

19 GIUGNO 2023

LE NOVITA ore 15.00 - 18.00 DA CHICAGO 2023:

l'evoluzione delle conoscenze in oncologia...



NEOPLASIE GENITO-URINARIE: Tumori renali e uroteliali

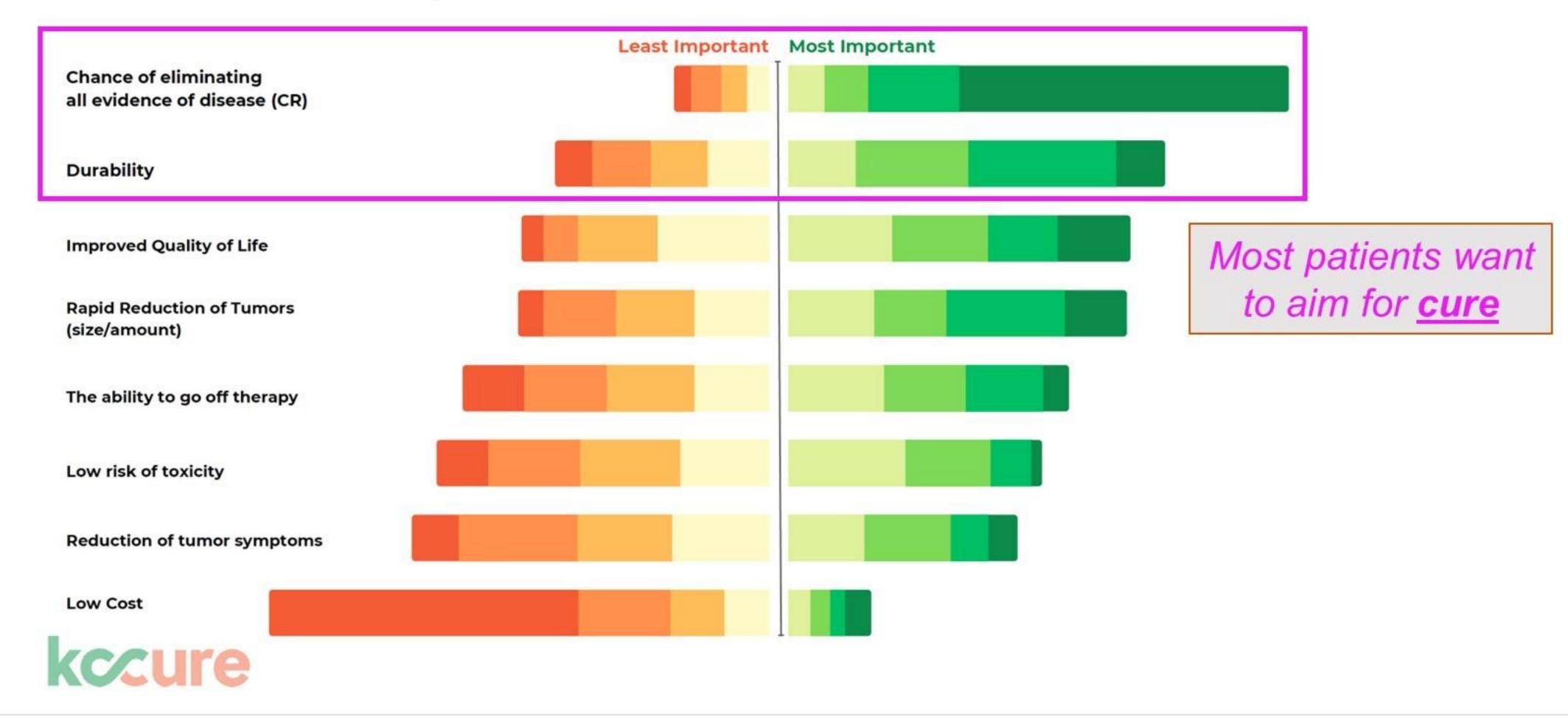
Dott.ssa Grazia Sirgiovanni Azienda Ospedaliera Santa Maria - Terni

GENITOURINARY CANCER: RCC

ADVANCED DISEASE:

- Criticità e conferme nelle combinazioni TKI-IO: Final prespecified overall survival (OS) analysis of CLEAR study
- Ruolo del rechallenge dell'ICI in linee successive: Primary PFS analysis from the CONTACT-03 study

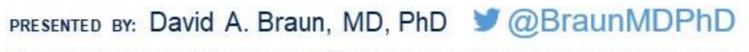
What's next? Patient perspective on goals of systemic therapy for advanced RCC













Prior results of the primary analysis

Key eligibility criteria

- Advanced clear-cell RCC
 Measurable disease
- Treatment-naïve

KPS ≥ 70

Adequate organ function

R 1:1:1

Stratification factors

- Region
- MSKCC risk groups

Median follow-up: 26.6 mos	ow-up: 26.6 mos LEN 20 mg oral QD + PEMBROa 200 mg IV Q3W LEN 18 mg oral QD EVE 5 mg oral QD		SUN 50 mg oral QD 4 weeks on / 2 weeks off
PFS,b median (95% CI) — mos	23.9 (20.8–27.7)	14.7 (11.1–16.7)	9.2 (6.0–11.0)
HR (95% CI) vs SUN; <i>P</i> -value	0.39 (0.32–0.49); <0.001	0.65 (0.53–0.80); <0.001	
OS , median (95% CI) — mos	NR (33.6-NE)	NR (NE-NE)	NR (NE-NE)
HR (95% CI) vs SUN; <i>P</i> -value	0.66 (0.49–0.88); 0.005	1.15 (0.88–1.50); 0.30	
ORR (95% CI)b — %	71.0 (66.3–75.7)	53.5 (48.3–58.7)	36.1 (31.2–41.1)
Complete response — %	16.1	9.8	4.2

Reference: Motzer R, Alekseev B, Rha SY, et al. N Engl J Med. 2021;384(14):1289-1300. a: Patients could receive a maximum of 35 pembrolizumab treatments. b: per independent imaging review by RECIST v1.1.

