

Metastatik Renal Kanserde Birinci Basamak Tedavi Seçenekleri

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Ders Planı

- ❑ Nivolumab ipilimumab uzun dönem sonuçları
- ❑ Pembrolizumab + Axitinib
- ❑ Nivolumab + Cabozantinib
- ❑ Lenvatinib + Pembrolizumab
- ❑ Metastatik RCC Birinci Basamak Tedavi Seçenekleri
Gelecek Perspektif
- ❑ Sonuç

Klinik ve Laboratuvar Parametrelere Göre Risk Sınıflandırılması

IMDC Risk Scoring System Entry Criteria

KPS <80%

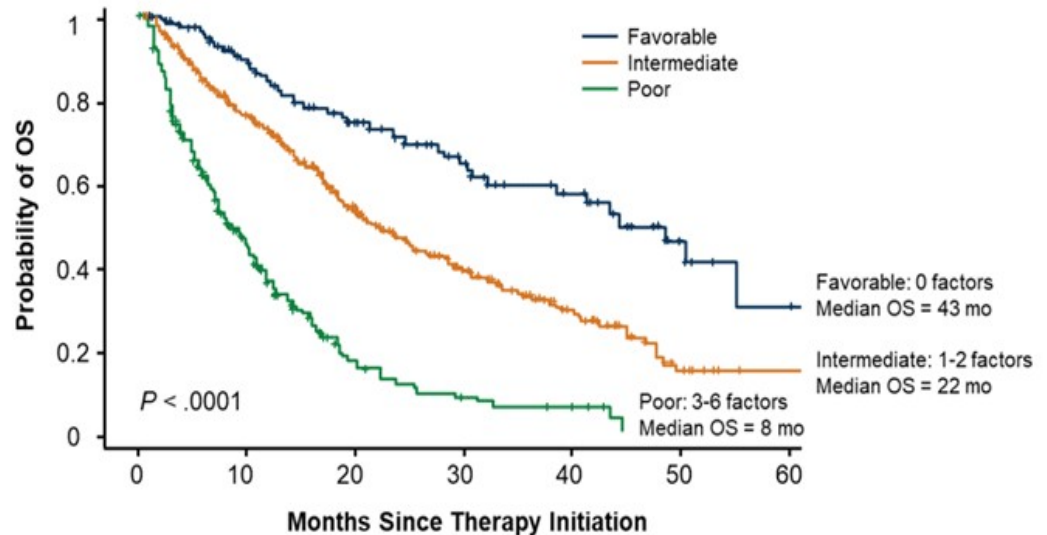
<1 y from time of diagnosis to systemic therapy

Hemoglobin <LLN
(normal: 120 g/L or 12 g/dL)

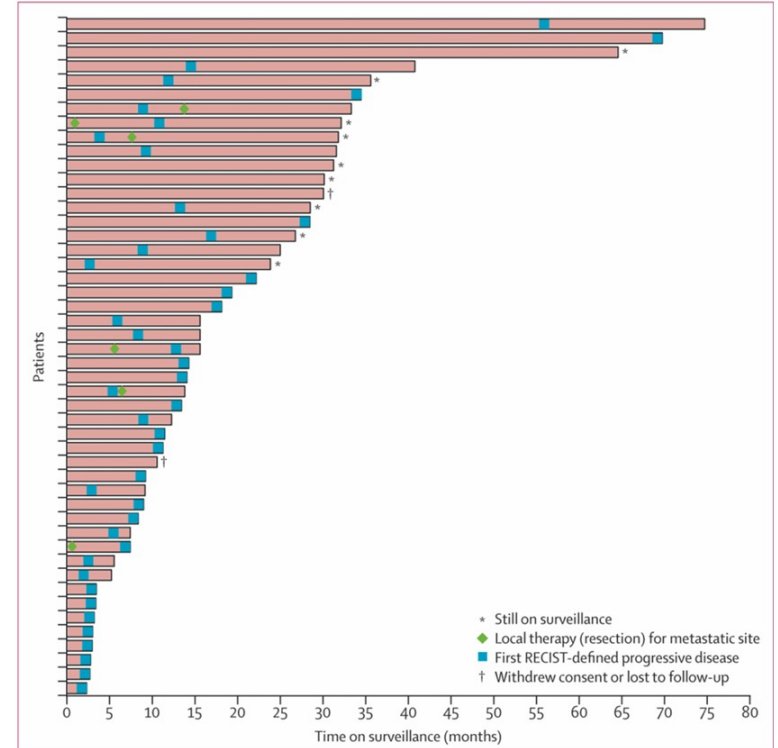
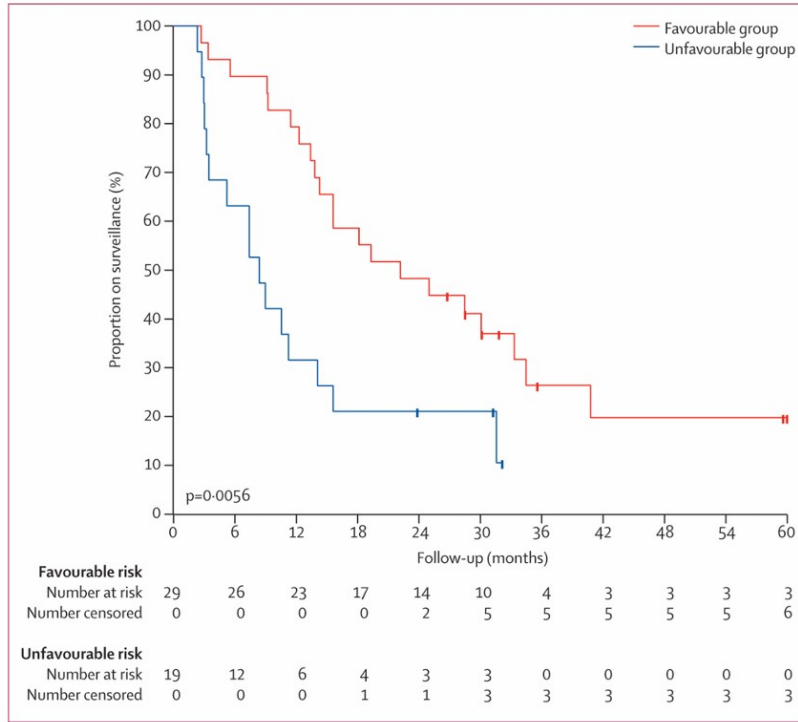
Calcium >ULN
(normal: 8.5-10.2 mg/dL)

Neutrophil >ULN
(normal: $2.0-7.0 \times 10^9/L$)

Platelets >ULN
(normal: 150,000-400,000)



Metastatik renal hücreli karsinomda aktif izlem



48 hastada sistemik tedavi başlanmasına kadar geçen medyan izlem süresi 14,9 ay.
IMDC skoru artıkça, metastaz sayısı artıkça sonuçlar ve akciğer dışı metastazlarda sonuçlar kötü.

Oligometastatik berrak hücreli renal hücreli karsinomda radyoterapi

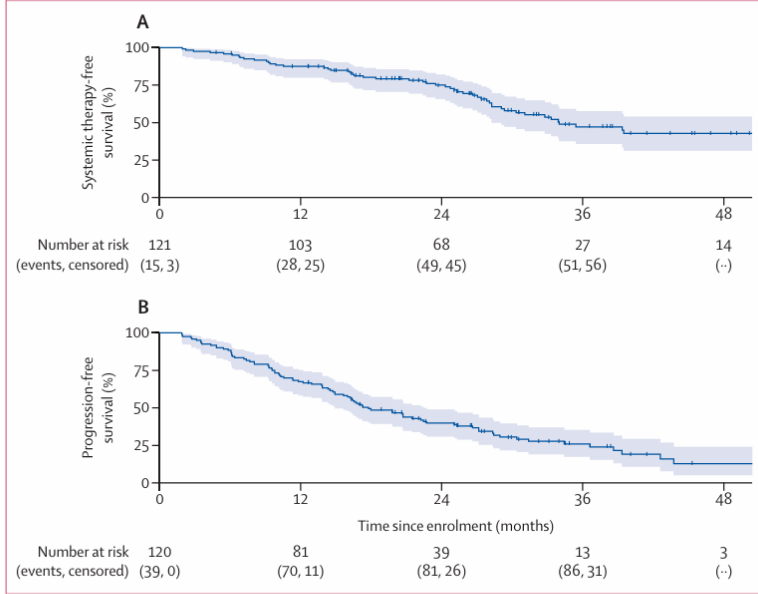


Figure 2: Primary outcomes of systemic therapy-free survival in the intention-to-treat population (n=121; A) and progression-free survival in the per-protocol population (n=120; B)
Vertical lines denote censored patients, and shading indicates 95% CIs.

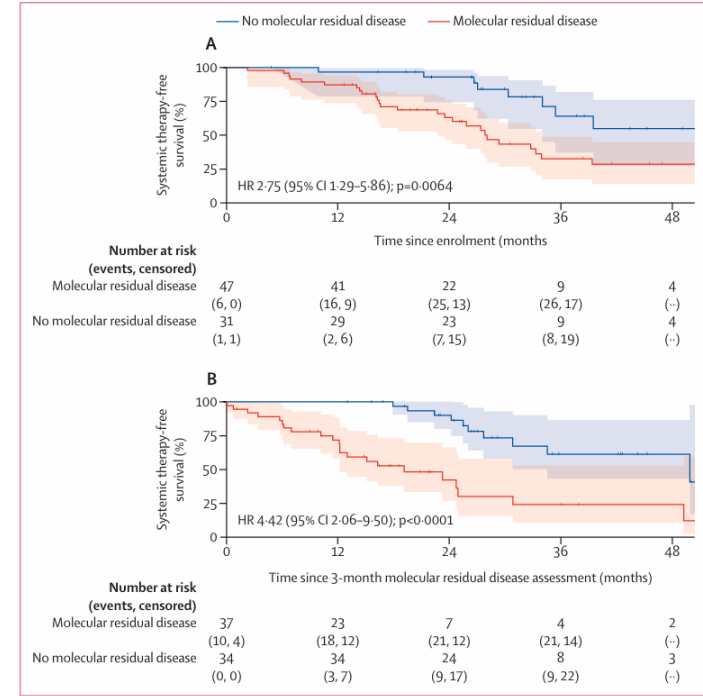
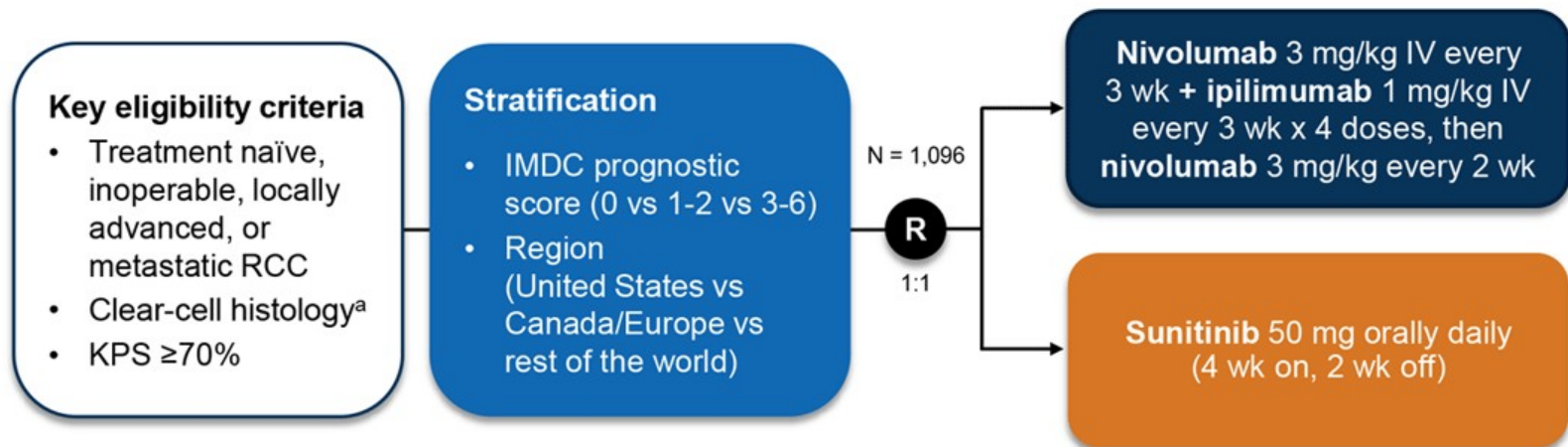


Figure 4: Circulating tumour DNA molecular residual disease association with systemic therapy-free survival at baseline (A) and 3-month follow-up (B)

Çalışmaya dahil edilen 121 hastanın %77 akciğer lenf nodu metastazı, medyan takip süresi 36,3 ay. Medyan progresyonsuz sağkalım 17,7 ay ve medyan sistemik tedavisiz sağkalım süresi ise 34,0 ay olarak bulundu. RT sonrası ctDNA negatif olanlar sonuçlar çok daha iyi.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

CheckMate -214: Nivolumab + Ipilimumab in Newly Diagnosed Advanced RCC^{1,2}



Endpoints

- **Copriamary:** PFS, OS, ORR (intermediate/poor risk)
- **Secondary:** PFS, OS, ORR (ITT)
- **Exploratory:** PFS, OS, ORR (favorable risk)

^a Approximately 70% of patients with RCC have this histology type.

1. <https://clinicaltrials.gov/ct2/show/NCT02231749>. 2. Motzer RJ et al. *Lancet Oncol.* 2019;20:1370-1385.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri Nivolumab + Ipilimumab

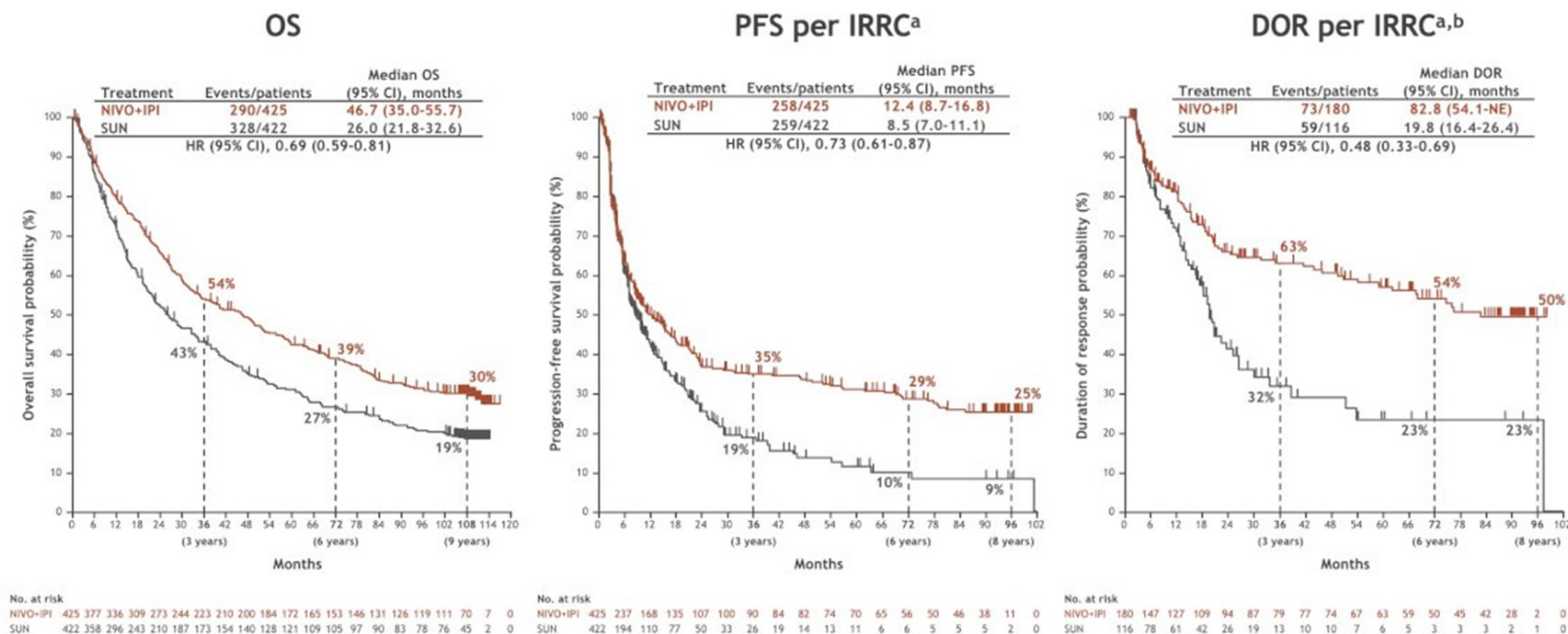
Characteristic ^a	ITT patients ^{1,2}		Patients with IMDC intermediate/poor risk ^{1,2}		Patients with IMDC favorable risk ^{1,2}	
	NIVO+IPI (N = 550)	SUN (N = 546)	NIVO+IPI (n = 425)	SUN (n = 422)	NIVO+IPI (n = 125)	SUN (n = 124)
IMDC prognostic score, %						
Favorable (0)	23	23	0	0	100	100
Intermediate (1-2)	61	61	79	79	0	0
Poor (3-6)	17	16	21	21	0	0
Geographic region, %						
Europe and Canada	37	36	35	35	42	43
United States	28	28	26	26	34	34
Rest of the world	35	36	39	39	24	23
Sarcomatoid features, %	14	12	17	15	2	2
Selected sites of metastasis, %						
Lung	69	68	69	70	70	62
Bone ^b	20	22	22	23	14	18
Liver	18	20	21	21	9	15

CheckMate 214, ASCO 2025

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Nivolumab + Ipilumumab

OS, PFS, and DOR in the IMDC intermediate/poor-risk population

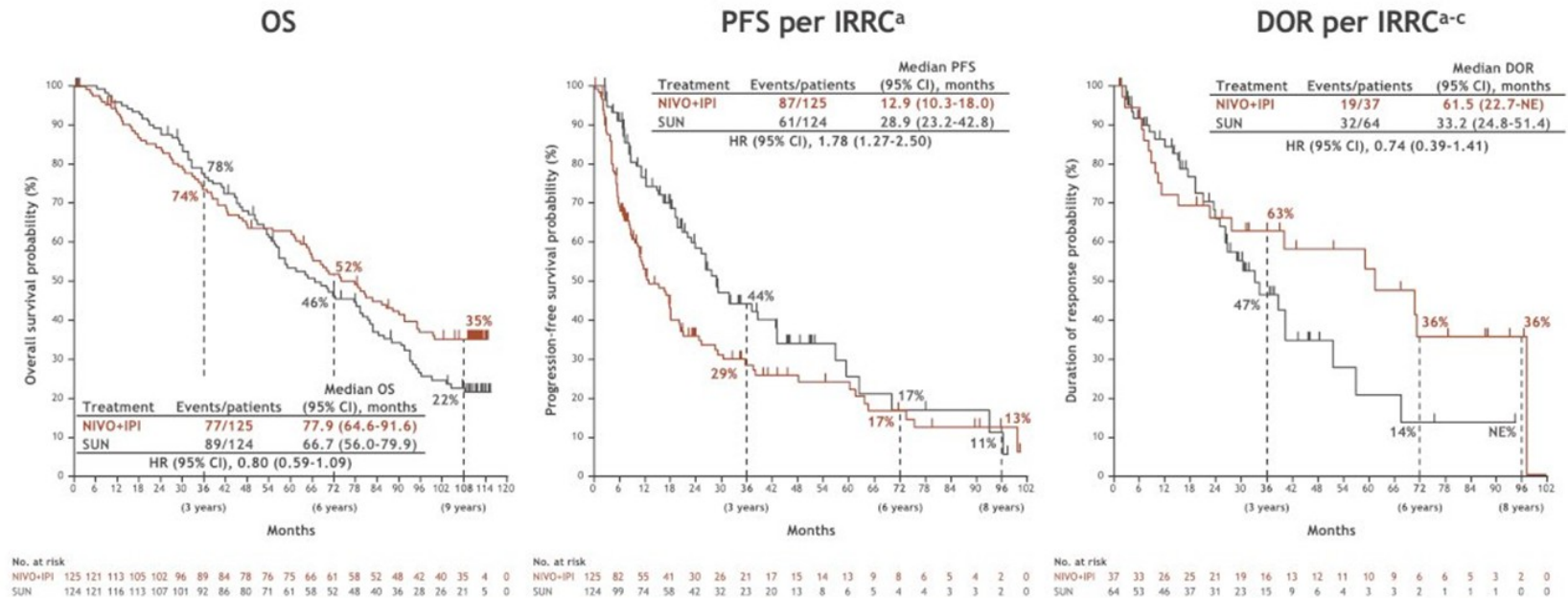


CheckMate 214, ASCO 2025

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Nivolumab + Ipilumumab

OS, PFS, and DOR in the IMDC favorable-risk population



- Long-term OS results in patients with IMDC favorable risk trended in favor of NIVO+IPI over SUN, with more durable responses^d

CheckMate 214, ASCO 2025

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

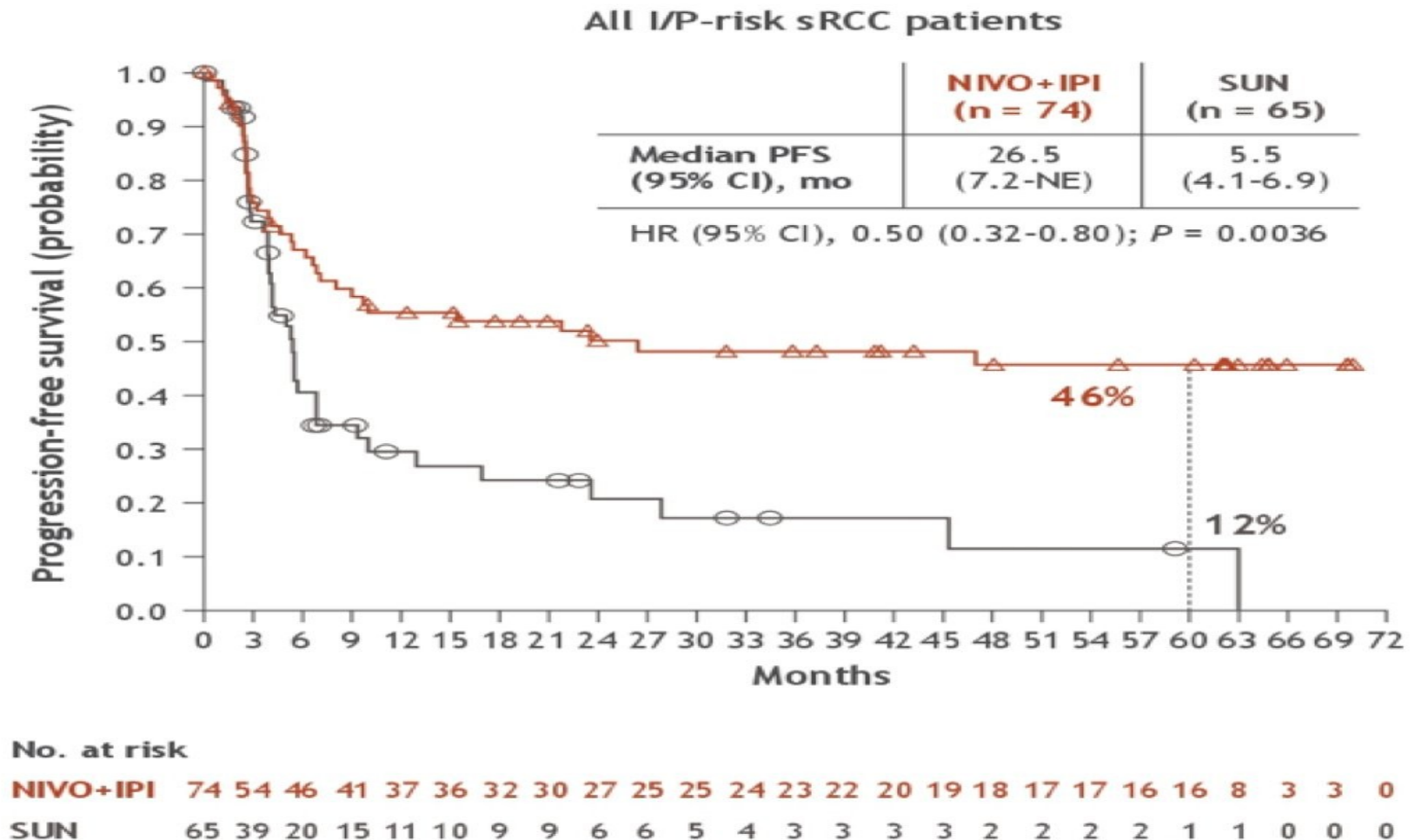
Nivolumab + Ipilimumab

CheckMate -214: 48-Month Response

	Intermediate/Poor-Risk		ITT		Favorable-Risk	
	NIVO + IPI (n = 425)	SUN (n = 422)	NIVO + IPI (n = 550)	SUN (n = 546)	NIVO + IPI (n = 125)	SUN (n = 124)
Confirmed ORR (95% CI), %	41.9 (37-47)	26.8 (23-31)	39.1 (35-43)	32.4 (29-37)	29.6 (22-38)	51.6 (43-61)
<i>P</i>	< .0001		.0134		.0005	
Best overall response, n (%)						
CR	44 (10.4)	6 (1.4)	59 (10.7)	14 (2.6)	15 (12.0)	8 (6.5)
PR	134 (31.5)	107 (25.4)	156 (28.4)	163 (29.9)	22 (17.6)	56 (45.2)
SD	131 (30.8)	187 (44.3)	198 (36.0)	230 (42.1)	67 (53.6)	43 (34.7)
PD	82 (19.3)	71 (16.8)	97 (17.6)	77 (14.1)	15 (12.0)	6 (4.8)
NE	32 (7.5)	48 (11.4)	38 (6.9)	57 (10.4)	6 (4.8)	9 (7.3)
NR	2 (0.5)	3 (0.7)	2 (0.4)	5 (0.9)	0	2 (1.6)
Ongoing response, n (%)	n = 178 116 (65.2)	n = 113 56 (49.6)	n = 215 140 (65.1)	n = 177 92 (52.0)	n = 37 24 (64.9)	n = 64 34 (56.3)

