

Enfortumab Vedotin in Cisplatin-Ineligible Patients with Locally Advanced or Metastatic Urothelial Cancer who Received Prior PD-1/PD-L1 Inhibitors: An Updated Analysis of EV-201 Cohort 2

American Society of Clinical Oncology
Virtual Congress
June 4–8, 2021
Abstract No. 4524

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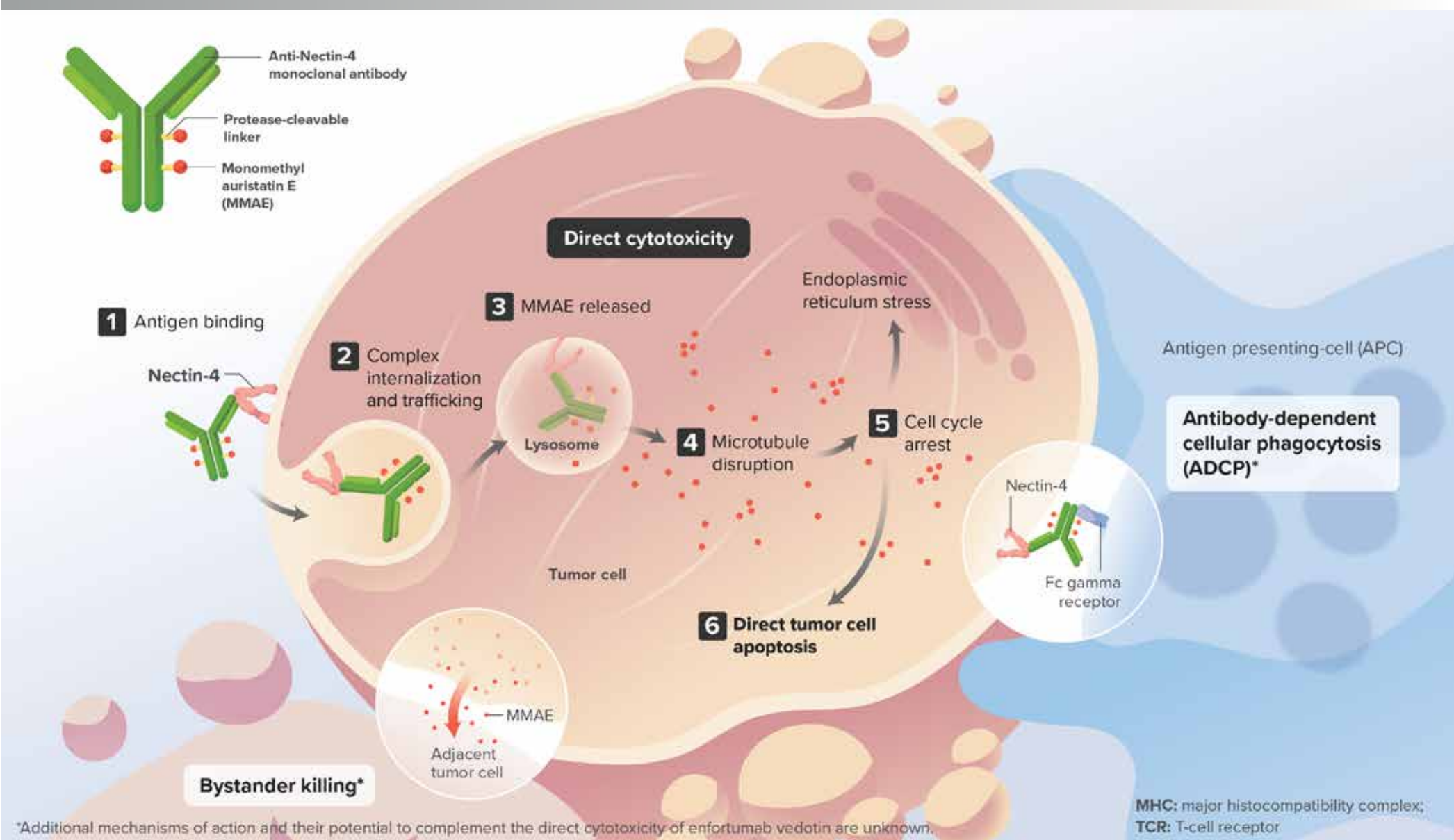
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Cisplatin-Ineligible Patients with Advanced Urothelial Carcinoma have Limited Treatment Options

