

Management of Advance Bladder Cancer

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Case

65 years gentleman, HTN

TCC Bladder, also involving ureter cT3N1 disease

Post NACT with Gem Cis 3 cycles -> Robotic Nephroureterectomy + Bladder cuff excision and in 12.4.17

Nodal and Liver Recurrence in 2021

Questions for Discussion

- ➤ Which criteria's do we consider for platinum ineligibility? What percentage of patient getting systemic therapy will be platinum eligible (cisplatin or carboplatin)?
- ➤ What % of above population will be cisplatin eligible & cisplatin ineligible but carboplatin eligible?

PBCT eligibility

There are no defined criteria to determine platinum ineligibility, but PS and renal impairment may determine the treatment decision

Patients meeting one of the following five criteria are deemed platinum-ineligible:*1



ECOG PS >3



Cr Cl <30 mL/min



Peripheral neuropathy >3



NYHA Heart Failure Class >III



ECOG PS 2 and Cr Cl <30 mL/min

Carboplatin can be used in patients where Cr Cl <60 mL/min²

 However, lower response rates and increased toxicity have been observed in patients that were both unfit and had renal impairment³

*Based on a survey of 56 genitourinary medical oncologists. Cr Cl, creatinine clearance; ECOG, European Cooperative Oncology Group; NYHA, New York Heart Association; PBCT, platinum-based chemotherapy; PS, performance score.

The Current Standard Has Not Changed in about a Decade – Chemotherapy combinations still dominant

Regimen	Response Rate (%)	Median Survival (months)
Gemcitabine, Cisplatin	49%	13.8 mos
MVAC (methotrexate, vinblastine, doxorubicin, cisplatin)	39–65%	12.5–14.8 mos
CMV (cisplatin, methotrexate, vinblastine)	36%	7 mos
Carboplatin, Paclitaxel	21–65%	8.5–9.5 mos
Cisplatin, Paclitaxel	50%	10.6 mos
Cisplatin, Docetaxel	50–60%	8.0–13.6 mos
Cisplatin, Gemcitabine, Paclitaxel	78%	15.8 mos
Gemcitabine, Paclitaxel	54–60%	14.4 mos

Treatment outcomes with CT for metastatic disease have limited durability and high levels of toxicity

Cisplatin-eligible^{1–4}

1 st -line therapy	HD- MVAC ¹	Gemcitabine + cisplatin
Median PFS, months	9.5	7.72
Median OS, months	15.1	14.02
ORR, %	64	49.4 ³

Hematologic toxicity is observed with both gemcitabine + cisplatin and HD-MVAC^{1,3}

Cisplatin-ineligible^{5–7}

2 nd -line therapy ^{4*}	Single-agent CT	Doublet CT
Median PFS, months	2.69	4.05
Median OS, months	6.98	8.50
ORR, %	14.2	31.9

1 st -line	M-	Gem + carbo	IO mond	otherapy
therapy	CAVI		Atezo	Pembro
Median PFS, months	4	6	2.7^{6}	2 ⁷
Median OS, months	8	9	15.9	NR
ORR, %	30	41	23	29

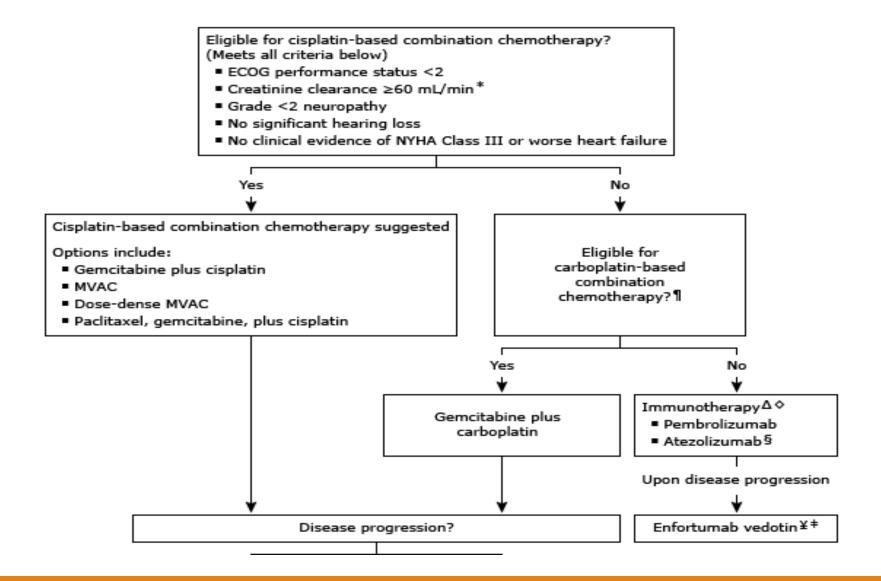
Note: The typical duration of treatment is 4–6 cycles of PBCT ranging from 3–6 months followed by BSC. *Single agents.