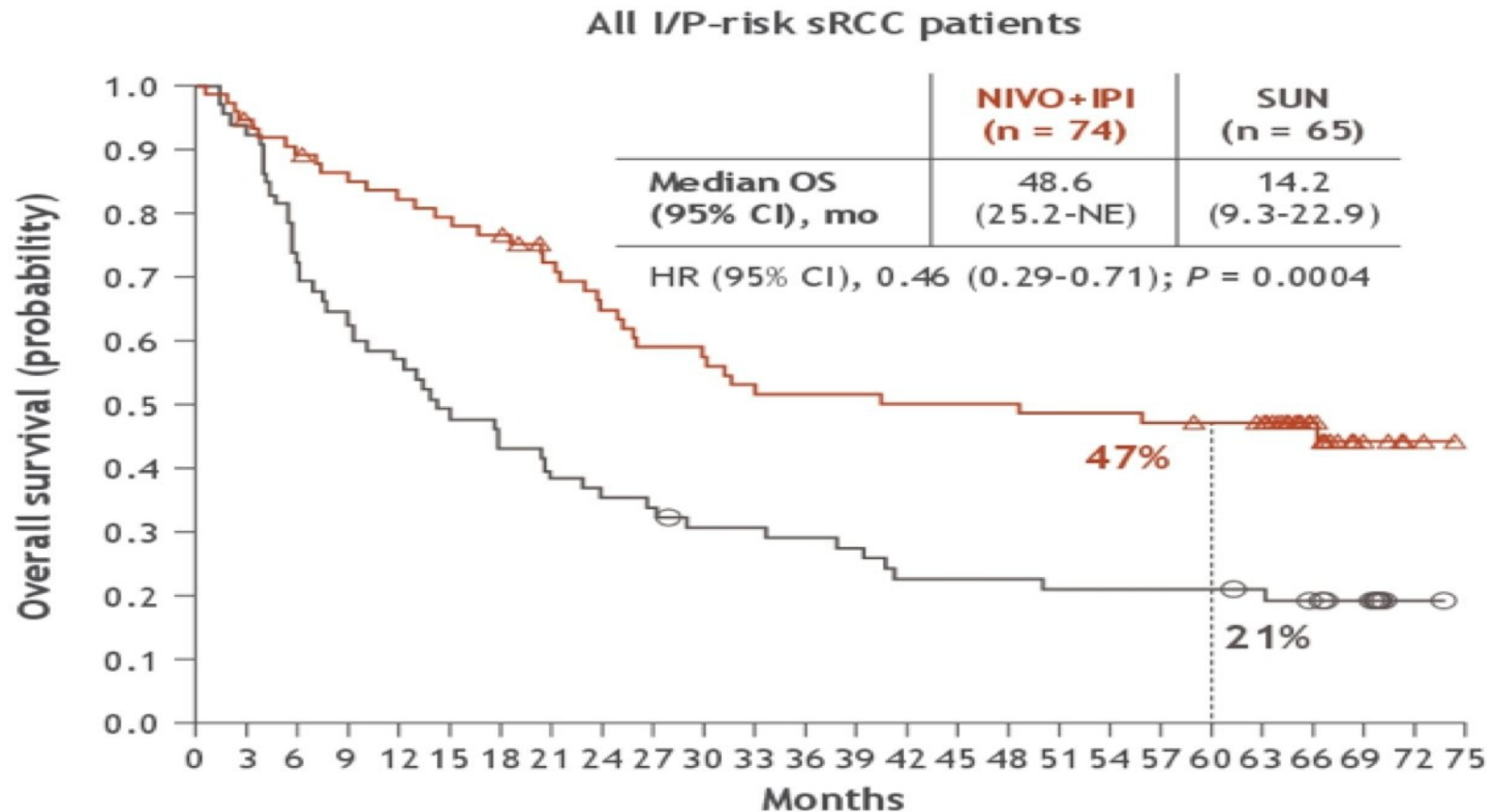
Metastatik RCC /sarkomatoid diferansiasyon

Nivolumab + Ipilimumab



Metastatik RCC /sarkomatoid diferansiasyon

Nivolumab + Ipilimumab



No. at risk

NIVO+IPI	74	69	65	61	59	57	55	49	44	40	39	36	35	35	34	34	34	33	33	32	31	30	17	5	2	0
SUN	65	60	47	41	37	31	28	25	23	22	19	19	18	17	14	14	14	13	13	13	13	12	10	7	1	0

Metastatik RCC /sarkomatoid diferansiasyon

Nivolumab + Ipilimumab

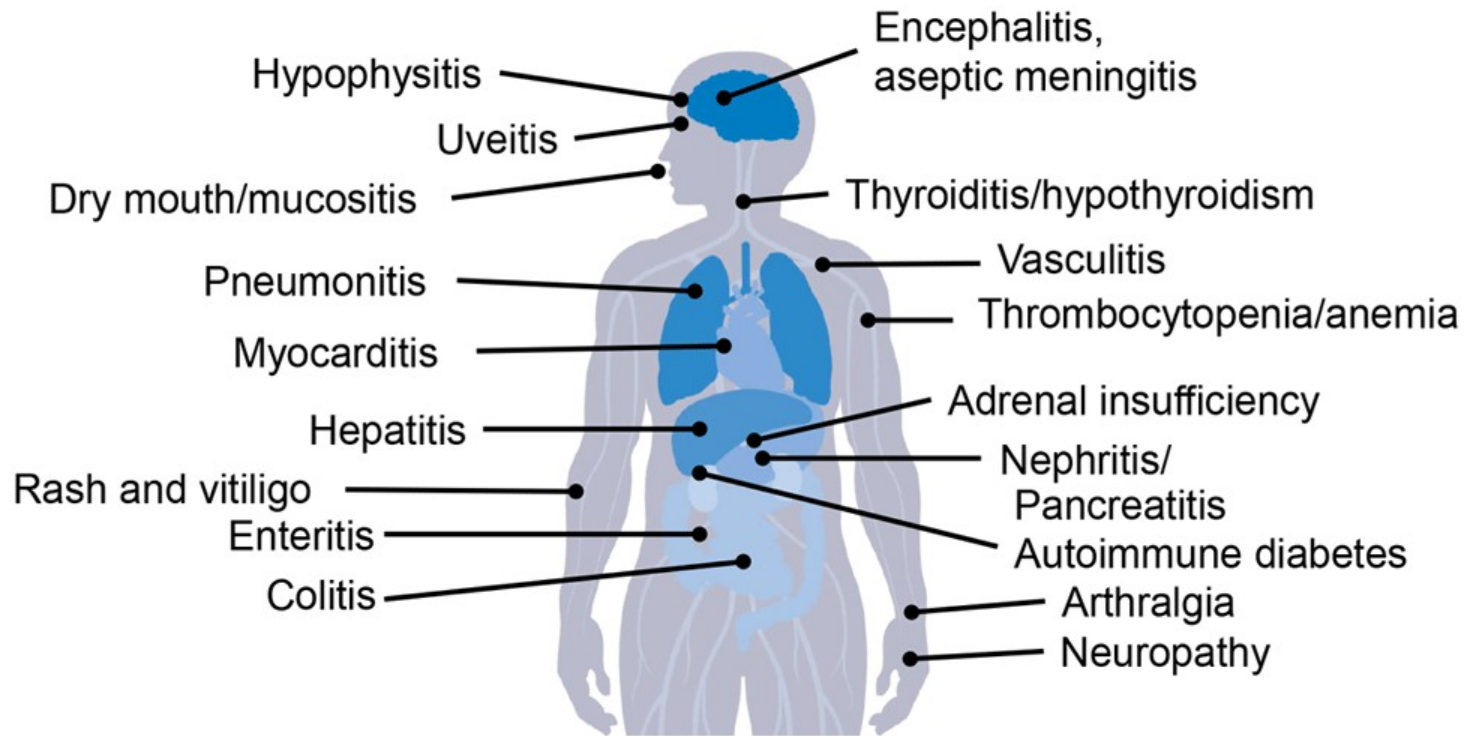
	Patients with I/P risk sRCC	
	NIVO+IPI (n = 74)	SUN (n = 65)
Confirmed ORR (95% CI), %	60.8 (48.8-72.0)	23.1 (13.5-35.2)
<i>P</i> value	<i>P</i> < 0.0001	
Best overall response, n (%)		
Complete response	17 (23.0)	4 (6.2)
Partial response	28 (37.8)	11 (16.9)
Stable disease	8 (10.8)	28 (43.1)
Progressive disease	15 (20.3)	13 (20.0)
Unable to determine/not reported	6 (8.1)	9 (13.8)

Tannir N, Clin Cancer Res. 2021

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

İmmünoterapi/Toksisite

The Constellation of irAEs



Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Nivolumab + Ipilimumab

AE: Ipi + Nivo

Common

- Fatigue
- Pruritis
- Rash
- Diarrhea
- Decreased appetite

Serious

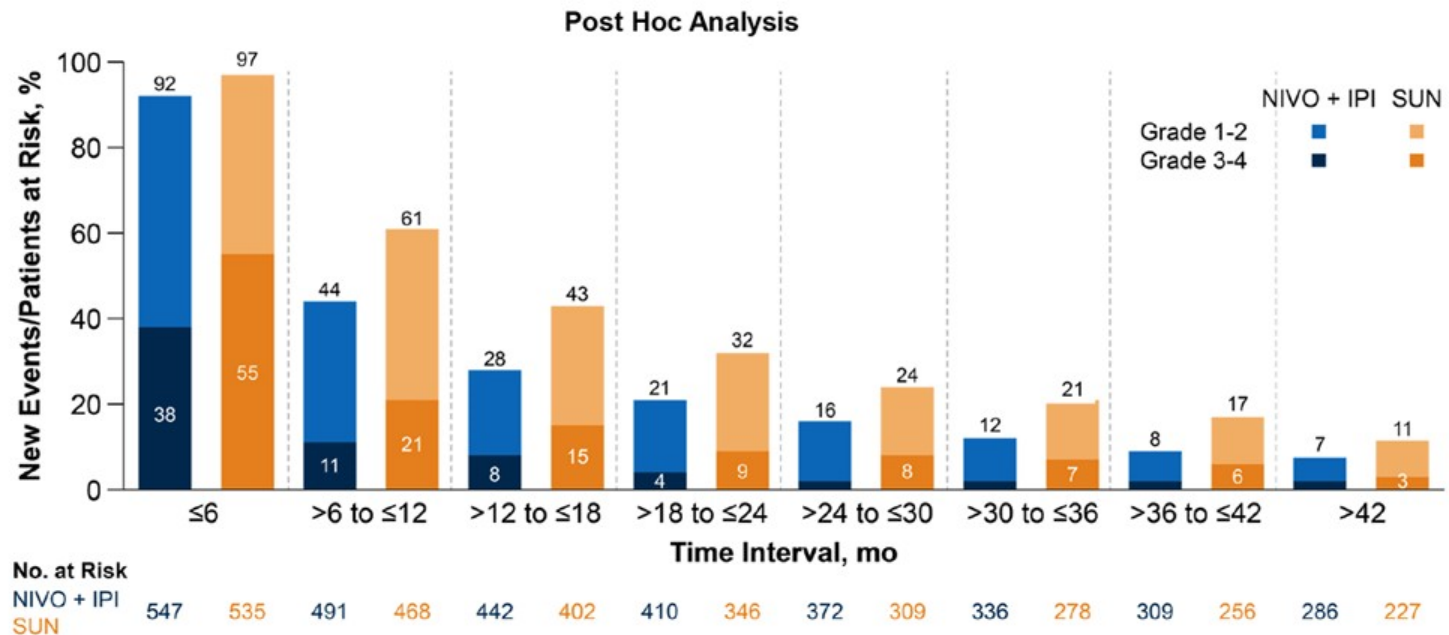
- Adrenal insufficiency
- Hepatitis
- Colitis
- Pneumonitis
- Altered thyroid function
- Nephritis

- Treatment-related adverse events leading to discontinuation occurred in **22%** and **12%** of the patients in the respective groups.
- **Eight** deaths in the nivolumab-plus ipilimumab group and **four** deaths in the sunitinib group were reported to be treatment-related .
- Immune-mediated adverse event (includes skin, endocrine, gastrointestinal, pulmonary, hepatic, and renal categories), **152 (35%) received high-dose glucocorticoids** (≥40 mg of prednisone per day or equivalent).

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Nivolumab + Ipilumumab

CheckMate -214: TRAEs Over Time¹



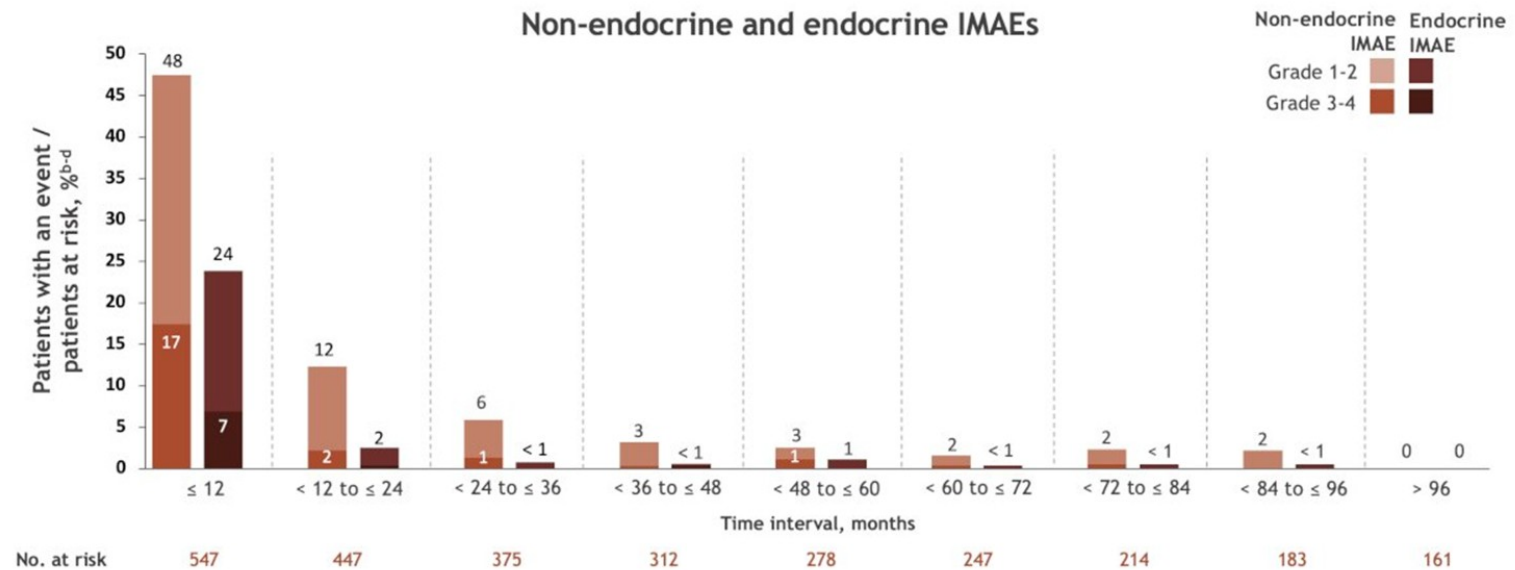
- A similar pattern over time was observed with treatment-related select AE incidence and corticosteroid use in the NIVO + IPI arm

1. Motzer RJ et al. *J Immunother Cancer*. 2020;8:e000891.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Nivolumab + Ipilimumab

IMAEs over time with NIVO+IPI^a

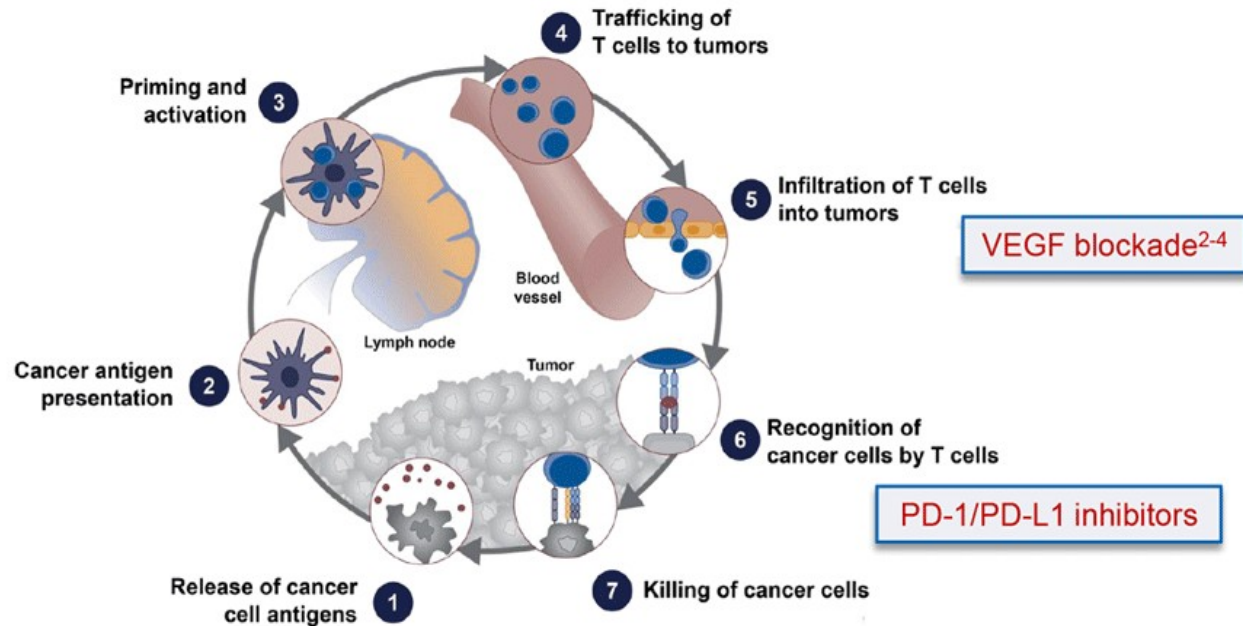


CheckMate 214, ASCO 2025

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Pembrolizumab + Axitinib

Synergy of VEGF Inhibition and PD-1/PD-L1 Blockade^{1,2}



1. Chen DS, Mellman I. *Immunity*. 2013;39:1-10. 2. Shrimali RK et al. *Can Res*. 2010;70:6171-6180. 3. Manning EA et al. *Clin Cancer Res*. 2007;13:3951-3959. 4. Motz GT et al. *Nat Med*. 2014;20:607-615.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Pembrolizumab + Axitinib

KEYNOTE-426: Phase 3 Study¹

Pembrolizumab + Axitinib in Newly Diagnosed Advanced RCC

Key eligibility criteria

- Newly diagnosed or recurrent stage IV clear-cell RCC
- No previous systemic treatment for advanced disease
- KPS $\geq 70\%$
- Measurable disease as defined by RECIST v1.1
- Provision of a tumor sample for biomarker assessment
- Adequate organ function

Stratification

- IMDC risk group (favorable vs intermediate vs poor)
- Region (North America vs Western Europe vs rest of the world)

N = 861

R
1:1

Pembrolizumab 200 mg IV every 3 wk for up to 35 cycles + axitinib 5 mg orally twice daily^a

Sunitinib
50 mg orally once daily (4 wk on, 2 wk off)^b

Endpoints

- **Dual primary:** OS and PFS (RECIST v1.1, BICR) in ITT
- **Key secondary:** ORR (RECIST v1.1, BICR) in ITT

First interim analysis (median follow-up 12.8 mo)²

- OS: HR, 0.53 (95% CI, 0.38-0.74); $P < .0001$
- PFS: HR, 0.69 (95% CI, 0.57-0.84); $P < .001$
- ORR: 59.3% vs 35.7%; $P < .001$

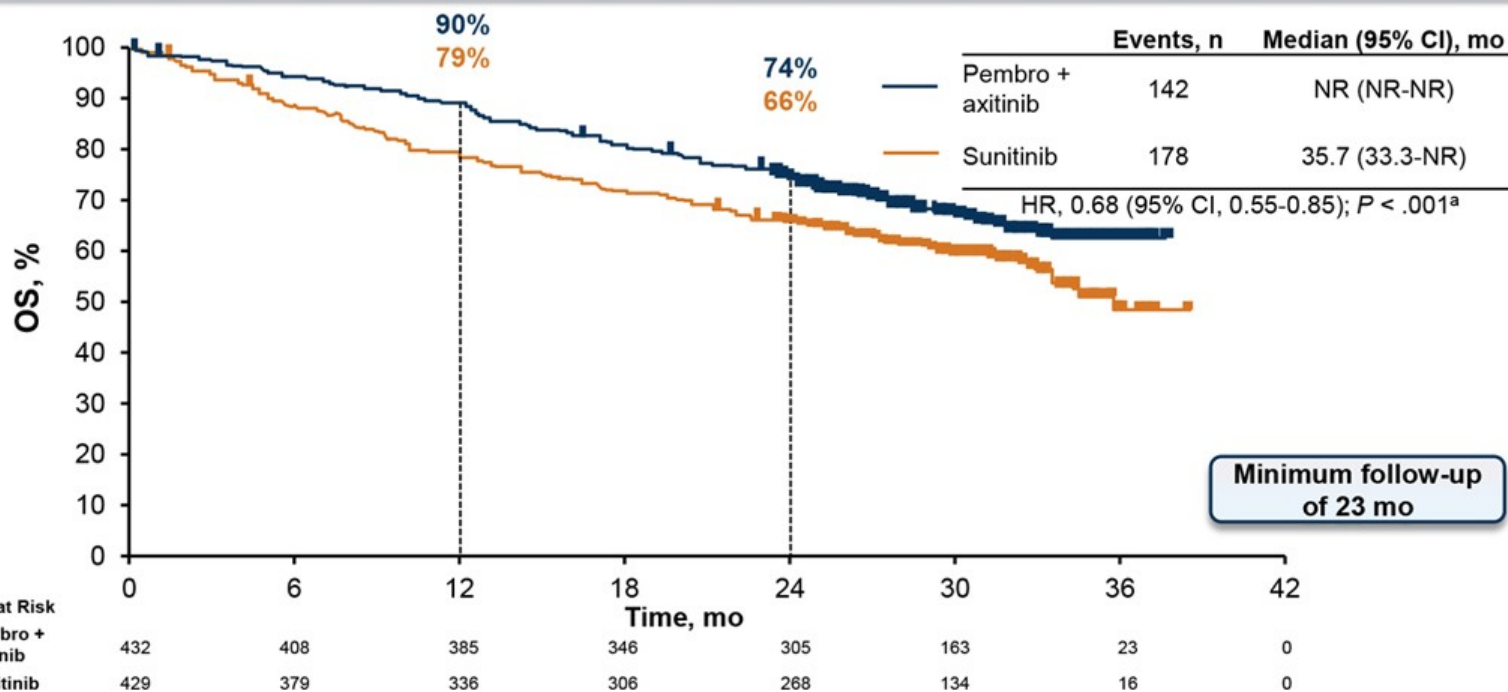
^a Axitinib dose could be increased to 7 mg, then 10 mg, twice daily if safety criteria were met; dose could be reduced to 3 mg, then 2 mg, twice daily to manage toxicity. ^b Sunitinib dose could be decreased to 37.5 mg, then 25 mg, once daily for the first 4 wk of each 6-wk cycle to manage toxicity.

1. <https://clinicaltrials.gov/ct2/show/NCT02853331>. 2. Rini BI et al. *N Engl J Med*. 2019;380:1116-1127.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Pembrolizumab + Axitinib

KEYNOTE-426: OS (ITT Population)¹



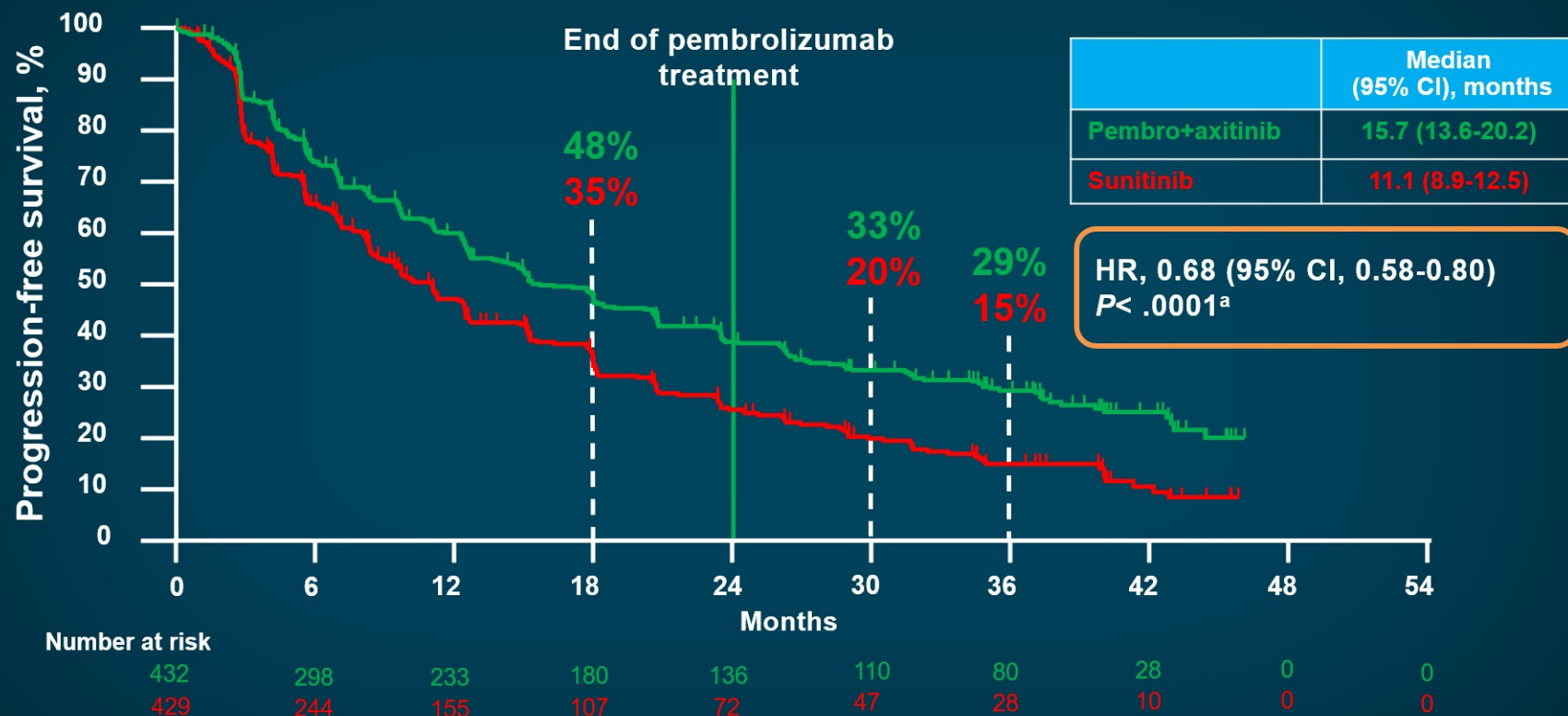
^a Because superiority of pembrolizumab + axitinib was shown at the first interim analysis, no alpha was allocated to OS; only nominal P values are reported.
Data cutoff: January 6, 2020.