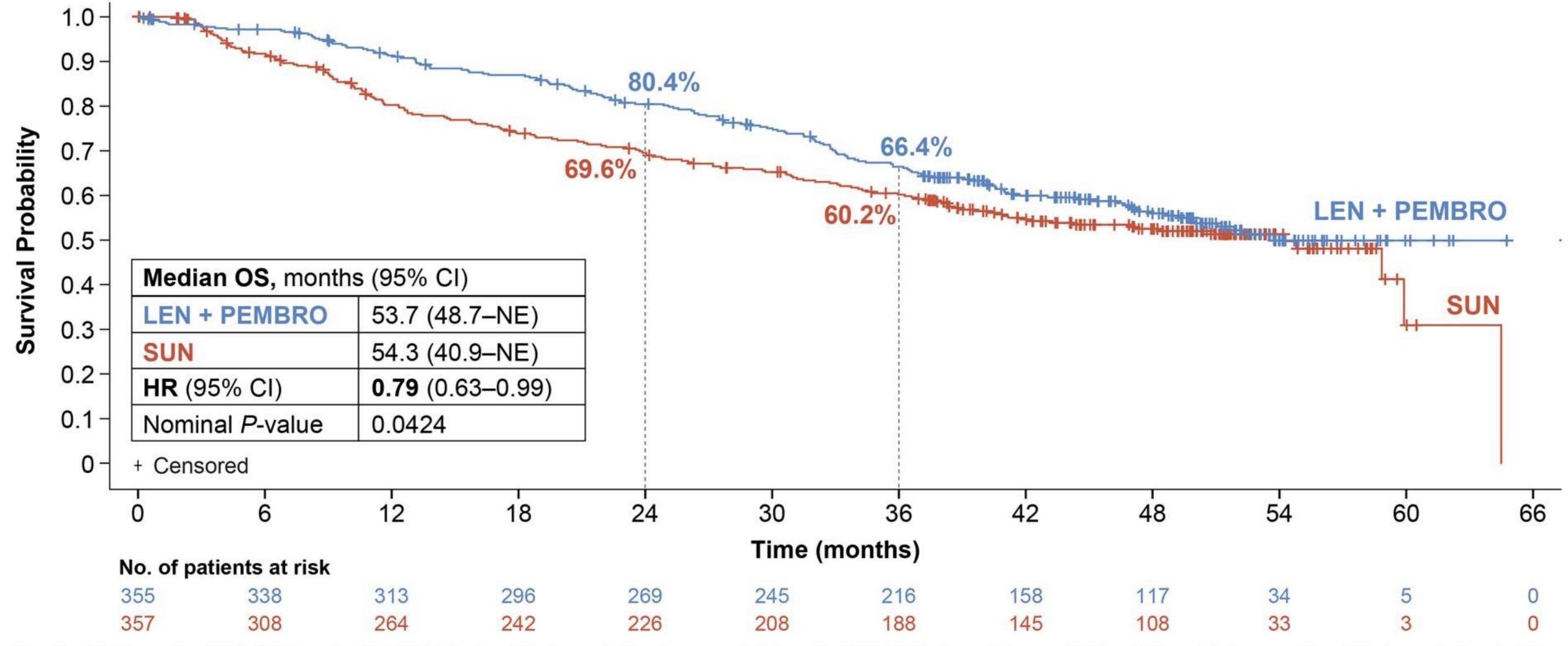




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Final OS analysis



At median OS follow-up time (IQR) of **49.8 months** (41.4–53.1) in the lenvatinib plus pembrolizumab group and **49.4 months** (41.6–52.8) in the sunitinib group, 308 target OS events had occurred (lenvatinib plus pembrolizumab, 149 events; sunitinib, 159 events). The HR and 2-sided 95% CI for lenvatinib plus pembrolizumab vs sunitinib were estimated by a stratified Cox proportional hazards model with Efron's method for ties, stratified by geographic region and MSKCC prognostic groups.

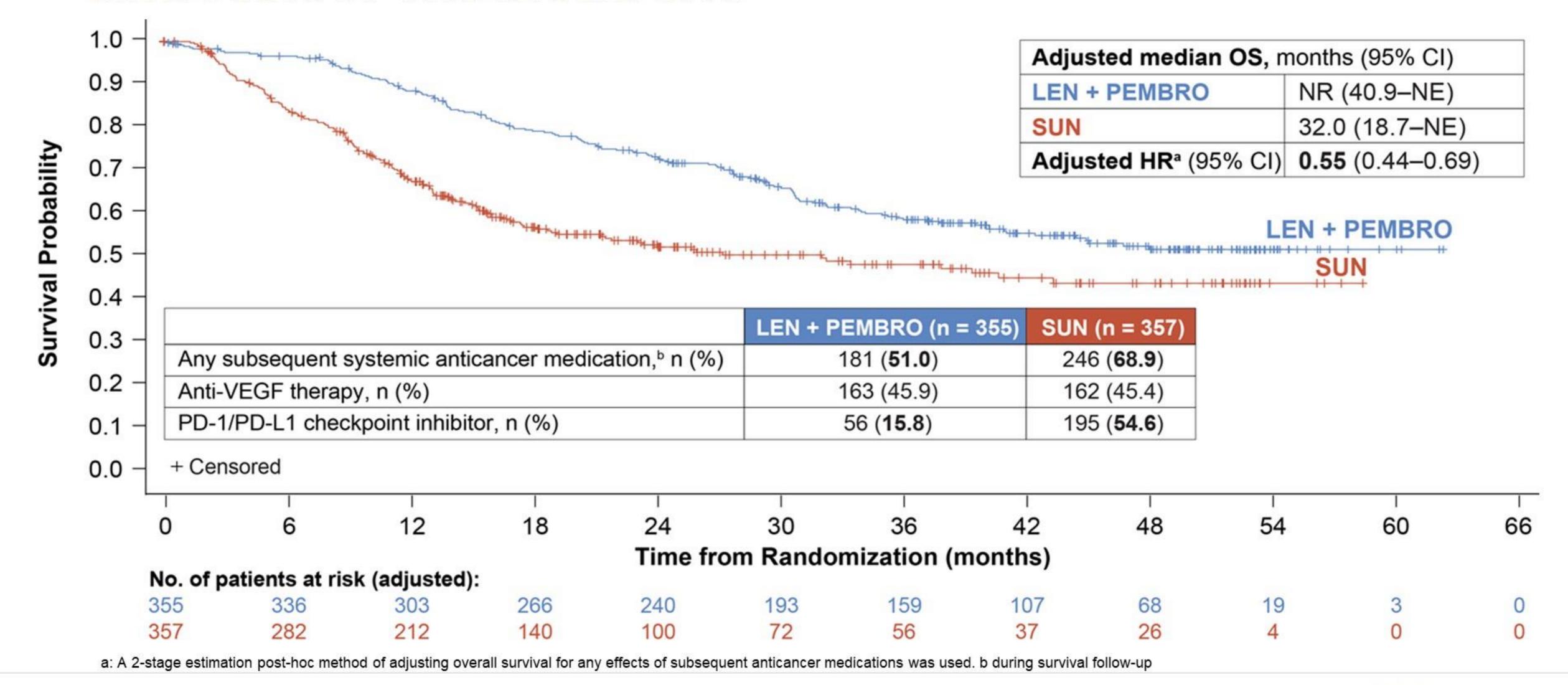




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Final OS analysis adjusted for subsequent anticancer medications



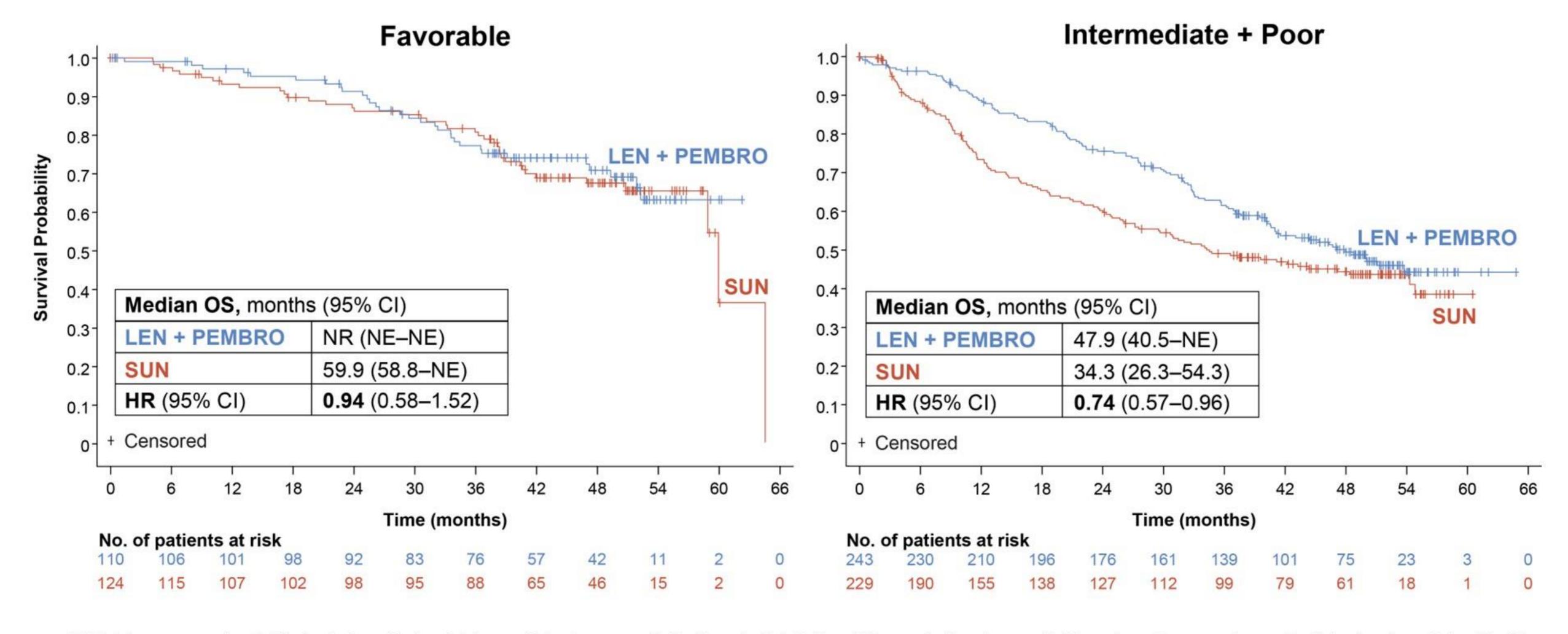




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Final OS analyses in IMDC risk subgroups



IMDC risk group was not a stratification factor and relevant data were derived programmatically. Hazard ratio is for lenvatinib + pembrolizumab vs sunitinib based on a Cox regression model with treatment as a factor. The Efron method was used for correction of tied events. Medians were estimated by the Kaplan-Meier method, and the 95% Cls were estimated with a generalized Brookmeyer and Crowley method.