- Cisplatin-based chemotherapy is the first-line standard of care for advanced urothelial carcinoma and is associated with an overall survival benefit¹
- Approximately half of patients with advanced urothelial carcinoma in the United States are cisplatin-ineligible²
- PD-1/PD-L1 inhibitors are approved in the first line for cisplatin-ineligible patients with advanced urothelial carcinoma whose tumors express PD-L1^{3,4}
 - Objective responses occur in ~20–30% of patients unselected for PD-L1 expression
- Enfortumab vedotin has demonstrated survival benefit in patients who have received both platinum-containing chemotherapy and a PD-1/PD-L1 inhibitor⁵
- Cisplatin-ineligible patients have a high unmet need for treatment options after first-line PD-1/PD-L1 inhibitors
 - To our knowledge EV-201 is the first trial to report results in this patient population⁶
 - Previously presented Primary Analysis results of EV-201 Cohort 2 included a 52% Overall Response Rate with a 20% Complete Response Rate, and a median Duration of Response of 10.9 months⁵
 - Here we present an updated analysis with an additional 3 months of follow-up

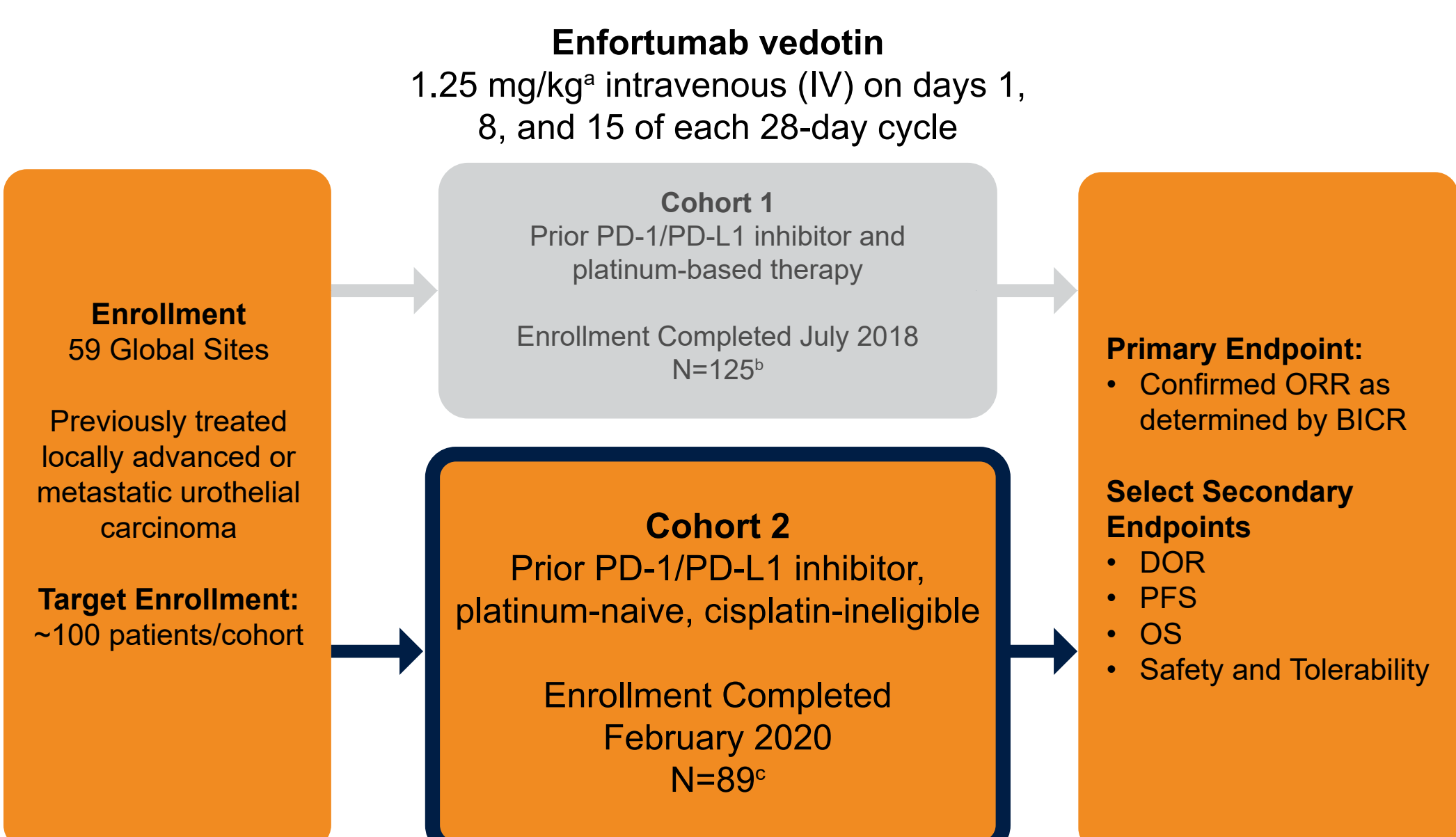
Primary Analysis Data Cutoff: 08 Sep 2020; 3 month updated Data Cutoff: 04 Dec 2020