1. Plimack ER et al. 2020 American Society of Clinical Oncology Virtual Scientific Program (ASCO 2020). Abstract 5001.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Pembrolizumab + Axitinib

KEYNOTE-426: PFS in the ITT Population

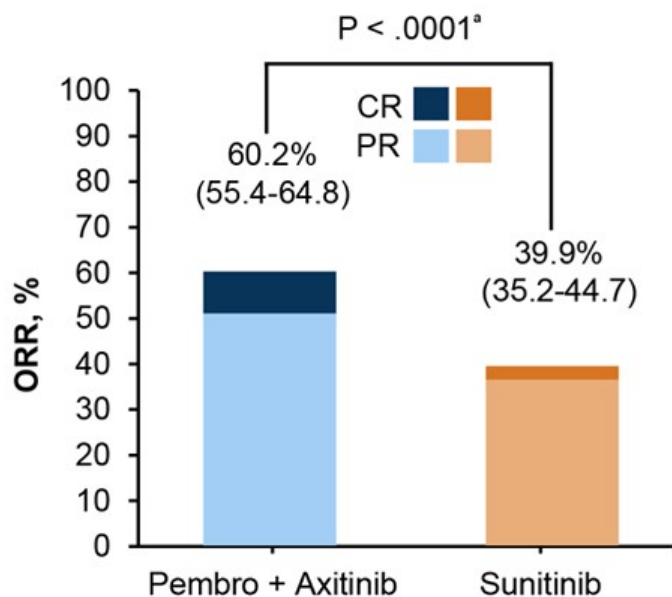


^aBecause superiority of pembrolizumab + axitinib was shown at the first interim analysis, no alpha was allocated to OS; only nominal *P* values are reported. Data cutoff: January 11, 2021. Rini BI, et al. ASCO 2021; Abstract 4500. Powles T, et al. *Lancet Oncol.* 2020;21:1563-1573.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Pembrolizumab + Axitinib

KEYNOTE-426: Response (ITT Population)¹

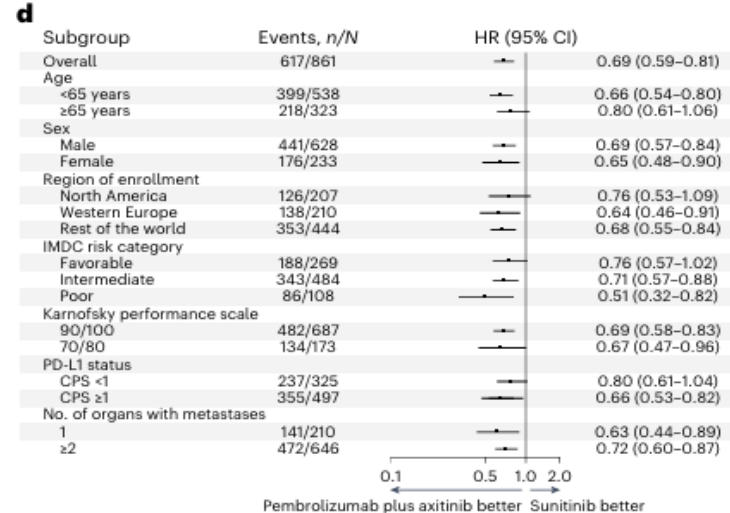
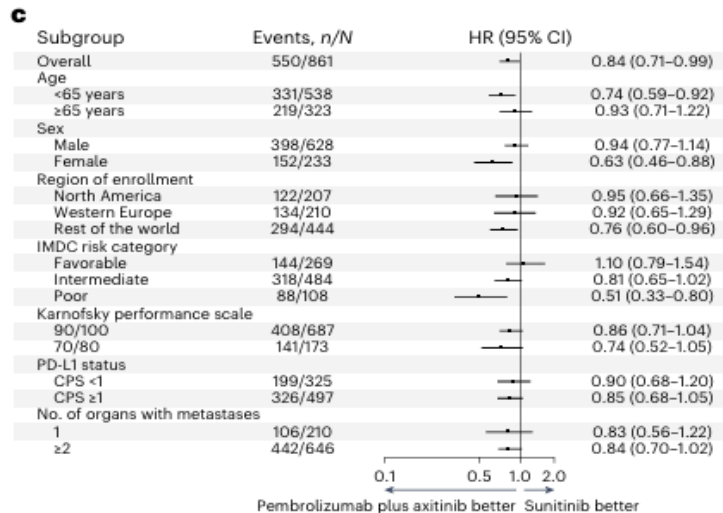
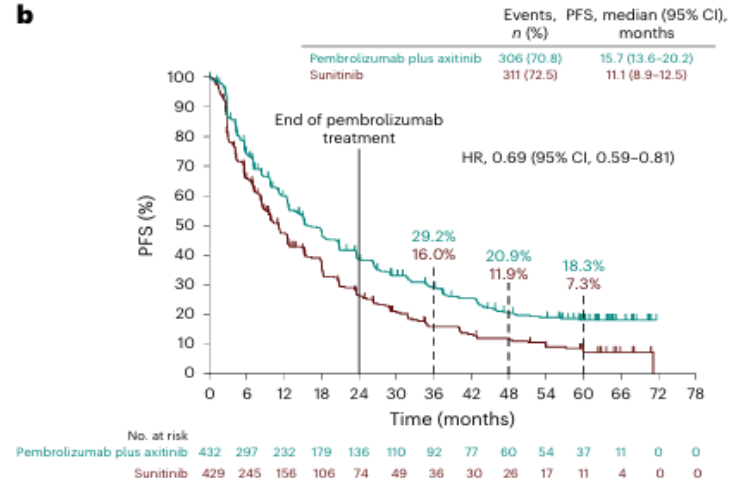
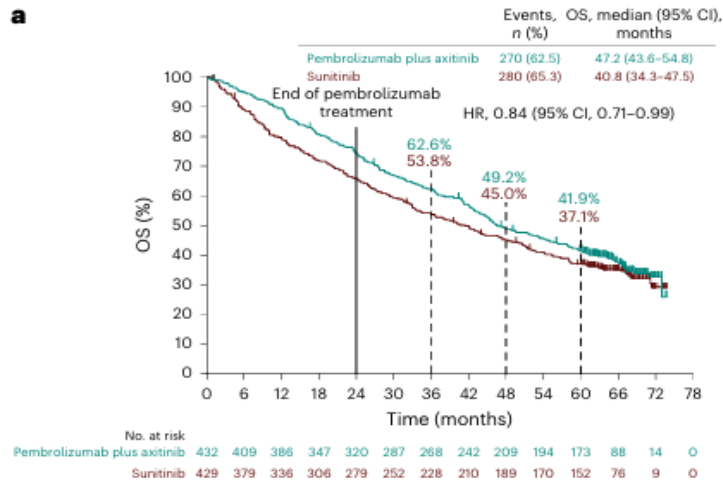


	Pembrolizumab + Axitinib (n = 432)	Sunitinib (n = 429)
Best response, n (%)		
CR	38.8 (8.8)	13 (3.0)
PR	222 (51.4)	158 (36.8)
SD	100 (23.1)	150 (35.0)
PD	49 (11.3)	74 (17.2)
NE ^b	16 (3.7)	28 (6.5)
NA ^c	7 (1.6)	6 (1.4)
Duration of response, median (range), mo	23.5 (1.4+ to 34.5+)	15.9 (2.3 to 31.8+)

^a Because superiority of pembrolizumab + axitinib was shown at the first interim analysis, no alpha was allocated to confirmed objective response; only nominal *P* values are reported. ^b Postbaseline assessment available but not evaluable (ie, all postbaseline assessments with insufficient data for assessment of response per RECIST v1.1 or CR/PR/SD < 6 wk from randomization). ^c No postbaseline assessment available for response evaluation; indicates an ongoing response at time of last disease assessment. Data cutoff: January 6, 2020.

1. Plimack ER et al. ASCO 2020. Abstract 5001.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri Pembrolizumab + Axitinib



Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Pembrolizumab + Axitinib

Efficacy in IMDC Subgroups

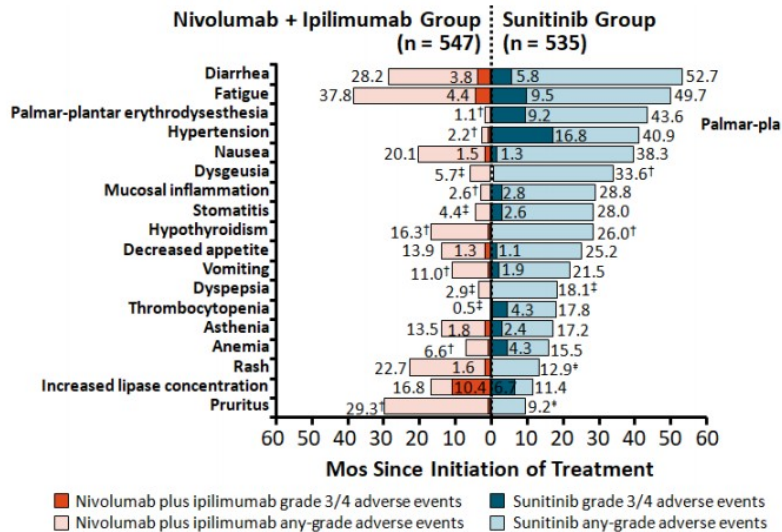
Parameter	ITT		Favorable Risk		Intermediate/Poor Risk	
	Pembro + Axitinib n = 432	Sunitinib n = 429	Pembro + Axitinib n = 138	Sunitinib n = 131	Pembro + Axitinib n = 294	Sunitinib n = 298
OS, HR (95% CI)	0.73 (0.60-0.88)		1.17 (0.76-1.80)		0.64 (0.52-0.80)	
42-month rate, %	57.5	48.5	72.3	73.0	50.6	37.6
PFS, HR (95% CI)	0.68 (0.58-0.80)		0.76 (0.56-1.03)		0.67 (0.55-0.81)	
Median, months	15.7	11.1	20.7	17.8	13.8	8.2
ORR, %	60.4	39.6	68.8	50.4	56.5	34.9
CR, %	10.0	3.5	11.6	6.1	9.2	2.3
PR, %	50.5	36.1	57.2	44.3	47.3	32.6

Data cutoff: January 11, 2021.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

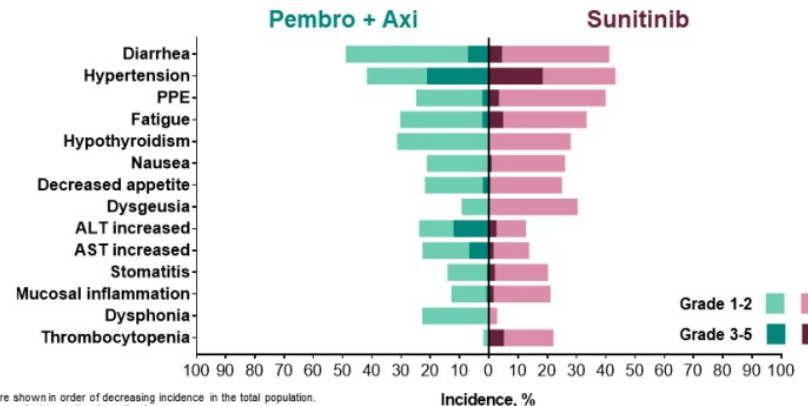
Toksosite

CheckMate 214



Motzer. Lancet Oncol. 2019;20:1370.

KEYNOTE-426



Powles. ASCO GU 2019.

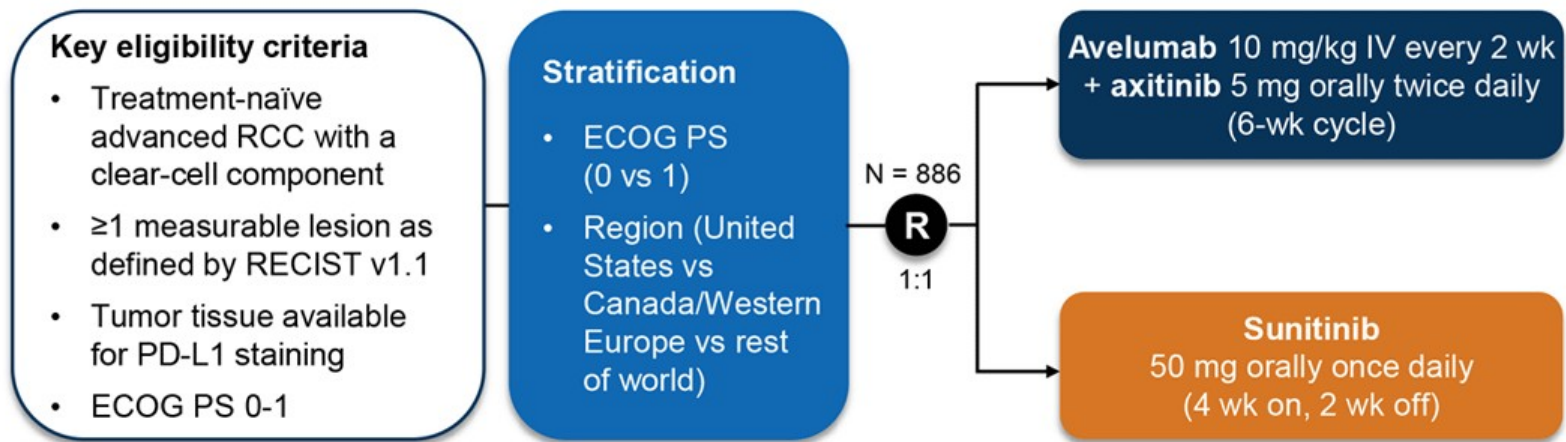
- These events were of **grade 3** or higher in **75.8%** of the patients in the pembrolizumab–axitinib group and in **70.6%** of the patients in the sunitinib group
- In the pembrolizumab–axitinib group, adverse events of any cause led to **discontinuation of either drug in 30.5%** of patients, discontinuation of both drugs in **10.7%**.
- Of the **11 patients** (2.6%) in the pembrolizumab–axitinib group who died from adverse events, among the **15 patients** (3.5%) in the sunitinib group who died from adverse events

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Avelumab + Axitinib

JAVELIN Renal 101: Phase 3 Study¹

Axitinib + Avelumab in Newly Diagnosed Advanced RCC



Endpoints

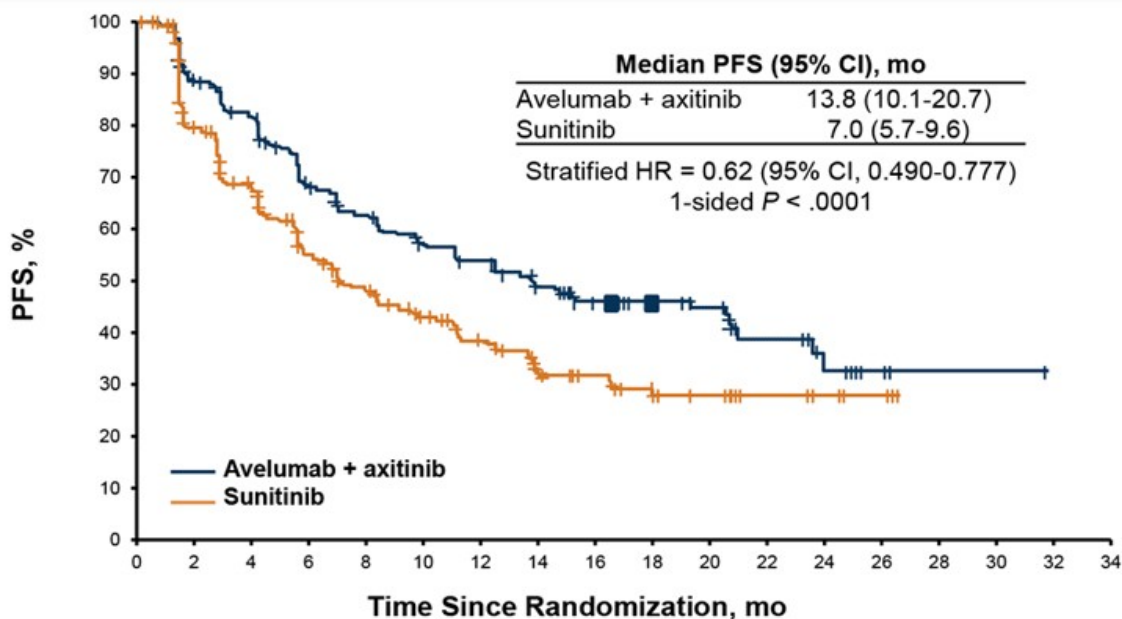
- **Coprimary:** PFS and OS in PD-L1–positive patients

1. <https://clinicaltrials.gov/ct2/show/NCT02684006>.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Avelumab + Axitinib

JAVELIN Renal 101: PFS (PD-L1+ Population)¹



- No new safety signals
- ORR 55.9% (CR 5.6%) in the combination arm vs 27.2% (CR 2.4%) in the sunitinib arm
 - Similar response rates observed in the overall population
- OS data are still immature

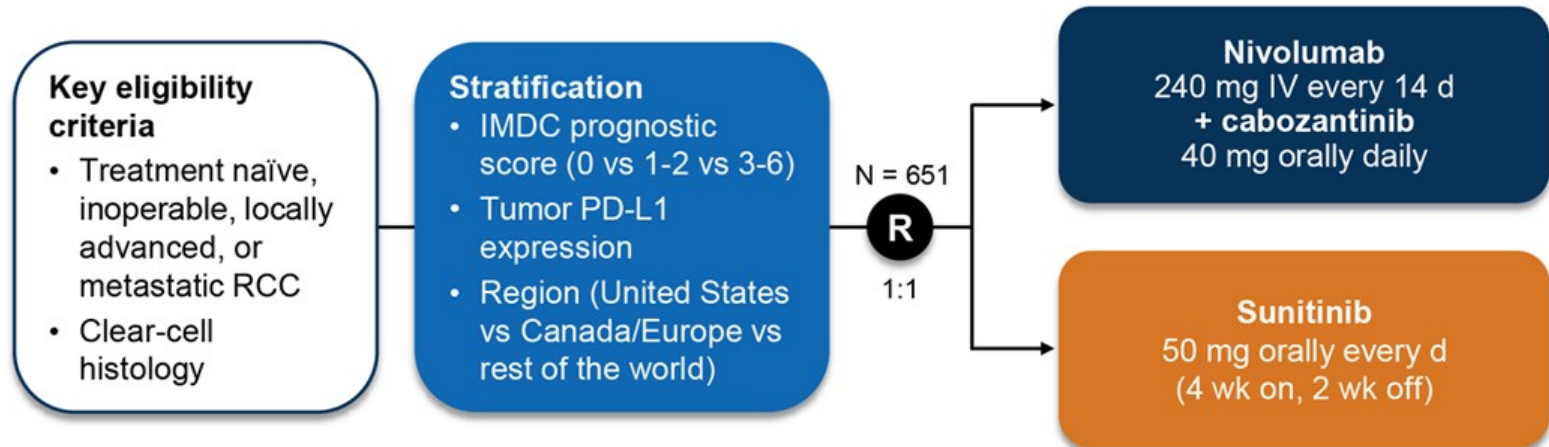
1. Choueiri TK et al. *Ann Oncol.* 2020;31:1030-1039.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Nivolumab + Cabozantinib

CheckMate -9ER: Phase 3 Study^{1,2}

Nivolumab + Cabozantinib in Newly Diagnosed Advanced RCC



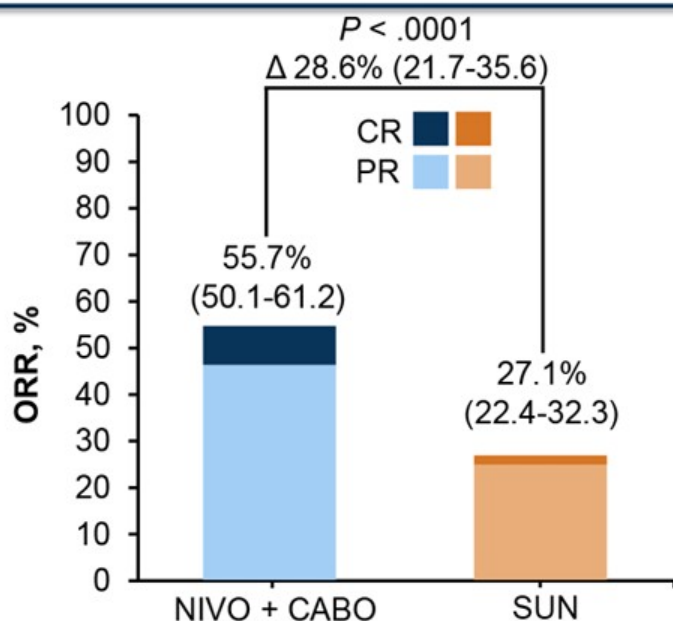
Endpoints

- **Primary:** PFS
- **Key Secondary:** OS, ORR, safety

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Nivolumab + Cabozantinib

CheckMate -9ER: Response^{1,a}



Outcome, %	Nivolumab + Cabozantinib (n = 323)	Sunitinib (n = 328)
CR	8.0	4.6
PR	47.7	22.6
SR	32.2	42.1
PD	5.6	13.7
NE/NA ^b	6.5	17.1
Median time to response (range), mo ^c	2.8 (1.0-19.4)	4.2 (1.7-12.3)
Median duration of response (95% CI), mo ^c	20.2 (17.3-NE)	11.5 (8.3-18.4)

^a BICR-assessed ORR and BOR by RECIST v1.1. ^b Includes patients who were never treated, those who discontinued/died before disease assessment, those without measurable disease at baseline per BICR, or other reason not reported/specified. ^c Median time to and duration of response were calculated for patients who had a complete or partial response (n = 180 with NIVO + CABO, n = 89 patients with SUN).

1. Choueiri TK et al. ESMO 2020. Abstract 696O_PR.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

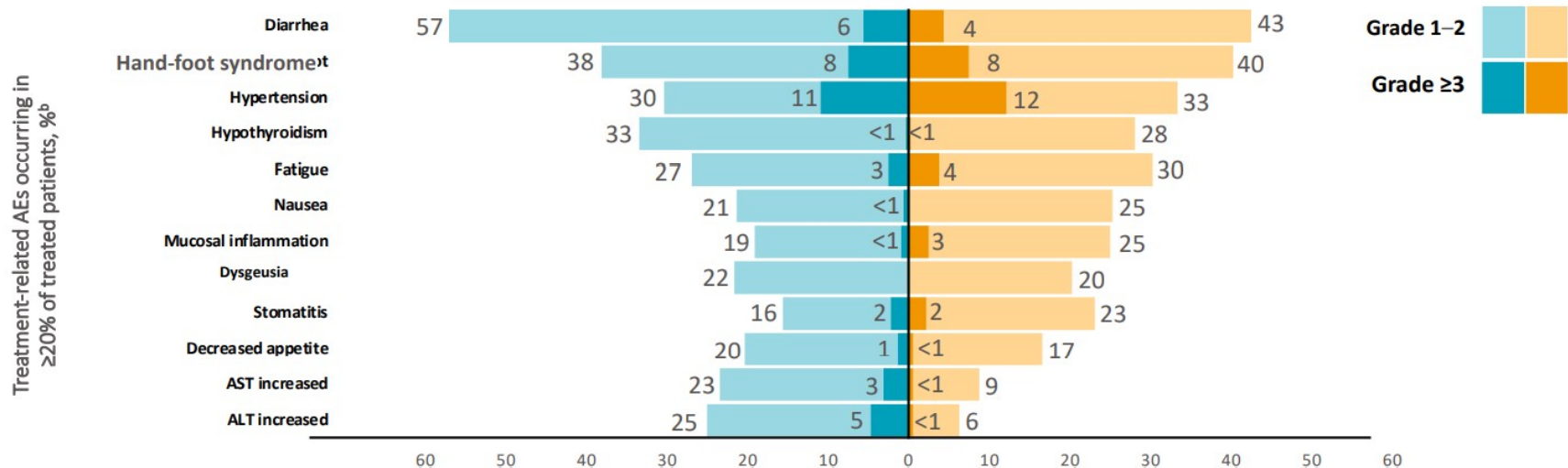
Nivolumab + Cabozantinib

CheckMate 9ER Cabo/Nivo vs Sunitinib Safety

NIVO+CABO, n = 320

SUN, n = 320

Events, % ^a	Any grade	Grade ≥ 3	Any grade	Grade ≥ 3
All-cause AEs	100	75	99	71
Treatment-related AEs	97	61	93	51