Atezo, atezolizumab, carbo, carboplatin; CT, chemotherapy; gem, gemcitabine; HD-MVAC, high-dose intensity methotrexate, vinblastine, doxorubicin, cisplatin; IO, immunotherapy; M-CAVI, methotrexate, carboplatin, and vinblastine; NR, not reported;

ORR, objective response rate; OS, overall survival; PBCT, platinum-based chemotherapy; pembro, pembrolizumab;

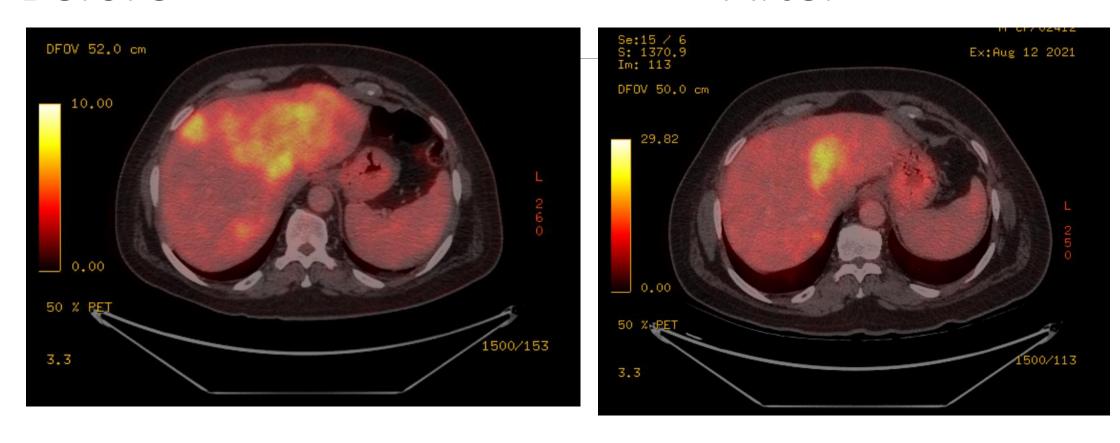
PFS, progression-free survival.

Treatment of metastatic urothelial carcinoma



Before

After



Before

DF0V 52.0 cm 10.00 0.00 50 % PET 1500/ 3.3

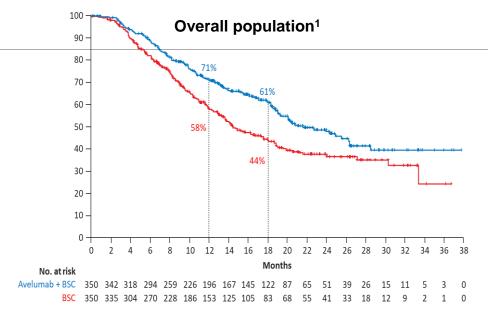
After

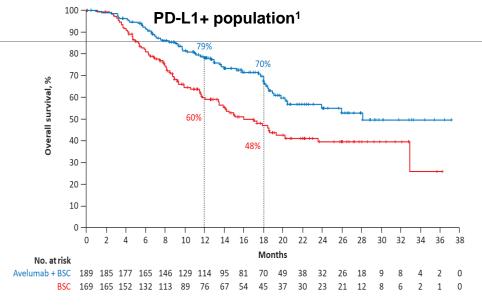


- ➤ Post how many cycles of chemotherapy we evaluate for response? And how many achieve CR, PR or SD?
- **→** How long the disease control usually last with 4-6 cycles of CT?
- ➤ Are we doing PD-L1 testing in 1st/ post progression of CT/2nd line?

JAVELIN Bladder 100: Avelumab Improves OS in the Overall Study & PD-L1 Population

Primary endpoints: OS in the overall and PD-L1+ populations





Median OS (overall population), months (95% CI) ¹		
Avelumab + BSC	21.4 (18.9–26.1)	
BSC alone	14.3 (12.9–17.9)	