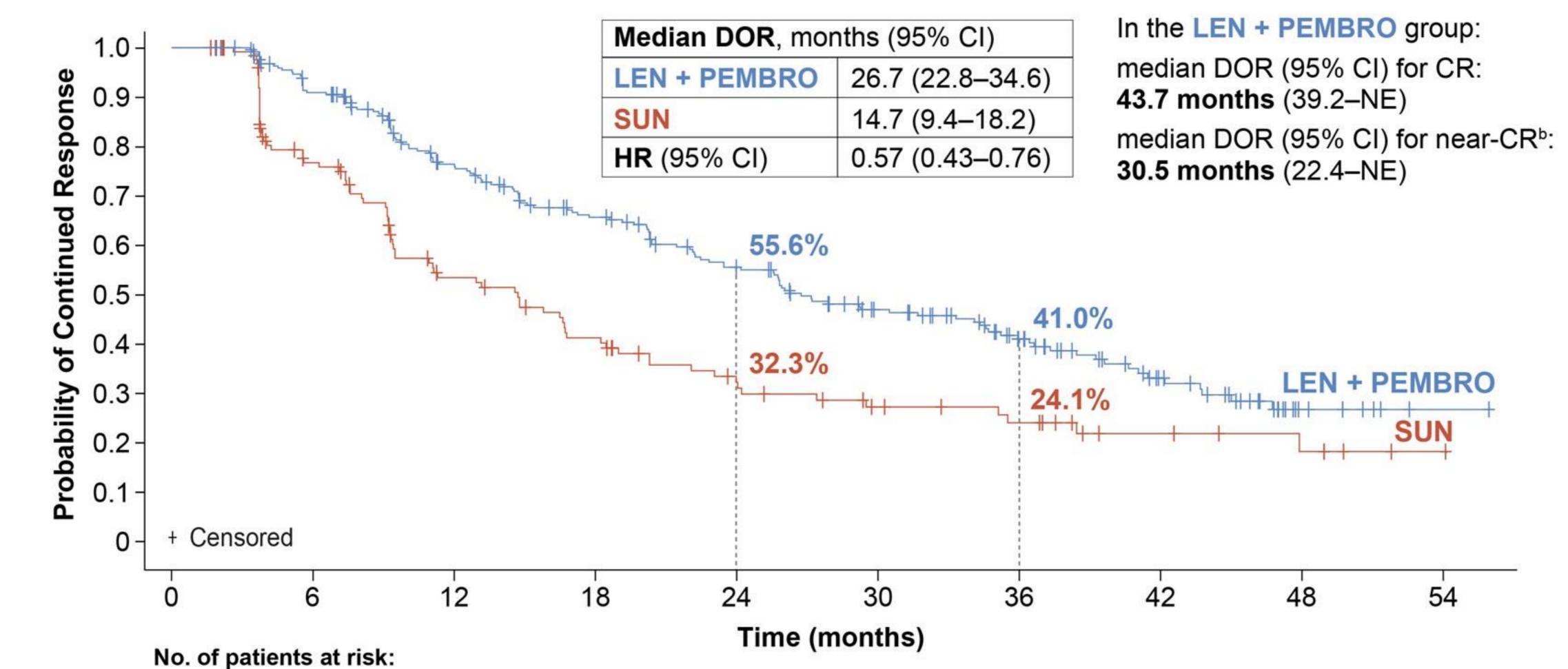




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Duration of response^a



a: DOR was by IIR per RECIST v1.1. b: Near-CR refers to partial responders who showed a maximum tumor reduction of ≥ 75%.

The 95% CIs are estimated with a generalized Brookmeyer and Crowley method. Hazard ratio is based on a Cox Proportional Hazards Model including treatment group as a factor; Efron method is used for ties and stratified by geographic region (Region 1: Western Europe and North America, Region 2: Rest of the World) and MSKCC prognostic groups (favorable, intermediate and poor risk) in IxRS. 95% CI were constructed using the method of Normal Approximation.



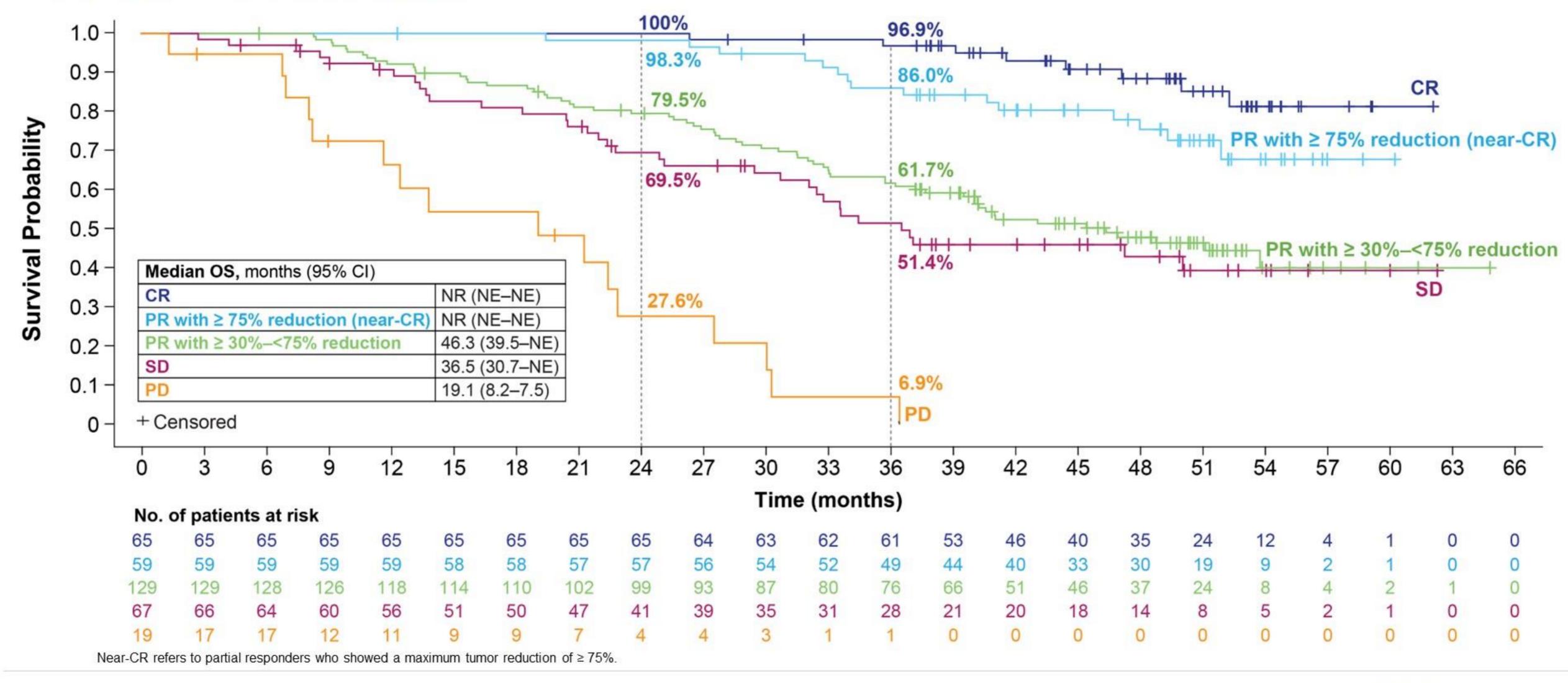


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Final OS analyses by best overall response: LEN + PEMBRO







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Take-home messages

- OS meno entusiasmante di quanto ci si potesse aspettare sulla base dei dati di PFS
- Impatto del rischio favorevole sulla sopravvivenza? Non beneficio nel gruppo a buona prognosi
- Ragione della maggior durata di risposta: ruolo dell'anti-CTLA4? Discontinuazione dell'immunoterapia dopo 2 anni di trattamento?