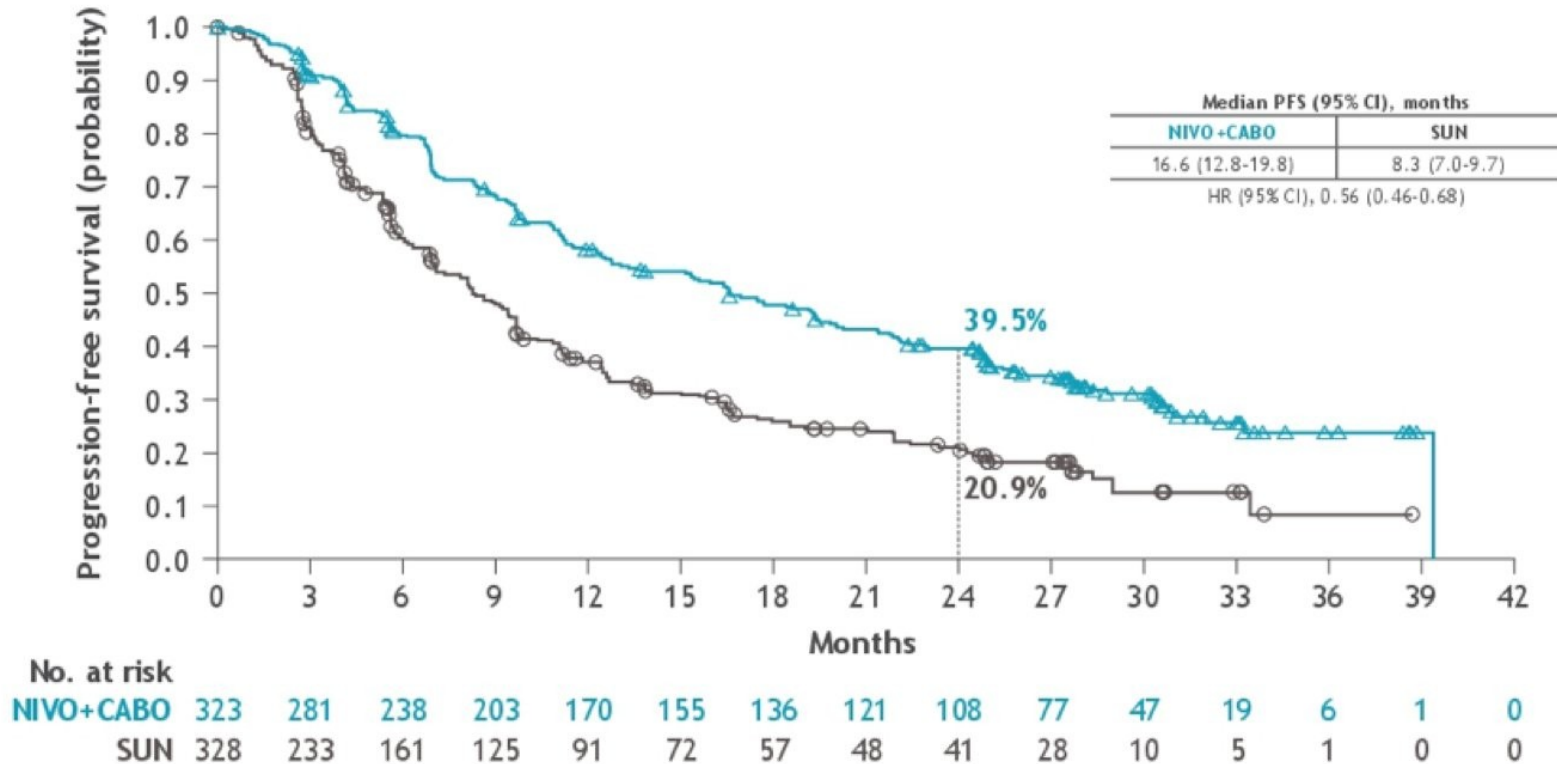


^aIncludes events that occurred on therapy or within 30 days after the end of the treatment period of all treated patients. Treatment-related deaths per investigator: NIVO+CABO n = 1 (small intestine perforation), SUN n = 2 (pneumonia, respiratory distress); ^bTotal bar represents treatment-related AEs of any grade ≥ 20% in either treatment arm; of these events, none were grade 5.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Nivolumab + Cabozantinib

B. Progression-free survival



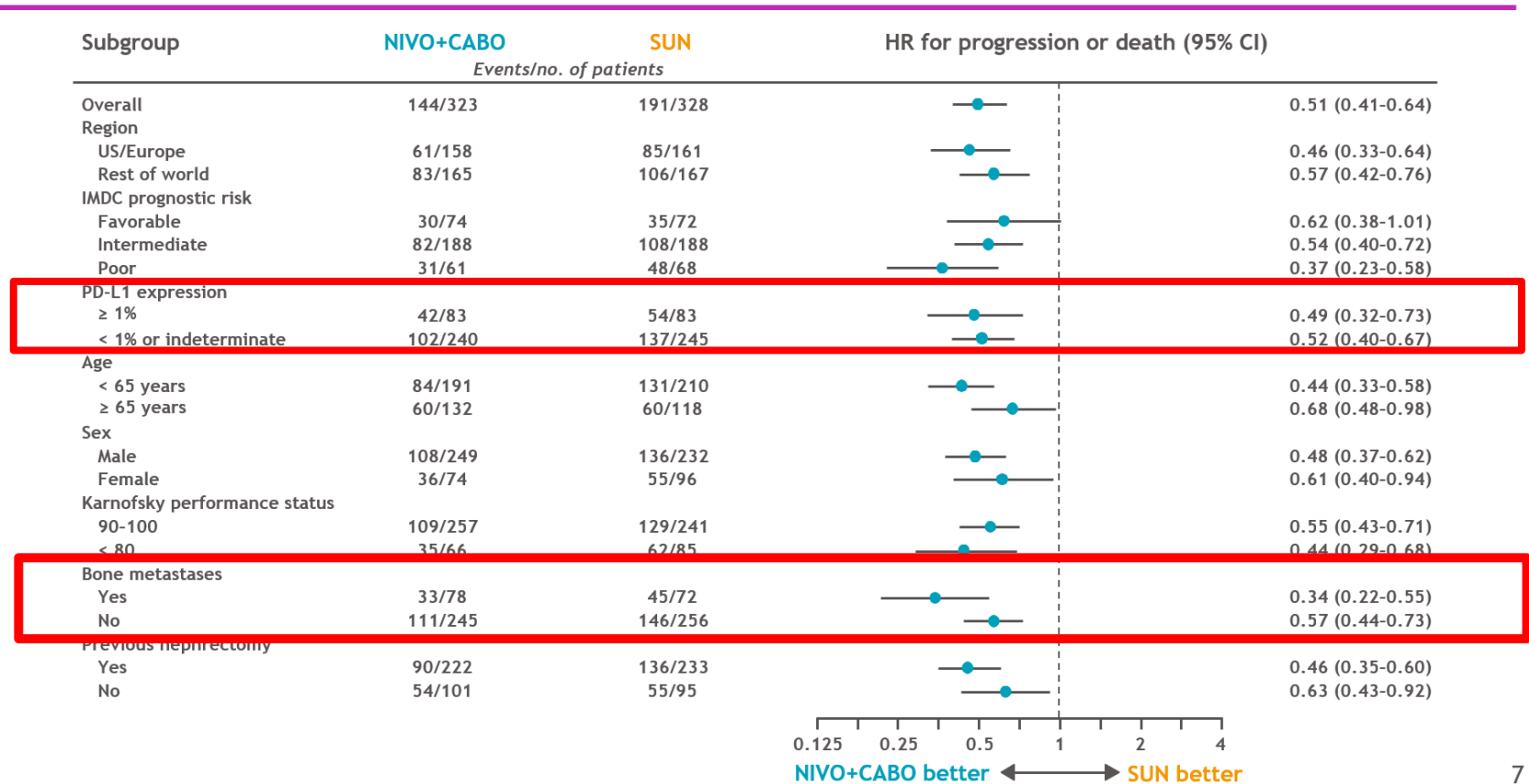
CheckMate 9ER clinical trial

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Nivolumab + Cabozantinib

CheckMate 9ER

Progression-free survival per BICR in subgroups

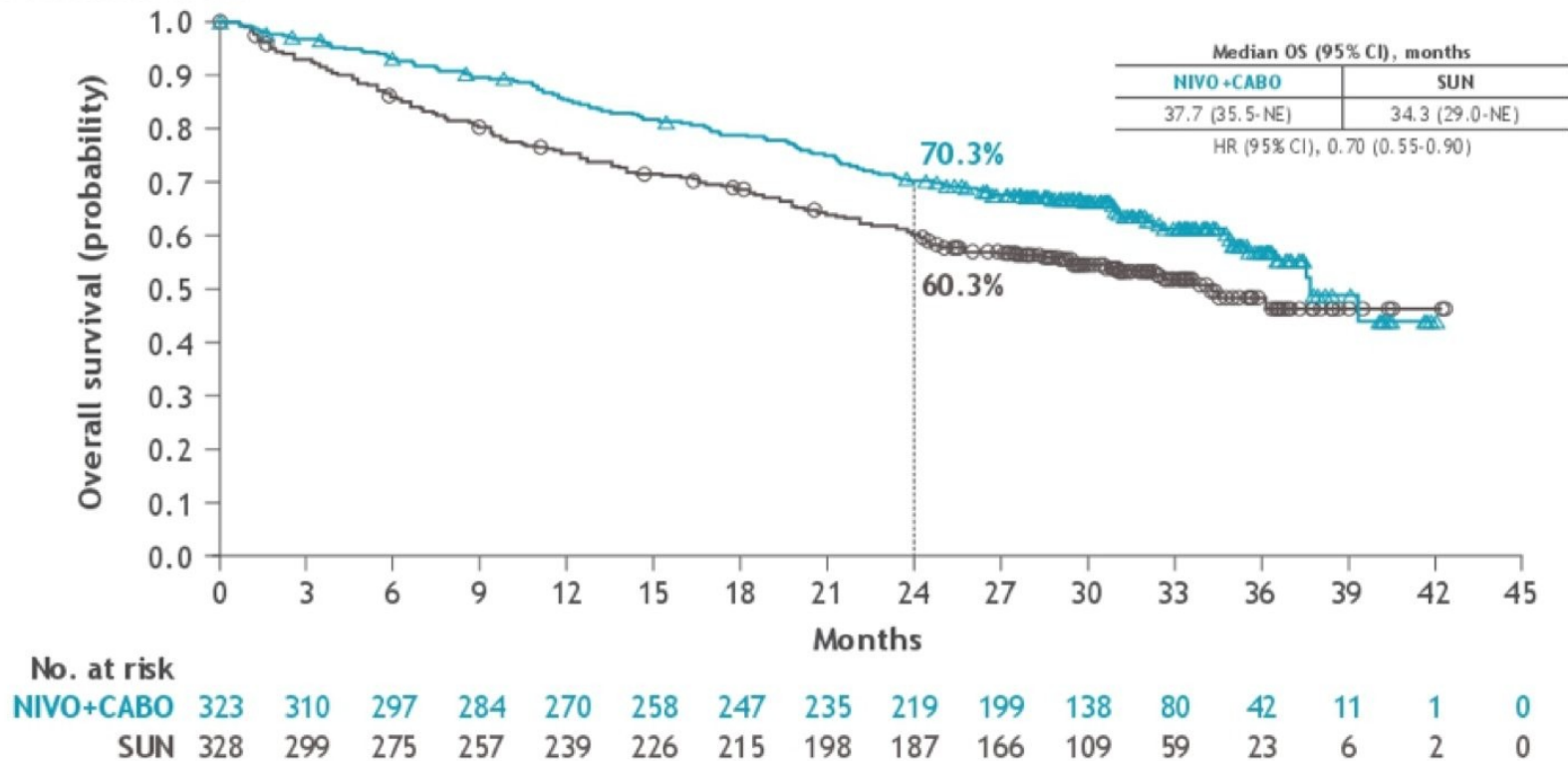


Document d'échanges scientifiques, peut être remis uniquement sur demande du professionnel de santé. La présentation contient des informations hors AMM.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Nivolumab + Cabozantinib

A. Overall survival



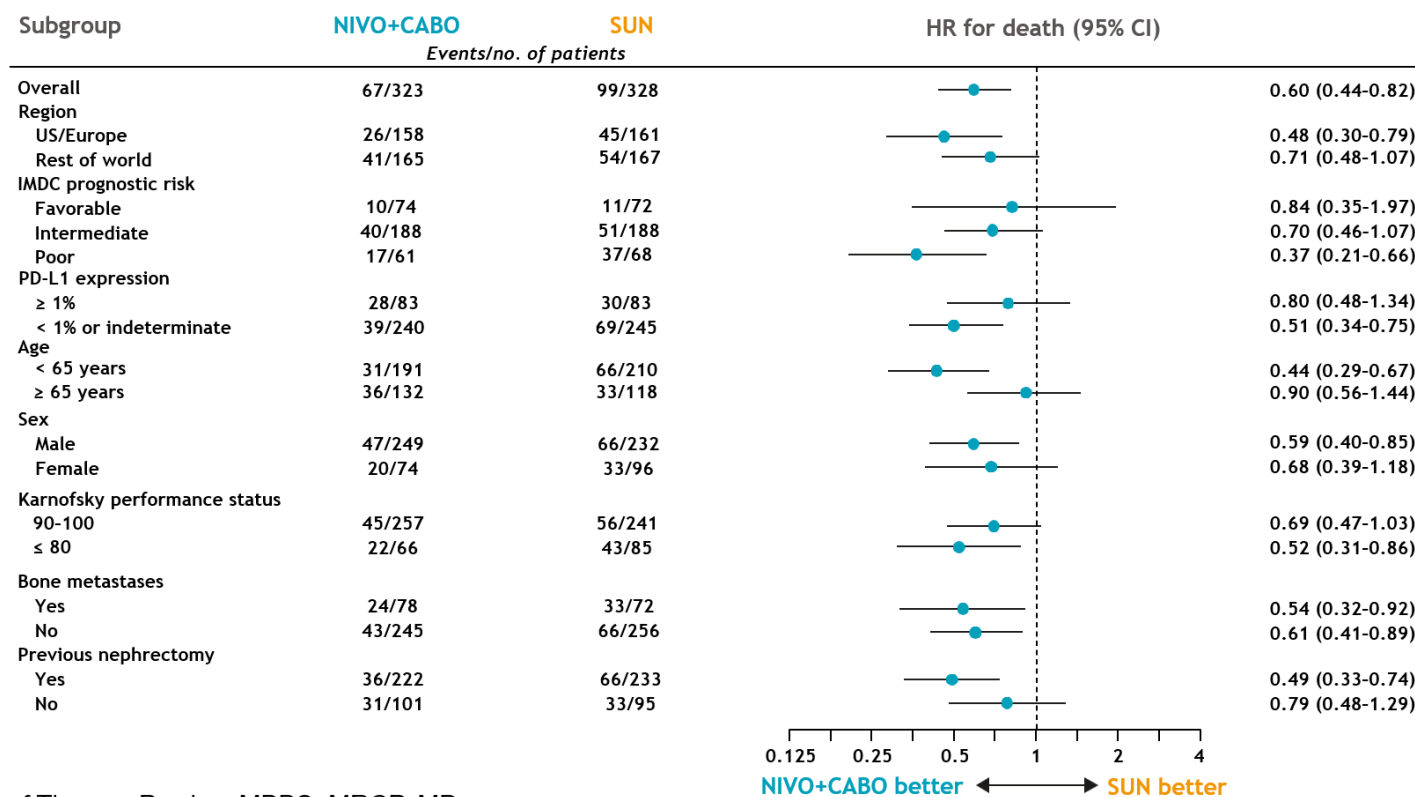
CheckMate 9ER clinical trial

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Nivolumab + Cabozantinib

• CheckMate 9ER

Overall survival in subgroups



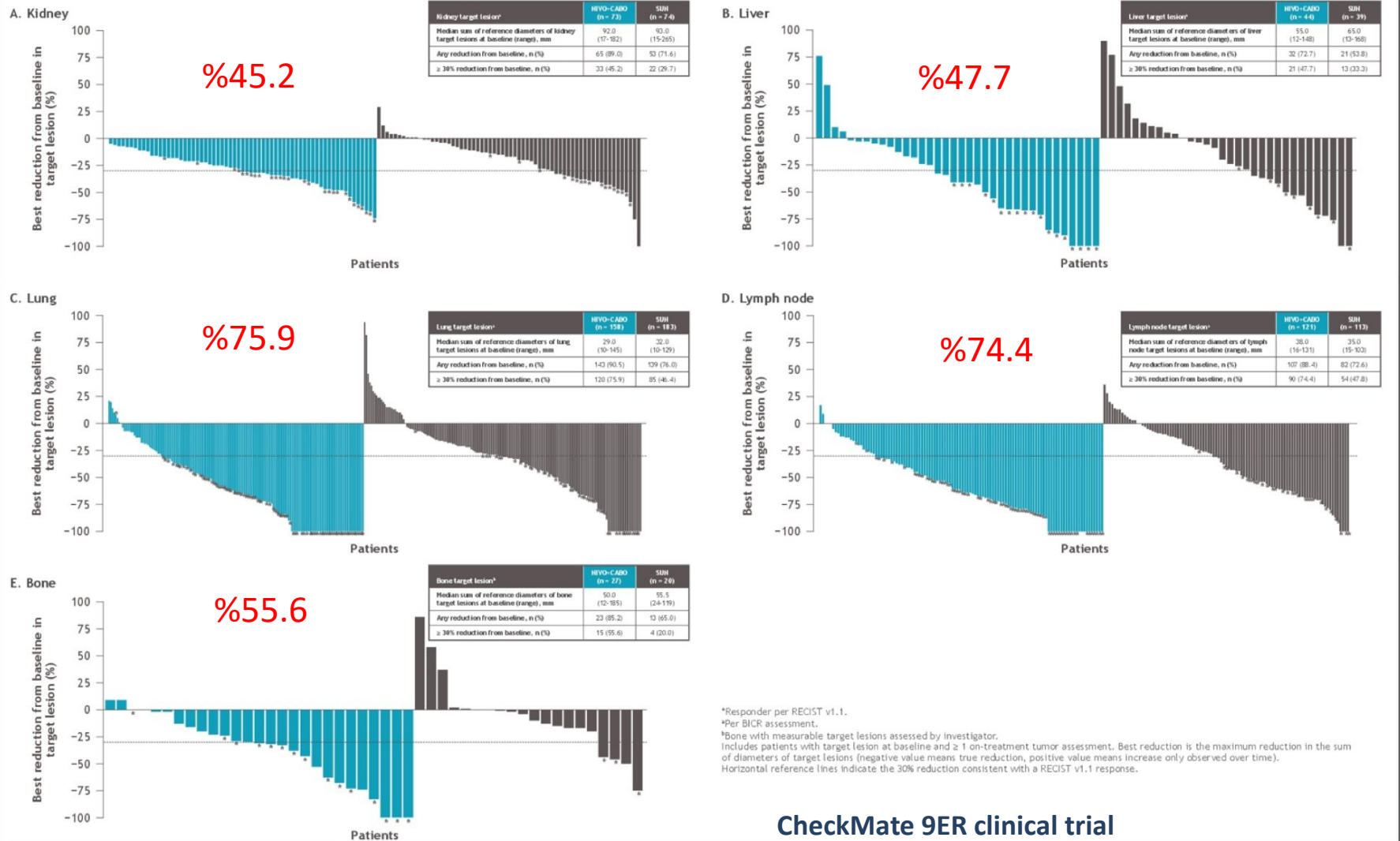
Courtesy of Thomas Powles, MBBS, MRCP, MD

CheckMate 9ER clinical trial

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Nivolumab + Cabozantinib

Figure 2. Depth of response in patients with kidney (A), liver (B), lung (C), lymph node (D), and bone (E) target lesions at baseline

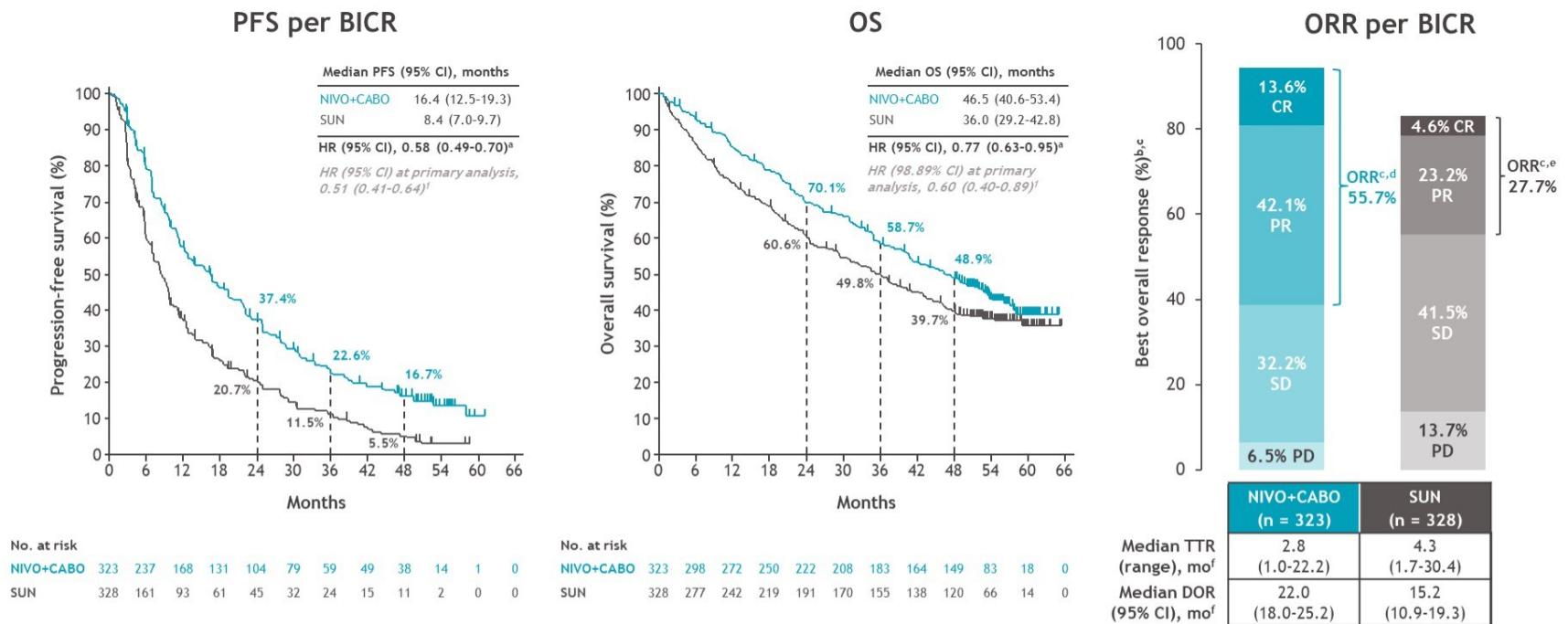


Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Nivolumab + Cabozantinib

CheckMate 9ER

PFS per BICR, OS, ORR per BICR in *ITT* population



Median (range) follow-up for OS, 55.6 (48.1-68.1) months (ITT population).

^aStratified Cox proportional hazards model used for HR. ^bUnable to determine/not reported: 5.6% for NIVO+CABO; 17.1% for SUN. ^cNo. of patients with ORR and BOR in NIVO+CABO arm: ORR, n = 180; CR, n = 44; PR, n = 136; SD, n = 104; PD, n = 21. No. of patients with ORR and BOR in SUN arm: ORR, n = 91; CR, n = 15; PR, n = 76; SD, n = 136; PD, n = 45. ^d95% CI, 50.1-61.2.

^e95% CI, 23.0-32.9. ^fTTR and DOR were calculated only for patients who had a CR or PR.

1. Choueiri TK, et al. *N Engl J Med* 2021;384:829-841.

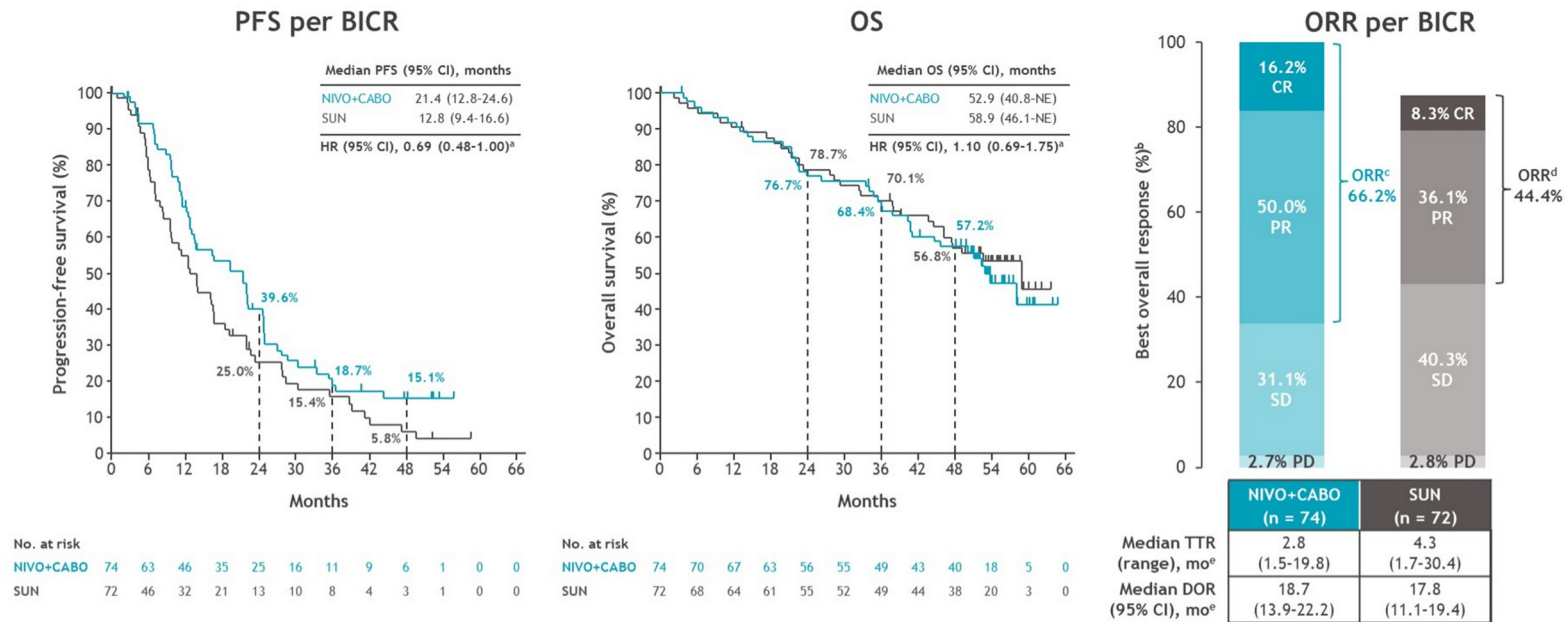
CheckMate 9ER clinical trial, ASCO GO2025

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Nivolumab + Cabozantinib

CheckMate 9ER

PFS per BICR, OS, ORR per BICR in IMDC favorable-risk population



Median (range) follow-up for OS, 55.6 (48.1-68.1) months (ITT population).

