) + Toripalimab (anti-PD1)

- 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%

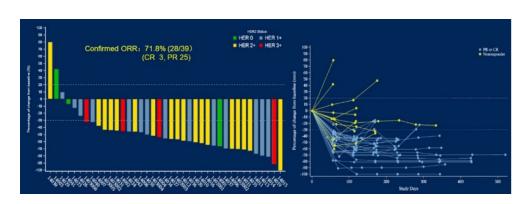




MMAE Payload (Blocks polymerization of tubulin)

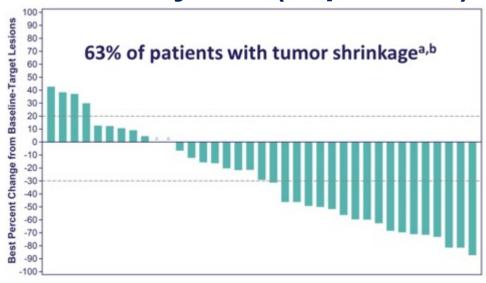


EV + PD1: OR 73%

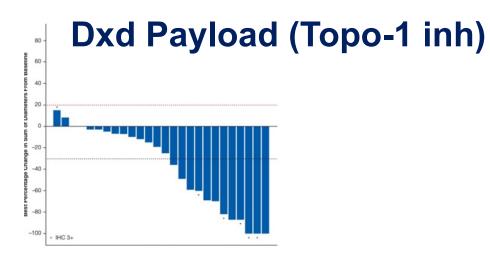


RC-48 + PD1: OR 72%

SN-38 Payload (Topo-1 inh)



SG + PD1: OR 34%



T-Dxd + PD1: OR 37%

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Research Frontiers: TKI + IO

Cosmic-021 Cohort 2: Cabozantinib + Atezolizumab in patients previously treated with platinum

Cabozantinib 40 mg QD PO +
Atezolizumab 1200 mg Q3W IV
(N = 30)

Single-arm Phase 1b

Patients with locally advanced or metastatic UC with transitional cell histology, radiographic evidence of progression on/after platinum-containing CT, and no prior ICIs or cabozantinib (N = 30)



COSMIC-021 Cohort 2 Expansion: Efficacy

| Tumor Response per Investigator by RECIST v1.1 | UC Cohort 2 (N=30) |
|---|-----------------------|
| Objective response rate (80% CI), % | 27 (16–40) |
| Best overall response, n (%) | |
| Complete response | 2 (6.7) |
| Partial response | 6 (20) |
| Stable disease | 11 (37) |
| Progressive disease | 7 (23) |
| Missing | 4 (13) |
| Disease control rate, n (%) | 19 (63) |
| Duration of objective response, median (range), months | NR (1.4+-15.6+) |
| Time to objective response, median (range), months | 3.0 (1-6) |
| Disease control rate = complete response + partial response + stable disease; NR, not rea | ached |

- Median PFS: 5.4 mos (95% CI: 1.5-7.6)
- 27% with response
- Reduction in target lesion size observed in 16 (53%) patients
- No association between PD-L1 expression and tumor response based on preliminary data



COSMIC-021 Cohorts 3, 4, 5

| | C3 (cisplatin ineligible) | C4 (cisplatin eligible) | C5 (received prior ICI) |
|--------------------------------------|---------------------------|----------------------------|-------------------------|
| | (N = 30) | (N = 30) | (N = 31) |
| ORR, % (95% CI) | 20 (8, 39) | 30 (15, 49) | 10 (2, 26) |
| Best overall response, n (%) | | | |
| Complete response (CR) | 1 (3) | 2 (7) | 0 |
| Partial response (PR) | 5 (17) | 7 (23) | 3 (10) |
| Stable disease (SD) | 18 (60) | 10 (33) | 16 (52) |
| Progressive disease | 3 (10) | 7 (23) | 8 (26) |
| Disease control rate, % (95% CI)* | 80 (61, 92) | 63 (44, 80) | 61 (42, 78) |
| Median DOR, mo (95% CI) | 7.1 (2.8, NE) | NE (7.2, NE) | 4.1 (2.6, NE) |
| Median PFS, mo (95% CI) | 5.6 (3.1, 11.1) | 7.8 (1.6, 13.8) | 3.0 (1.8, 5.5) |
| Median OS, mo (95% CI) | 14.3 (8.6, NE) | 13.5 (7.8, 23.2) | 8.2 (5.5, 9.8) |
| | | | |



Thank You!

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