GENITOURINARY CANCER: RCC

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- Criticità e conferme nelle combinazioni TKI-IO: Final prespecified overall survival (OS) analysis of CLEAR study
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Phase III CONTACT-03 study

Key eligibility criteria

- Advanced/metastatic clear cell or non-clear cella RCC with or without a sarcomatoid component
- Radiographic progression on or after prior ICI treatment
 - ICI as adjuvant, 1L or 2L (single agent or in combination with another permitted agent)
 - ICI in the immediately preceding line of therapy

Atezolizumab 1200 mg IV q3w + Cabozantinib 60 mg daily PO Cabozantinib 60 mg daily PO Cabozantinib 60 mg daily PO

Stratification factors

IMDC risk group

0 vs 1-2 vs ≥3

Histology

Dominant clear cell without sarcomatoid vs dominant non-clear cell without sarcomatoid vs any sarcomatoid^b

Most recent line of ICI

Adjuvant vs 1L vs 2L

Primary endpoints

- Independent centrally-assessed PFS^c
- · OS

Key secondary endpoints

- Investigator-assessed PFS^c
- ORR (per central review and per investigator)^c
- Duration of response (per central review and per investigator)^c
- Safety

ClinicalTrials.gov ID, NCT04338269. IMDC, International Metastatic RCC Database Consortium. Patients were enrolled between July 28, 2020 and December 27, 2021.

^a Papillary, chromophobe or unclassified (chromophobe requires sarcomatoid differentiation). ^b Clear cell or non-clear cell. ^c Assessed according to RECIST 1.1.





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Baseline demographics and characteristics

Characteristic	Atezo + Cabo (n=263)	Cabo (n=259)
Age, median (range), y	62 (20-85)	63 (18-89)
Male sex, n (%)	204 (77.6)	197 (76.1)
Race, n (%)		
White	219 (83.3)	213 (82.2)
Asian	33 (12.5)	23 (8.9)
Other	11 (4.2)	23 (8.9)
Most recent line of immune checkpoint inhibitor therapy, n (%) ^a		
Adjuvant	1 (0.4)	1 (0.4)
Locally advanced or metastatic; first line	144 (54.8)	132 (51.0)
Locally advanced or metastatic; second line	118 (44.9)	124 (47.9)
Histology, n (%) ^b		3,540
Dominant clear cell without sarcomatoid	207 (78.7)	200 (77.2)
Dominant non-clear cell without sarcomatoid	30 (11.4)	31 (12.0)
Any sarcomatoid	25 (9.5)	28 (10.8)
IMDC score, n (%) ^c		
0	49 (18.6)	69 (26.6)
1-2	172 (65.4)	153 (59.1)
≥3	41 (15.6)	36 (13.9)
Prior VEGFR-TKI use, n (%)		
0	93 (35.4)	95 (36.7)
1	166 (63.1)	159 (61.4)
2	4 (1.5)	5 (1.9)

a In the Cabo arm, 2 patients had no most recent ICI. In the Atezo + Cabo arm, 1 patient had missing histology. In each arm, there was 1 patient with missing IMDC score.





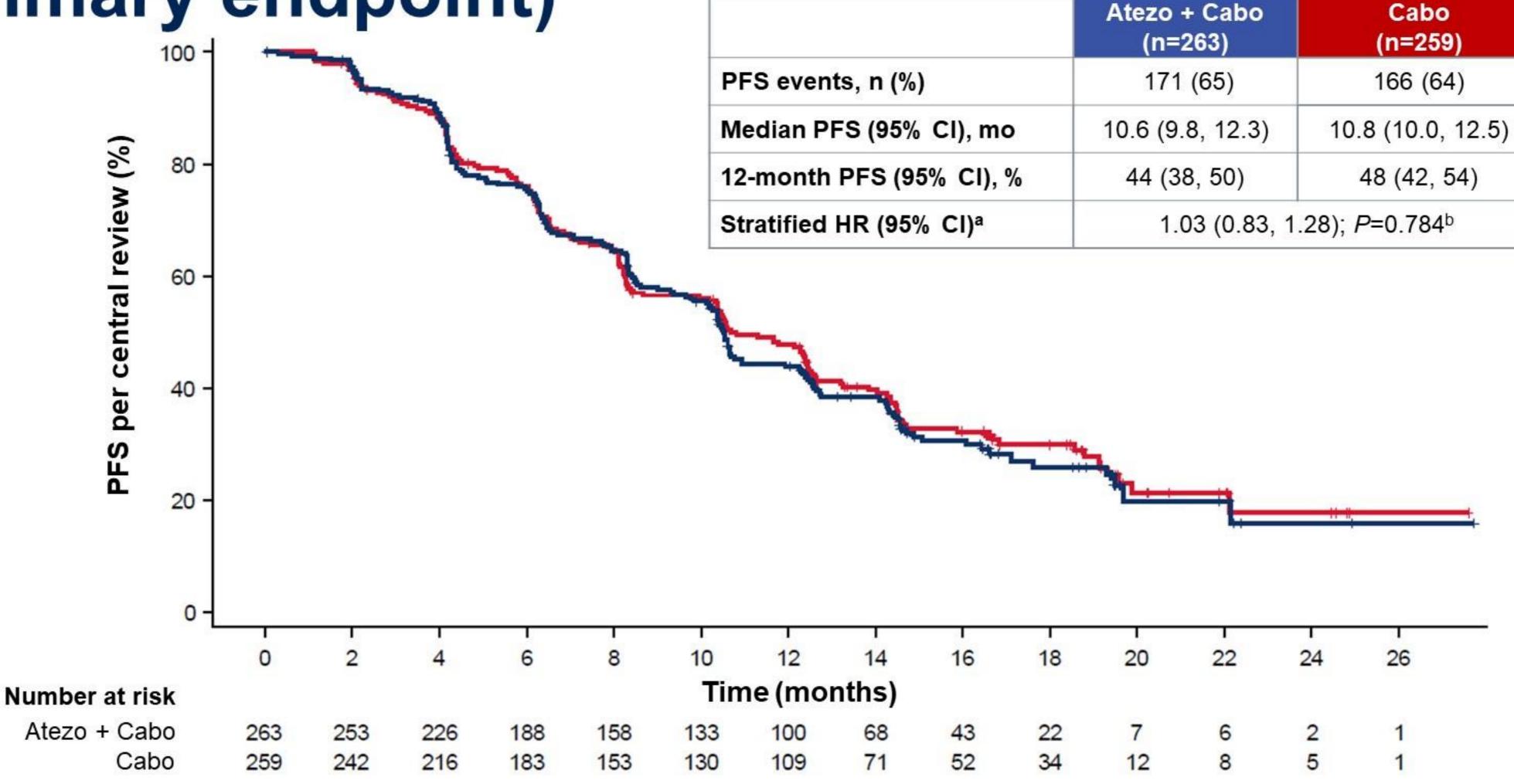
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Primary analysis of centrally reviewed PFS

(primary endpoint)



a Stratified for IMDC risk group. b Not significant at α=0.02.





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Centrally reviewed PFS by subgroup

	Atezo -	- Cabo	Cab	0		
Characteristica	No. of PFS events/patients	Median PFS, mo	No. of PFS events/patients	Median PFS, mo		PFS HR (95% CI)b
All patients	171/263	10.5	166/259	10.8		1.04 (0.84, 1.29)
Age						
<65 y	104/153	10.4	96/144	10.6	<u>-</u>	1.03 (0.78, 1.36)
≥65 y	67/110	10.6	115/225	12.1		1.06 (0.76, 1.49)
Sex						
Male	130/204	10.6	197/401	10.6		0.98 (0.77, 1.26)
Female	41/59	10.1	62/121	12.4	-	1.34 (0.86, 2.10)
Most recent ICI therapy						
First line	98/144	9.9	87/132	10.3		1.04 (0.77, 1.38)
Second line	72/118	12.4	77/124	12.5	-	1.05 (0.76, 1.45)
Histology			GOOD CONTRACTOR OF THE CONTRAC			Control September Section 1 (1997) Secti
Dominant clear cell	128/207	10.7	117/200	12.5		1.09 (0.84, 1.40)
Dominant non-clear cell	25/30	6.3	27/31	8.3		1.02 (0.59, 1.77)
Any sarcomatoid component	18/25	8.3	22/28	8.2		1.04 (0.55, 1.97)
IMDC score						
0	25/49	14.3	34/69	14.5	-	1.10 (0.65, 1.85)
1-2	109/172	10.8	104/153	11.7	-	0.86 (0.66, 1.13)
3-6	36/41	4.9	28/36	6.0	-	1.33 (0.80, 2.20)
Prior lines of VEGFR-TKI						
0	61/93	9.7	60/95	10.4		1.02 (0.71, 1.46)
1	107/166	10.6	102/159	11.7		1.06 (0.80, 1.39)
2	3/4	6.7	4/5	11.3		1.64 (0.36, 7.47)
Best response to most recent ICI						
CR/PR	25/47	11.9	16/30	10.4	<u>●</u>	0.76 (0.40, 1.43)
SD	70/104	10.5	65/97	10.5		1.18 (0.84, 1.65)
PD	63/92	10.4	63/95	10.6		1.01 (0.71, 1.43)
CR, complete response; PD, progressive a Categories with ≤2 patients are not sho		onse; SD, stable dise	ase.	0.3 Atezo -	+ Cabo better Cabo bette	3.0 er