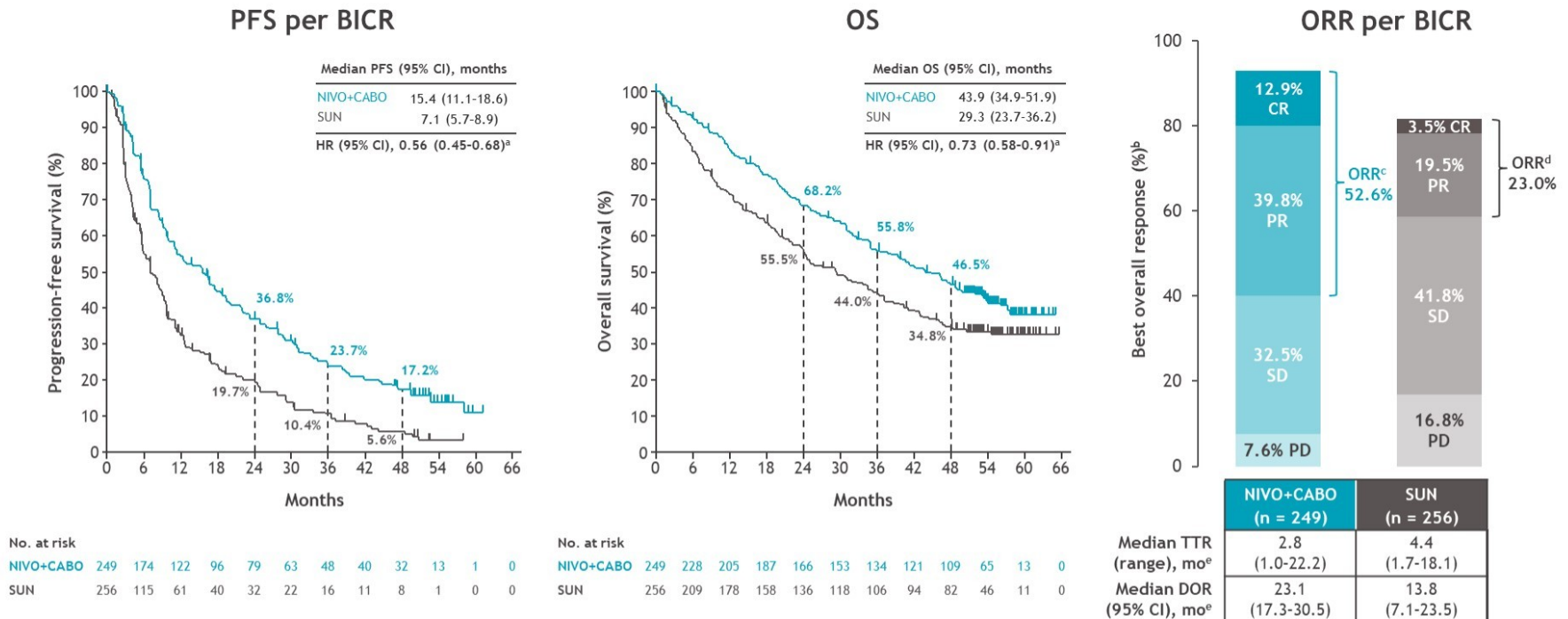
^aUnstratified Cox proportional hazards model used for HR. ^bUnable to determine/not reported: 0.0% for NIVO+CABO; 12.5% for SUN. ^c95% CI, 54.3-76.8. ^d95% CI, 32.7-56.6. ^eTTR and DOR were calculated only for patients who had a CR or PR.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Nivolumab + Cabozantinib

CheckMate 9ER

PFS per BICR, OS, ORR per BICR in IMDC intermediate/poor-risk population



Median (range) follow-up for OS, 55.6 (48.1-68.1) months (ITT population).

^aUnstratified Cox proportional hazards model used for HR. ^bUnable to determine/not reported: 7.2% for NIVO+CABO; 18.4% for SUN. ^c95% CI, 46.2-58.9. ^d95% CI, 18.0-28.7. ^eTTR and DOR were calculated only for patients who had a CR or PR.

CheckMate 9ER clinical trial

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Nivolumab + Cabozantinib

CheckMate 9ER

Efficacy by baseline organ sites of metastases

- PFS, OS, and ORR favored NIVO+CABO versus SUN in subgroups by baseline organ sites of metastases shown here

Outcome	Liver ^{a,b}		Bone ^{a,b}		Lung ^{a,b}	
	NIVO+CABO (n = 73)	SUN (n = 55)	NIVO+CABO (n = 79)	SUN (n = 73)	NIVO+CABO (n = 241)	SUN (n = 251)
Median PFS (95% CI), mo	10.9 (7.0-15.2)	6.2 (2.9-8.3)	13.8 (8.3-20.1)	4.4 (3.8-8.2)	16.4 (12.3-21.4)	8.3 (6.9-9.7)
HR (95% CI) ^c	0.54 (0.36-0.81)		0.45 (0.30-0.66)		0.56 (0.46-0.69)	
Median OS (95% CI), mo	37.6 (23.5-49.9)	22.1 (9.8-29.3)	34.8 (21.4-NE)	20.7 (12.5-25.7)	47.5 (40.6-56.1)	32.6 (24.9-39.7)
HR (95% CI) ^c	0.62 (0.41-0.95)		0.57 (0.38-0.84)		0.73 (0.58-0.92)	
ORR (95% CI), %	52.1 (40.0-63.9)	21.8 (11.8-35.0)	49.4 (37.9-60.9)	9.6 (3.9-18.8)	57.3 (50.8-63.6)	28.3 (22.8-34.3)

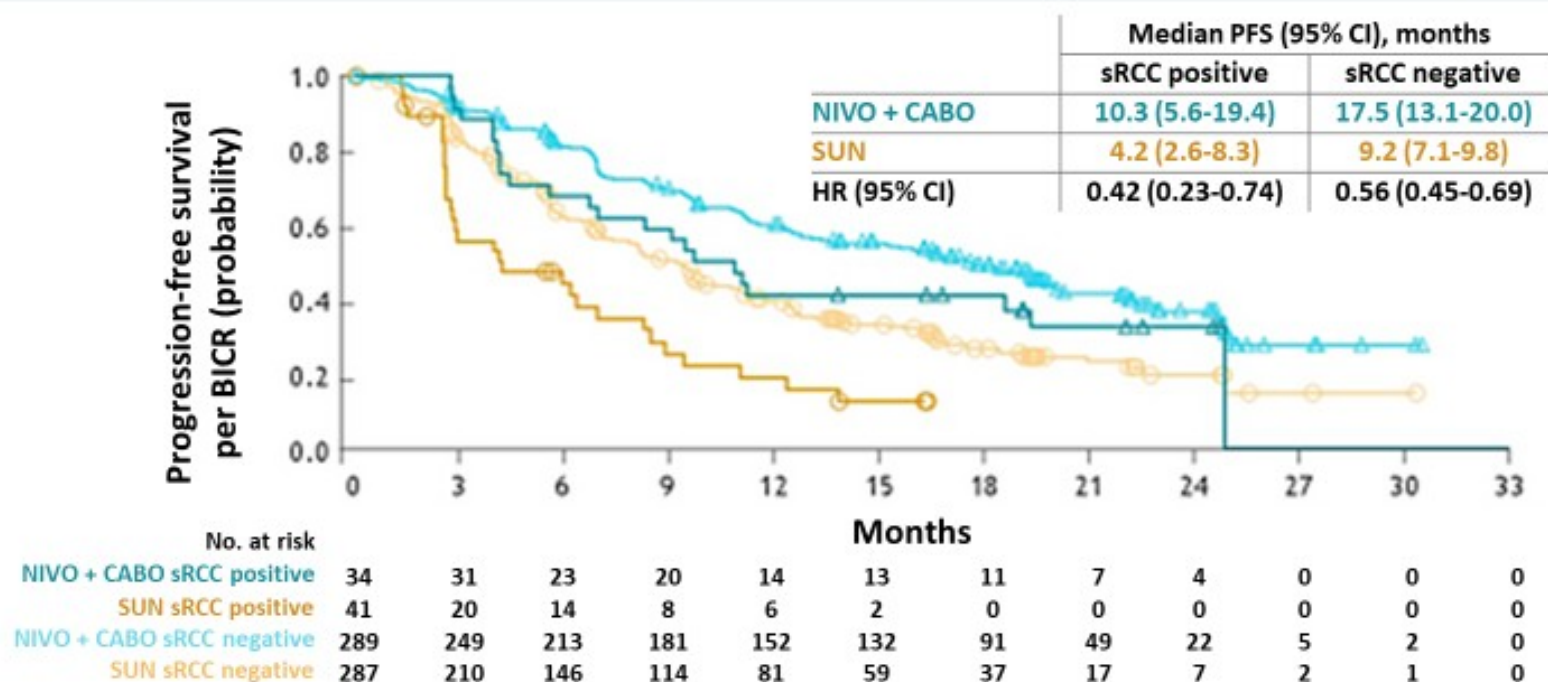
^aAn exploratory analysis of efficacy outcomes by baseline organ sites of metastases was conducted in the ITT population (prespecified for bone; post hoc for liver and lung). ^bWithin each subgroup, all patients had metastasis within the specified site but may have had lesions in more than 1 site. ^cUnstratified Cox proportional hazards model used for HR.

CheckMate 9ER clinical trial

Metastatik RCC/ sarkomatoid Birinci Basamak Tedavi Seçenekleri

Nivolumab + Cabozantinib

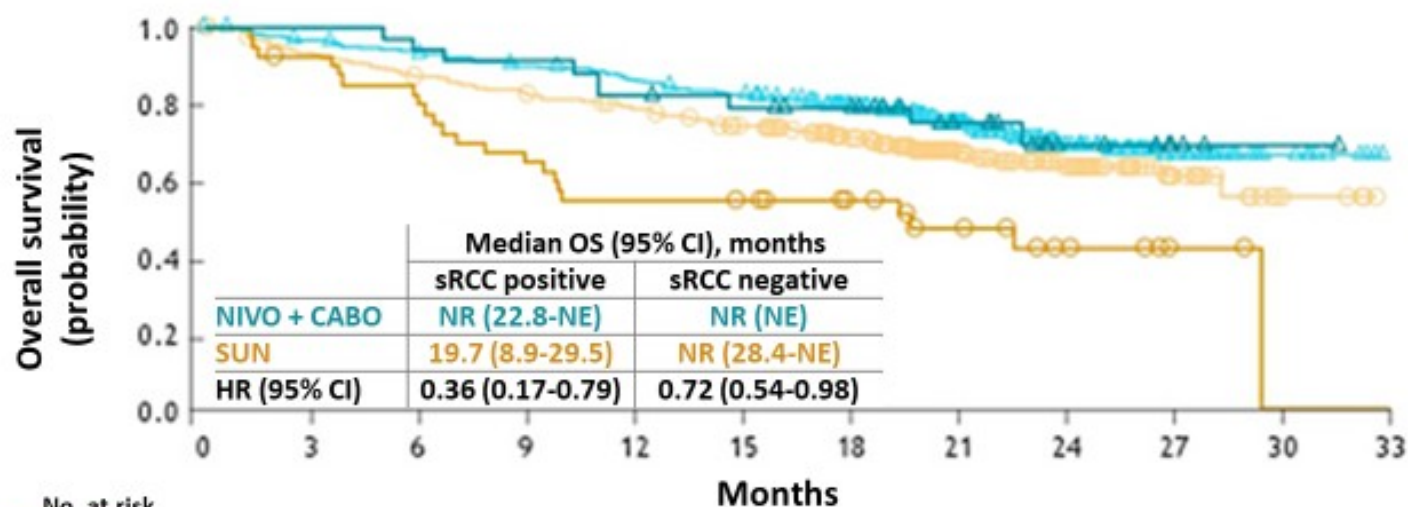
Progression-Free Survival per BICR by Sarcomatoid Histology



Metastatik RCC/ sarkomatoid Birinci Basamak Tedavi Seçenekleri

Nivolumab + Cabozantinib

Overall Survival by Sarcomatoid Histology



No. at risk		Months											
NIVO + CABO sRCC positive	34	34	32	31	28	26	24	16	7	3	1	0	
SUN sRCC positive	41	37	32	26	22	21	17	12	6	2	0	0	
NIVO + CABO sRCC negative	289	274	263	252	241	229	196	131	77	37	9	0	
SUN sRCC negative	287	258	240	228	214	196	172	106	56	20	4	0	

Metastatik RCC /sarkomatoid diferansiasyon

Tirozin kinaz inhibitörü+Immune checkpoint inhibitörü

17

IO-VEGF Combinations for Sarcomatoid RCC

Trial	Phase	Histology	Sarcomatoid	ORR	PFS	OS
IMmotion-151 – Atezo + Bevacizumab	III	cc	142/915 (15.5%)	49%	8.3 months	21.7 months
Javelin 101 – Avelumab + Axitinib	III	cc	108/886 (12.2%)	46.8%	7.0 months	NR
Keynote-426 – Pembro + Axitinib	III	cc	105/861 (12.2%)	58.8%	Not reached	Not reached
Checkmate-9ER – Nivo + Cabozantinib	III	cc	75/651 (11.5%)	55.9%	10.9 months	Not reached
Clear – Pembrolizumab + Lenvatinib	III	cc	49/712 (6.8%)	60.7%	11 months	Not reached
Atezo + Bevacizumab	II	cc + ncc	26/60 (43%)	cc 50%/ncc 38%	NR	NR

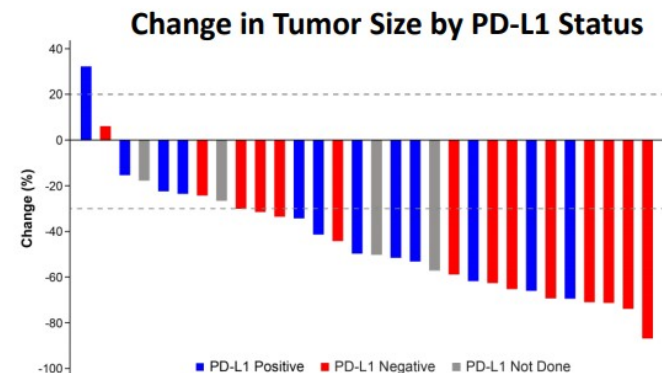
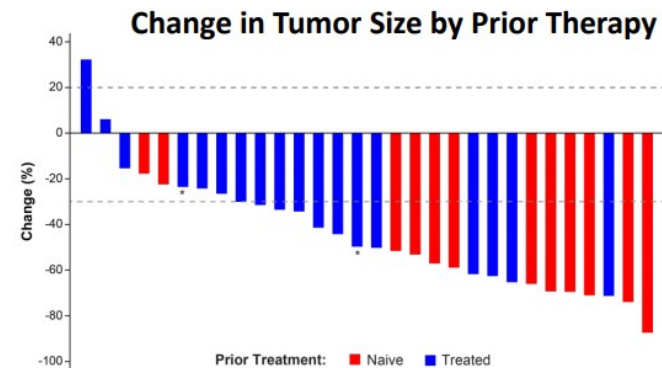
Ncc=Non-clear cell; cc=Clear cell; ORR=Objective response rate; PFS=Progression free survival; OS=Overall survival; NR=Not recorded.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Lenvatinib + Pembrolizumab

Study 111 Lenvatinib + Pembrolizumab Phase 2 ICI Naïve — Objective Response Rate

Parameter	Total (n = 30)	Treatment Naïve (n = 12)	Previous Treatments (n=18)
ORR_(Week 24), n (%)	19 (63)	10 (83)	9 (50)
95% CI	44–80	52–98	26–74
ORR, n (%)	19 (63)	10 (83)	9 (50)
95% CI	44–80	52–98	26–74
BOR, n (%)			
Partial response	19 (63)	10 (83)	9 (50)
Stable disease	10 (33)	2 (17)	8 (44)
Progression	1 (3)	0	1 (6)

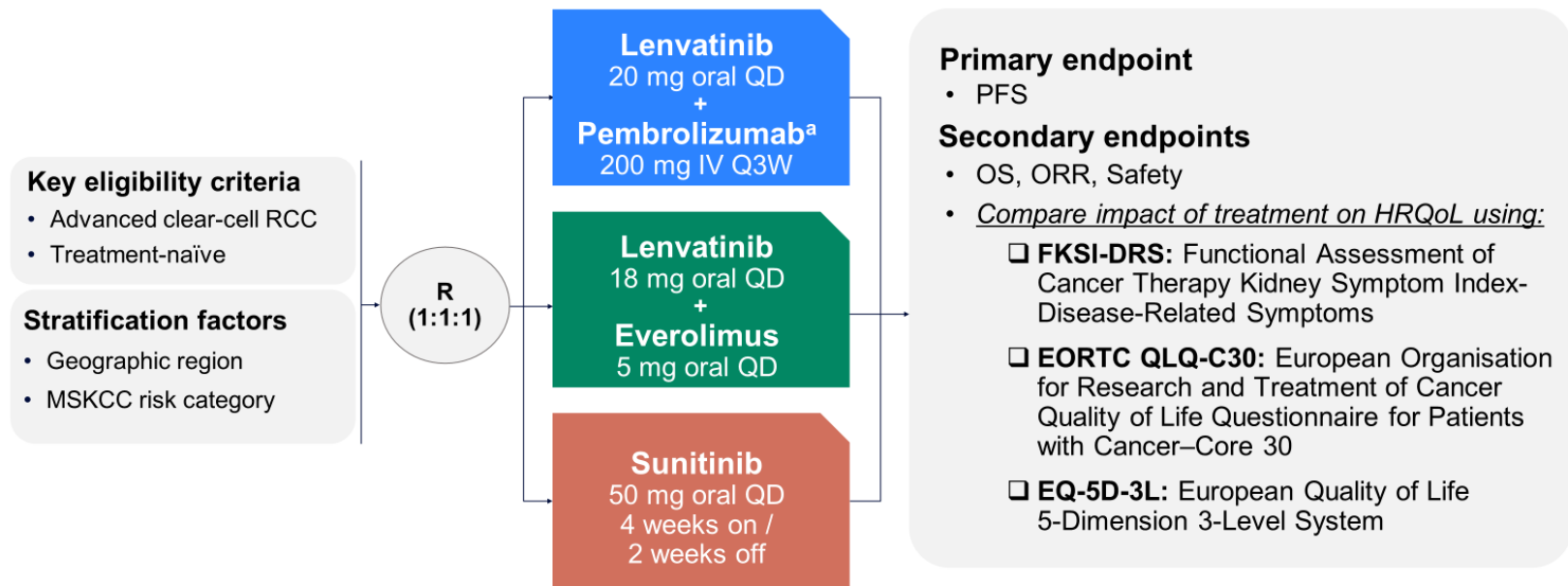


Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Lenvatinib + Pembrolizumab

4

Study Design

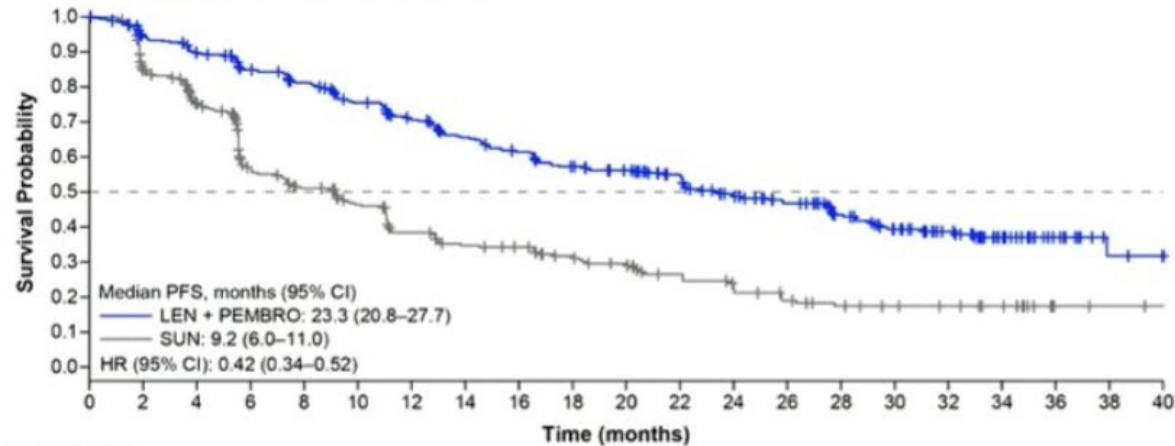


^aPatients could receive a maximum of 35 pembrolizumab treatments.

HRQoL, Health-related quality of life; MSKCC, Memorial Sloan Kettering Cancer Center; R, randomization.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Lenvatinib + Pembrolizumab



Number of patients at risk:

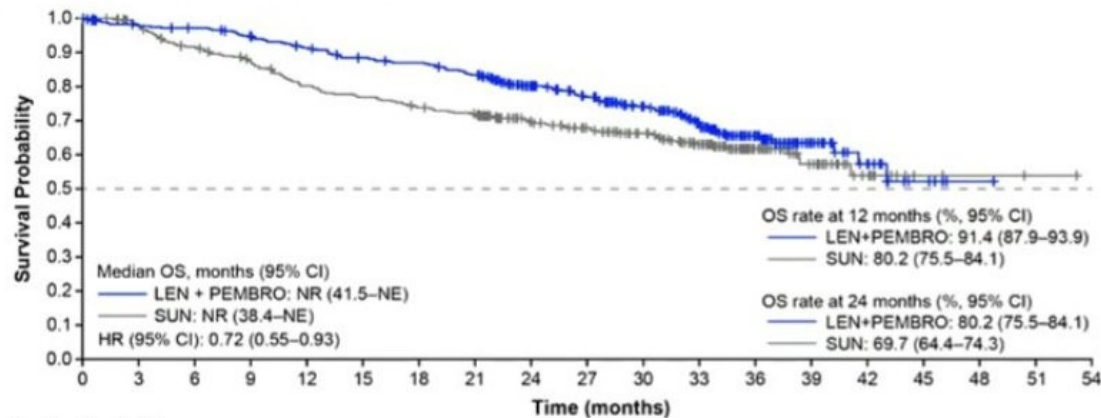
LEN + PEMBRO	355	321	300	276	259	235	213	193	178	161	151	134	109	95	77	62	50	30	15	6	4
SUN	357	262	218	145	124	107	85	74	70	58	52	41	33	26	21	18	16	12	3	2	1

	MSKCC			IMDC		
	Poor risk	Intermediate risk	Favorable risk	Poor risk	Intermediate risk	Favorable risk
LEN +PEMBRO vs SUN HR (95% CI)	0.18 (0.08–0.42)	0.46 (0.35–0.60)	0.43 (0.29–0.64)	0.30 (0.14–0.62)	0.41 (0.30–0.54)	0.47 (0.32–0.69)

CLEAR Trial

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Lenvatinib + Pembrolizumab



Number of patients at risk:

LEN + PEMBRO	355	342	338	327	313	300	294	280	232	207	174	133	75	31	15	5	1	0
SUN	357	332	307	289	264	253	242	234	195	177	153	116	66	34	14	3	2	1

Beyond the median duration of follow-up, there was a high rate of censoring

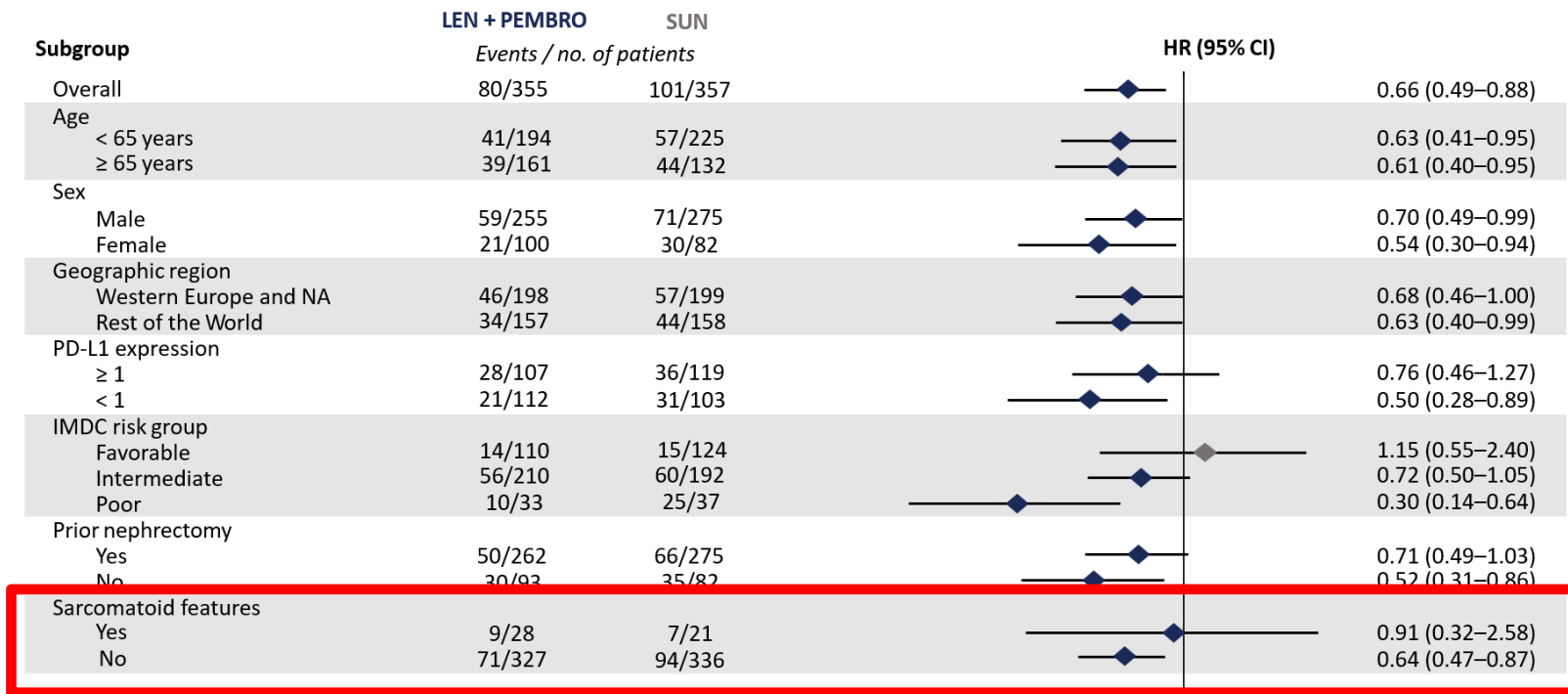
	MSKCC			IMDC		
	Poor risk	Intermediate risk	Favorable risk*	Poor risk	Intermediate risk	Favorable risk*
LEN + PEMBRO vs SUN HR (95% CI)	0.50 (0.25–1.02)	0.71 (0.52–0.97)	1.00 (0.51–1.96)	0.39 (0.20–0.77)	0.72 (0.52–1.00)	1.22 (0.66–2.26)*

CLEAR Trial

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Lenvatinib + Pembrolizumab

Overall Survival With Lenvatinib Plus Pembrolizumab in Key Subgroups



Courtesy of Thomas Powles, MBBS, MRCP, MD

Favors LEN + PEMBRO

Favors SUN

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Lenvatinib + Pembrolizumab

3

Efficacy Summary

	LEN + PEMBRO n = 355	LEN + EVE n = 357	SUN n = 357
Median PFS, mo (95% CI)	23.9 (20.8–27.7)	14.7 (11.1–16.7)	9.2 (6.0–11.0)
Stratified HR (95% CI) vs SUN	0.39 (0.32–0.49)	0.65 (0.53–0.80)	--
<i>P</i> -value	< 0.001	< 0.001	--
Median OS, mo (95% CI)	NR (33.6–NE)	NR (NE)	NR (NE)
Stratified HR (95% CI) vs SUN	0.66 (0.49–0.88)	1.15 (0.88–1.50)	--
<i>P</i> -value	0.005	0.3	--
Objective response rate, %	71.0	53.5	36.1
Complete response, %	16.1	9.8	4.2
Median duration of treatment, mo (range)	17.0 (0.1, 39.1)	11.0 (0.1, 40.0)	7.8 (0.1, 37.0)

Motzer R et al. *N Engl J Med*. 2021;384:1289-1300.

