

EV-302/KEYNOTE-A39: Open-Label, Randomized Phase 3 Study of Enfortumab Vedotin in Combination with Pembrolizumab vs Chemotherapy in Previously Untreated Locally Advanced or Metastatic Urothelial Carcinoma

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Background

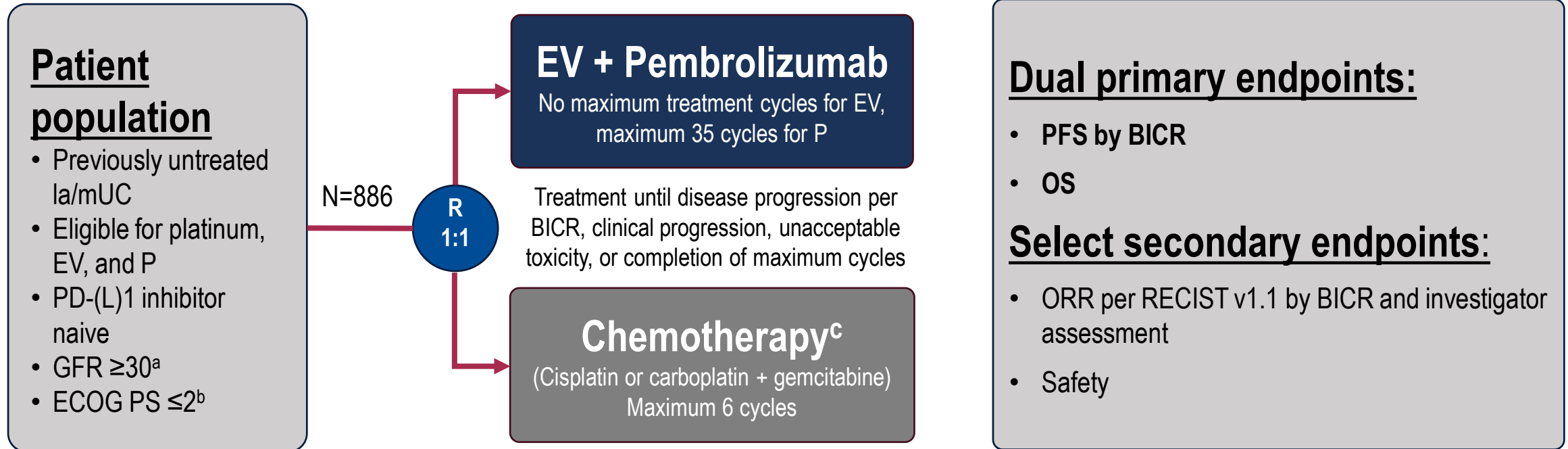
- There are approximately 200,000 deaths worldwide from advanced urothelial carcinoma annually¹; prognosis is poor with low 5-year survival rates²
- Platinum-based chemotherapy has been the standard 1L treatment for la/mUC for decades
 - While avelumab is approved as maintenance therapy in a subset of patients whose disease has not progressed following 1L platinum-based chemotherapy, high unmet need remains³⁻⁶
 - Two previously published trials of chemotherapy in combination with PD-1/PD-L1 inhibitors have failed to improve survival in la/mUC^{7,8}
- Enfortumab vedotin, a Nectin-4 directed antibody-drug conjugate, and pembrolizumab, a PD-1 inhibitor (EV+P), have individually demonstrated a survival benefit in previously treated la/mUC⁹⁻¹¹
- The combination was granted accelerated approval in the US by the FDA for the treatment of patients with la/mUC who are ineligible for cisplatin¹³
- In EV-302/KEYNOTE-A39 (NCT04223856) EV+P was compared with chemotherapy in patients with previously untreated la/mUC regardless of cisplatin eligibility and PD-L1 expression status

1L, first-line treatment; EV+P, enfortumab vedotin + pembrolizumab; FDA, Food and Drug Administration; la/mUC, locally advanced or metastatic urothelial carcinoma; PD-1, programmed cell death protein 1; PD-L1, programmed death-ligand 1.

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EV-302/KEYNOTE-A39 (NCT04223856)



Stratification factors: cisplatin eligibility (eligible/ineligible), PD-L1 expression (high/low), liver metastases (present/absent)

Cisplatin eligibility and assignment/dosing of cisplatin vs carboplatin were protocol-defined; patients received 3-week cycles of EV (1.25 mg/kg; IV) on Days 1 and 8 and P (200 mg; IV) on Day 1

Statistical plan for analysis: the first planned analysis was performed after approximately 526 PFS (final) and 356 OS events (interim); if OS was positive at interim, the OS interim analysis was considered final

BICR, blinded independent central review; **ECOG PS**, Eastern Cooperative Oncology Group Performance Status; **EV**, enfortumab vedotin; **FPI**, first person initiated into trial; **GFR**, glomerular filtration rate; **LPI**, last person initiated into trial; **IV**, intravenous; **la/mUC**, locally advanced or metastatic urothelial carcinoma; **ORR**, overall response rate; **OS**, overall survival; **P**, pembrolizumab; **PD-L1**, programmed death-ligand 1; **PFS**, progression-free survival;

R, randomization; **RECIST**, Response Evaluation Criteria in Solid Tumors.

^aMeasured by the Cockcroft-Gault formula, Modification of Diet in Renal Disease, or 24-hour urine.

^bPatients with ECOG PS of 2 were required to also meet the additional criteria: hemoglobin ≥ 10 g/dL, GFR ≥ 50 mL/min, may not have NYHA class III heart failure.

^cMaintenance therapy could be used following completion and/or discontinuation of platinum-containing therapy.

