

# Is there an optimal first-line combination approach for metastatic RCC?

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# DECLARATION OF POTENTIAL INTERESTS

Toni K. Choueiri (financial and non-financial):

- ◆ Consultancy fees, advisory boards, manuscript preparation, travel/lodging, honoraria, grants for clinical trials:
  - ◆ AstraZeneca
  - ◆ Bristol Myers Squibb
  - ◆ Eisai
  - ◆ Eli Lilly
  - ◆ EMD Serono.
  - ◆ Exelixis/Ipsen
  - ◆ GlaxoSmithKline
  - ◆ Merck Novartis
  - ◆ Pfizer
  - ◆ Roche
  - ◆ Up-To-Date royalties and CME events (Peerview, OncLive, others)
  - ◆ ASCO and ESMO organizing committees, KidneyCan Board, NCCN (all unpaid)

# Outline

- Key combination trials for the treatment of mRCC in the **1<sup>st</sup> line setting**
- Comparison of combination trials
- Special populations (in the 1<sup>st</sup> line treatment of mRCC):
  - Favorable IMDC risk (20%)
  - Sarcomatoid features (5-15%)
- Key takeaways

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- Key combination trials for the treatment of mRCC in the **1<sup>st</sup> line setting**
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  - Sarcomatoid features (5-15%)
- Key takeaways

# First-Line Combination Therapies in Advanced RCC (FDA approved as of today)

**CTLA-4 Inhibitor**

**Ipilimumab +  
nivolumab**  
(intermediate/  
poor risk)  
CheckMate -214

**PD-1 and PD-L1  
Inhibitors**

**Pembrolizumab +  
axitinib**  
(all risk groups)  
KEYNOTE-426

**Avelumab +  
axitinib**  
(all risk groups)  
JAVELIN  
Renal 101

**Nivolumab +  
cabozantinib**  
(all risk groups)  
Checkmate-9ER

**Pembrolizumab +  
Lenvatinib**  
(all risk groups)  
CLEAR

**TKIs**

**IO+IO COMBINATION  
(PD-1+CTLA4 INHIBITORS)**

# CheckMate -214: Nivolumab Plus Ipilimumab in Newly Diagnosed Advanced Clear-Cell RCC

## Key eligibility criteria

- Treatment naïve, inoperable, locally advanced, or metastatic RCC
- Clear-cell histology<sup>a</sup>
- KPS ≥70%

## Stratification

- IMDC prognostic score (0 vs 1-2 vs 3-6)
- Region (United States vs Canada/Europe vs rest of the world)