Enfortumab Vedotin: Nectin-4 Directed Therapy Proposed Mechanism of Action



Enfortumab vedotin is an investigational agent in some settings, and its safety and efficacy have not been established
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EV-201: Non-Comparative, Pivotal Phase 2 Trial



a. Maximum dose permitted is 125 mg
b. 3 additional patients were enrolled but did not receive enfortumab vedotin due to patient decision, clinical deterioration, and low hemoglobin, respectively
c. 2 additional patients were enrolled but did not receive enfortumab vedotin due to admission to the hospital for disease progression and hospice care, respectively

Acknowledgments

Thank you to our patients and their families for their participation in the study, and to all research personnel for their support of this important trial.

References

- von der Maase H, et al. J Clin Oncol. 2005;23(21):4602-8.
- Galsky MD, et al. J Clin Oncol. 2011;29(17):2432-8.
- Vukj J, et al. J Clin Oncol. 2020;38(23):2658-66.
- Balar AV, et al. Lancet. 2017;389(10064):67-76.
- Powles T, et al. N Engl J Med. 2021;384(12):1125-35.
- Balar AV, et al. ASCO-GU 2021 Abstract 394.

Disclosures: This study was funded by Seagen Inc. and Astellas Pharma, Inc. BAM, AVB, JER, MSvdH, YL, AN, and DPP hold a consulting and advisory role with Seagen Inc. and Astellas Pharma, Inc. EYU holds a consulting and advisory role with Seagen Inc. BAM, JER, MSvdH, MRH, DPP received research funding from Seagen Inc. and Astellas Pharma, Inc. JLL received honoraria from Astellas Pharma, Inc. EIH received honoraria from Seagen Inc. YL and S-YL received travel/accommodations/expenses from Seagen Inc. and Astellas Pharma, Inc. MSvdH and JLS received travel/accommodations/expenses from Astellas Pharma, Inc. SHP and TK do not have any disclosures from Seagen Inc. or Astellas Pharma, Inc. S-YL and JT are employees of and have ownership interest in Seagen Inc. JLS is an employee of Astellas Pharma, Inc.

Key Eligibility Criteria

Key Inclusion Criteria

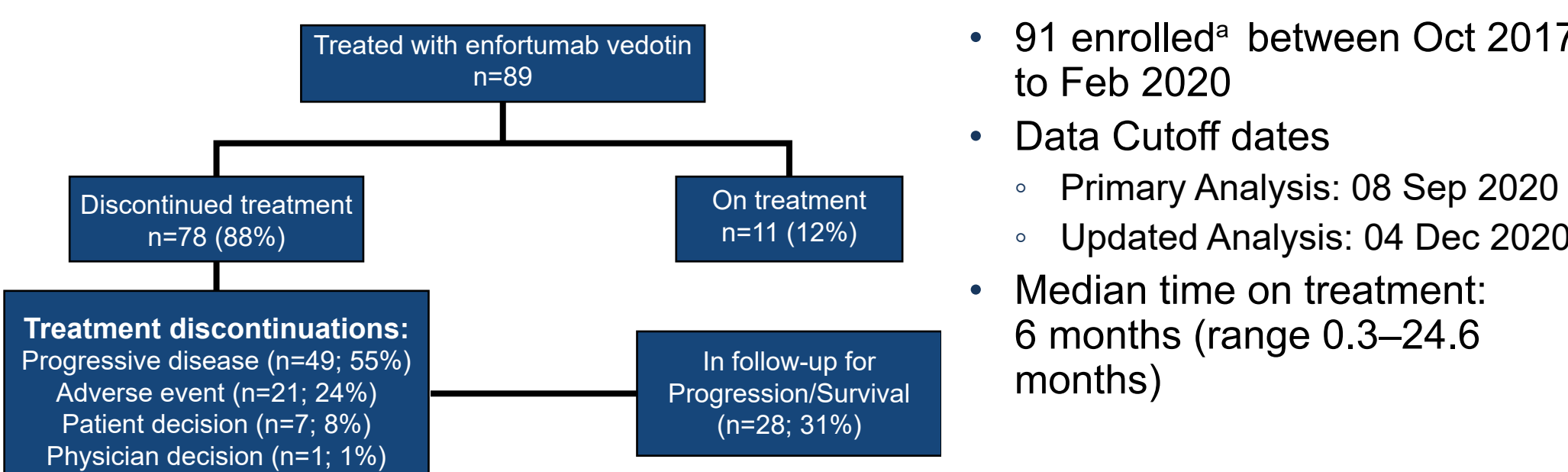
- Locally advanced unresectable or metastatic urothelial carcinoma (including divergent differentiation)
- Previously treated with a PD-1/PD-L1 inhibitor
- No prior exposure to platinum-containing chemotherapy in the locally advanced or metastatic setting and ineligible for cisplatin-containing chemotherapy due to:
 - Impaired renal function (creatinine clearance ≥ 30 and < 60 mL/min)
 - Hearing loss \geq Grade 2
 - ECOG PS score ≥ 2
- Progression during or following most recent treatment