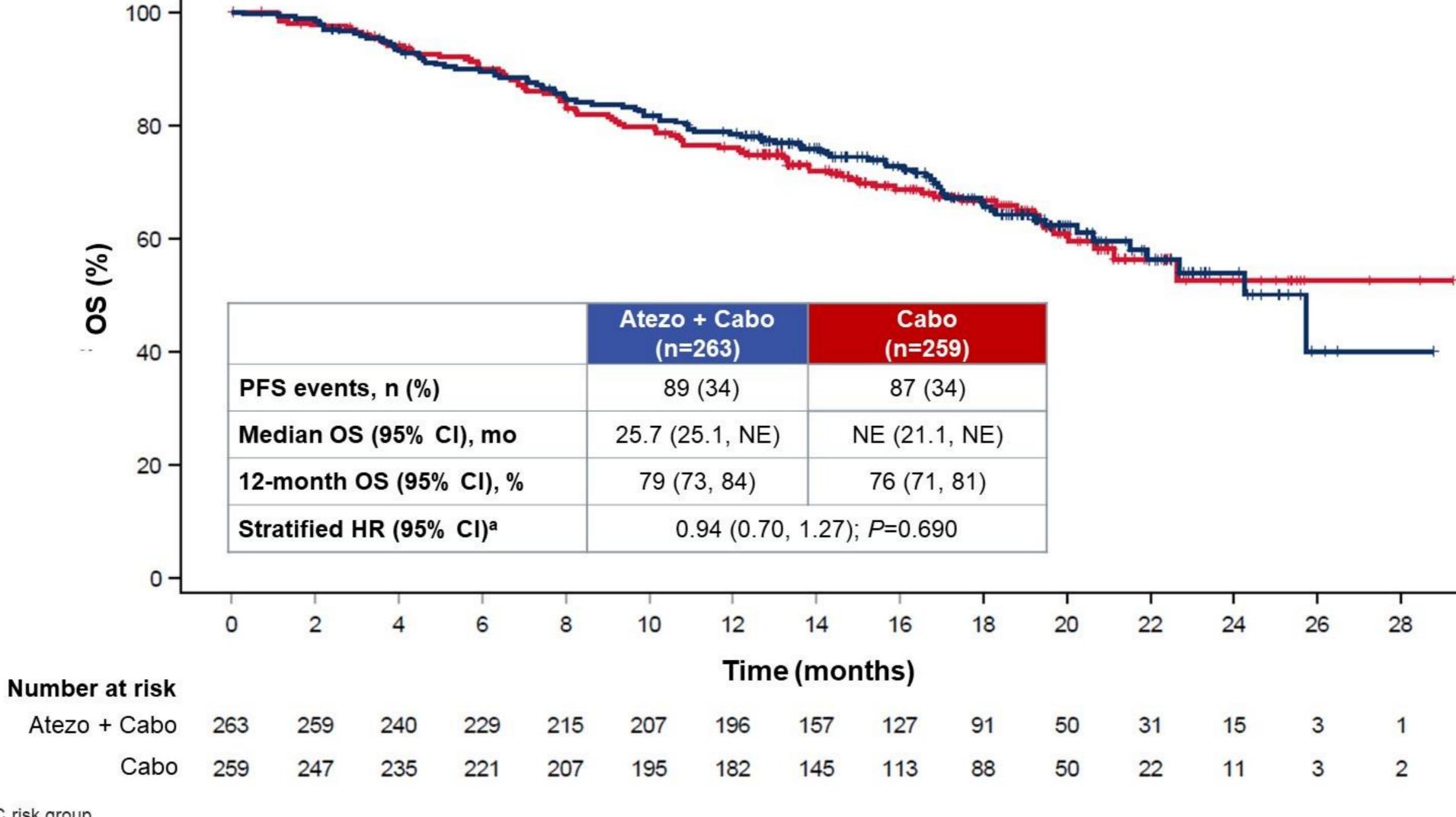


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Interim analysis of OS (primary endpoint)



^a Stratified for IMDC risk group.





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Safety summary

Adverse event, n (%)	Atezo + Cabo (n=262)	Cabo (n=256)
Any-cause AE	262 (100)	254 (99.2)
Any-cause treatment-related AE	252 (96.2)	249 (97.3)
Grade 3 or 4 AE	177 (67.6)	158 (61.7)
Grade 3 or 4 treatment-related AE	145 (55.3)	121 (47.3)
Death due to AE	17 (6.5)	9 (3.5)
Death due to treatment-related AE	3 (1.1) ^a	0
Serious AE	126 (48.1)	84 (32.8)
Serious treatment-related AE	63 (24.0)	30 (11.7)
AE leading to withdrawal from a trial drug	41 (15.6)	10 (3.9)
AE leading to withdrawal from atezo	29 (11.1)	
AE leading to withdrawal from cabo	25 (9.5)	10 (3.9)
AE leading to interruption or reduction of a trial drug	240 (91.6)	223 (87.1)
AE leading to interruption of atezob	159 (60.7)	-
AE leading to interruption or reduction of cabo	234 (89.3)	223 (87.1)

^a Treatment-related AEs leading to death were immune-mediated enterocolitis and renal failure (both related to atezo) and intestinal perforation (related to cabo). ^b Dose reduction of atezo was not permitted.





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Take Home Messages

- Lo studio CONTACT-03 non può stabilire in modo definitivo il ruolo del rechallenge dell'immunoterapia nel setting post-ICI
- Rimane da chiarire il ruolo di un rechallenge «delayed» e del trattamento ottimale dopo terapia adiuvante
- Debolezza del partner scelto per cabozantinib

GENITOURINARY CANCER: UROTHELIAL CARCINOMA

EARLY STAGE:

Regime chemioterapico peri-operatorio: Overall Survival (OS) data at 5 years in the GETUG/AFU V05 VESPER Trial

ADVANCED DISEASE:

· Terapie target: Primary analysis of phase III THOR study

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Trial design (1)

Chemotherapy

➤ 4 cycles of GC Gemcitabine 1250 mg/m² d1 and d8
Cisplatin 70 mg/m² d1

every 3 weeks

➢ 6 cycles of ddMVAC Methotrexate 30 mg/m² d1

Vinblastine 3 mg/m² d2

Doxorubicin 30 mg/m² d2

Cisplatin 70 mg/m² d2

+ G-CSF support from d3 to d9

every 2 weeks







Trial design (2)

Inclusion criteria

- > Pure or mixed urothelial bladder cancer (neuroendocrine excluded)
- ECOG PS < 2 and all criteria for cisplatin eligibility</p>
- Written informed consent

AND

- > ≥ T2, N0 (LN ≤ 10 mm on CT scan), M0 (Neoadjuvant CT)
- > pT2 or pN+ and M0 (Adjuvant CT)









Trial design (3)

500 patients included in 28 centers from 2013 to 2018

(493 patients available for intent-to-treat analysis)

- Adjuvant (n=56) and Neoadjuvant (n=437) (88%)
- Primary end-point: Progression Free Survival at 3 years
- Final analysis: Overall and Specific Survival at 5 years