CI, confidence interval; HR, hazard ratio; NE, not estimable; NR, not reached.

Presented By: Dr. Robert Motzer

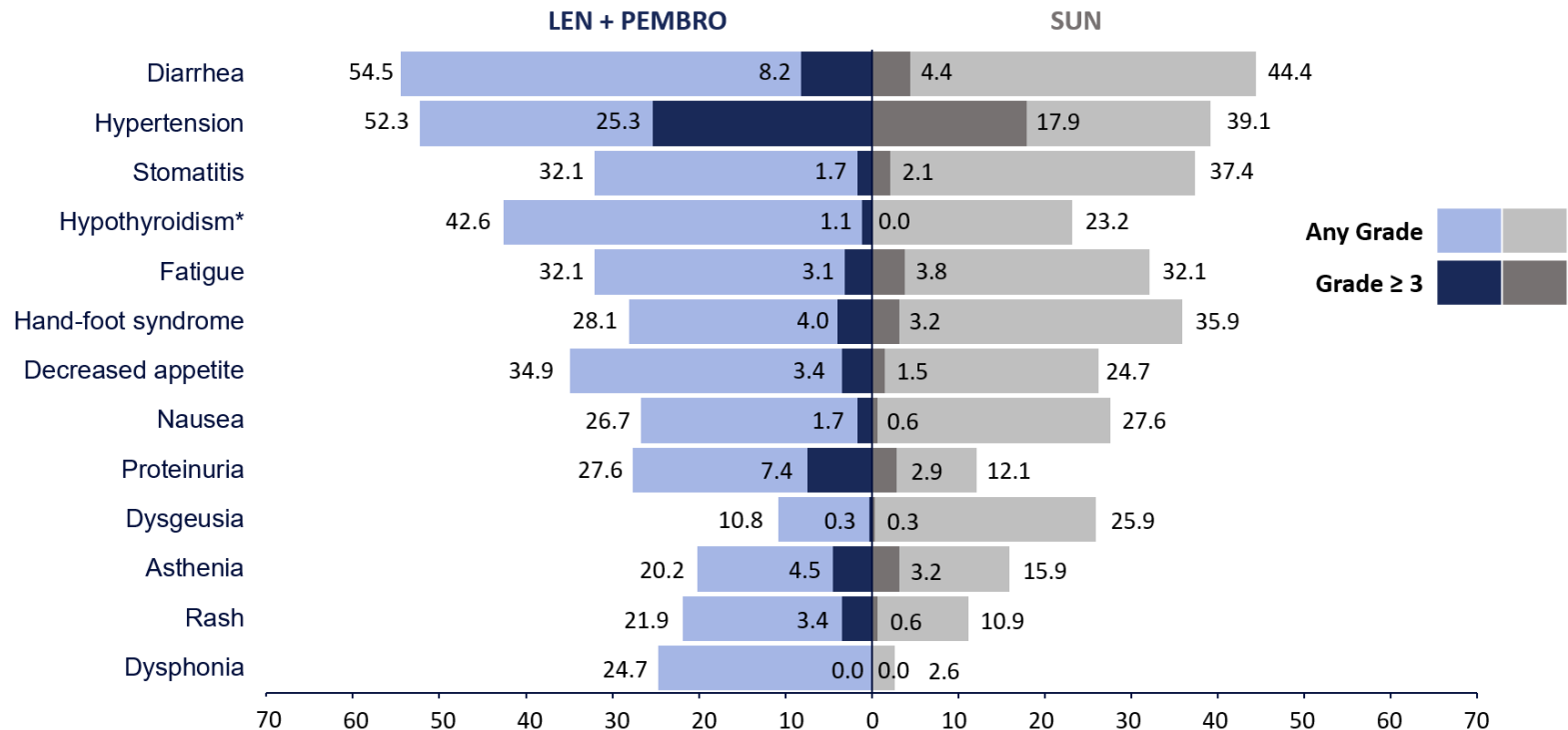
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2021 ASCO
ANNUAL MEETING

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Lenvatinib + Pembrolizumab

TRAEs With Frequency $\geq 20\%$

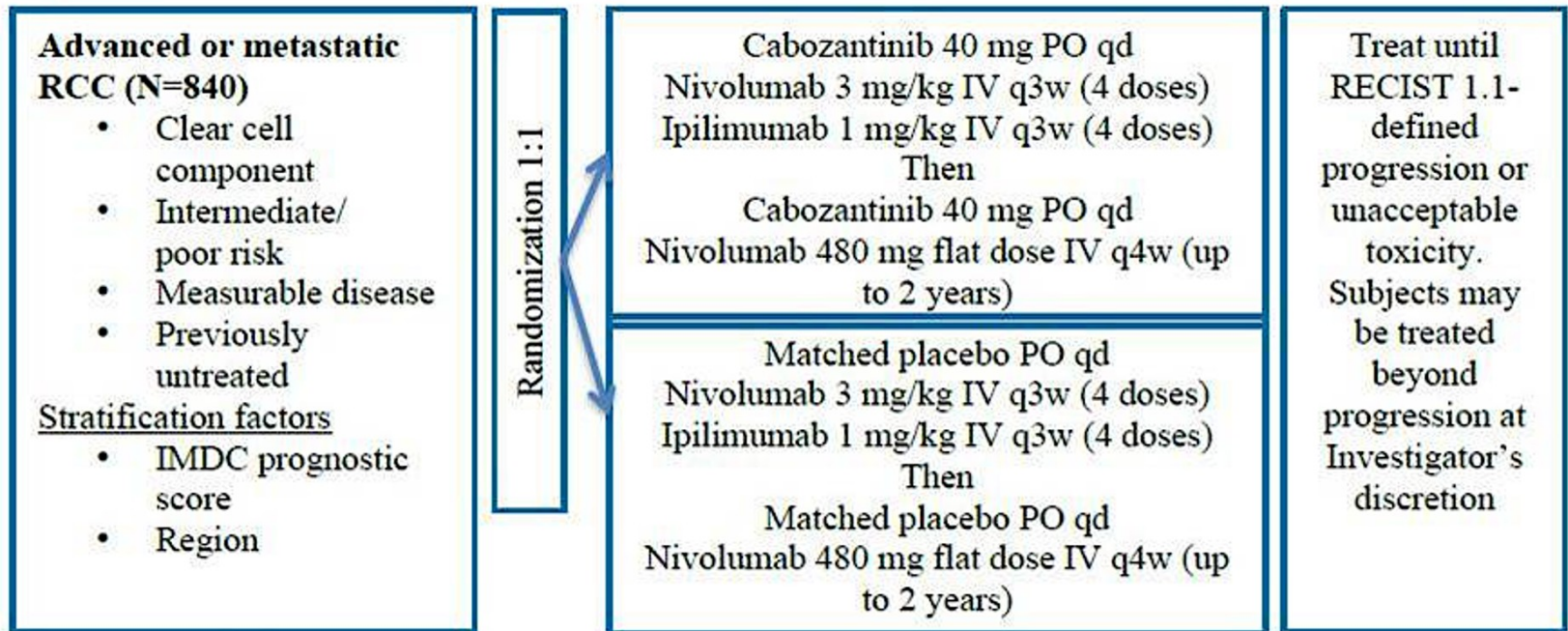


Alanine aminotransferase/aspartate aminotransferase increased in 9.7/9.4% (grade 3: 3.1/2.6%) of patients in the LENV + PEMBRO arm and 8.8/8.8% of patients (grade 3: 1.8/0.6%) in the SUN arm.

*Adverse event of interest for pembrolizumab.

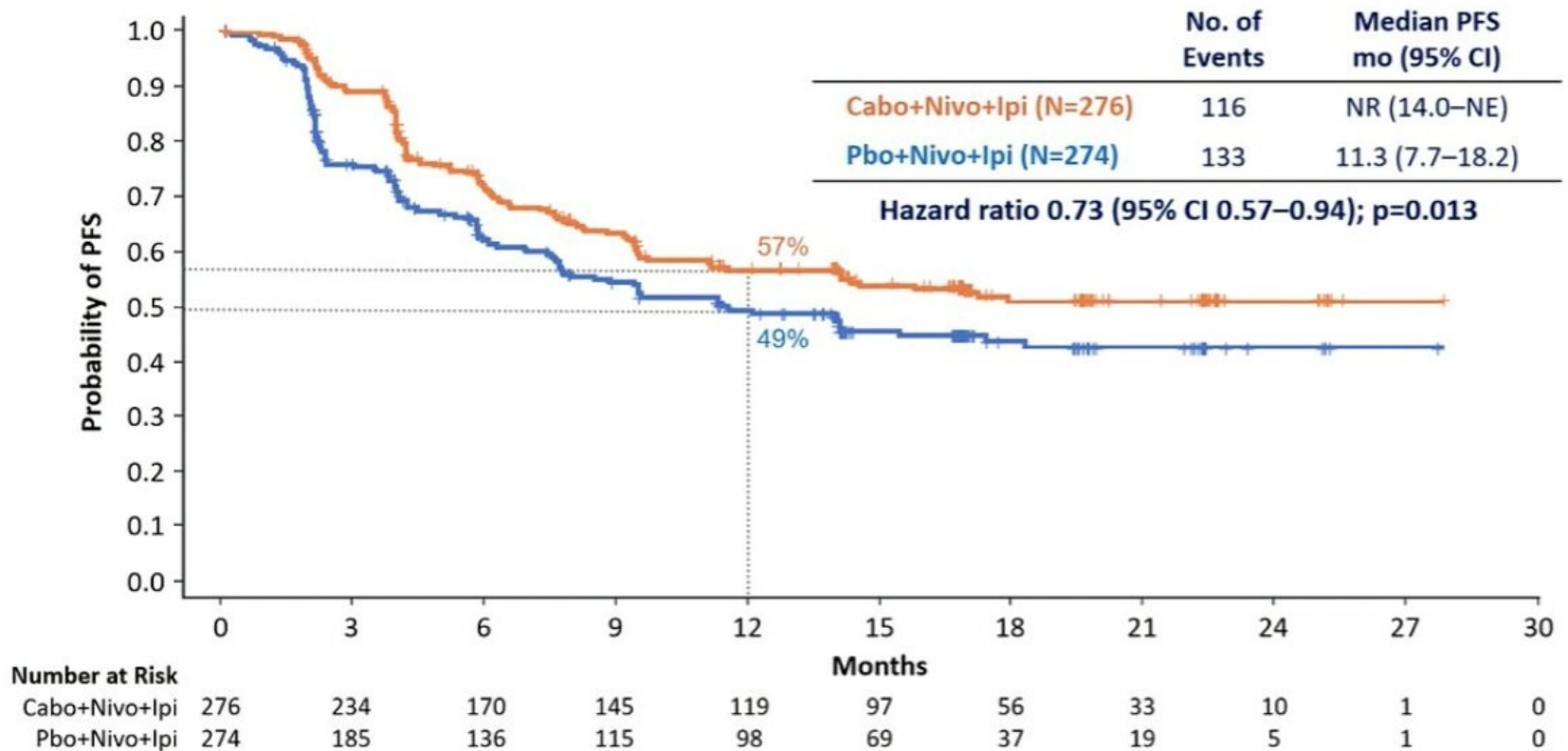
Courtesy of Thomas Powles, MBBS, MRCP, MD

COSMIC-313



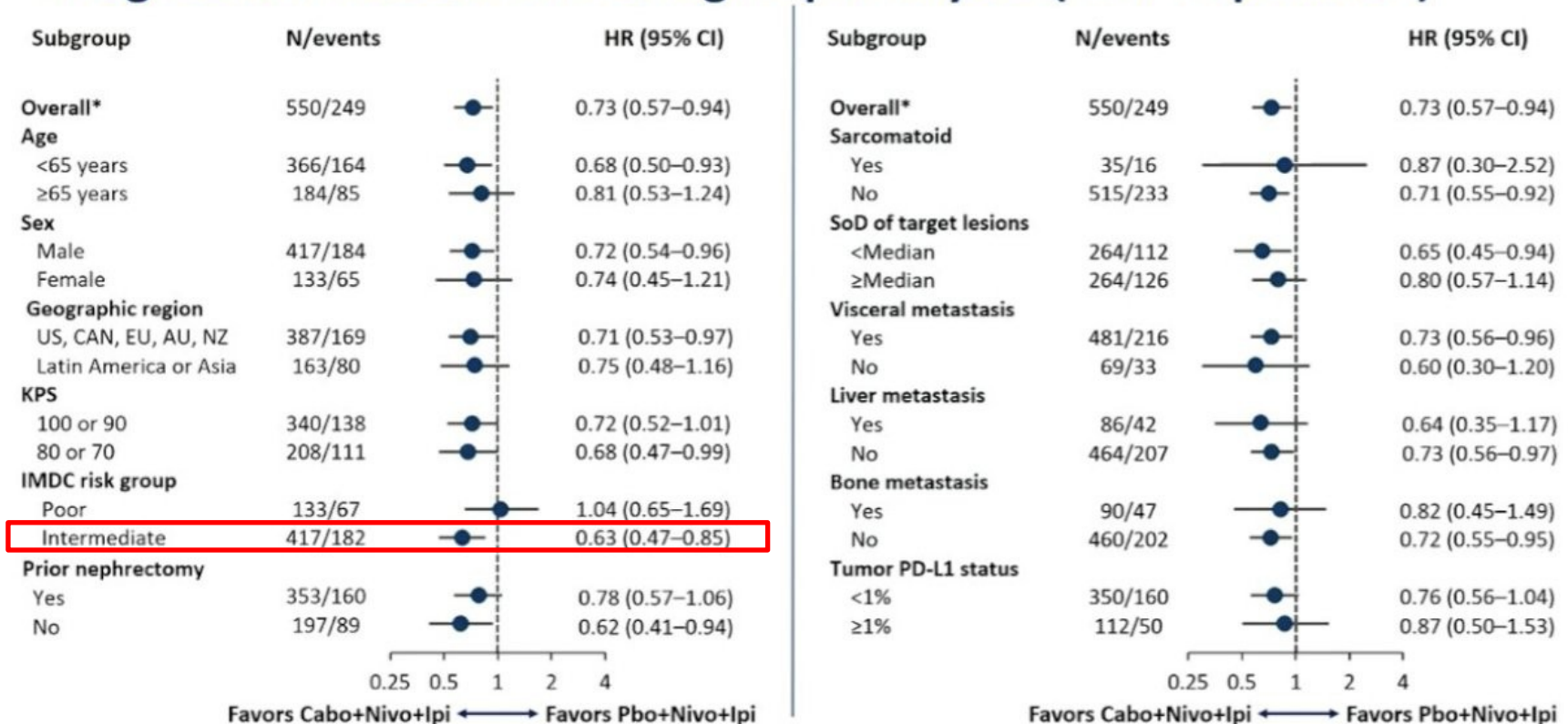
IMDC, international metastatic renal cell carcinoma database consortium; IV, intravenous; PO, oral administration; qd, once daily; q3(4)w once every 3(4) weeks; RECIST, response evaluation criteria in solid tumors; RCC, renal cell carcinoma

Progression-Free Survival: Final Analysis (PITT Population)



Metastatik RCC Birinci Basamak Tedavi Nivolumab + Ipilimumab+Cabozantinib

Progression-Free Survival Subgroup Analyses (PITT Population)



Metastatik RCC Birinci Basamak Tedavi Nivolumab + Ipilimumab+Cabozantinib

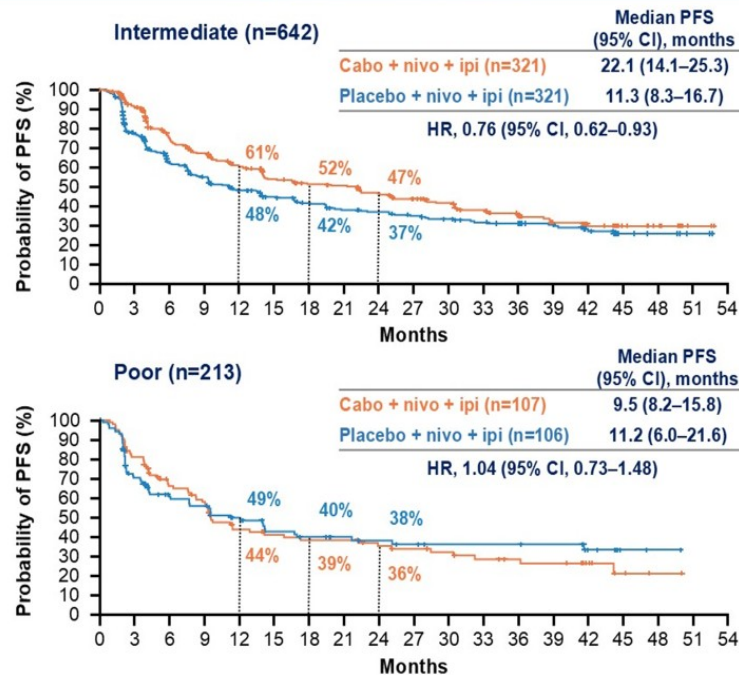
	Cabo+Nivo+Ipi (N=276)	Pbo+Nivo+Ipi (N=274)
Objective response rate (95% CI), %	43 (37.2–49.2)	36 (30.1–41.8)
Best overall response, n (%)		
Complete response	7 (3)	9 (3)
Partial response	112 (41)	89 (32)
Stable disease	119 (43)	100 (36)
Progressive disease	23 (8)	55 (20)
Not evaluable	15 (5)	21 (8)
Disease control rate, %	86	72
Median time to objective response (range), mo	2.4 (1.5–17.1)	2.3 (1.9–16.8)
Median duration of response (95% CI), mo	NR (20.2–NE)	NR (NE–NE)

Cosmic 313 clinical trial

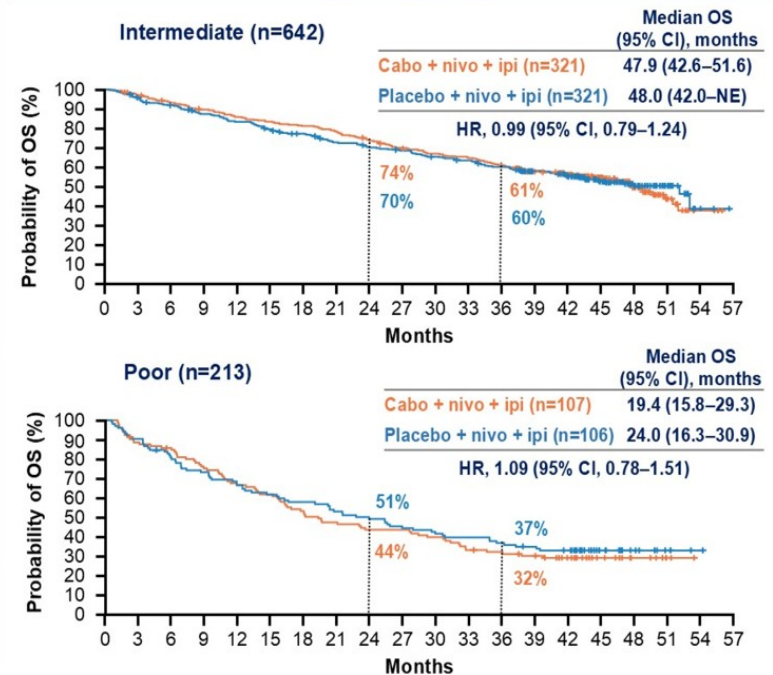
Metastatik RCC Birinci Basamak Tedavi

Nivolumab + Ipilimumab+Cabozantinib

Progression-free survival



Overall survival



Median follow-up of 45.0 months.
NE, not estimable.

Metastatik RCC Birinci Basamak Tedavi Nivolumab + Ipilimumab+Cabozantinib

Treatment Exposure and Discontinuation (**Safety** Population)

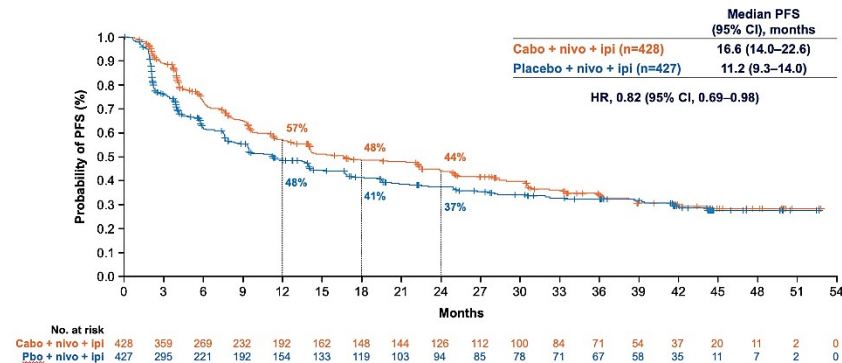
	Cabo+Nivo+Ipi (N=426)	Pbo+Nivo+Ipi (N=424)
Median duration of exposure of study treatment (range), mo	10.9 (0.2–28.5)	10.3 (0.1–28.1)
Median average daily dose (range) of Cabo or Pbo, mg	23.2 (3.6–40.0)	36.1 (0.8–40.0)
Median Nivo infusions (range) received, no	10 (1–27)	9 (1–27)
Doses of Ipi received, %		
4	58	73
3	13	14
2	22	7
1	7	6
Any dose hold due to an AE, %	90	70
Any dose reduction of Cabo or Pbo due to an AE, %	54	20
Treatment-related AE leading to discontinuation, %		
Any study treatment	45	24
Cabo or Pbo	28	14
Nivo	26	18
Ipi	30	12
All treatment components (due to the same AE)	12	5

Data cut-off: Jan 31, 2022

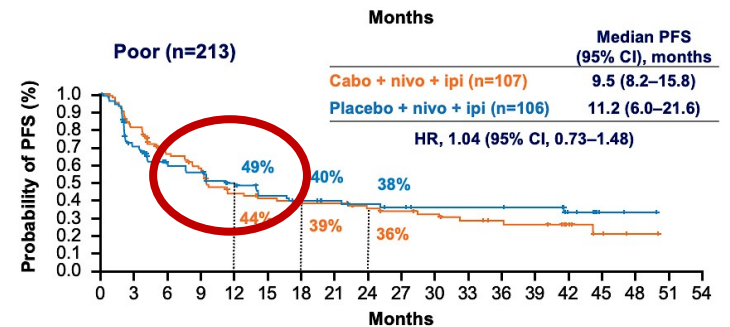
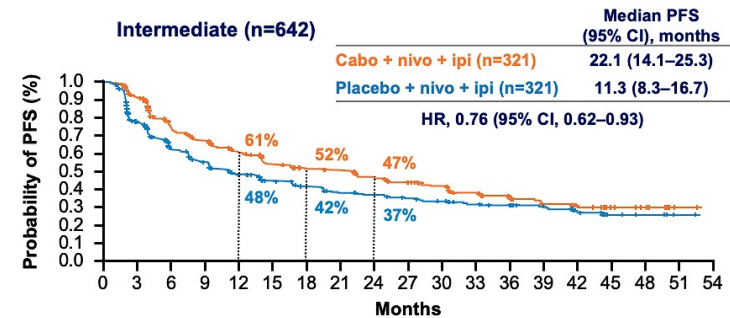
Metastatik RCC Birinci Basamak Tedavi Nivolumab + Ipilumumab+Cabozantinib

Updated PFS in the ITT Population

PFS benefit was maintained with longer follow-up



No overall survival benefit for cabo-ipi-nivo



Metastatik RCC Birinci Basamak Tedavi Nivolumab + Ipilimumab+Cabozantinib

	Cabo + nivo + ipi (n=426)		Placebo + nivo + ipi (n=423)
Median duration of exposure of study treatment, months (range)	13.7 (0.2–53.4)		10.3 (0.1–55.3)
Median average daily dose of cabo/placebo, mg (range)	22.4 (3.6–40.0)	<	35.2 (0.8–40.0)
Median nivo infusions per patient, n (range)	11.0 (1–52)		9.0 (1–48)
1 / 2 / 3 / 4 cycles of ipi administered, %	7 / 22 / 13 / 58	<	6 / 7 / 13 / 74
Dose modification (any treatment component) due to AE, %	92		76
Treatment-related AE leading to discontinuation of ≥1 component, %	49		26

Triplet therapy:

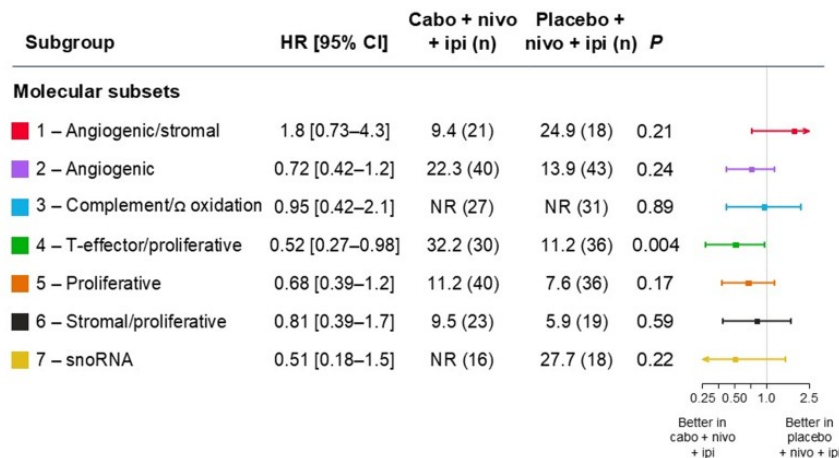
- Less average daily dose of cabozantinib
- Fewer received 4 cycles of ipilimumab
- Almost all patients had dose modification & half discontinued at least 1 study treatment

Metastatik RCC Birinci Basamak Tedavi Nivolumab + Ipilimumab+Cabozantinib

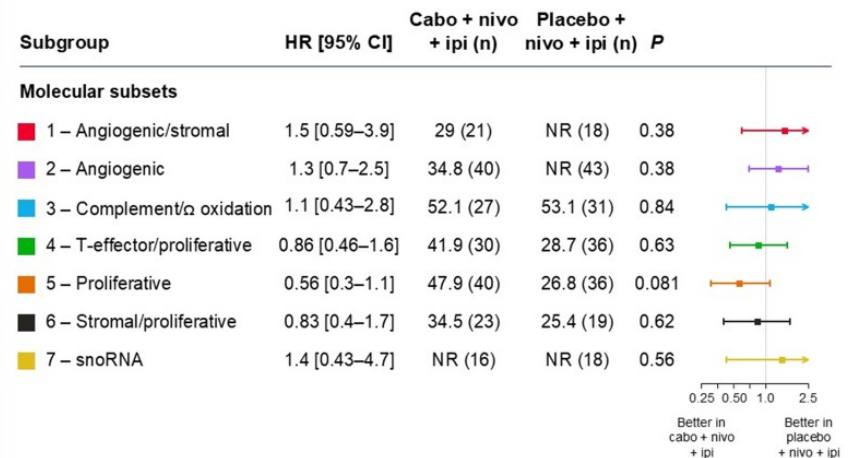
Association of Molecular Clusters With PFS and OS

- No clear association between molecular clusters and clinical outcomes was observed; however, the sample sizes in each cluster were small

Progression-free survival



Overall survival



Median follow-up of 45.0 months.