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Data cutoff: 08 Aug 2023

FPI: 7 Apr 2020

LPI: 09 Nov 2022

Key Demographic and Baseline Disease Characteristics

Balanced between treatment arms and representative of 1L Ia/mUC population

	EV+P (N=442)	Chemotherapy (N=444)
Male sex , n (%)	344 (77.8)	336 (75.7)
Age (years), median (range)	69.0 (37,87)	69.0 (22,91)
Race , n (%)		
White	308 (69.7)	290 (65.3)
Asian	99 (22.4)	92 (20.7)
Geographic location , n (%)		
North America	103 (23.3)	85 (19.1)
Europe	172 (38.9)	197 (44.4)
Rest of World	167 (37.8)	162 (36.5)
ECOG PS , n (%)		
0	223 (50.5)	215 (48.4)
1	204 (46.2)	216 (48.6)
2	15 (3.4)	11 (2.5)
Primary tumor location , n (%)		
Upper tract	135 (30.5)	104 (23.4)
Lower tract	305 (69.0)	339 (76.4)

	EV+P (N=442)	Chemotherapy (N=444)
Cisplatin eligible^a , n (%)	240 (54.3)	242 (54.5)
Metastatic category , n (%)		
Visceral metastases	318 (71.9)	318 (71.6)
Bone	81 (18.3)	102 (23.0)
Liver	100 (22.6)	99 (22.3)
Lung	170 (38.5)	157 (35.4)
Lymph node only disease	103 (23.3)	104 (23.4)
PD-L1 expression^b , n/N (%)		
High (CPS ≥ 10)	254/438 (58.0)	254/439 (57.9)
Low (CPS < 10)	184/438 (42.0)	185/439 (42.1)

1L, first-line treatment; CPS, combined positive score; ECOG PS, Eastern Cooperative Oncology Group performance status; EV+P, enfortumab vedotin + pembrolizumab; FPI, first person initiated into trial; IHC, immunohistochemistry; Ia/mUC, locally advanced or metastatic urothelial carcinoma; LPI, last person initiated into trial; PD-L1, programmed death-ligand 1.

^aRepresents eligibility at time of randomization.

^bCPS status was determined using the validated PD-L1 IHC 22C3 pharmDx assay at Neogenomics and Labcorp; 4 patients in the EV+P arm and 5 patients in the chemotherapy arm had samples that were of inadequate tissue quality for analysis.

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Summary of Disposition

33% of patients in EV+P arm remain on treatment at time of analysis

	EV+P (N=442)	Chemotherapy (N=444)
Patients randomized, n (%)	442 (100)	444 (100)
Patients who received any amount of study drug, n (%)	440 (99.5)	433 (97.5)
Patients on treatment	144 (32.6)	0
Patients on study, n (%)	296 (67.0)	203 (45.7)
Primary reason for study treatment discontinuation^a, n (%)		
Completed treatment	8 (1.8) ^b	244 (55.0)
Progressive disease	153 (34.6)	73 (16.4)
Adverse event	97 (21.9)	62 (14.0)
Physician/Patient decision	31 (7.0)	52 (11.7)
Other ^c	7 (1.6)	2 (0.5)

EV, enfortumab vedotin; EV+P, enfortumab vedotin + pembrolizumab; FPI, first person initiated into trial; LPI, last person initiated into trial; P, pembrolizumab.

^aPatients in EV+P arm received EV until disease progression or toxicity (per protocol, there was no maximum number of EV cycles) or completion of maximum cycles (35 cycles for P); chemotherapy could be given for a maximum of 6 cycles.

^bPatients completed 35 cycles of P and had discontinued EV prior to P.

^c7 patients on EV+P: Death (n=3), Grade 3 Asthenia outside of protocol reporting period (n=1), Lost to follow-up (n=1), Chronic Lymphatic Leukemia (n=1), general deterioration (n=1); 2 patients on Chemotherapy: Respiratory failure (n=1), Patient insurance would not cover chemotherapy treatment on clinical trial (n=1).
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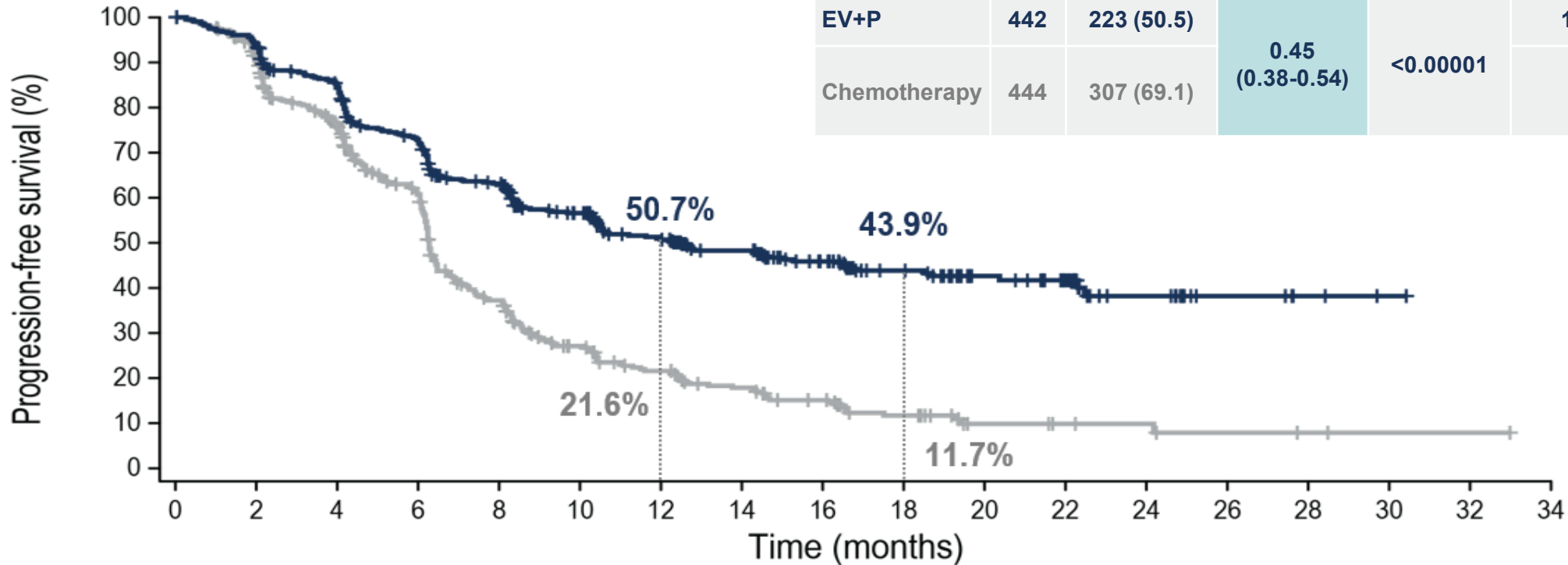
LPI: 09 Nov 2022



Progression-Free Survival per BICR

Risk of progression or death was reduced by 55% in patients who received EV+P

	N	Events (%)	HR ^a (95% CI)	2-sided P value	mPFS (95% CI), months
EV+P	442	223 (50.5)	0.45 (0.38-0.54)	<0.00001	12.5 (10.4-16.6)
Chemotherapy	444	307 (69.1)			6.3 (6.2-6.5)



N at risk	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
EV+P	442	409	361	303	253	204	167	132	102	73	45	33	17	6	3	1	1	
Chemotherapy	444	380	297	213	124	78	56	41	30	19	8	6	5	3	2	1	1	

BICR, blinded independent central review; CI, confidence interval; EV+P, enfortumab vedotin + pembrolizumab; HR, hazard ratio; mPFS, median progression-free survival.