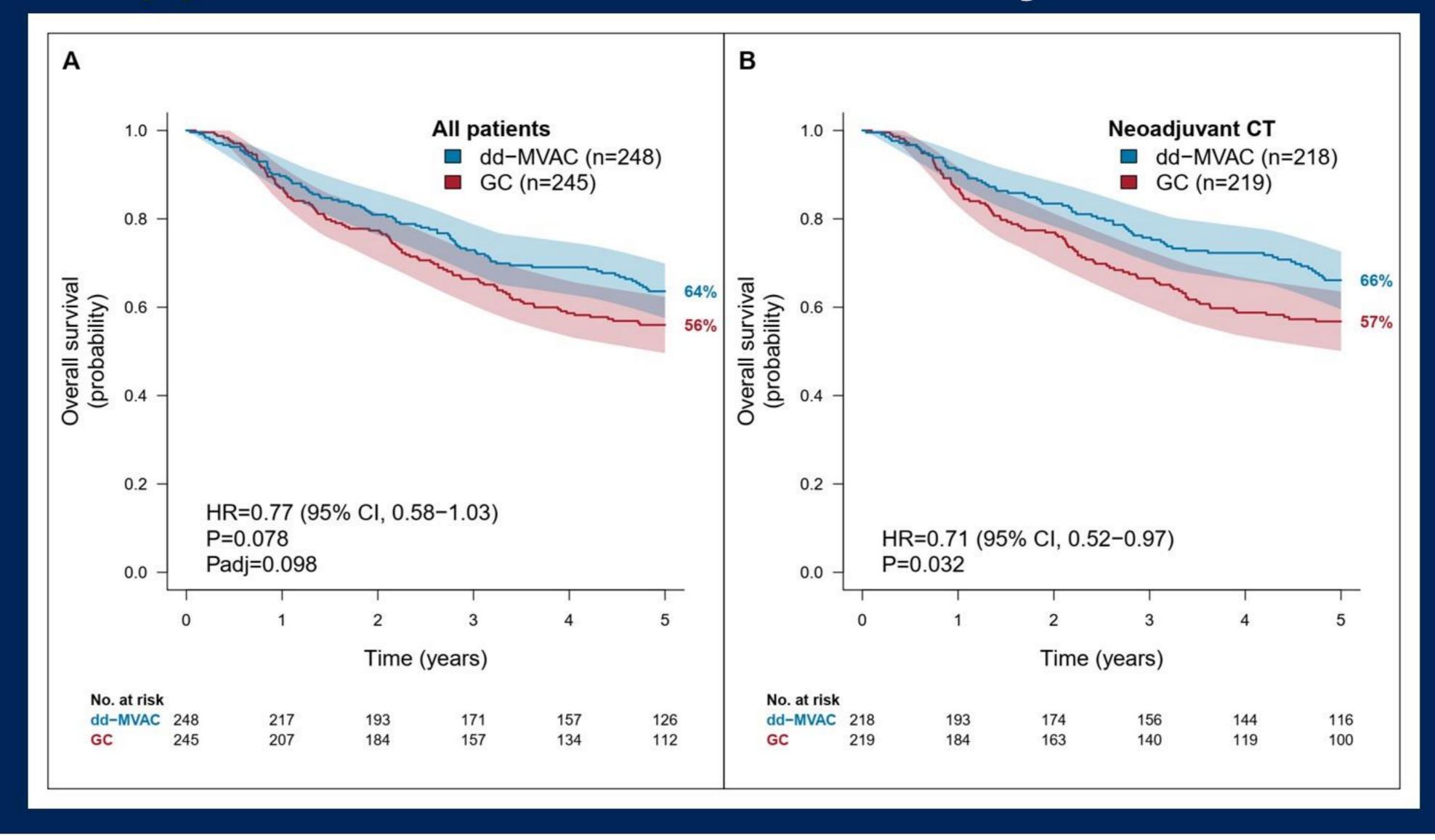






Results (1)

Overall Survival at 5 years





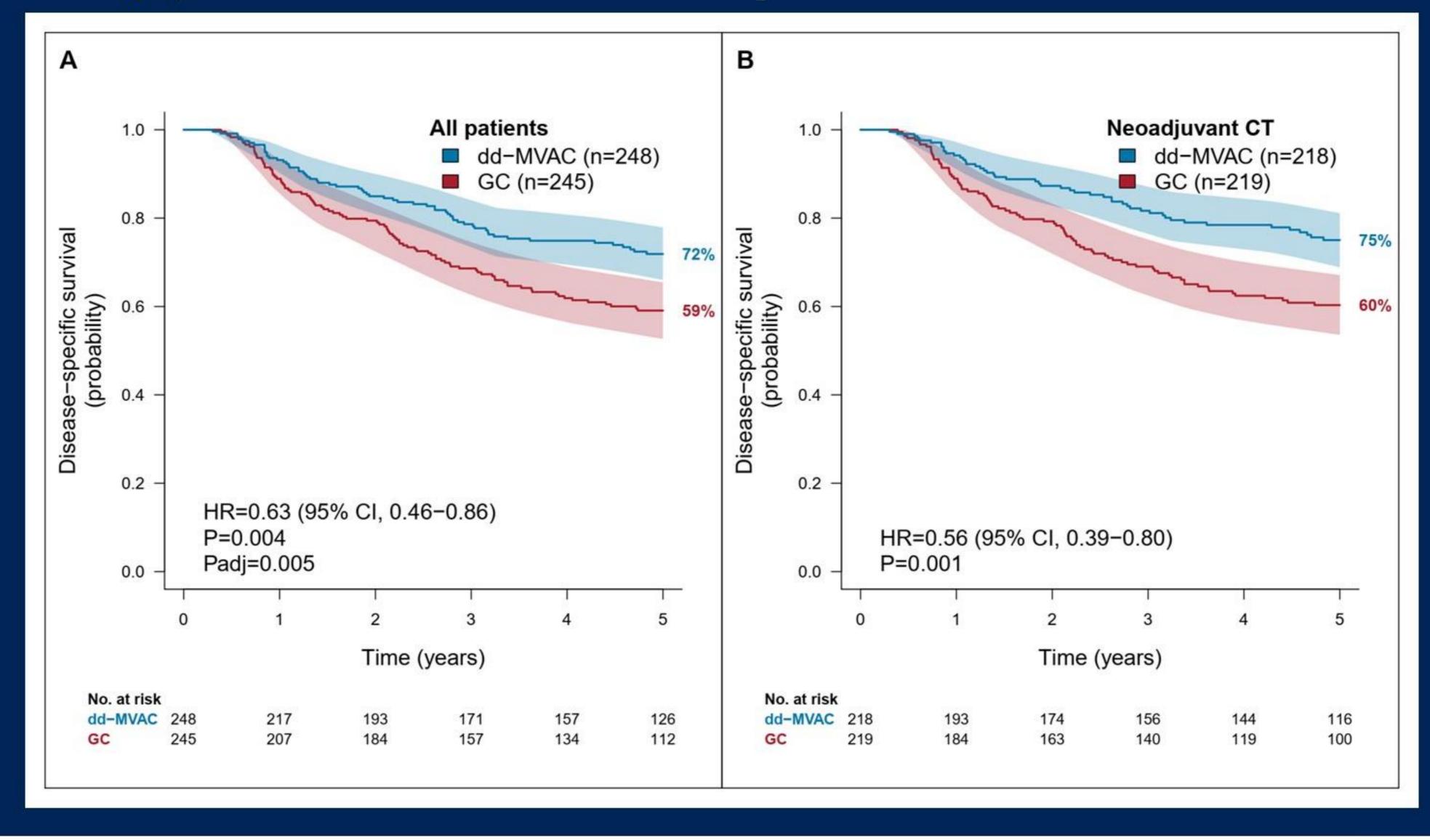






Results (2)

Disease-specific Survival











Results (5)