N = 1,096

**R**

1:1

**Nivolumab 3 mg/kg IV every 3 wk + ipilimumab 1 mg/kg IV every 3 wk x 4 doses, then nivolumab 3 mg/kg every 2 wk**

**Sunitinib 50 mg orally daily (4 wk on, 2 wk off)**

## Endpoints

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

# CheckMate -214: Intermediate-/Poor-Risk Patients

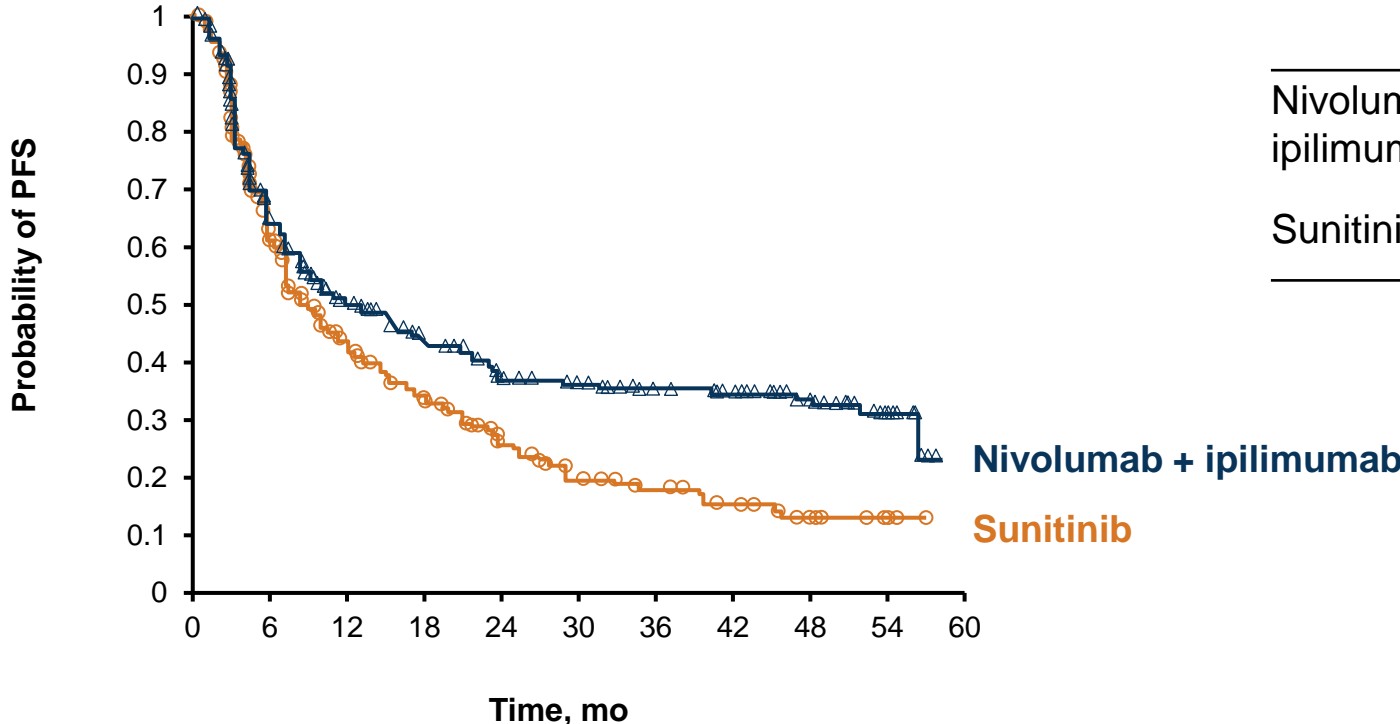
@DrChoueiri

Minimum Follow-Up, mo	Median OS, mo (95% CI)		Median PFS, mo (95% CI)	
	Nivolumab + Ipilimumab (n = 425)	Sunitinib (n = 422)	Nivolumab + Ipilimumab (n = 425)	Sunitinib (n = 422)
17.5 <sup>1</sup>	NR (28.2-NE)	26.0 (22.1-NE)	11.6 (8.7-15.5)	8.4 (7.0-10.8)
	HR (99.8% CI) <b>0.63</b> (0.44-0.89); P <.001		HR (99.1% CI) <b>0.82</b> (0.64-1.05); P = .03	
30 <sup>2</sup>	NR (35.6-NE)	26.6 (22.1-33.4)	8.2 (6.9-10.0)	8.3 (7.0-8.8)
	HR (95% CI) <b>0.66</b> (0.54-0.80); P <.0001		HR (95% CI) <b>0.77</b> (0.65-0.90); P = .0014	
42 <sup>3</sup>	47.0 (35.6-NE)	26.6 (22.1-33.5)	11.6 (8.4-15.5)	8.3 (7.0-10.8)
	HR (95% CI) <b>0.66</b> (0.55-0.80); P <.0001		HR (95% CI) <b>0.75</b> (0.62-0.90); P = .0015	
48 <sup>4</sup>	48.1 (35.6-NE)	26.6 (22.1-33.5)	11.2 (8.4-16.1)	8.3 (7.0-10.8)
	HR (95% CI) <b>0.65</b> (0.54-0.78); P <.0001		HR (95% CI) <b>0.74</b> (0.62-0.88); P = .0015	
60 <sup>5</sup>	47.0 (35.4-57.4)	26.6 (22.1-33.5)	11.6 (8.4-16.5)	8.3 (7.0-10.4)
	HR (95% CI) <b>0.68</b> (0.58-0.81); P <.0001		HR (95% CI) <b>0.73</b> (0.61-0.87); P = .0004	