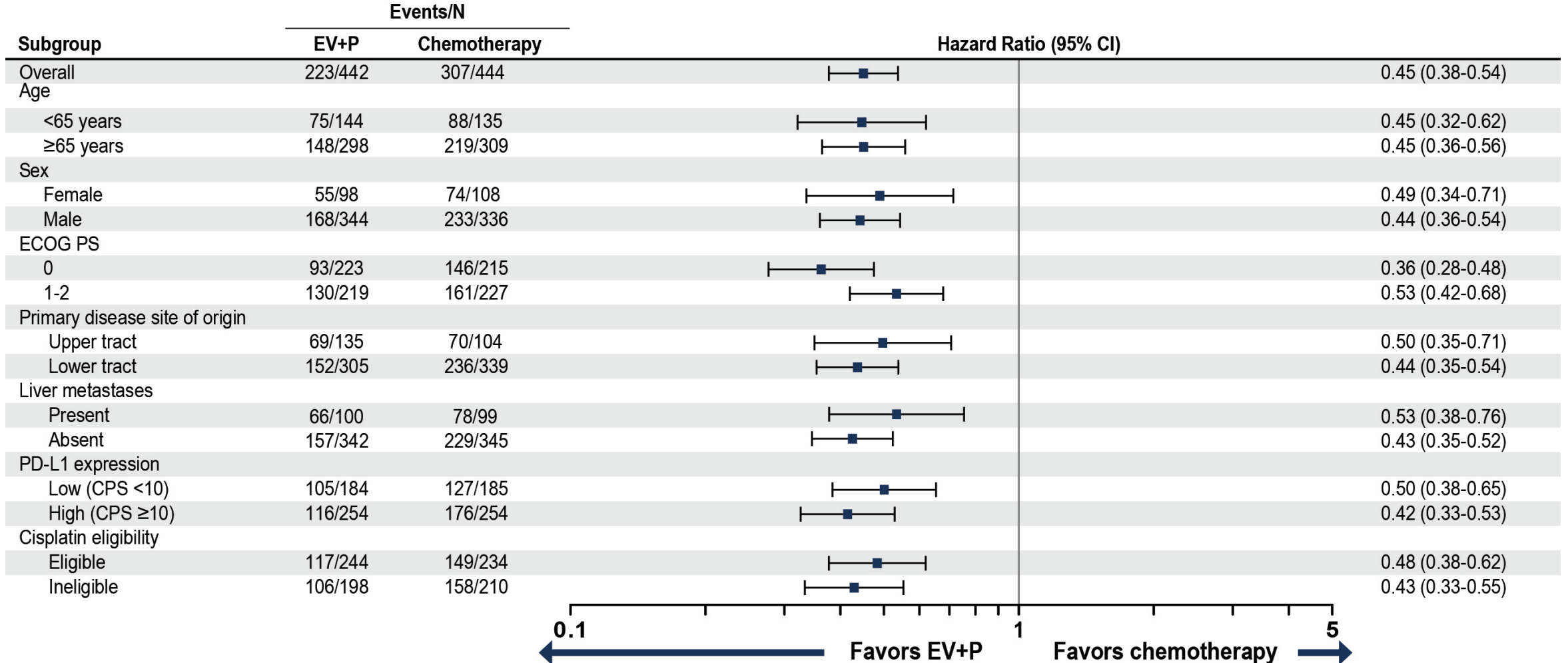
mPFS at 12 and 18 months as estimated using Kaplan-Meier method.

^aCalculated using stratified Cox proportional hazards model; a hazard ratio <1 favors the EV+P arm.

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Subgroup Analysis of PFS per BICR

PFS benefit in select pre-specified subgroups was consistent with results in overall population