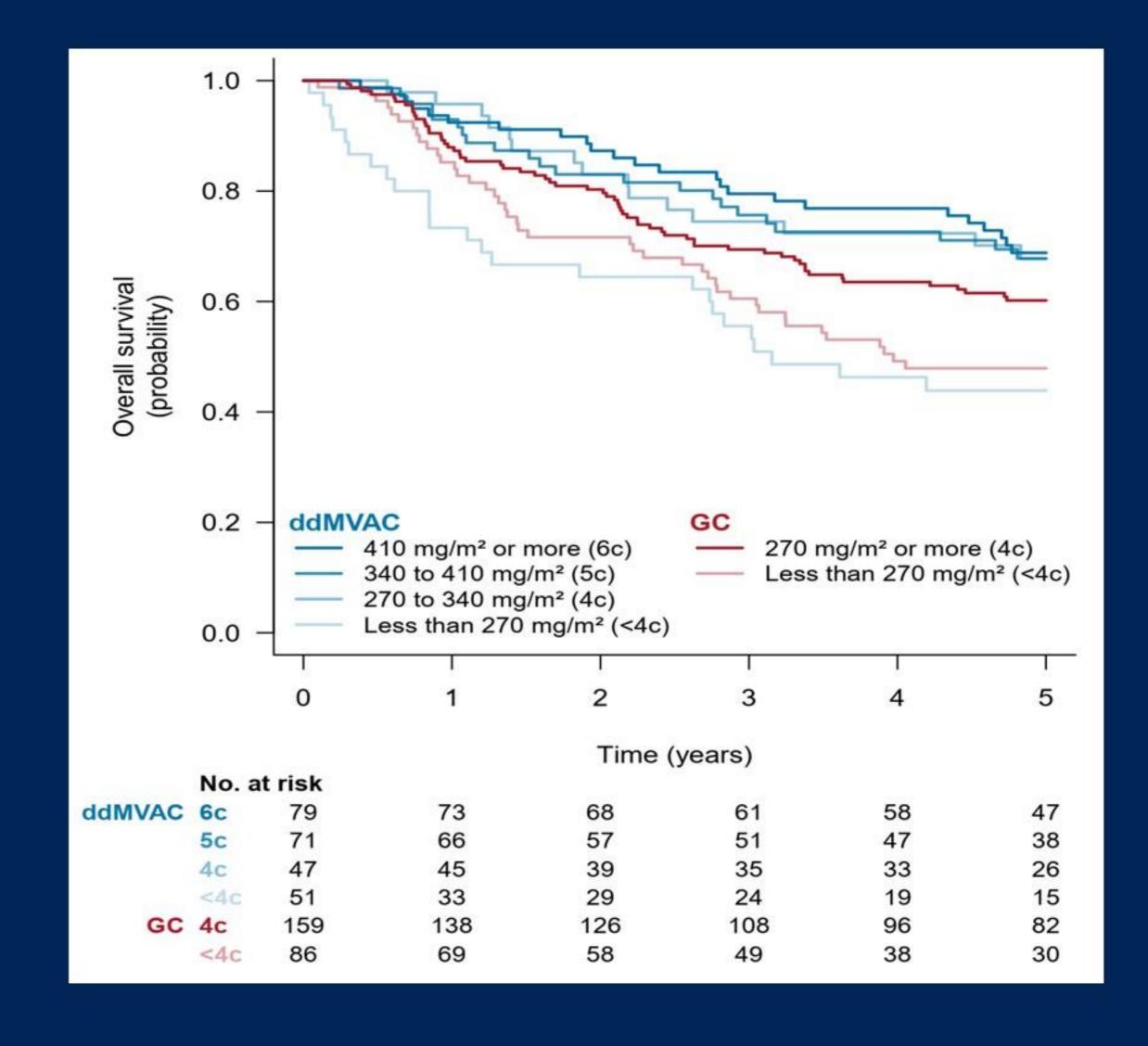
OS stratified by CT arm and number of cycles delivered

Importance of <u>cumulative cisplatin dose</u>

Poor OS < 4 full doses cisplatin

Median OS GC arm 4 full doses cisplatin

High OS dd-MVAC arm > 4 full doses cisplatin











Take Home Messages

- Ruolo CENTRALE della chemioterapia neoadiuvante con l'obiettivo di raggiungere un valido surrogato della sopravvivenza: la risposta patologica completa
- La dose cumulativa di cisplatino rappresenta un fattore rilevante che impatta sulla sopravvivenza

4 o 6 dosi di ddMVAC?

GENITOURINARY CANCER: UROTHELIAL CARCINOMA

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Regime chemioterapico peri-operatorio: Overall Survival (OS) data at 5 years in the GETUG/AFU V05 VESPER Trial

ADVANCED DISEASE:

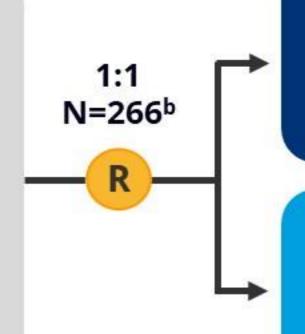
• Terapie target: Primary analysis of phase III THOR study

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

Cohort 1

Key eligibility criteria

- Age ≥18 years
- Metastatic or unresectable UC
- Confirmed disease progression
- · Prior tx with anti-PD-(L)1
- 1-2 lines of systemic tx
- Select FGFR3/2alt (mutation/fusion)^a
- ECOG PS 0-2



Erdafitinib (n=136)

Once-daily erdafitinib 8 mg with pharmacodynamically guided uptitration to 9 mg

Chemotherapy of Choice (n=130)

docetaxel or vinflunine once every 3 weeks

Stratification factors: region (North America vs European Union vs rest of world), ECOG PS (0 or 1 vs 2), and disease distribution (presence vs absence of visceral [lung, liver, or bone] metastases)

Primary end point:

OS

Key secondary end points:

- PFS
- ORR
- Safety

NCT03390504



aMolecular 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, FGFR2-CASP7, 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.

Demographics and Disease Characteristics

Characteristic	Erdafitinib (n=136)	Chemotherapy (n=130)
Age, median (range), years	66 (32-85)	69 (35-86)
Men, n (%)	96 (70.6)	94 (72.3)
Race, n (%)		
White	81 (59.6)	63 (48.5)
Asian	37 (27.2)	40 (30.8)
Black or African American	0	1 (0.8)
Multiple	0	1 (0.8)
Not reported	18 (13.2)	25 (19.2)
Presence of visceral metastases, n (%)	101 (74.3)	97 (74.6)
Liver	31 (22.8)	38 (29.2)

	Characteristic	Erdafitinib (n=136)	Chemotherapy (n=130)
	ECOG PS 0-1, n (%)	124 (91.2)	117 (90)
	Primary tumor upper tract, n (%)	41 (30.1)	48 (36.9)
	PD-L1 low (CPS <10), n (%)	89 (92.7) ^a	68 (86.1) ^a
	<i>FGFRalt</i> , n (%) ^b	(n=135)	(n=129)
	Mutations	108 (79.4)	107 (82.3)
	Fusions	25 (18.4)	19 (14.6)
	Mutations and fusions	2 (1.5)	3 (2.3)
	Prior lines of systemic therapy ^c		
	1 line	45 (33.1)	33 (25.4)
	2 lines	90 (66.2)	97 (74.6)

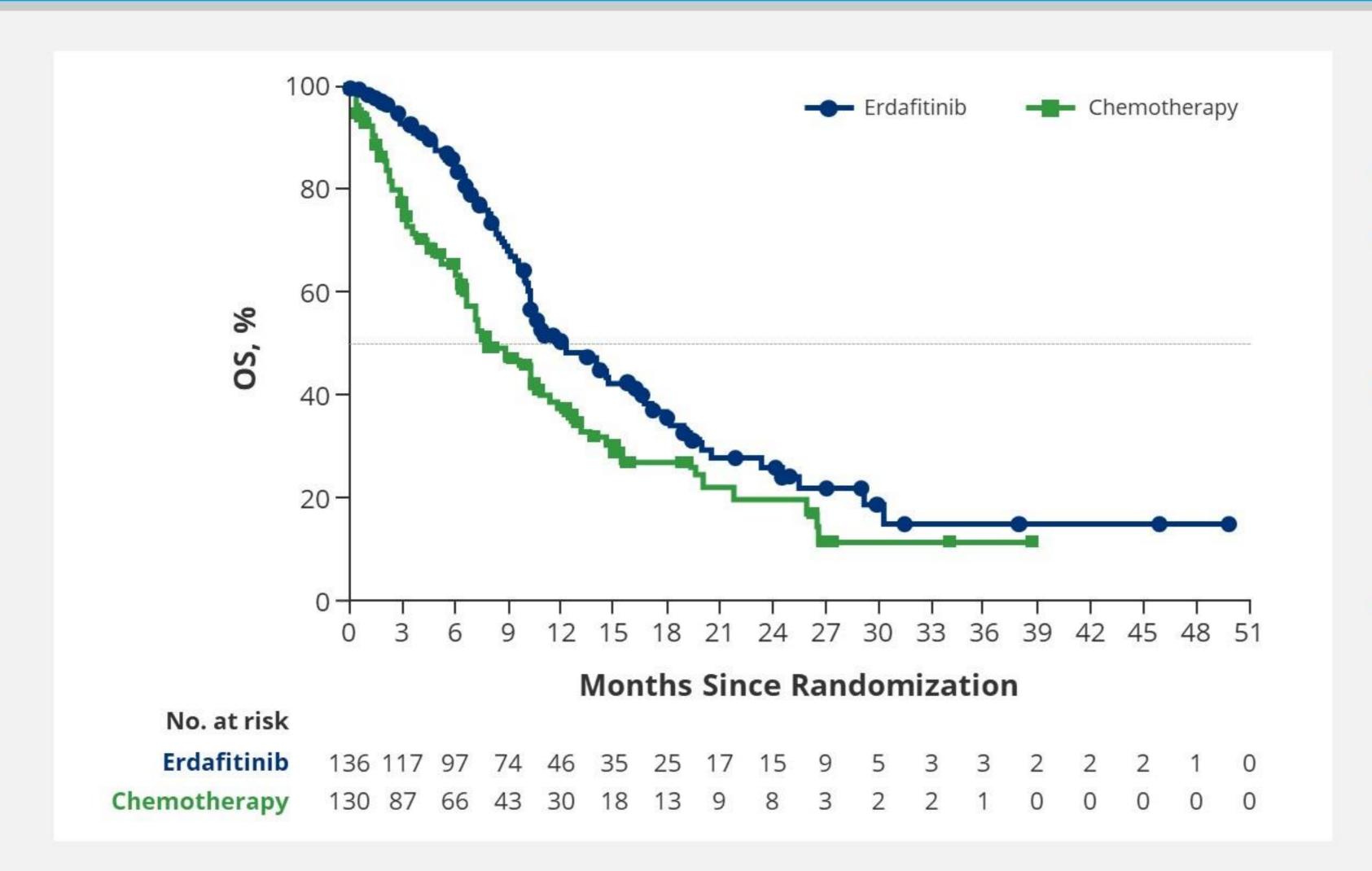
Patient baseline characteristics were generally balanced between treatment arms