1. Motzer RJ et al. *N Engl J Med*. 2018. PMID: 29562145. 2. Motzer RJ et al. *Lancet Oncol*. 2019. PMID: 31427204. 3. Motzer RJ et al. *J Immunother Cancer*. 2020. PMID: 32661118. 4. Albiges L. et al., *ESMO Open*, 2021. PMID: 33246931. 5. Motzer R.J. et al., *ESMO Annual Congress*, 2021.



# CheckMate -214: PFS at 48 Months (Intermediate-/Poor-Risk Patients)<sup>1</sup>



	<b>N</b>	<b>Median (95% CI), mo</b>
Nivolumab + ipilimumab	425	11.2 (8.4-16.1)
Sunitinib	422	8.3 (7.0-10.8)
HR (95% CI), 0.74 (0.62-0.88)		

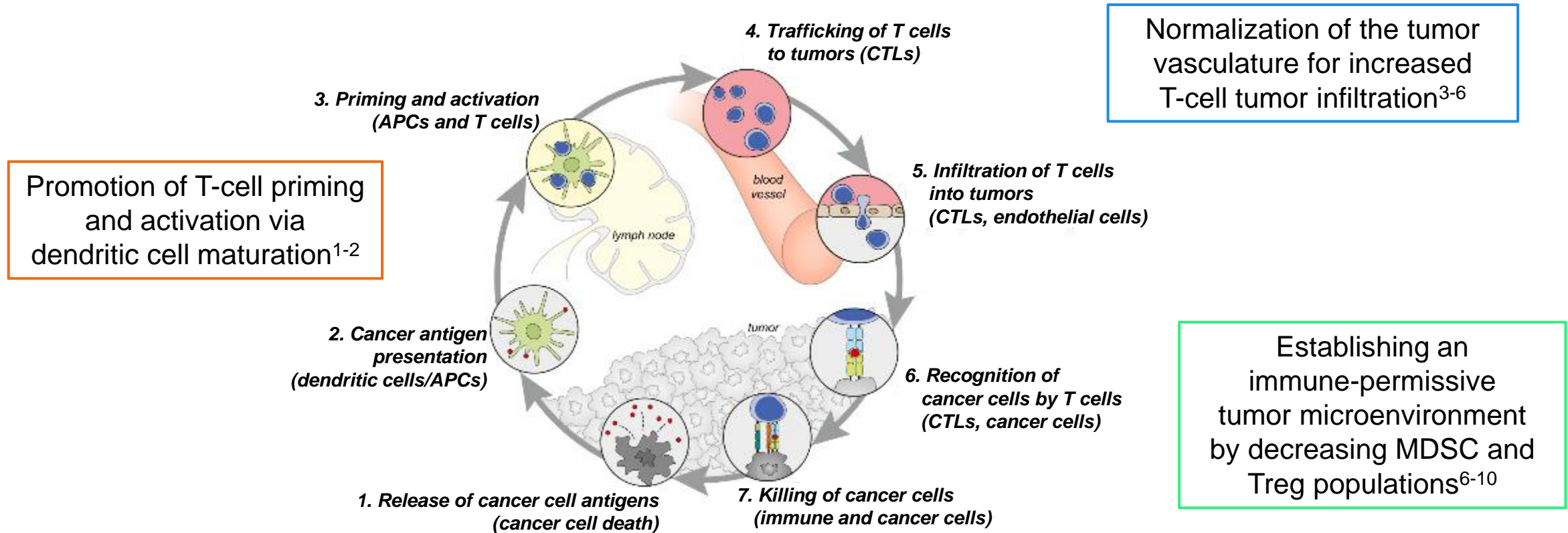
**No. at Risk**

NIVO + IPI	425	232	163	130	101	94	80	70	50	13	0
SUN	422	189	107	75	47	30	22	16	9	3	0

1. Albiges L. et al., ESMO 2020. Abstract 711P.

**IO + VEGF COMBINATION (S)**

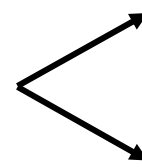
# Rationale for Combining Immunotherapy with VEGF-targeted Therapy