Key Exclusion Criteria

- Ongoing sensory or motor neuropathy \geq Grade 2
- Active central nervous system metastases
- Uncontrolled diabetes mellitus^a

a. Hemoglobin A1c (HbA1c) $\geq 8\%$ or HbA1c of 7% to $< 8\%$ with associated diabetes symptoms, polyuria or polydipsia, that were not otherwise explained

Patient Disposition



a. 2 patients did not receive enfortumab vedotin treatment due to admission to the hospital for disease progression and pursuing hospice care, respectively

Key Demographics and Disease Characteristics

Characteristic	Patients (N=89)
Median age (range), years	75 (49, 90)
Male sex, n (%)	66 (74%)
ECOG performance status	
0 or 1, n (%)	78 (88%)
2, n (%)	11 (12%)
Body mass index ≥ 30 kg/m ² , n (%)	13 (15%)
Renal function based on creatinine clearance	
Normal/Mild decrease: ≥ 60 mL/min, n (%)	27 (30%)
Moderate decrease: ≥ 30 and < 60 mL/min, n (%)	60 (67%)
Severe decrease: ≥ 15 and < 30 mL/min, n (%)	2 (2%)
Primary tumor location	
Upper tract ^a , n (%)	38 (43%)
Bladder/other, n (%)	51 (57%)
Metastasis sites	
Lymph nodes only, n (%)	18 (20%)
Visceral disease ^b , n (%)	70 (79%)
Liver, n (%)	21 (24%)
Received prior PD-1/PD-L1 therapy in first line, n (%)	87 (98%)
Responder ^c to PD-1/PD-L1-containing therapy, n (%)	22 (25%)

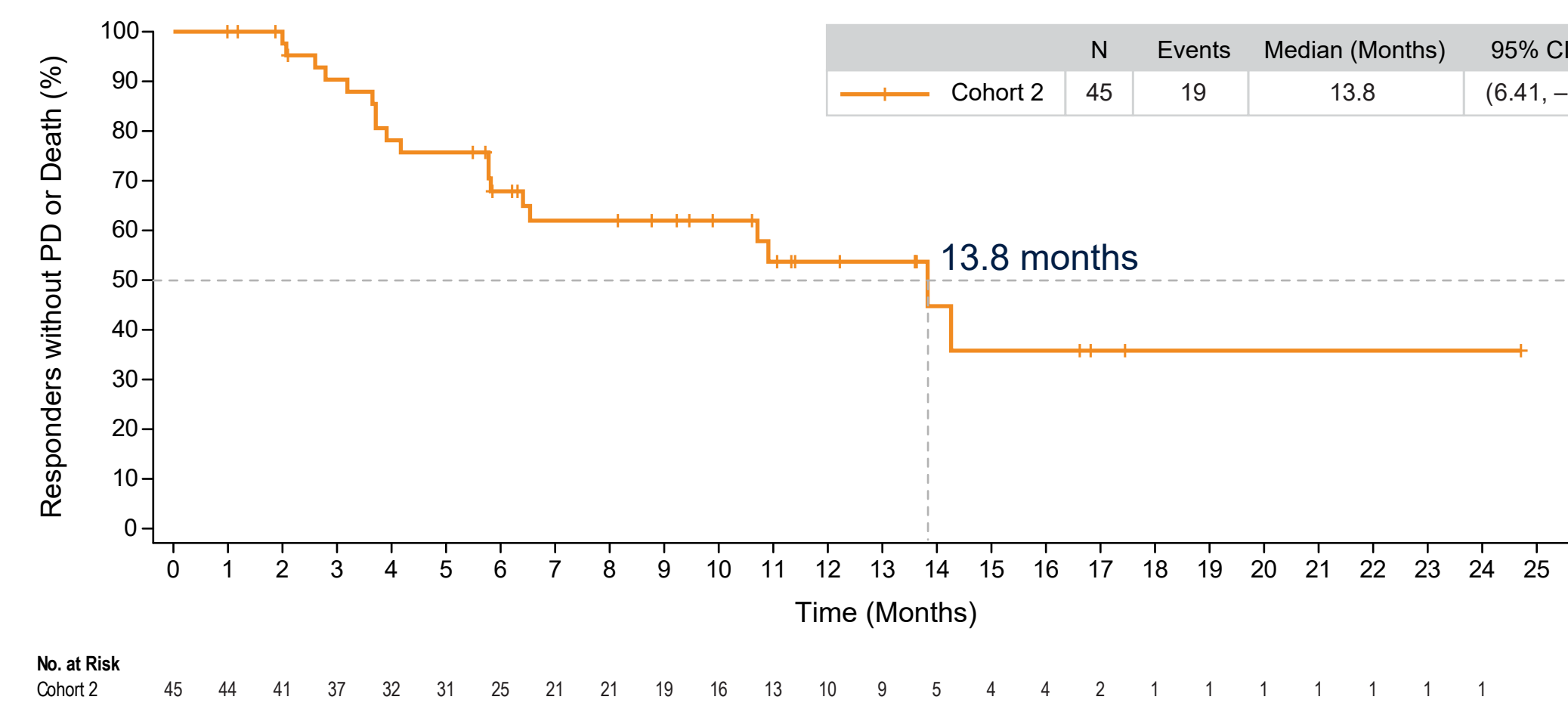
a. Includes renal pelvis and ureter
b. Sites of visceral disease include liver, lung, intra-thoracic or intra-abdominal soft tissue, kidney, spleen, ovary, adrenal glands, and bone
c. Responses were investigator reported