^aFor PD-L1 status, percentage is based on patients with available data (n=96 for erdafitinib and n=79 for chemotherapy). ^bAll patients enrolled had *FGFR3alt*. 2 patients were subsequently identified as false positives; they were included in the intent-to-treat population. ^c1 patient in the erdafitinib group had 3 prior lines of systemic therapy.

CPS, combined positive score; ECOG PS, Eastern Coopérative Oncology Group performance status; FGFRalt, FGFR alterations; PD-L1, programmed death-ligand 1.

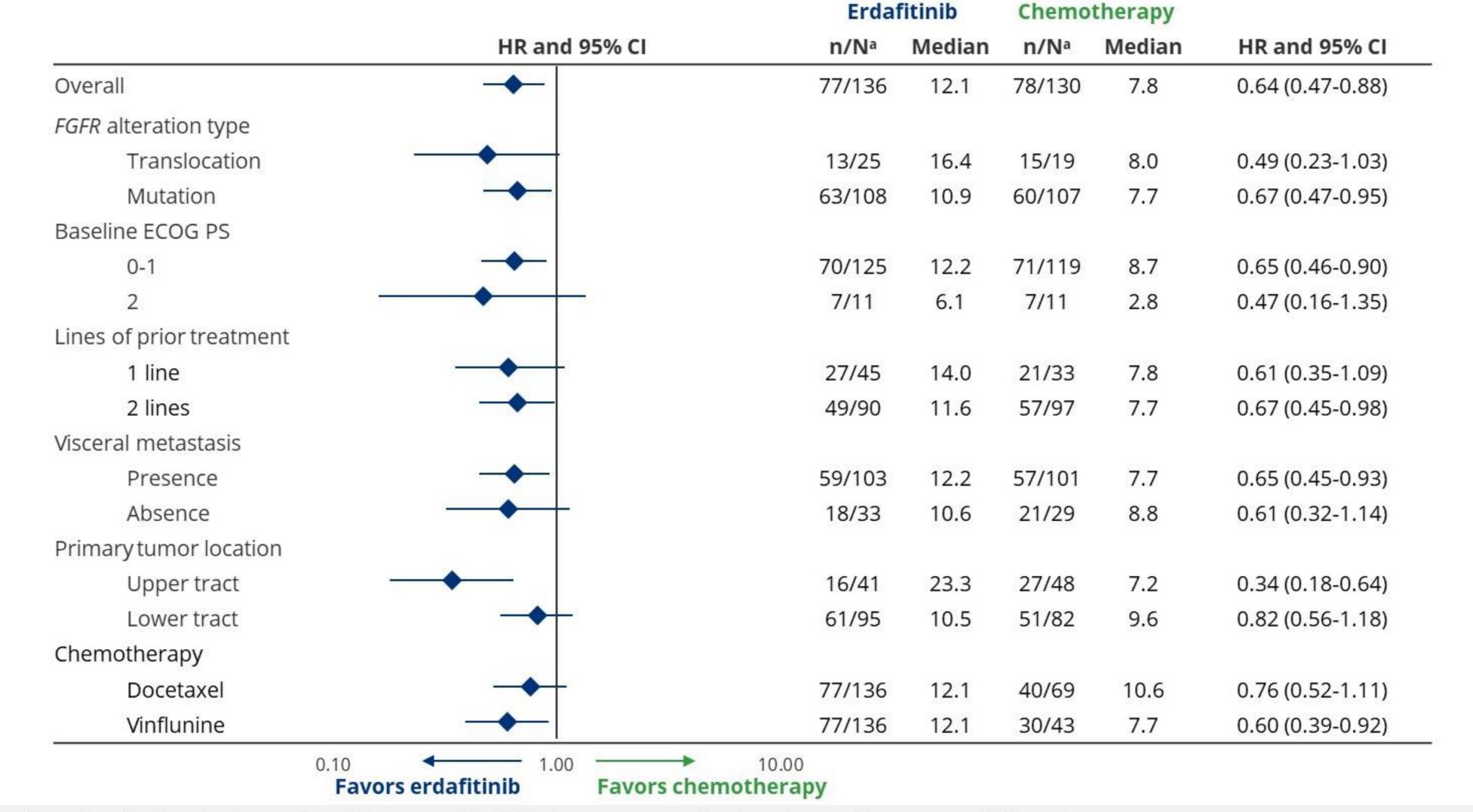
Overall Survival for Erdafitinib Was Superior to Investigator's Choice of Chemotherapy



- 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



Overall Survival Benefit With Erdafitinib Versus Chemotherapy Was Consistently Observed Across Subgroups





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

Patients with AEs,	Erdafitinib (n=135)		
n (%) ^a	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		

In the erdafitinib group:

- 18 patients (13.3%) had treatmentrelated serious AEs
- 1 treatment-related death occurred^c
- AEs with erdafitinib were mostly manageable with dose modifications and supportive care

In the chemotherapy group:

- 27 patients (24.1%) had treatmentrelated serious AEs
- 6 treatment-related deaths occurred^d

Patients with AEs,	Chemotherapy (n=112)		
n (%) ^e	Any grade	Grade 3-4	
≥1 treatment-related AE	97 (86.6)	52 (46.4)	
Anemia	31 (27.7)	7 (6.3)	
Alopecia	24 (21.4)	0	
Nausea	22 (19.6)	2 (1.8)	
Neutropenia	21 (18.8)	15 (13.4)	
Leukopenia	13 (11.6)	9 (8.0)	
Febrile neutropenia	9 (8.0)	10 (8.9)	
Patients who discontinued study treatment, n (%)			
Discontinuation due to treatment-related AEs 15 (13.4)		3.4) ^f	

^aAEs by preferred term are listed if events of any grade occurred in ≥30% of patients in the erdafitinib group or if events of grade 3-4 occurred in ≥5% of patients.



bMost frequent treatment-related AEs leading to discontinuation of erdafitinib included eye disorders (3 patients) and skin and subcutaneous disorders (3 patients).

Treatment-related AE leading to death was reported as sudden death.

dTreatment-related AEs leading to death in the chemotherapy arm included febrile bone marrow aplasia (2 patients), febrile neutropenia (1 patient), septic shock (2 patients), and atypical pneumonia (1 patient).

eAEs by preferred term are listed if events of any grade occurred in ≥20% of patients in the chemotherapy group or if events of grade 3-4 occurred in ≥5% of patients.

Most frequent treatment-related AEs leading to discontinuation of chemotherapy included blood and lymphatic system disorders (5 patients) and infections and infestations (3 patients). AE, adverse event; PPE, palmar-plantar erythrodysesthesia.

Take Home Messages

- Primo studio randomizzato che ha confrontato una terapia target in pazienti molecolarmente selezionati
- Importanza di testare alterazioni di FGFR in una fase precoce della malattia metastatica, in modo da poter offrire una possibilità di terapia target a pazienti selezionati
- La valutazione del profilo di safety può aiutare ad ottimizzare la sequenza terapeutica alla luce dei dati provenienti dagli studi che hanno testato il ruolo degli anticorpi farmaco-coniugati (sacituzumab ed enfortumab)