→ T-cell mediated cancer cell killing may be enhanced through reversal of VEGF-mediated immunosuppression

**KEYNOTE 426<sup>1</sup>**

Treatment-naive clear-cell RCC  
(N = 861)



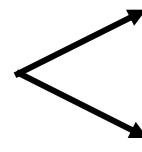
**Pembrolizumab 200 mg IV Q3W +  
Axitinib 5 mg PO BID**

**Sunitinib 50 mg PO QD (4/2)**

1° EP: PFS/OS

**JAVELIN Renal 101<sup>2</sup>**

Treatment-naive clear-cell RCC;  
(N = 886)



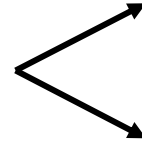
**Avelumab 10 mg/kg IV Q2W +  
Axitinib 5 mg PO BID in 6-wk cycles**

**Sunitinib 50 mg PO (4/2)**

1° EP: PFS/OS  
PD-L1+ pts

**CM 9ER<sup>3</sup>**

Treatment-naive clear cell RCC;  
(N = 651)



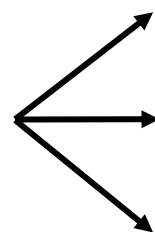
**Nivolumab 240 mg Q2W IV +  
Cabozantinib 40mg PO QD**

**Sunitinib 50 mg (4/2)**

1° EP: PFS

**CLEAR<sup>4</sup>**

Treatment-naive clear cell RCC;  
(N = 1069)