Updated Best Overall Response by BICR

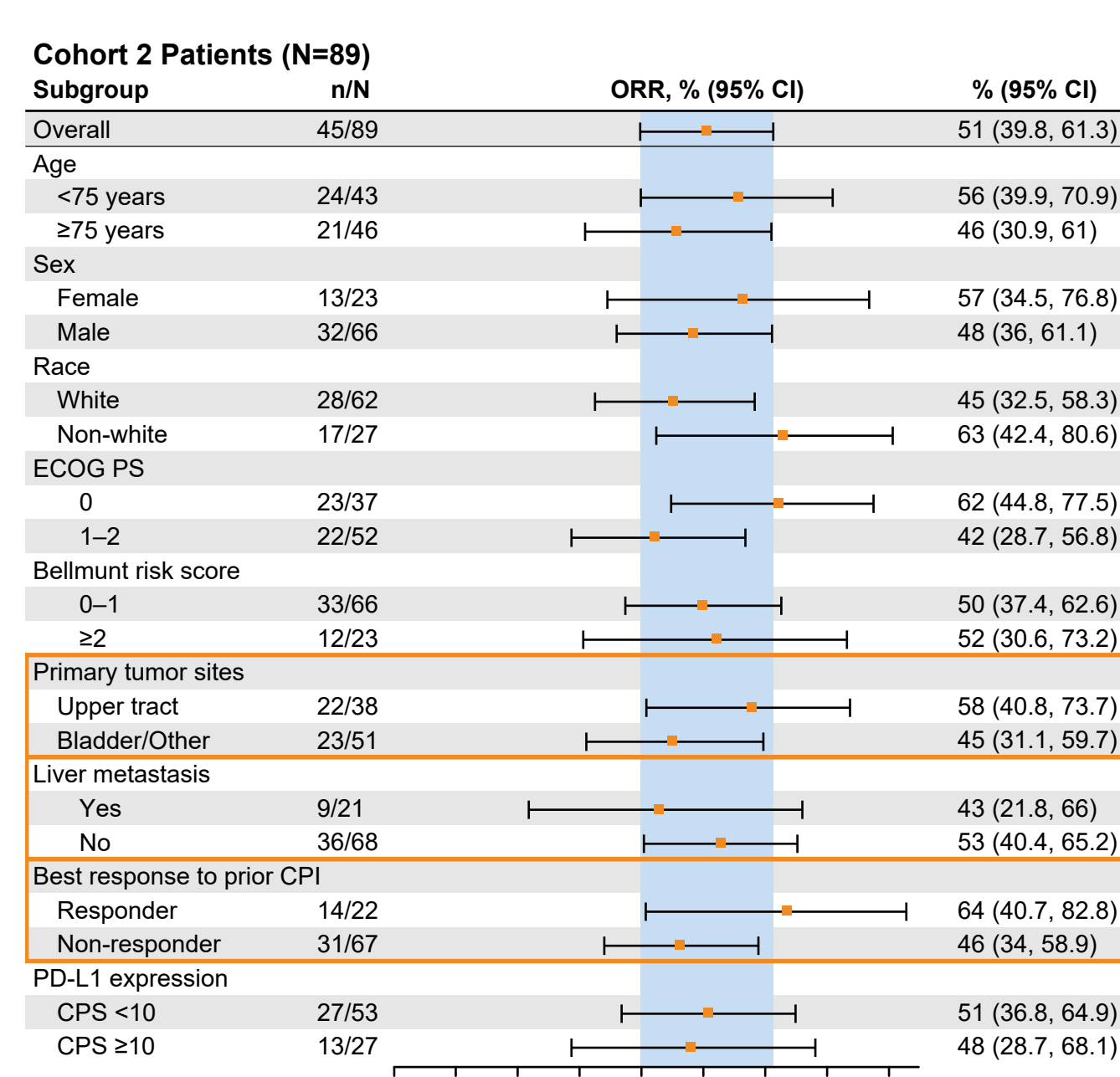
ORR per RECIST v 1.1 assessed by BICR	Patients (N=89), %
Confirmed ORR (95% CI) ^a	51 (39.8, 61.3)
Best overall response ^b	
Confirmed complete response	22
Confirmed partial response	28
Stable disease	30
Progressive disease	10
Not evaluable ^c	9