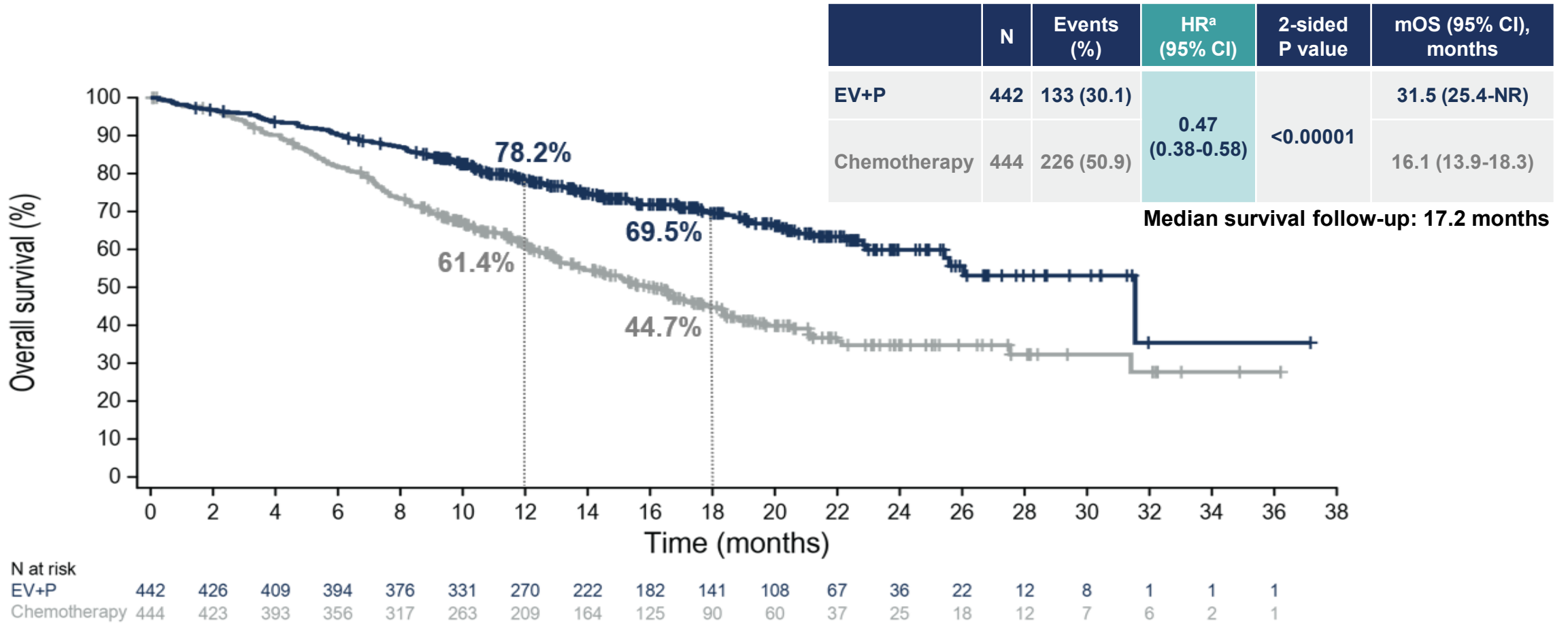


BICR, blinded independent central review; CPS, Combined Positive Score; ECOG PS, Eastern Cooperative Oncology Group performance status; EV+P, enfortumab vedotin + pembrolizumab; la/mUC, locally advanced or metastatic urothelial carcinoma; PD-L1, Programmed death-ligand 1; PFS, progression-free survival.
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Overall Survival

Risk of death was reduced by 53% in patients who received EV+P



CI, confidence interval; EV+P, enfortumab vedotin + pembrolizumab; HR, hazard ratio; mOS, median overall survival; NR, not reached; OS, overall survival.

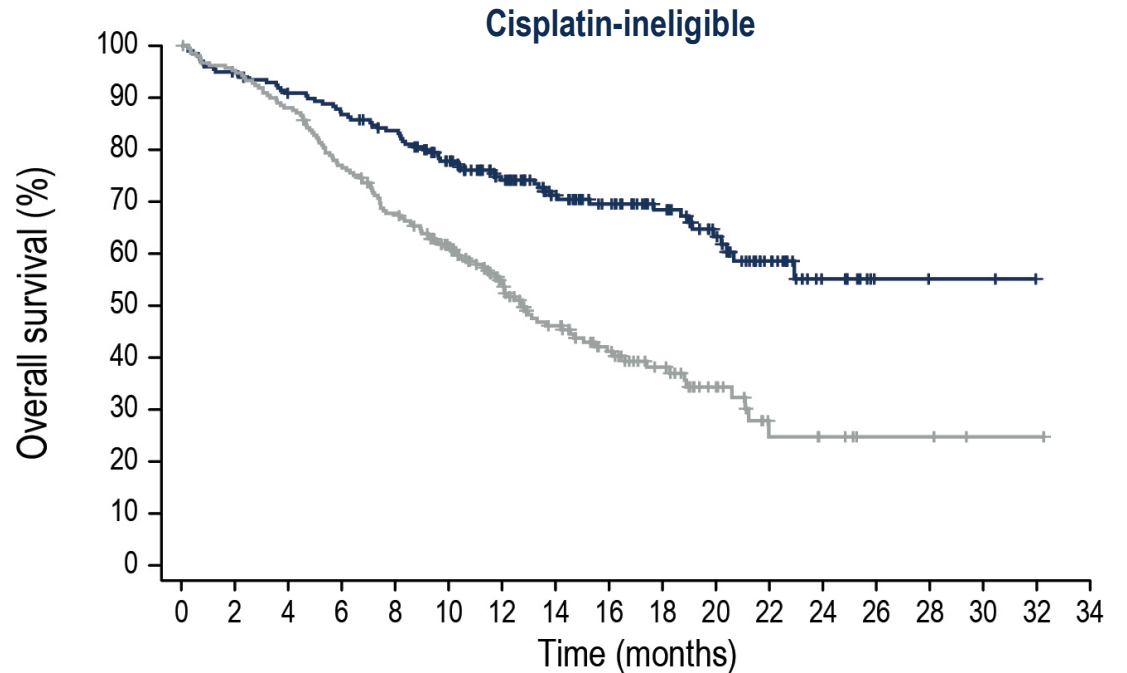
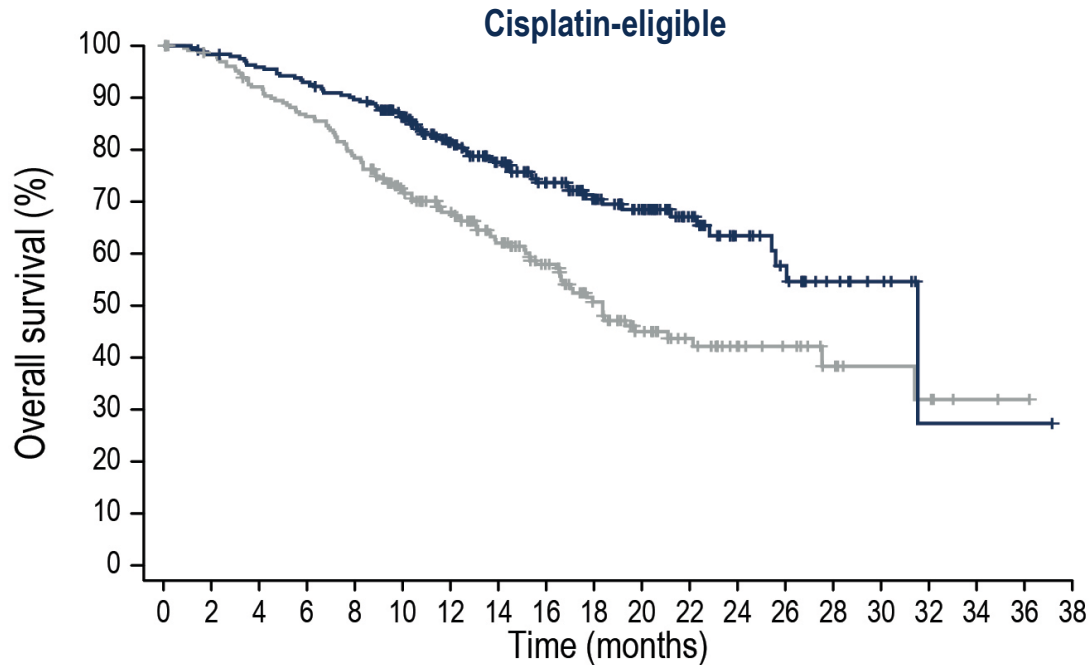
OS at 12 and 18 months as estimated using Kaplan-Meier method.