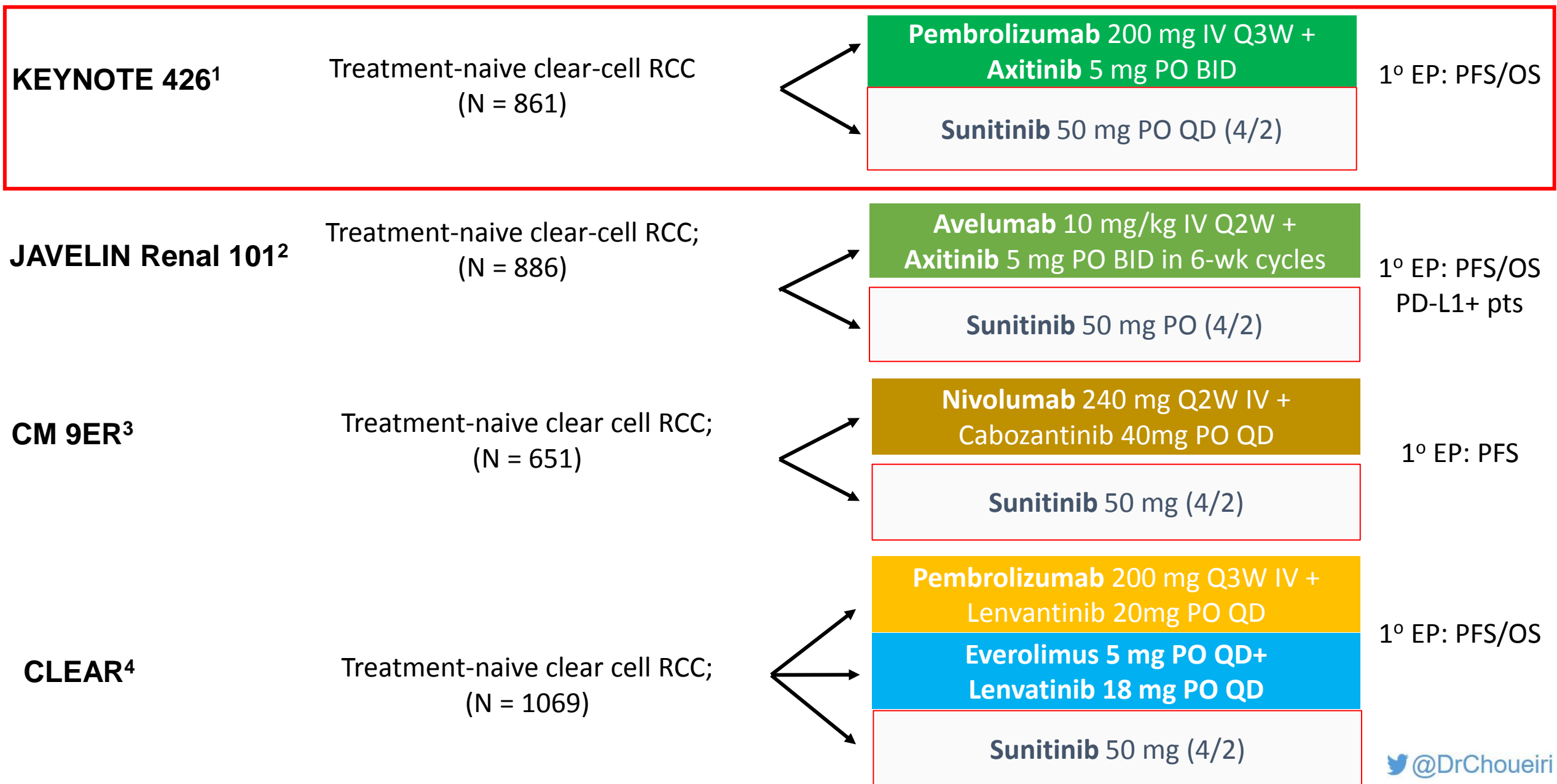


**Pembrolizumab 200 mg Q3W IV +  
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**Everolimus 5 mg PO QD+  
Lenvatinib 18 mg PO QD**