a. CI = Confidence Interval, computed using the Clopper-Pearson method
b. Best overall response according to RECIST v1.1. Complete response and partial response were confirmed with repeat scans ≥ 28 days after initial response
c. Includes 5 patients who did not have response assessment post-baseline, 2 patients whose post-baseline assessment did not meet the minimum interval requirement for stable disease, and 1 patient whose response cannot be assessed due to incomplete anatomy

Updated Duration of Response per BICR

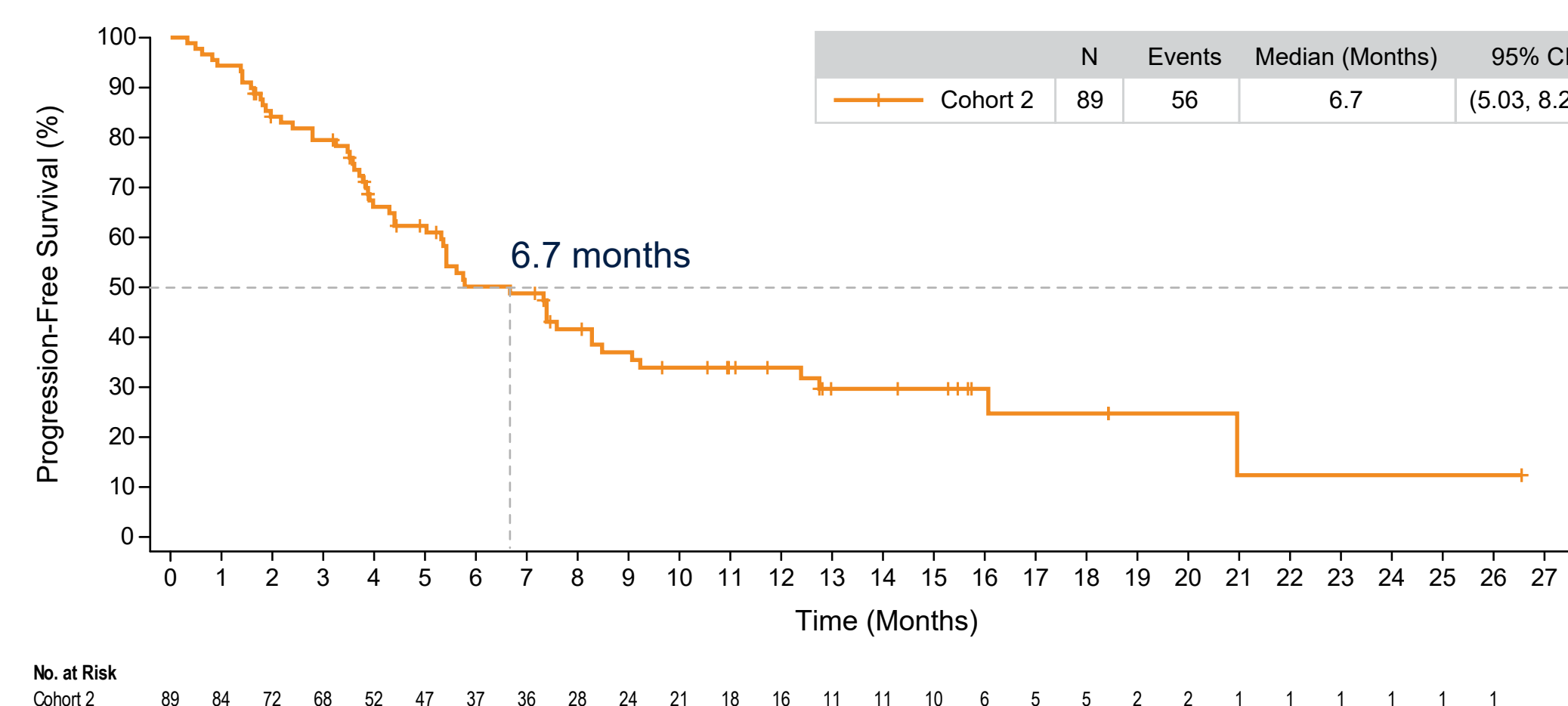


Updated Objective Response Rate per BICR by Subgroup

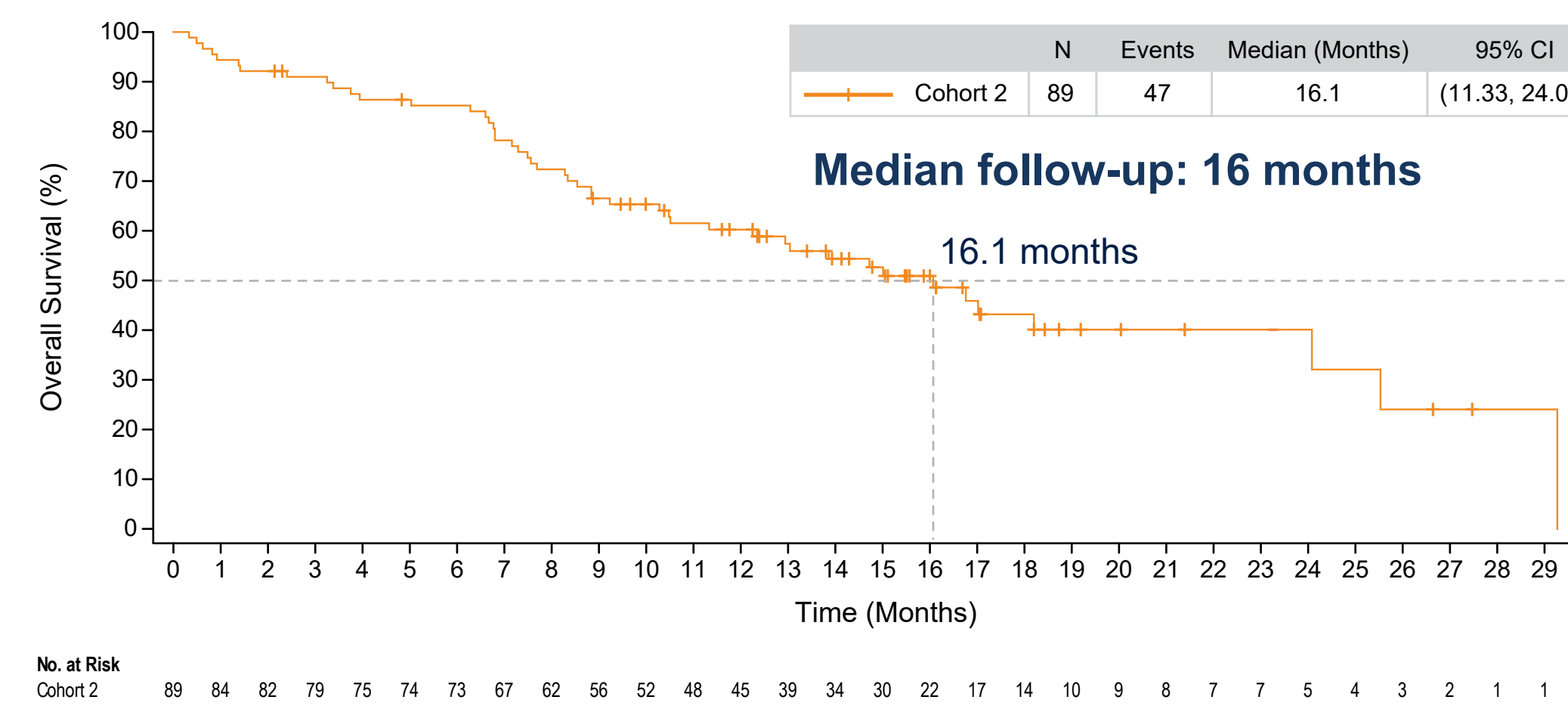


- Responses were observed across all subgroups, including patients:
 - with primary tumor sites in the upper tract (ORR=58%)
 - with liver metastasis (ORR=43%)
 - who did not respond to prior PD-1/PD-L1 inhibitors (ORR=46%)