^aCalculated using stratified Cox proportional hazards model; a hazard ratio <1 favors the EV+P arm.

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OS Subgroup Analysis: Cisplatin Eligibility

OS benefit was consistent with overall population regardless of cisplatin eligibility



N at risk																			
EV+P	244	239	232	225	216	193	155	131	105	80	64	42	25	19	10	6	1	1	1
Chemotherapy	234	224	209	196	178	147	123	101	79	57	40	29	19	15	9	6	5	2	1

N at risk																			
EV+P	198	187	177	169	160	138	115	91	77	61	44	25	11	3	2	2			
Chemotherapy	210	199	184	160	139	116	86	63	46	33	20	8	6	3	3	1	1		

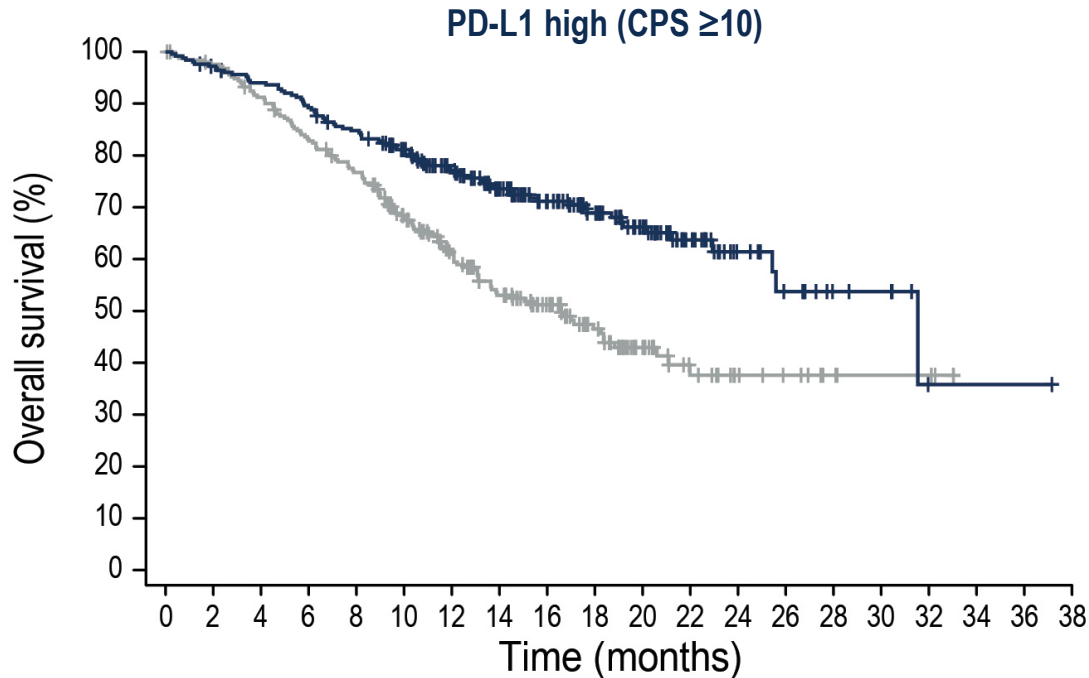
	Events, n	HR (95% CI)	mOS (95% CI), months
EV+P	69	0.53 (0.39-0.72)	31.5 (25.4-NR)
Chemotherapy	106		18.4 (16.4-27.5)

	Events, n	HR (95% CI)	mOS (95% CI), months
EV+P	64	0.43 (0.31-0.59)	NR (20.7-NR)
Chemotherapy	120		12.7 (11.4-15.5)

CI, confidence interval; EV+P, enfortumab vedotin + pembrolizumab; HR, hazard ratio; mOS, median overall survival; OS, overall survival.
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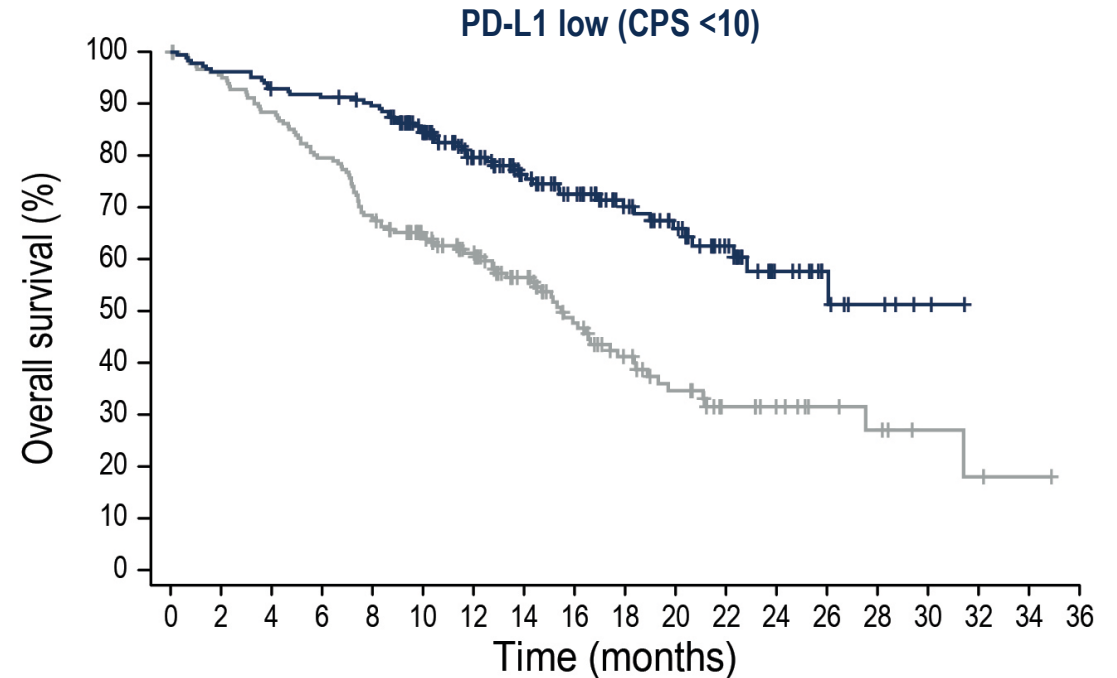
OS Subgroup Analysis: PD-L1 Expression