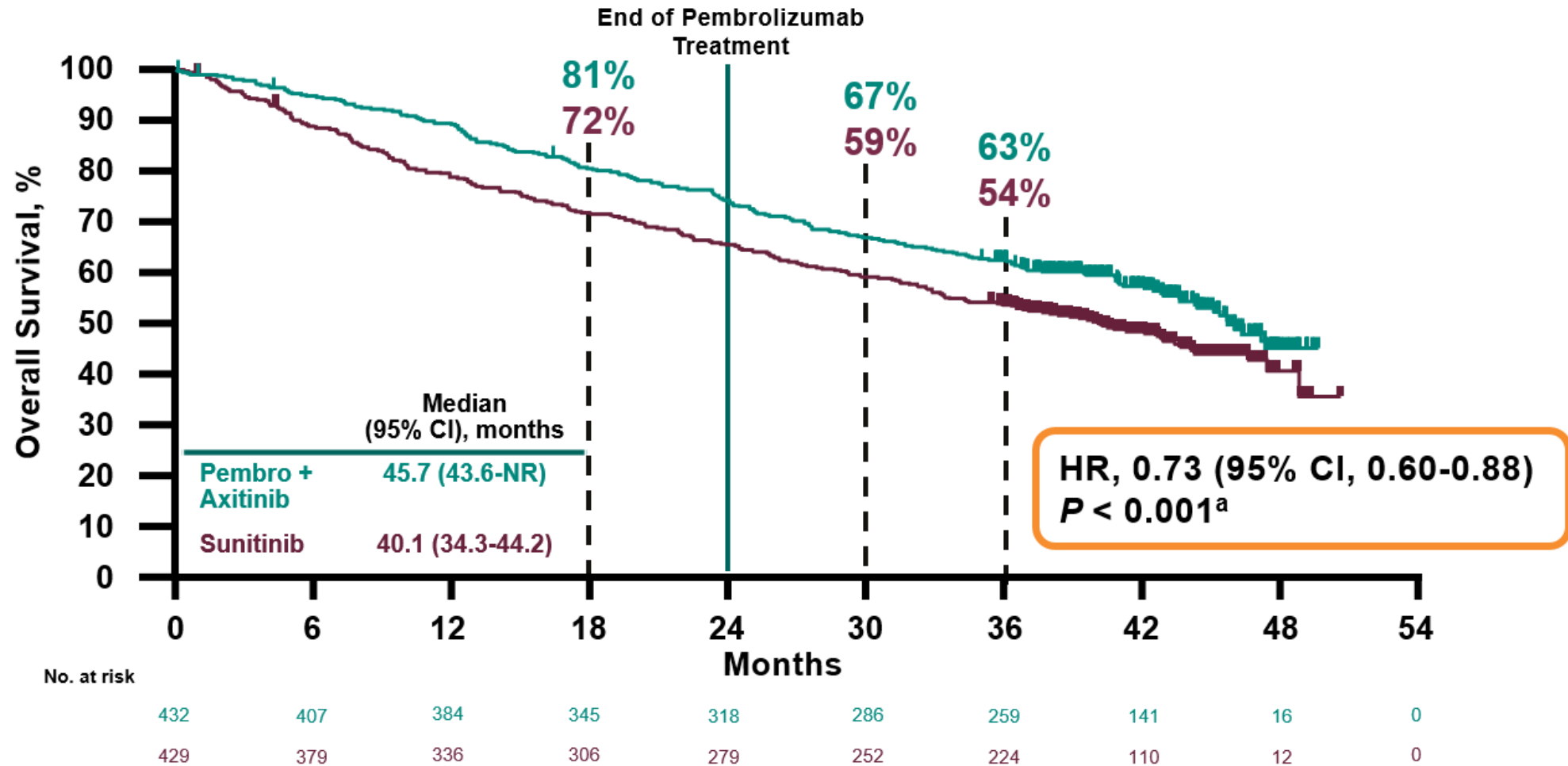
**Sunitinib 50 mg (4/2)**

1° EP: PFS/OS



1. Rini et al. *NEJM*, 2019. PMID: 30779529. 2. Motzer et al. *NEJM*, 2019. PMID: 30779531. 3. Choueiri et al. *NEJM*, 2021. PMID: 33657295. 4. Motzer et al. *NEJM*, 2021. PMID: 33616314.

# OS in the ITT Population (co-primary endpoint)

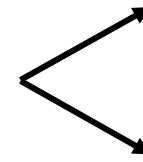


# KEYNOTE-426 Highlights

Median follow-up (months)	12.8	30.6	42.8
OS, months	NR	NR	45.7
HR (95% CI)	0.53 (0.38-0.74)	0.68 (0.55-0.85)	0.73 (0.6-0.88)
PFS, months	15.1	15.4	15.7
HR (95% CI)	0.69 (0.57-0.84)	0.71 (0.6-0.84)	0.68 (0.58-0.8)
ORR(%)/CR(%)	59/6	60/9	60/10

**KEYNOTE 426<sup>1</sup>**

Treatment-naive clear-cell RCC  
(N = 861)



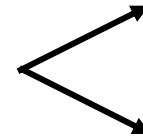
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**Sunitinib 50 mg PO QD (4/2)**

1° EP: PFS/OS

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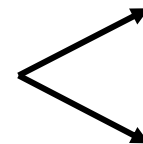
**Avelumab 10 mg/kg IV Q2W +  
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1° EP: PFS/OS  
PD-L1+ pts