Updated Progression-Free Survival per BICR



Updated Overall Survival



Treatment-Related Adverse Events (TRAEs)

TRAEs in $\geq 20\%$ of patients (any Grade) or $\geq 5\%$ (\geq Grade 3)	Patients (N=89), n (%)	
	Any Grade	\geq Grade 3
Overall TRAEs	86 (97)	49 (55)
Alopecia	45 (51)	–
Peripheral sensory neuropathy	44 (49)	3 (3)
Fatigue	30 (34)	6 (7)
Decreased appetite	29 (33)	5 (6)
Pruritus	27 (30)	3 (3)
Rash maculo-papular	27 (30)	7 (8)
Dysgeusia	25 (28)	–
Weight decreased	23 (26)	1 (1)
Anemia	22 (25)	5 (6)
Diarrhea	20 (22)	5 (6)
Nausea	20 (22)	1 (1)
Neutropenia	11 (12)	8 (9)
Hyperglycemia	8 (9)	5 (6)
Lipase increased	7 (8)	5 (6)

These safety data are consistent with the primary analysis and the previously reported safety profile of EV

- TRAEs led to discontinuations in 16% of patients
 - Peripheral sensory neuropathy was the most common reason (4%)
- 4 deaths considered to be treatment-related by the investigator were previously reported and included:
 - acute kidney injury, metabolic acidosis and multiple organ dysfunction syndrome, occurred within 30 days of first dose in patients with BMI ≥ 30 kg/m²
 - pneumonitis, occurred > 30 days of last dose
 - all 4 deaths were confounded by age (≥ 75 years) and other comorbidities

Treatment-Related Adverse Events of Special Interest^a

	Skin Reactions	Peripheral Neuropathy	Hyperglycemia
Any grade, %	61	56	10
\geq Grade 3, %	17	8	6
Median onset, months	0.5 ^b	2.7	0.5 ^b
Resolution/improvement ^c , %	80	54	89

These events represent composites of related adverse events.

Skin Reactions

- No Grade 5 events, 1 Grade 4 event
- 13 patients with severe cutaneous adverse reactions^d
 - Most \leq Grade 2, no Grade 4 or 5 events
 - 4 patients with Grade 3 events: stomatitis, skin exfoliation, dermatitis bullous, dermatitis exfoliative generalised
 - 1 treatment discontinuation due to Grade 3 dermatitis bullous

Peripheral Neuropathy (PN)

- PN rate was similar in patients with and without pre-existing PN (60% vs. 55%)

Hyperglycemia (HG)

- Higher rate of HG in patients with pre-existing HG than those without pre-existing HG (20% vs. 7%)
- Higher rate of HG in patients with BMI ≥ 30 kg/m² than those with BMI < 30 kg/m² (23% vs. 8%)

a. Events categorized based on queries for related MedDRA (Medical Dictionary for Regulatory Activities) terms v. 23.0
b. Most occurred in Cycle 1
c. Resolution/improvement as of last follow-up
d. A range of skin reaction preferred terms, irrespective of grade

AEs are generally treatable with proper dose modifications and supportive care measures

Summary/Conclusions

- Cisplatin-ineligible patients need effective treatment options following immunotherapy
- The efficacy and safety data in this updated analysis, with an additional 3 months of follow-up for EV-201 Cohort 2, are consistent with those of the Primary Analysis:
 - 51% ORR, with a 22% complete response rate and consistent response rates across subgroups
 - 13.8 months median duration of response
 - Manageable safety profile in an elderly cisplatin-ineligible patient population
- Activity demonstrated in EV-201 Cohort 2 builds upon the results shown in PD-1/PD-L1 inhibitor and platinum-treated patients in EV-301
- These data support inclusion of enfortumab vedotin in the treatment of cisplatin-ineligible patients following immunotherapy and continued investigation of enfortumab vedotin in earlier disease settings

Abbreviations: AE=adverse event(s); BICR=Blinded Independent Central Review; BMI=body mass index; CI=Confidence Interval; CPS=combined positive score; DOR=duration of response; IV=intravenous; ECOG PS=Eastern Cooperative Oncology Group performance status; HG=hyperglycemia; ORR=objective response rate; OS=overall survival; PD=progressive disease; PD-1/PD-L1=programmed cell death protein 1/programmed death-ligand 1; PFS=progression-free survival; PN=peripheral neuropathy; RECIST=Response Evaluation Criteria in Solid Tumors; TRAE=Treatment-Related Adverse Event

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