Metastatik RCC Birinci Basamak Tedavi Nivolumab + Ipilimumab+Cabozantinib

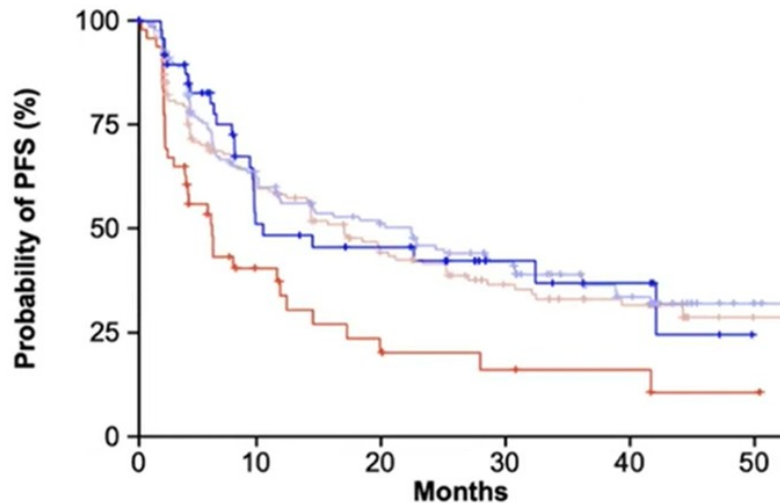
M2-like Macrophage-Mediated Immune Suppression

Progression-free survival

M2-like low	Median PFS (95% CI), months	M2-like high	Median PFS (95% CI), months
Cabo + nivo + ipi (n=147)	22.1 (11.4–30.6)	Cabo + nivo + ipi (n=50)	10.1 (9.23–NE)
Placebo + nivo + ipi (n=151)	16.7 (12–25)	Placebo + nivo + ipi (n=50)	5.95 (3.81–12)

HR, 0.89 (95% CI, 0.66–1.2), $P=0.44$

HR, 0.48 (95% CI, 0.29–0.81), $P=0.0058$



Median follow-up of 45.0 months.

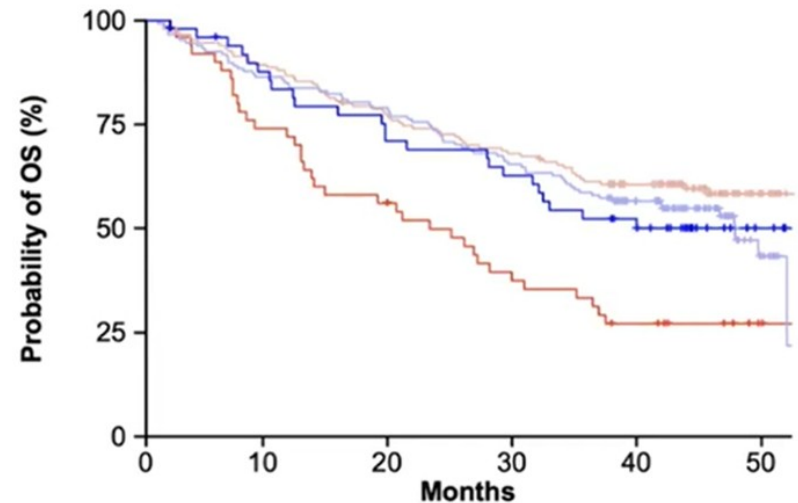
A cox univariate model with different quantiles of M2-like macrophage level was used to determine the cutoff with the minimum hazard ratio. Patients with M2-like macrophage level in the top 25% were classified as M2-like high.

Overall survival

M2-like low	Median OS (95% CI), months	M2-like high	Median OS (95% CI), months
Cabo + nivo + ipi (n=147)	47.8 (36.8–NE)	Cabo + nivo + ipi (n=50)	39.9 (31.4–NE)
Placebo + nivo + ipi (n=151)	NE (NE–NE)	Placebo + nivo + ipi (n=50)	23 (13.4–35)

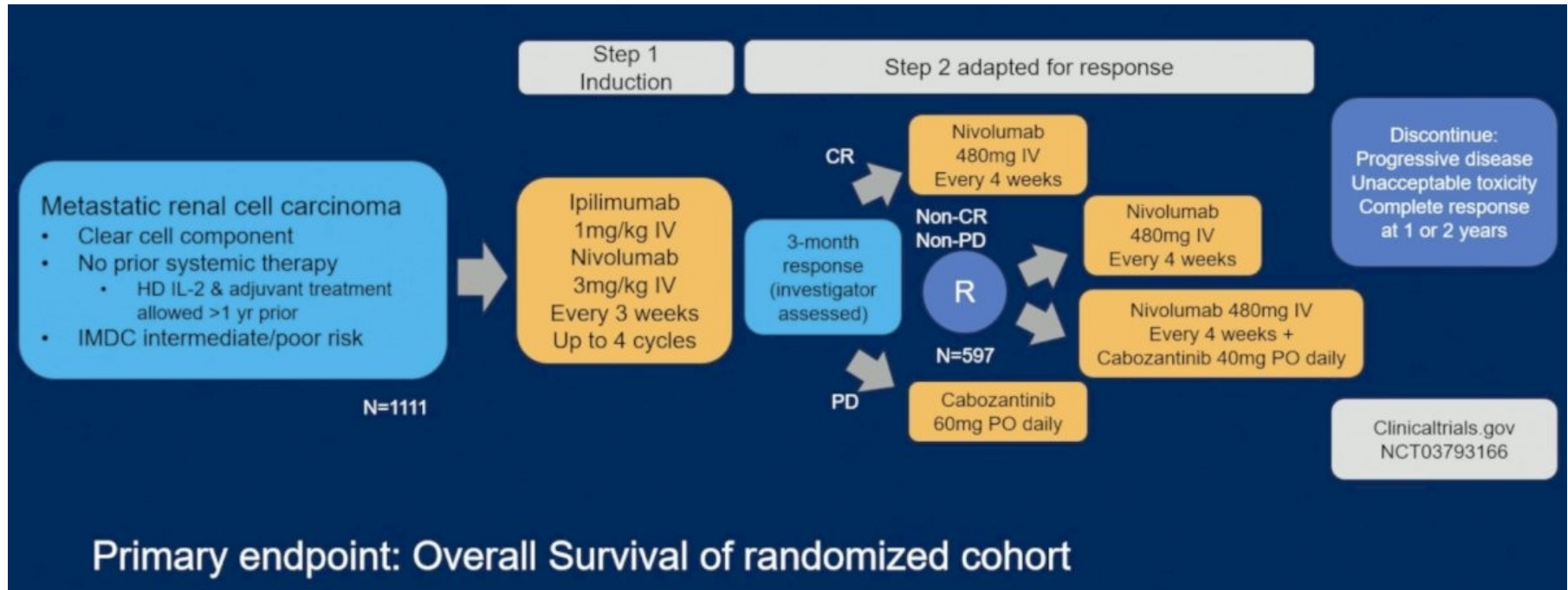
HR, 1.2 (95% CI, 0.88–1.7), $P=0.23$

HR, 0.51 (95% CI, 0.31–0.86), $P=0.012$



Metastatik RCC Birinci Basamak Tedavi Seçenekleri

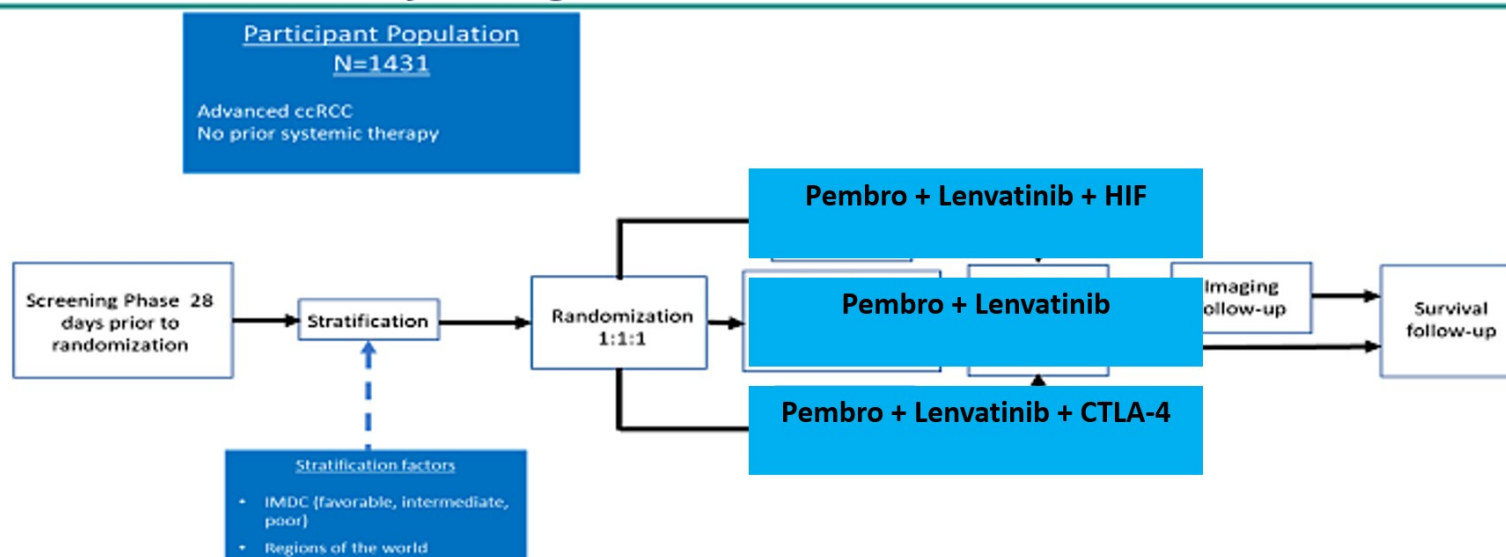
Gelecek Perspektif



Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Gelecek Perspektif

MK-6482-012 Study Design



- Abbreviations: IMDC = International Metastatic Renal Cell Carcinoma Database Consortium; ccRCC = clear cell renal cell carcinoma.
- a. The treatment arms are the HIF triplet (MK-6482 + pembrolizumab + lenvatinib), the CTLA4 triplet (MK-1308A + lenvatinib), and the doublet (pembrolizumab + lenvatinib). Note: MK-1308A is a coformulation of pembrolizumab and MK-1308
- Global Study- ~225 sites, 33 countries



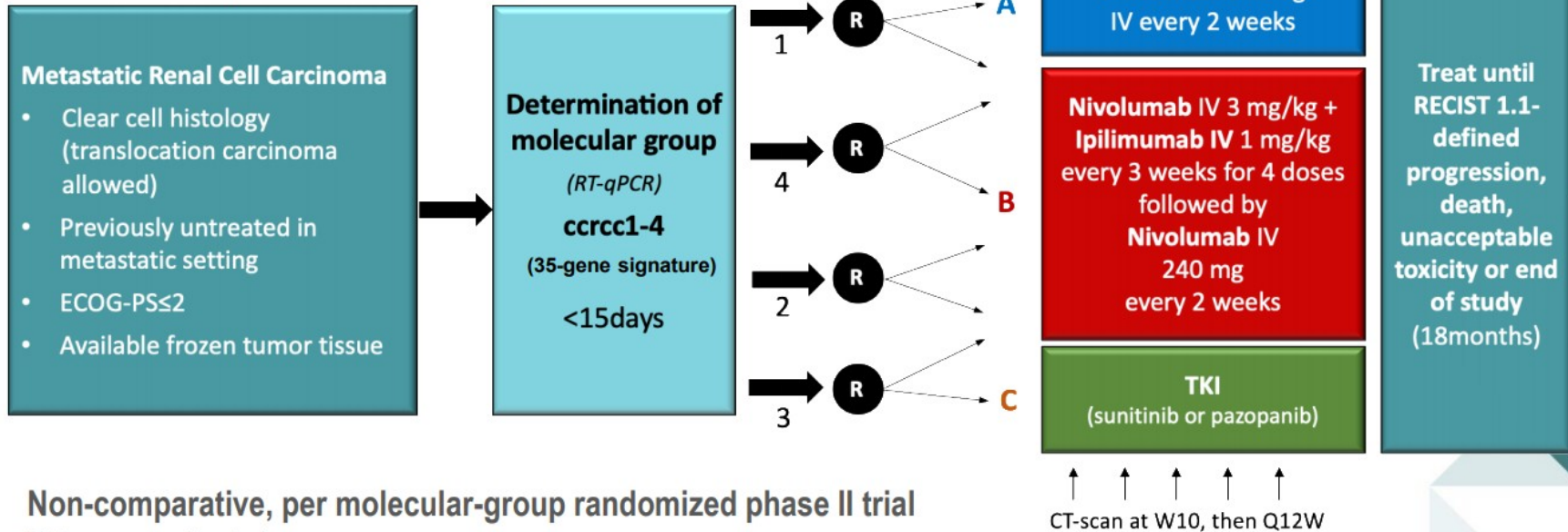
Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Gelecek Perspektif



METHODS: study design

BIONIKK (NCT02960906)



Non-comparative, per molecular-group randomized phase II trial

Primary endpoint:

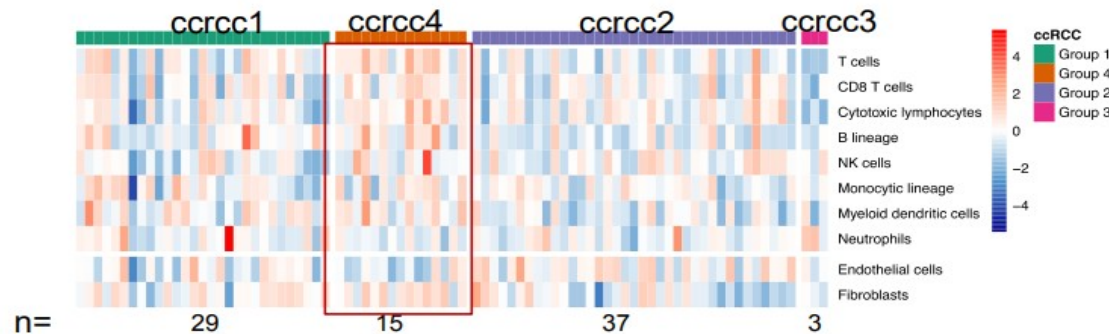
Overall response rate (ORR: CR+PR) using RECIST 1.1 per investigator

Metastatik RCC Birinci Basamak Tedavi Seçenekleri Gelecek Perspektif



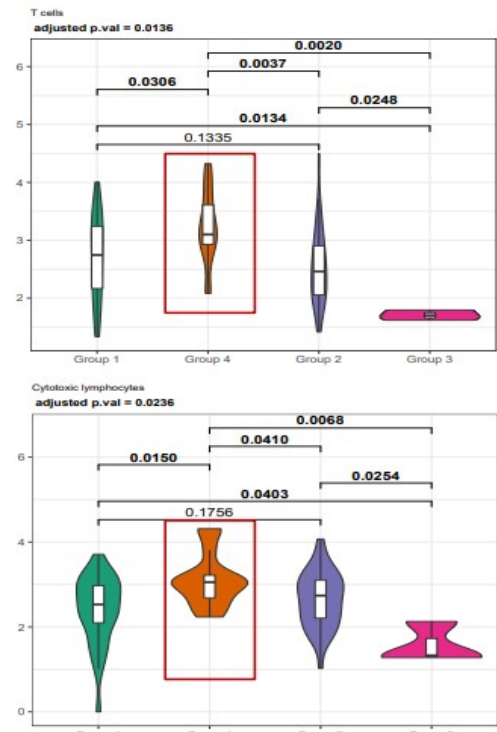
RESULTS: transcriptomic analysis of immune cells distribution

- We applied MCP-Counter deconvolution algorithm¹ on transcriptomic data from 84 FFPE tumor samples (3'RNAseq)
- We found that ccrcc4 tumors are the most infiltrated by immune cells, in particular cytotoxic lymphocytes



- Analysis of the correlation between TME and outcomes is ongoing

¹Becht et al. Genome Biology 2016



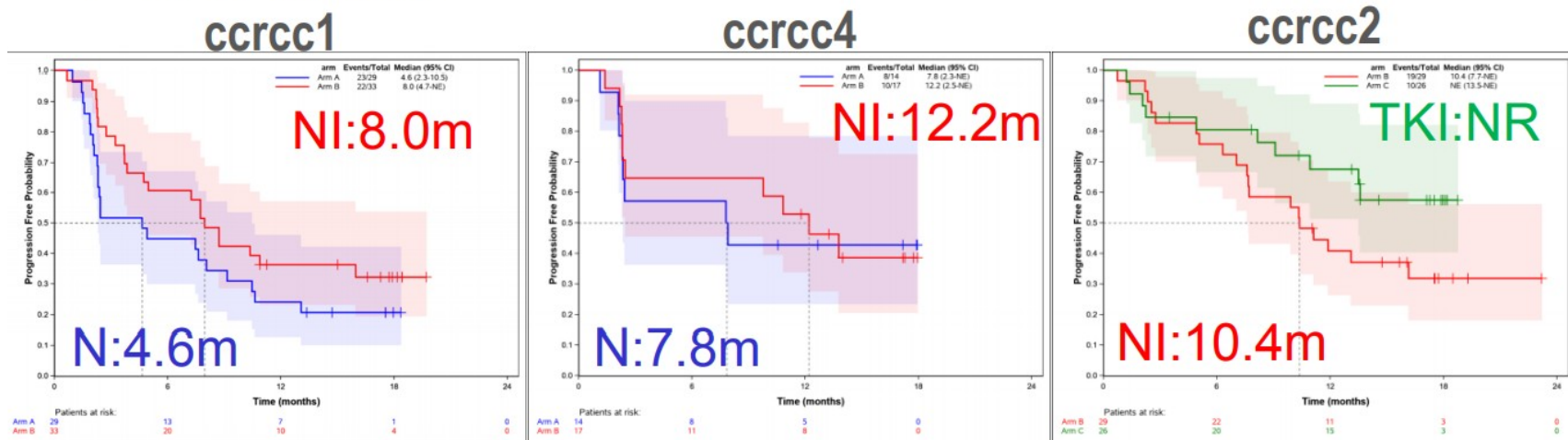
Metastatik RCC Birinci Basamak Tedavi Seçenekleri Gelecek Perspektif



RESULTS: Progression Free Survival (PFS)

Target cohort (TCE, n=154)

Median follow-up: 16 months



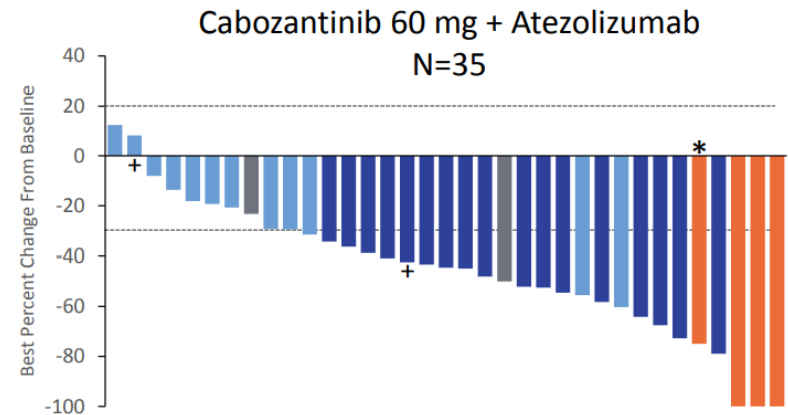
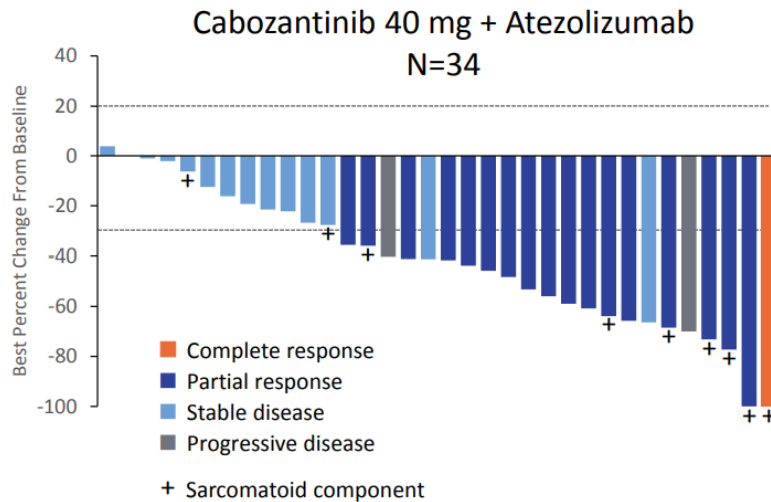
ccrcc3 No KM curve showed here because of the limited number of pts (n=6)

Overall Survival (OS) is not mature (16% of events)

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Gelecek Perspektif

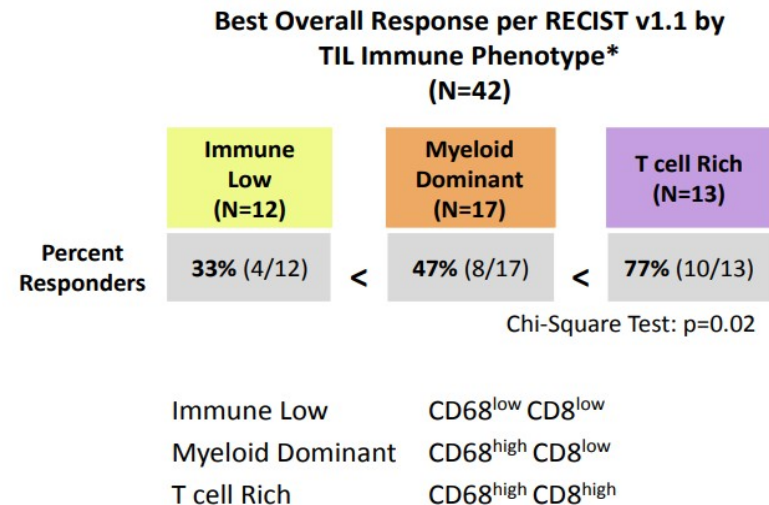
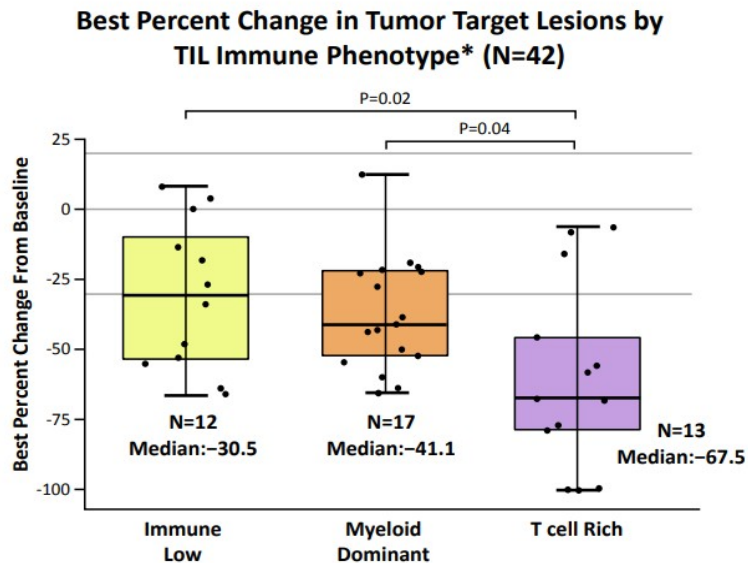
Best Change From Baseline in Sum of Target Lesions



- Any reduction in tumor target lesions occurred for 94% of the 40 mg cabozantinib cohort and 92% of the 60 mg cabozantinib cohort

Metastatik RCC Birinci Basamak Tedavi Seçenekleri Gelecek Perspektif

Tumor Infiltrating Lymphocytes (TIL) at Baseline with Lesion Change and Response



- The T cell Rich tumors were associated with greater tumor shrinkage from baseline and higher overall response

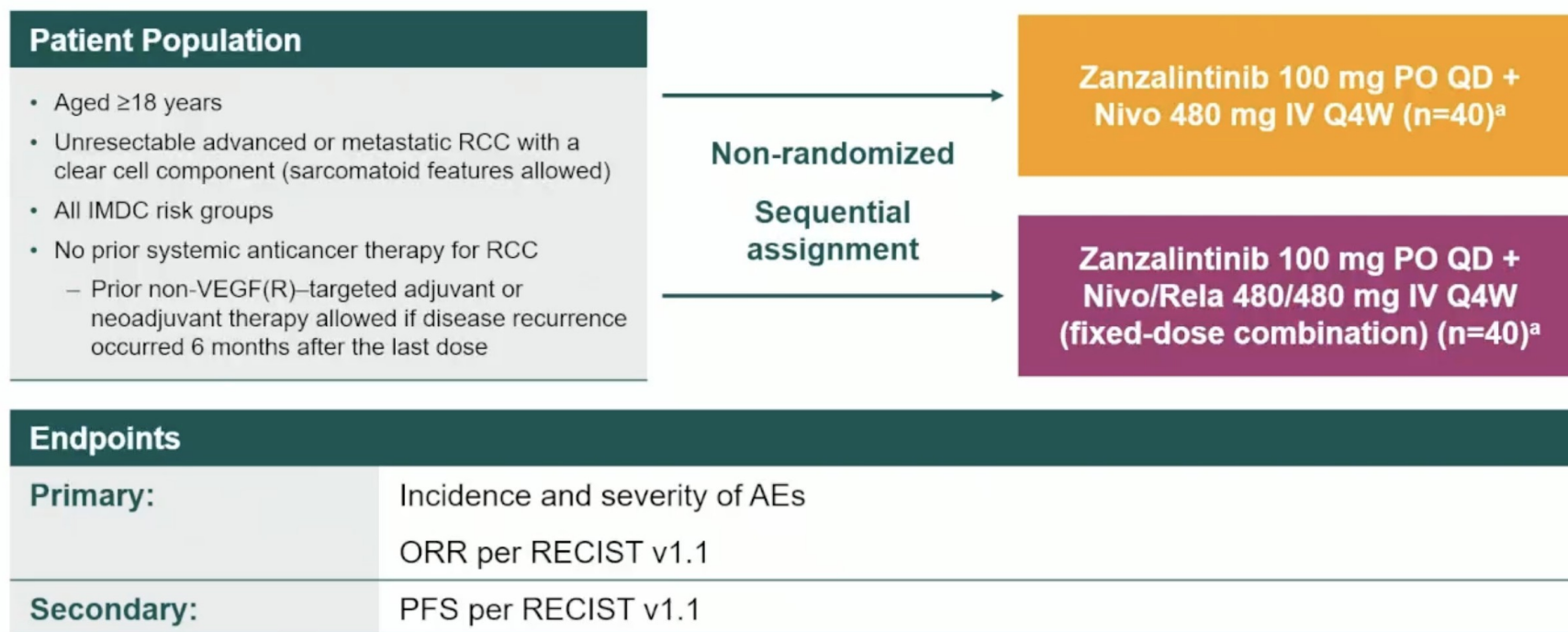
*Both ccRCC dose groups are included in the analyses.