OS benefit was consistent with overall population regardless of PD-L1 expression status



N at risk	
EV+P	254 245 235 223 210 189 162 136 111 87 65 37 20 13 7 6 1 1 1
Chemotherapy	254 245 228 207 189 155 122 97 76 54 33 19 12 9 5 3 3

	Events, n	HR (95% CI)	mOS (95% CI), months
EV+P	79	0.49 (0.37-0.66)	31.5 (25.4-NR)
Chemotherapy	125		16.6 (13.1-20.6)



N at risk	
EV+P	184 177 170 167 162 139 106 86 71 54 43 30 16 9 5 2
Chemotherapy	185 173 160 144 123 103 84 65 47 34 25 16 12 8 6 3 2 1

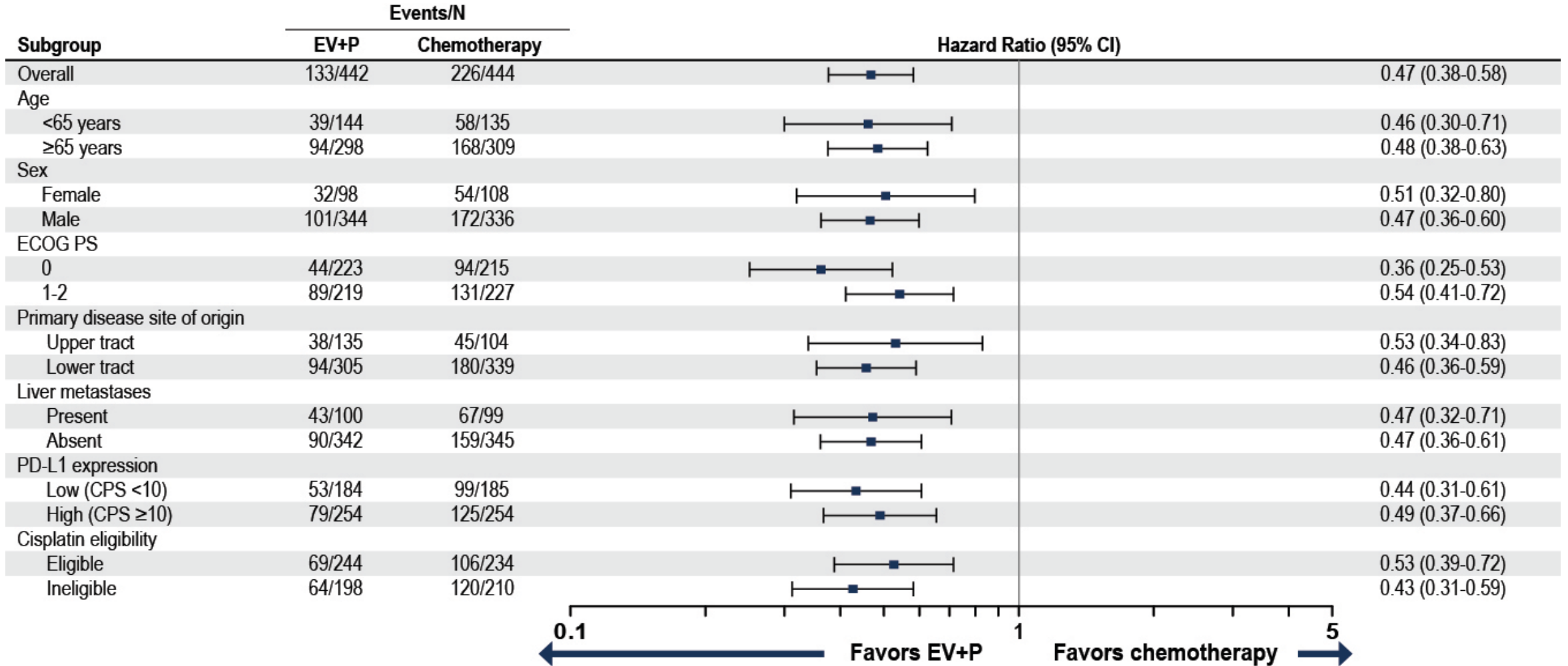
	Events, n	HR (95% CI)	mOS (95% CI), months
EV+P	53	0.44 (0.31-0.61)	NR (22.3-NR)
Chemotherapy	99		15.5 (12.9-17.7)

CI, confidence interval; EV+P, enfortumab vedotin + pembrolizumab; HR, hazard ratio; mOS, median overall survival; OS, overall survival; PD-L1, Programmed death-ligand 1. Powles T, et al. Oral Presentation at 2023 ESMO Annual Meeting; October 20-24, 2023; Abstract #LBA6 / Presidential Symposium (Oral Presentation)

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Subgroup Analysis of OS

OS benefit in select pre-specified subgroups was consistent with results in overall population



CPS, Combined Positive Score; ECOG PS, Eastern Cooperative Oncology Group Performance Status; EV+P, enfortumab vedotin + pembrolizumab; OS, overall survival;

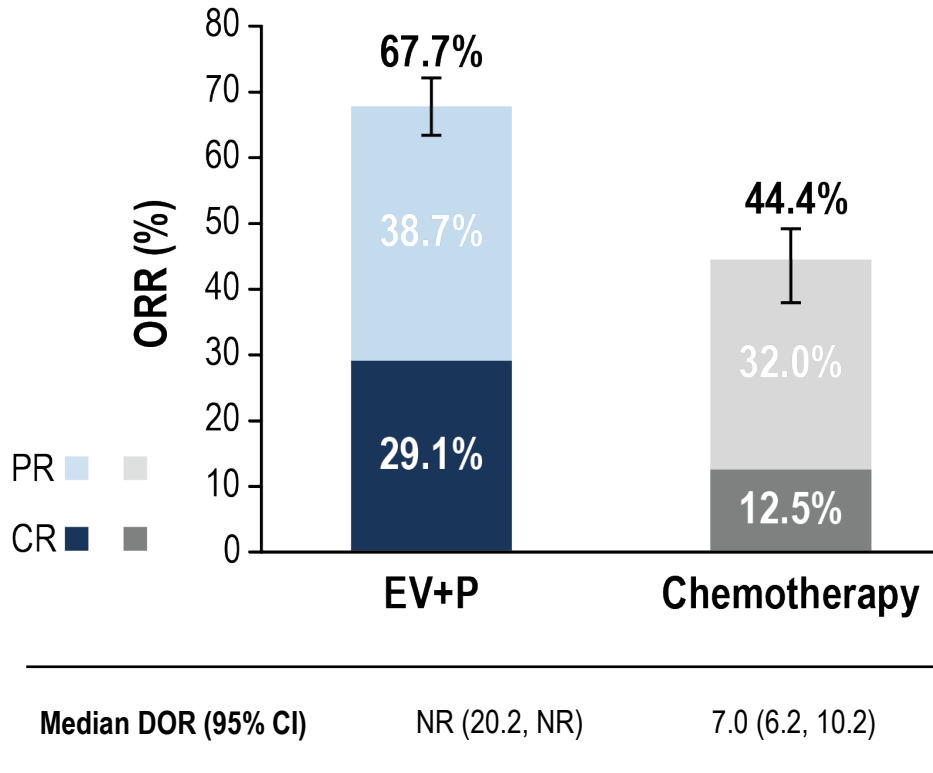
PD-L1, Programmed death-ligand 1.