Stratified hazard ratio for death, 0.69 (95% CI, 0.56–0.86) p<0.001

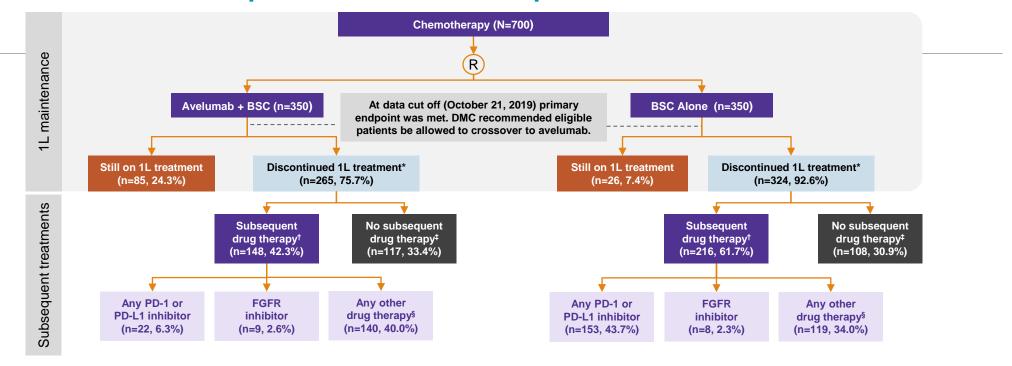
Median duration of treatment:1

- Avelumab + BSC: 24.9 weeks (range, 2.0–159.9)
- BSC: 13.1 weeks (0.1–155.6)

Median OS (PD-L1+ population), months (95% CI) ²		
Avelumab + BSC	NE (20.3-NE)	
BSC alone	17.1 (13.5–23.7)	
Stratified hazard ratio for death, 0.56 (95% CI, 0.40–0.79) p<0.001		

Avelumab trials: JAVELIN Bladder 100

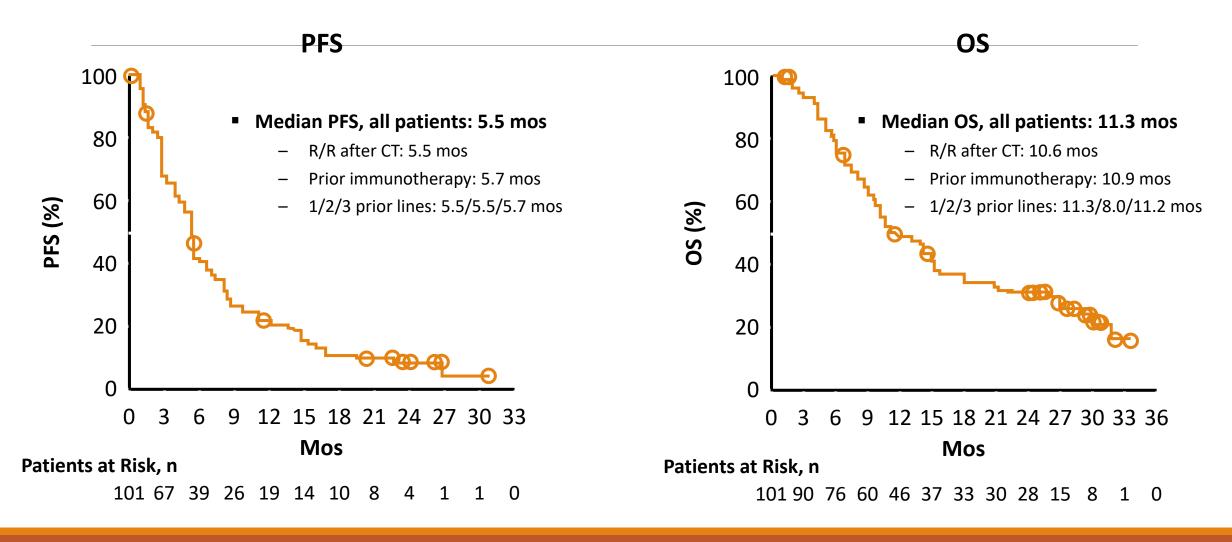
Subsequent anticancer therapies in all randomized patients^{1,2}



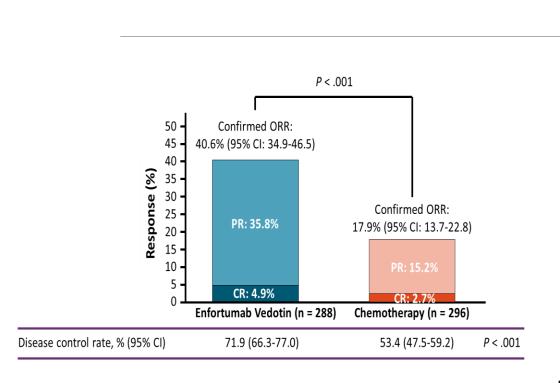
These data highlight the benefit of starting avelumab immediately after 1L CT instead of waiting for disease progression²