*Analyses by immunohistochemistry of CD68 (myeloid cells) and CD8 (cytotoxic T cells) with a cutoff of 20% for high vs low cell frequency showed three immune phenotypes; CD68^{low} CD8^{high} was not observed.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Gelecek Perspektif

STELLAR-002 (NCT05176483): 1L ccRCC Expansion Cohort



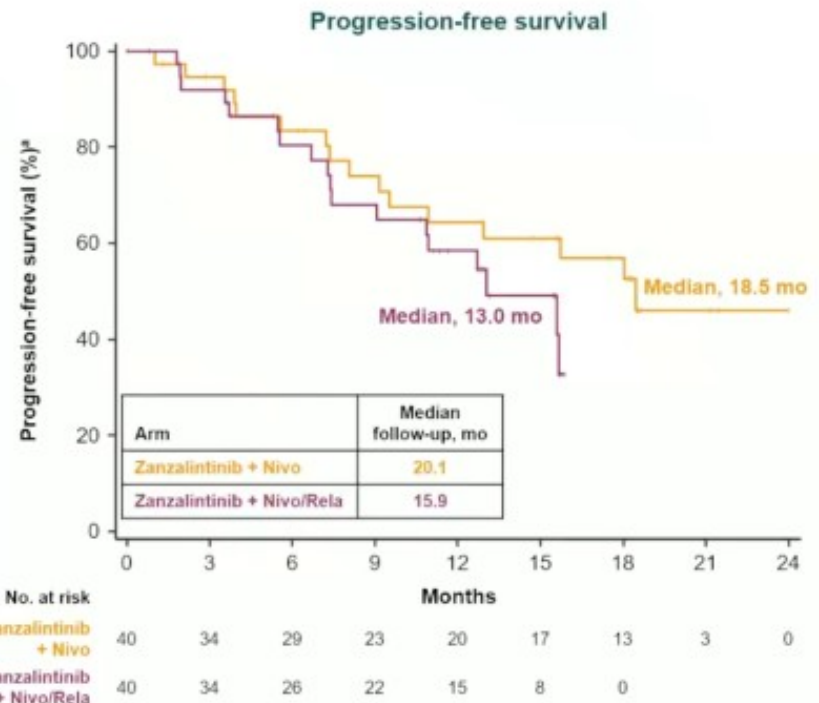
^aPatients were allowed to receive treatment beyond radiographic progression if the investigator believed they were receiving clinical benefit.

1L, first-line; AE, adverse event; IMDC, International Metastatic RCC Database Consortium; IV, intravenously; Nivo, nivolumab; ORR, objective response rate; PFS, progression-free survival; PO, orally; Q4W, every 4 weeks; QD, once daily; RCC, renal cell carcinoma; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1; Rela, relatimab.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri Gelecek Perspektif

Antitumor Activity Summary

	Zanzalintinib + Nivo (n=40)	Zanzalintinib + Nivo/Rela (n=40)
ORR (95% CI), %	63 (46–77)	40 (25–57)
Confirmed CR, n (%)	3 (8)	1 (3)
Confirmed PR, n (%)	22 (55)	15 (38)
SD, n (%)	11 (28)	20 (50)
PD, n (%)	2 (5)	3 (8)
DCR (95% CI), %	90 (76–97)	90 (76–97)
Median DOR (95% CI), months	NE (11.1–NE)	NE (4.0–NE)
12-month DOR (95% CI), %	73.4 (50.0–87.1)	74.1 (39.1–90.9)
Median TTR (range), months	2.1 (1.7–11.0)	3.6 (1.7–12.8)
Median PFS (95% CI), months	18.5 (9.5–NE)	13.0 (7.4–NE)
6-month PFS (95% CI), %	83.4 (66.8–92.2)	80.4 (63.1–90.2)
12-month PFS (95% CI), %	64.4 (45.7–78.1)	58.4 (39.9–73.0)

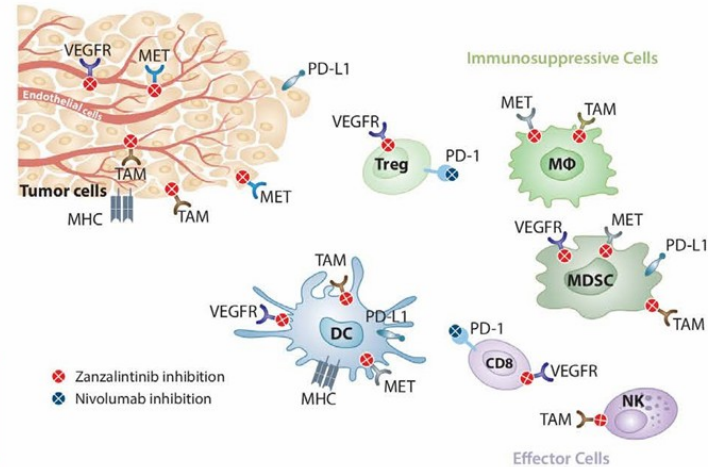
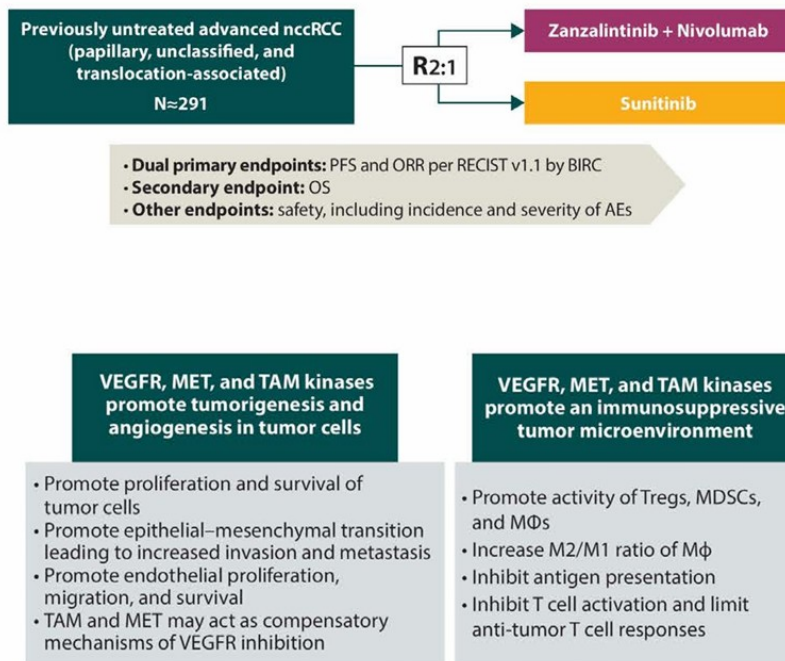


Per RECIST v1.1. *Kaplan-Meier estimate.

CI, confidence interval; DCR, disease control rate; DOR, duration of response; mo, months; NE, not estimable; TTR, time to objective response.

Metastatik RCC Birinci Basamak Tedavi Seçenekleri Gelecek Perspektif

Phase III STELLAR-304 Trial: Zanzalintinib with Nivolumab



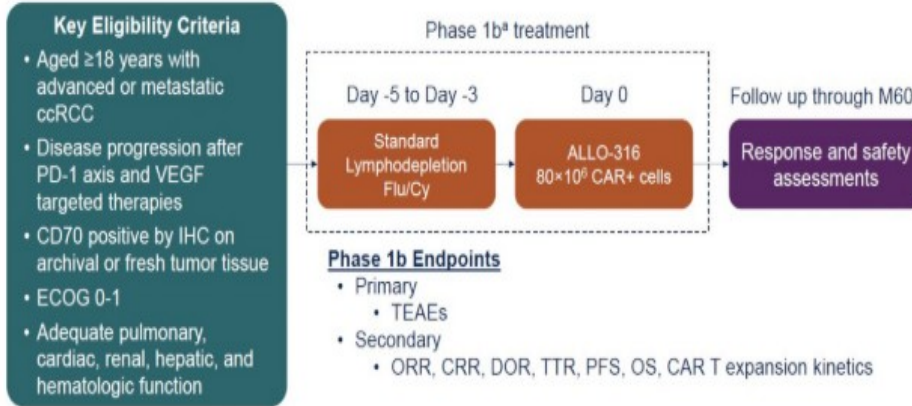
Zanzalintinib and nivolumab combination

- Zanzalintinib inhibits VEGFR, MET, and TAM kinases and may enhance the activity of nivolumab by promoting an immune-permissive tumor microenvironment
- Nivolumab binds to the PD-1 receptor on immune cells and blocks interactions with ligands, such as PD-L1, which restores T-cell activation and increases antitumor effects

Metastatik RCC Birinci Basamak Tedavi Seçenekleri

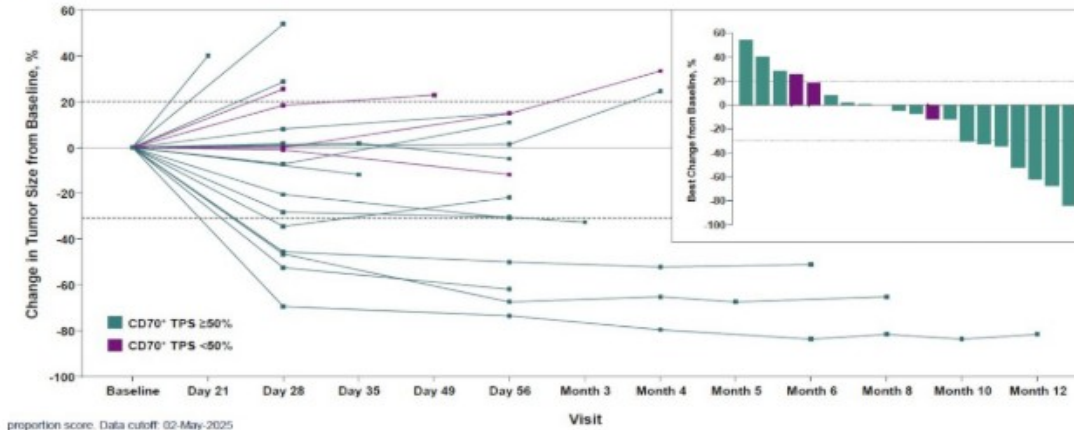
Gelecek Perspektif

TRAVERSE Phase 1b Study Design (NCT04696731)



Tümör yanıtları erken dönemde ortaya çıktı ve ALLO-316'nın tek seferlik infüzyonunu takiben devam etti.

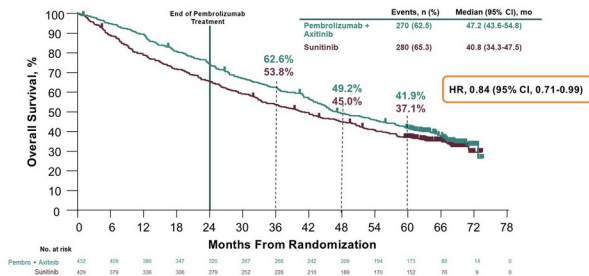
CD70+ TPS $\geq 50\%$ olan hastaların %44'ünde (7/16), başlangıçtaki hedef lezyonların çaplarında %30'dan fazla azalma görüldü



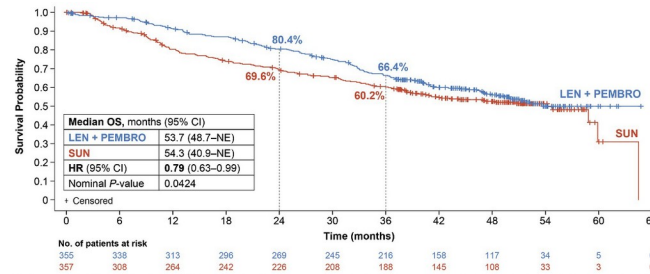
Metastatik RCC Birinci Basamak Tedavi Seçenekleri

Karşılaştırmalar

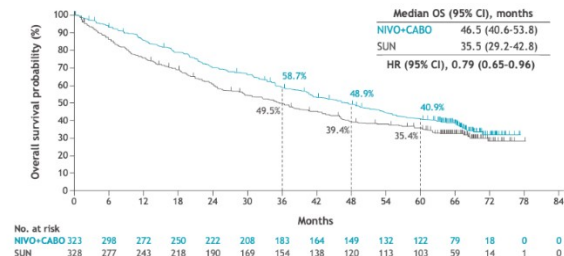
Keynote 426: OS
(5yr follow up)



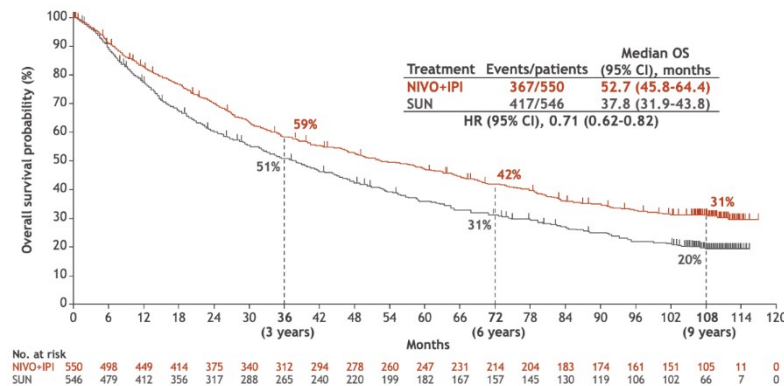
CLEAR/Keynote 581: OS
(4yr follow up)



Checkmate 9ER OS
(5yr follow up)

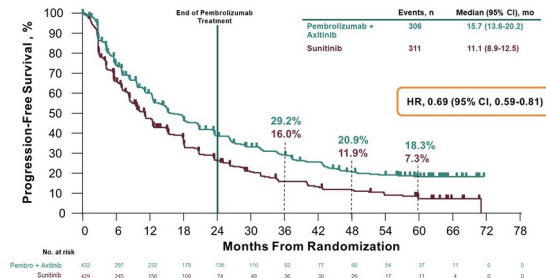


Checkmate 214 – 9yr follow up OS

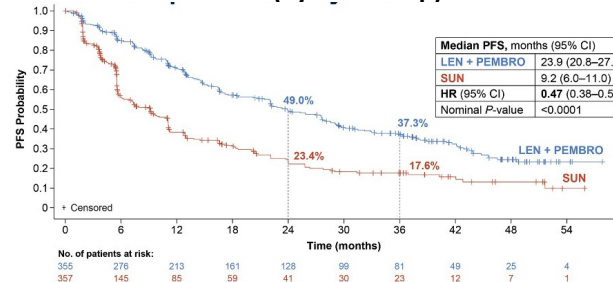


Metastatik RCC Birinci Basamak Tedavi Seçenekleri Karşılaştırmalar

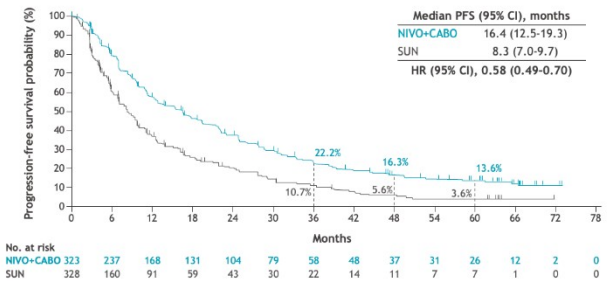
**Keynote 426: PFS
ITT (5yr follow up)**



**CLEAR/Keynote 581: PFS
(4yr follow up)**

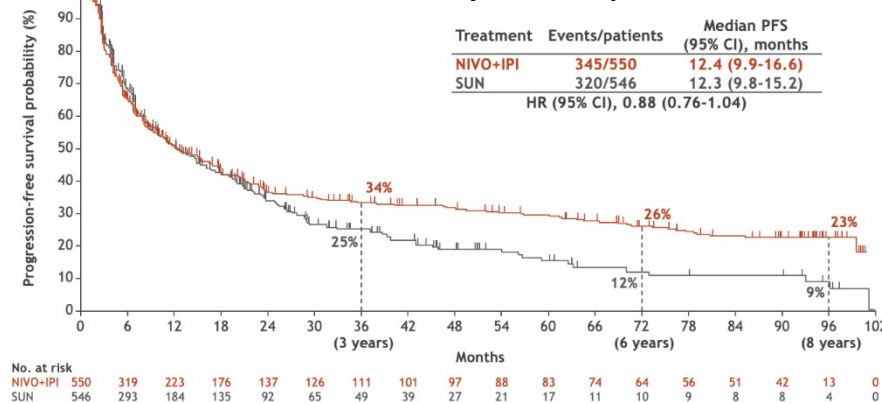


**Checkmate 9ER PFS:
67mo follow up**



Abstract 4505

Checkmate 214 – 9yr follow up PFS



Choueiri TK et al, ASCO 2025
Rini BI et al, ASCO 2023
Motzer RJ et al, *NEJM*, 2021
Motzer RJ et al, GU ASCO, 2025

Metastatik RCC Birinci Basamak Tedavi Seçenekleri



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PRINCIPLES OF SYSTEMIC THERAPY FOR RELAPSE OR STAGE IV DISEASE

FIRST-LINE THERAPY FOR CLEAR CELL HISTOLOGY			
Risk	Preferred Regimens	Other Recommended Regimens	Useful in Certain Circumstances
Favorable ^a	• Axitinib + pembrolizumab^b (category 1) • Cabozantinib + nivolumab^b (category 1) • Lenvatinib + pembrolizumab^b (category 1)	• Axitinib + avelumab^b • Cabozantinib (category 2B) • Ipilimumab + nivolumab^b • Pazopanib • Sunitinib	• Active surveillance^c • Axitinib (category 2B) • High-dose IL-2^d (category 2B)
Poor/ intermediate ^a	• Axitinib + pembrolizumab^b (category 1) • Cabozantinib + nivolumab^b (category 1) • Ipilimumab + nivolumab^b (category 1) • Lenvatinib + pembrolizumab^b (category 1) • Cabozantinib	• Axitinib + avelumab^b • Pazopanib • Sunitinib	• Axitinib (category 2B) • High-dose IL-2^d (category 3) • Temsirolimus^e (category 3)

SUBSEQUENT THERAPY FOR CLEAR CELL HISTOLOGY		
Preferred Regimens	Other Recommended Regimens	Useful in Certain Circumstances
• Cabozantinib (category 1) • Lenvatinib + everolimus • Nivolumab^b (category 1)	• Axitinib (category 1) • Axitinib + pembrolizumab^b • Cabozantinib + nivolumab^b • Ipilimumab + nivolumab^b • Lenvatinib + pembrolizumab^b • Pazopanib • Sunitinib • Tivozanib^g (category 1) • Axitinib + avelumab^b (category 3)	• Everolimus • Bevacizumab^f (category 2B) • High-dose IL-2 for selected patients^d (category 2B) • Sorafenib (category 3) • Temsirolimus^e (category 2B) • Belzutifan (category 2B)

Metastatik RCC Birinci Basamak Tedavi Seçenekleri



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NCCN Guidelines Version 1.2026 Kidney Cancer

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PRINCIPLES OF SYSTEMIC THERAPY FOR STAGE IV (M1 OR UNRESECTABLE T4, M0) OR RELAPSED DISEASE

FIRST-LINE THERAPY FOR CLEAR CELL HISTOLOGY (IN ALPHABETICAL ORDER BY CATEGORY)			
Risk	Preferred	Other Recommended	Useful in Certain Circumstances
Favorable ^a	• Axitinib + Pembrolizumab^b (category 1) • Cabozantinib + Nivolumab^{b,c} (category 1) • Ipilimumab + Nivolumab^{b,d} (category 1) • Lenvatinib + Pembrolizumab^b (category 1)	• Axitinib + Avelumab^b • Pazopanib • Sunitinib • Cabozantinib (category 2B)	• Active surveillance^{1,2,3} • Axitinib (category 2B)
Poor/ intermediate ^a	• Axitinib + Pembrolizumab^b (category 1) • Cabozantinib + Nivolumab^{b,c} (category 1) • Ipilimumab + Nivolumab^{b,d} (category 1) • Lenvatinib + Pembrolizumab^b (category 1) • Cabozantinib	• Axitinib + Avelumab^b • Pazopanib • Sunitinib	• Axitinib (category 2B)

Evre IV RCC Birinci Basamak Tedavi

Özet 1

Final Results of First-line IO Combination Trials in mRCC (ITT population)

	CheckMate 214 (Ipi/Nivo) ¹ (n=550 vs n=546)	KEYNOTE-426 (Axi/Pembro) ² (n=432 vs n=429)	CheckMate 9ER (Cabo/Nivo) ³ (n=323 vs n=328)	CLEAR (Len/Pembro) ⁴ (N=355 vs n=357)
OS HR mOS, months	0.71 52.7 vs 37.8	0.84 47.2 vs 40.8	0.79 46.5 vs 35.5	0.79 53.7 v. 54.3
Landmark OS	42% at 6 years 31% at 9 years	42% at 5 years	41% at 5 years	66% at 3 years
PFS HR mPFS, months	0.88 12.4 vs 12.3	0.69 15.7 vs 11.1	0.58 16.4 vs 8.3	0.47 23.9 vs 9.2
Landmark PFS	26% at 6 years 23% at 8 years	18% at 5 years	14% at 5 years	37% at 3 years
ORR, %	40 vs 33	61 vs 40	56 vs 27	71 vs 37
CR, %	12 vs 3	12 vs 4	14 vs 5	18 vs 4
Median f/u	9.3 years	5.6 years	5.6 years	4.2 years
Primary PD	18%	12%	7%	5%

1. Choueiri et al. ASCO 2025
3. Motzer et al ASCO GU 2025

2. Rini et al. Nature Medicine (submitted)
4. Motzer et al. JCO 2024



@brian_rini and @Uromigos (podcasts: <https://podcasters.spotify.com/pod/show/the-uromigos>)

Evre IV RCC Birinci Basamak Tedavi

Özet 2

	Ipilimumab + Nivolumab	Nivolumab + Cabozantinib	Pembrolizumab + Lenvatinib	Pembrolizumab + Axitinib	Cabozantinib + Ipilimumab + Nivolumab
Population	• Int/poor risk	• All	• All	• All	• All
Pros	- No TKI toxicity - Maintenance with nivo only after 12 weeks, QOL benefit - Chance for durable response	- QOL benefit - Cabozantinib has activity in bone and brain mets	- Highest CR rate seen (17.2%) 95% disease control rate	Short TKI half life, 6 hours (easy to adjust)	Superior PFS versus ipi/nivo, the only combo to be compared in a phase 3 trial vs another combo
Cons	- More ICI toxicity (29% high dose steroids) 18-20% PD as best response	Cabozantinib has long half-life (120 hours)	20mg lenvatinib is toxic (highest rate of grade 3 AEs, 82%)		- Toxic (58% high dose steroids), side effects can be hard to attribute - OS unknown
Consider in...	Sarcomatoid RCC Int/poor risk pts who can “afford” risk of PD	Bone mets Prioritizing response + QOL	Robust patients with symptomatic disease	Patients who may need to stop / reduce TKI quickly	Role remains TBD, pending OS data

Evre IV RCC Birinci Basamak Tedavi

Özet 3

İmmünoterapi-immünoterapi kombinasyonu

- ☐ Daha düşük yanıt oranı ve yüksek PD riski
- ☐ Daha uzun takip süresi ve yanıt derinliği
- ☐ İmmün ilişkili toksisite fazla, daha çok ilaç kesme oranı

İmmünoterapi-TKI kombinasyonu

- ☐ Daha yüksek yanıt oranı ve daha uzun PSF oranı
- ☐ Daha kısa bir takip süresi, yanıt derinliği hakkında veri giderek netleşiyor
- ☐ Uzun TKI toksisitesi maruziyeti
- ☐ Yaş, komorbidite, semptom, hastalık yükü ve metastaz bölgesi tedavi seçiminde yön gösterici olabilir.
- ☐ Daha efektif prediktif belirteçler tedavi seçiminde katkı sağlayacak.