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Confirmed Overall Response per BICR

Significant improvement in objective response rate was observed with EV+P



	EV+P (N=437)	Chemotherapy (N=441)
Confirmed ORR, n (%) (95% CI)	296 (67.7) (63.1-72.1)	196 (44.4) (39.7-49.2)
2-sided P value	<0.00001	
Best overall response^a, n (%)		
Complete response	127 (29.1)	55 (12.5)
Partial response	169 (38.7)	141 (32.0)
Stable disease	82 (18.8)	149 (33.8)
Progressive disease	38 (8.7)	60 (13.6)
Not evaluable/No assessment ^b	21 (4.8)	36 (8.2)

BICR, blinded independent central review; **CI**, confidence interval; **CR**, complete response; **DOR**, duration of response; **EV+P**, enfortumab vedotin + pembrolizumab; **NR**, not reached; **ORR**, overall response rate; **PR**, partial response.

^aBest overall response according to RECIST v1.1 per BICR. CR or PR was confirmed with repeat scans ≥28 days after initial response.

^bPatients had either post-baseline assessment and the best overall response was determined to be not evaluable per RECIST v1.1 or no response assessment post-baseline. Powles T, et al. Oral Presentation at 2023 ESMO Annual Meeting; October 20-24, 2023; Abstract #LBA6 / Presidential Symposium (Oral Presentation)

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Summary of Subsequent Systemic Therapy

59% of patients in chemotherapy arm received subsequent PD-1/L1 inhibitors

	EV+P (N=442) n (%)	Chemotherapy (N=444) n (%)
First subsequent systemic therapy^a	128 (28.9)	294 (66.2)
Platinum-based therapy	110 (24.9)	17 (3.8)
PD-1/L1 inhibitor-containing therapy	7 (1.6)	260 (58.6)
Maintenance therapy	0	143 (32.2)
Avelumab maintenance	0	135 (30.4)
PD-1/L1 inhibitor-containing therapy following progression	7 (1.6)	117 (26.4)
Other	11 (2.5)	17 (3.8)

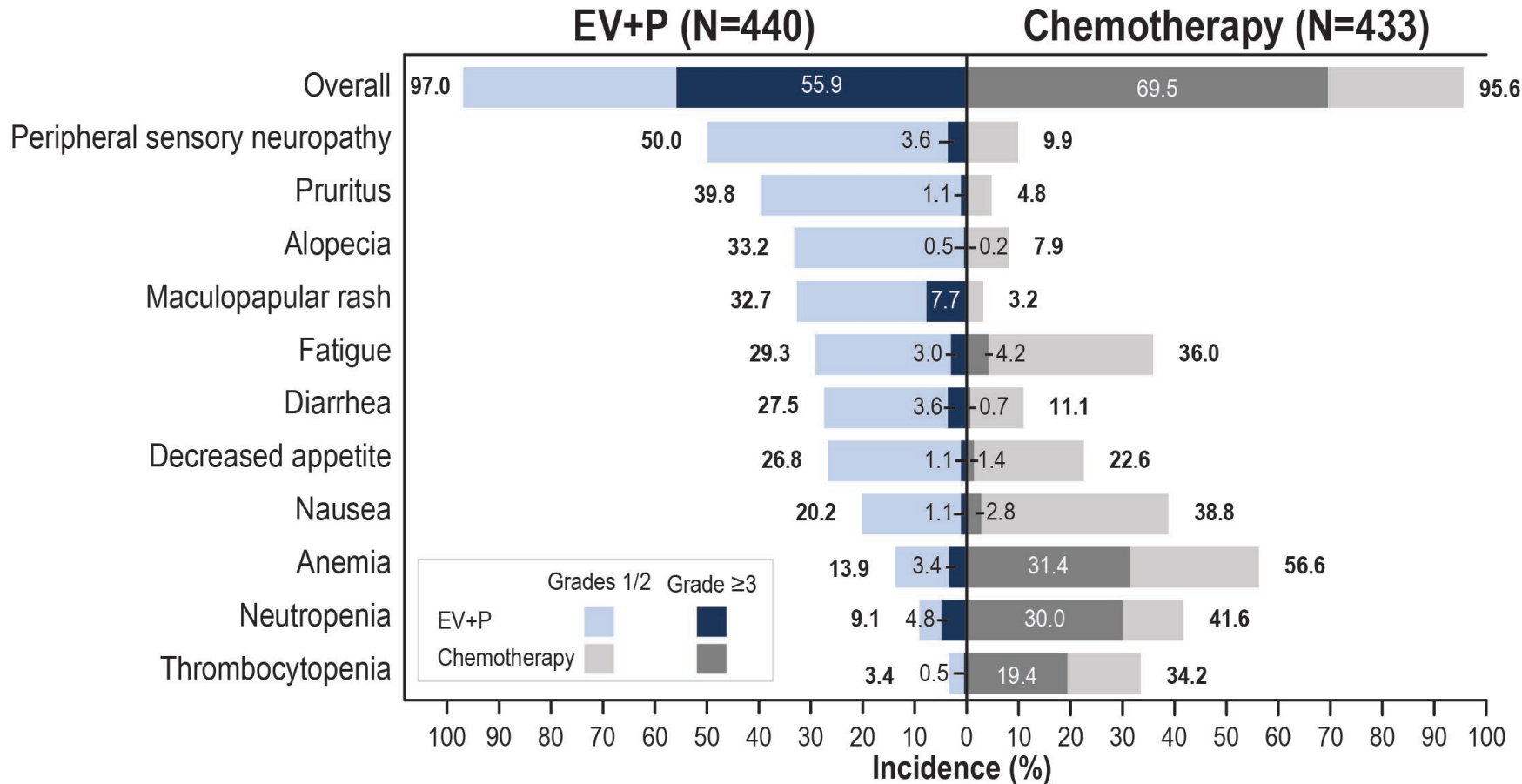
^a144 (32.6%) patients in the EV+P arm remain on treatment at time of analysis.