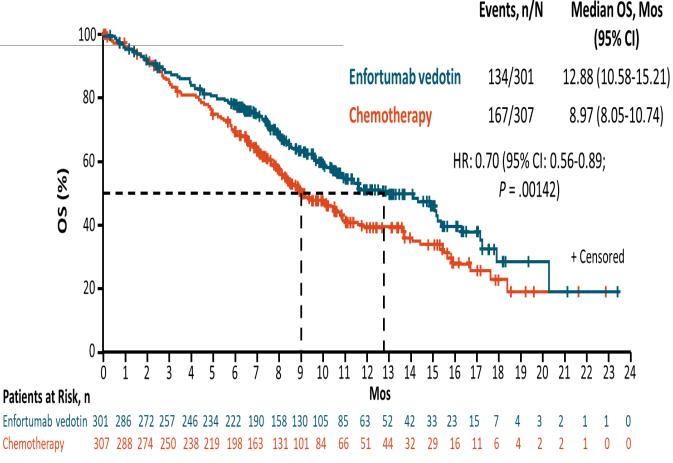
^{*}Patients discontinued treatment due to progressive disease (54%, avelumab arm; 75%, BSC), adverse events (11%, avelumab; 1%, BSC), consent withdrawal (5%, avelumab; 8%, BSC), death (1%, avelumab; 4%, BSC), physician decision (1%, avelumab; 2%, BSC), global health deterioration (1%, avelumab; 2%, BSC), or other reasons (2%, avelumab; 1%, BSC). Other reasons included no longer meeting eligibility criteria (1%, avelumab), lost to follow-up (0.6%, avelumab; 0.6%, BSC), non-compliance with study drug (0.3%, avelumab) and other (0.3%, avelumab; 0.3%, BSC); †Some patients received >1 category of subsequent therapy. All percentages were calculated using the denominator of all patients in the treatment arm within each population; ‡Some patients who did not receive subsequent drug therapy received anticancer radiotherapy and/or anticancer surgery (n=19, avelumab; n=12, BSC); §Other drug therapies included single agent or combination chemotherapies, TKI, antibody-drug conjugates, IDO1 inhibitors, PARP inhibitors, monoclonal antibodies, immune-stimulating vaccines or investigational agents.

Pivotal Phase II Erdafitinib Study: Updated PFS and OS



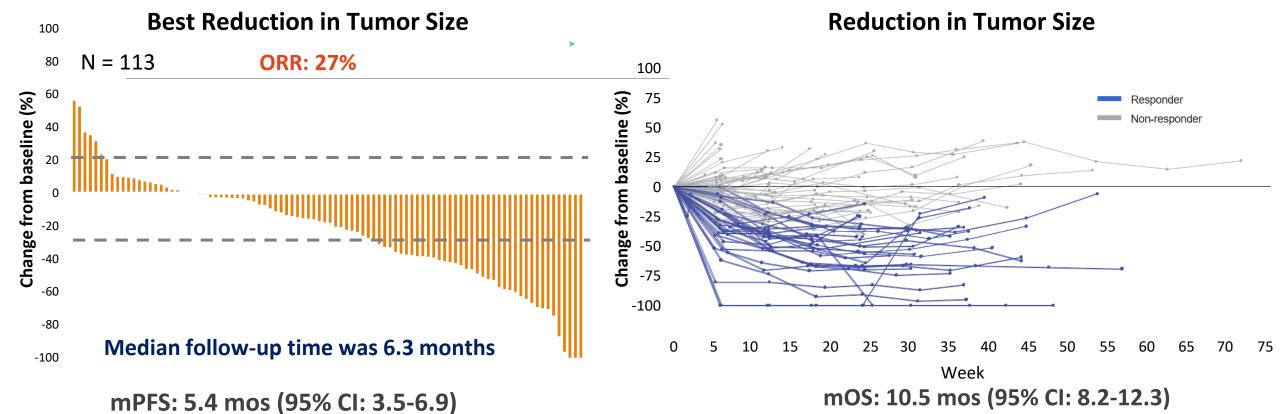
EV-301: Enfortumab Vedotin vs Chemotherapy in LA or Metastatic UC After Platinum and Anti-PD-(L)1 Therapy





- Interim analysis met primary endpoint: significantly improved OS with EV vs CT (P = .00142)
- OS favored EV across all subgroups except women (HR: 1.17; 95% CI: 0.72-1.89)

TROPHY-U-01 Cohort 1: Final Results With Sacituzumab Govitecan for mUC After Platinum-Based CT and IO



In April 2020, sacituzumab govitecan received fast track designation by the FDA for this indication

A phase III confirmatory trial in mUC, TROPiCS-04 is underway

Subsequent Line Therapies