EV+P, enfortumab vedotin + pembrolizumab; **PD-1**, programmed cell death protein 1; **PD-L1**, programmed death-ligand 1.

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Treatment-Related Adverse Events

Grade ≥ 3 events were 56% in EV+P and 70% in chemotherapy



Serious TRAEs:

- 122 (27.7%) EV+P
- 85 (19.6%) chemotherapy

TRAEs leading to death (per investigator):

EV+P: 4 (0.9%)

- Asthenia
- Diarrhea
- Immune-mediated lung disease
- Multiple organ dysfunction syndrome

Chemotherapy: 4 (0.9%)

- Febrile neutropenia
- Myocardial infarction
- Neutropenic sepsis
- Sepsis

Median number of cycles (range): 12.0 (1,46) for EV+P; 6.0 (1,6) for chemotherapy

EV+P, enfortumab vedotin + pembrolizumab; TRAEs, treatment-related adverse events.

TRAEs shown in figure are any grade by preferred term in $\geq 20\%$ of patients for any grade in either arm.

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EV Treatment-Related Adverse Events of Special Interest*

Majority of treatment-related AESIs were low grade

	EV+P (N=440) n (%)		Chemotherapy (N=433) n (%)	
	Any grade	Grade ≥3	Any grade	Grade ≥3
Skin reactions	294 (66.8)	68 (15.5)	60 (13.9)	1 (0.2)
Peripheral neuropathy	278 (63.2)	30 (6.8)	53 (12.2)	0 (0.0)
Sensory events	260 (59.1)	19 (4.3)	51 (11.8)	0 (0.0)
Motor events	44 (10.0)	12 (2.7)	5 (1.2)	0 (0.0)
Ocular disorders	94 (21.4)	0 (0.0)	12 (2.8)	0 (0.0)
Dry eye	82 (18.6)	0 (0.0)	8 (1.8)	0 (0.0)
Hyperglycemia	57 (13.0)	27 (6.1)	3 (0.7)	0 (0.0)
Infusion-related reactions	9 (2.0)	0 (0.0)	9 (2.1)	0 (0.0)

AESI, adverse event of special interest; **EV**, enfortumab vedotin; **EV+P**, enfortumab vedotin + pembrolizumab; **P**, pembrolizumab; **TRAEs**, treatment-related adverse events.

*There are differences in the rates of skin reactions reported for EV treatment-related AESIs and P TEAEs of special interest because these adverse events were reported via different methodologies developed for EV and P monotherapies, respectively.

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Pembrolizumab Treatment-Emergent Adverse Events of Special Interest*

AEOSIs any grades by preferred term in ≥1% of patients	EV+P (N=440) n (%)		Chemotherapy (N=433) n (%)	
	Any grade	Grade ≥3	Any grade	Grade ≥3
Severe skin reactions	75 (17.0)	52 (11.8)	2 (0.5)	0
Hypothyroidism	47 (10.7)	2 (0.5)	3 (0.7)	0
Pneumonitis	42 (9.5)	16 (3.6)	1 (0.2)	1 (0.2)
Hyperthyroidism	20 (4.5)	1 (0.2)	2 (0.5)	0
Hepatitis	14 (3.2)	8 (1.8)	2(0.5)	0
Colitis	12 (2.7)	7 (1.6)	0	0
Gastritis	9 (2.0)	0	3 (0.7)	0
Adrenal insufficiency	7 (1.6)	2 (0.5)	0	0
Infusion reactions	6 (1.4)	0	6 (1.4)	1 (0.2)
Pancreatitis	5 (1.1)	4 (0.9)	1 (0.2)	1 (0.2)

AEOSI, adverse event of special interest; AESI, adverse event of special interest; EV, enfortumab vedotin; P, pembrolizumab; TEAE, treatment-emergent adverse event.

*There are differences in the rates of skin reactions reported for EV treatment-related AESIs and P TEAEs of special interest because these adverse events were reported via different methodologies developed for EV and P monotherapies, respectively.

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Authors' Summary & Conclusions

- EV-302/KEYNOTE-A39 is the first time that platinum-based chemotherapy has been surpassed in OS in patients with previously untreated 1a/mUC
- EV+P showed statistically significant and clinically meaningful improvement in efficacy over chemotherapy
 - PFS HR: 0.45; OS HR: 0.47
 - mPFS and mOS were nearly doubled in the EV+P arm compared with chemotherapy
 - Benefit in prespecified subgroups and stratification factors was consistent with the overall population
- The safety profile of EV+P was generally manageable, with no new safety signals observed
- These results support EV+P as a potential new standard of care for 1L 1a/mUC

1L, first-line treatment; EV+P, enfortumab vedotin + pembrolizumab; 1a/mUC, locally advanced, metastatic urothelial cancer; HR, hazard ratio; mOS, median overall survival; mPFS, median progression-free survival; OS, overall survival; PFS, progression-free survival.
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Plain Language Summary

Why was this research needed?

- Platinum-based chemotherapy is the standard first treatment for locally advanced or metastatic urothelial cancer. However, as there is a very low survival rate, there is a strong need to improve survival for these patients.
- Previously, EV+P showed responses that were quick in onset and durable and side effects were generally manageable.
- The EV-302/KEYNOTE-A39 study compared EV+P with chemotherapy in patients who had not received treatment for la/mUC.

What were the results and why are the findings meaningful?

- In patients with la/mUC who had not received prior treatment, EV+P showed statistically significant and clinically meaningful improvement in survival compared with patients who received treatment with chemotherapy, nearly doubling the median overall survival.
- In this larger study, the safety profile of EV+P was generally manageable. There were no new side effects or risks seen from EV+P.
- Results from this study support having EV+P as a potential new standard first treatment for patients with la/mUC.

Where can I find more information?

<https://www.clinicaltrials.gov/study/NCT04223856>

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