**CM 9ER<sup>3</sup>**

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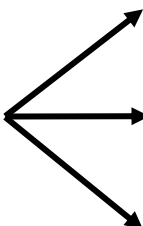
**Nivolumab 240 mg Q2W IV +  
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**Sunitinib 50 mg (4/2)**

1° EP: PFS

**CLEAR<sup>4</sup>**

Treatment-naive clear cell RCC;  
(N = 1069)



**Pembrolizumab 200 mg Q3W IV +  
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**Everolimus 5 mg PO QD+  
Lenvatinib 18 mg PO QD**

**Sunitinib 50 mg (4/2)**

1° EP: PFS/OS



# Javelin Renal 101- Highlights

## Key eligibility criteria:

- Treatment-naïve aRCC with a clear cell component
- $\geq 1$  measurable lesion as defined by RECIST v1.1
- Tumor tissue available for PD-L1 staining
- ECOG PS 0 or 1

## Stratification:

- ECOG PS (0 vs 1)
- Geographic region (USA vs Canada/Western Europe vs ROW)

N = 886

R  
1:1

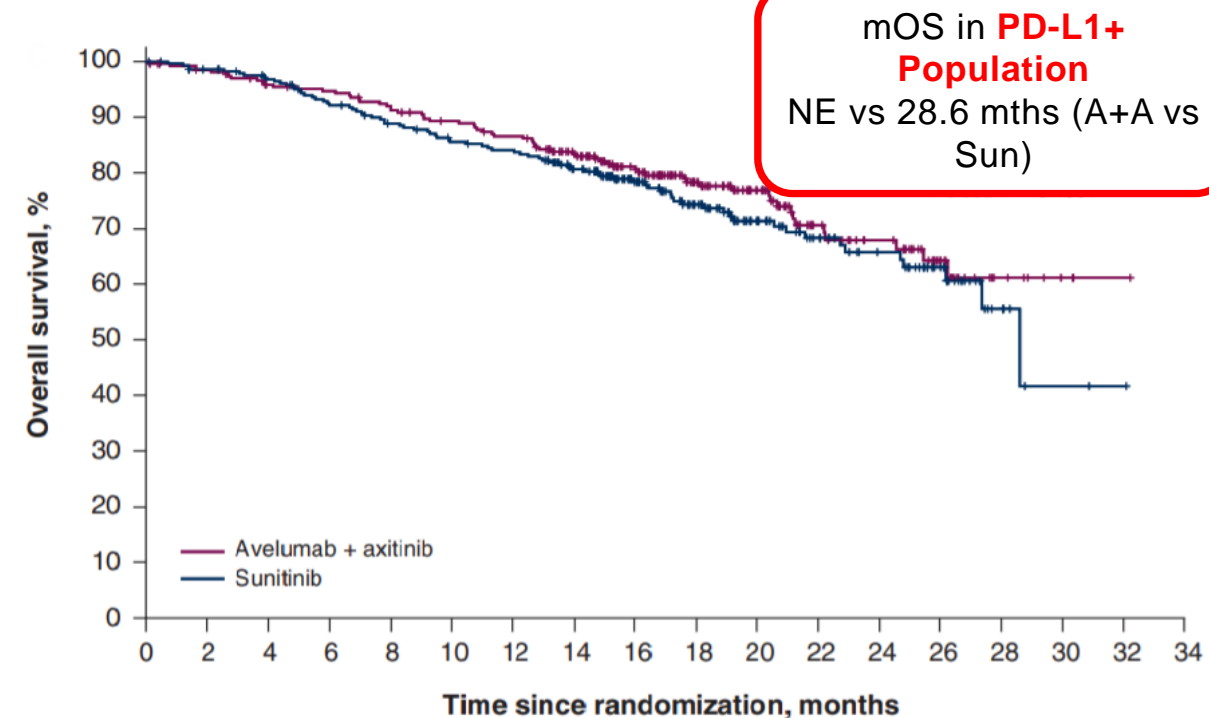
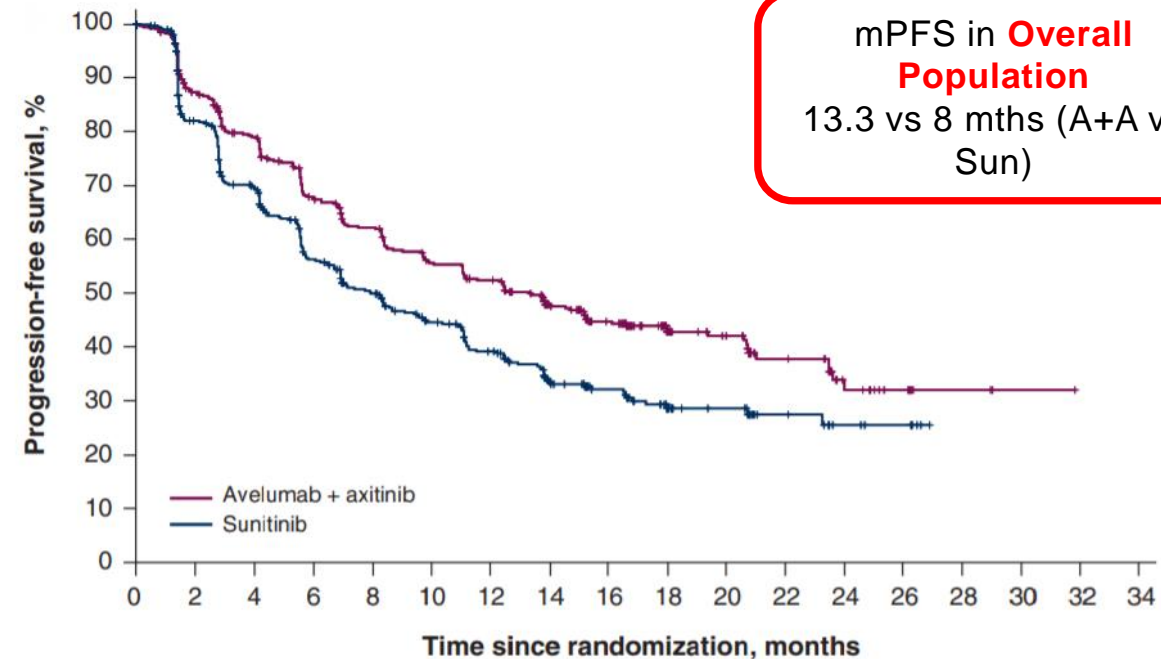
**Avelumab 10 mg/kg IV Q2W  
+  
Axitinib 5 mg PO BID  
(6-week cycle)**

**Sunitinib 50 mg PO QD  
(4 weeks on, 2 weeks off)**

Primary Endpoint: PFS or OS in patients *with PD-L1+ tumors*

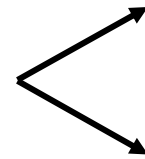
**OS: Not Significant**

**HR: 0.828 (95% CI 0.596-1.151); one-sided P = 0.13**



**KEYNOTE 426<sup>1</sup>**

Treatment-naive clear-cell RCC  
(N = 861)



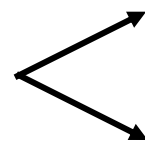
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**Sunitinib 50 mg PO QD (4/2)**

1° EP: PFS/OS

**JAVELIN Renal 101<sup>2</sup>**

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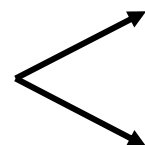
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PD-L1+ pts

**CM 9ER<sup>3</sup>**

Treatment-naive clear cell RCC;  
(N = 651)



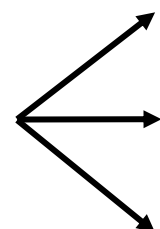
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**Sunitinib 50 mg (4/2)**

1° EP: PFS

**CLEAR<sup>4</sup>**

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(N = 1069)



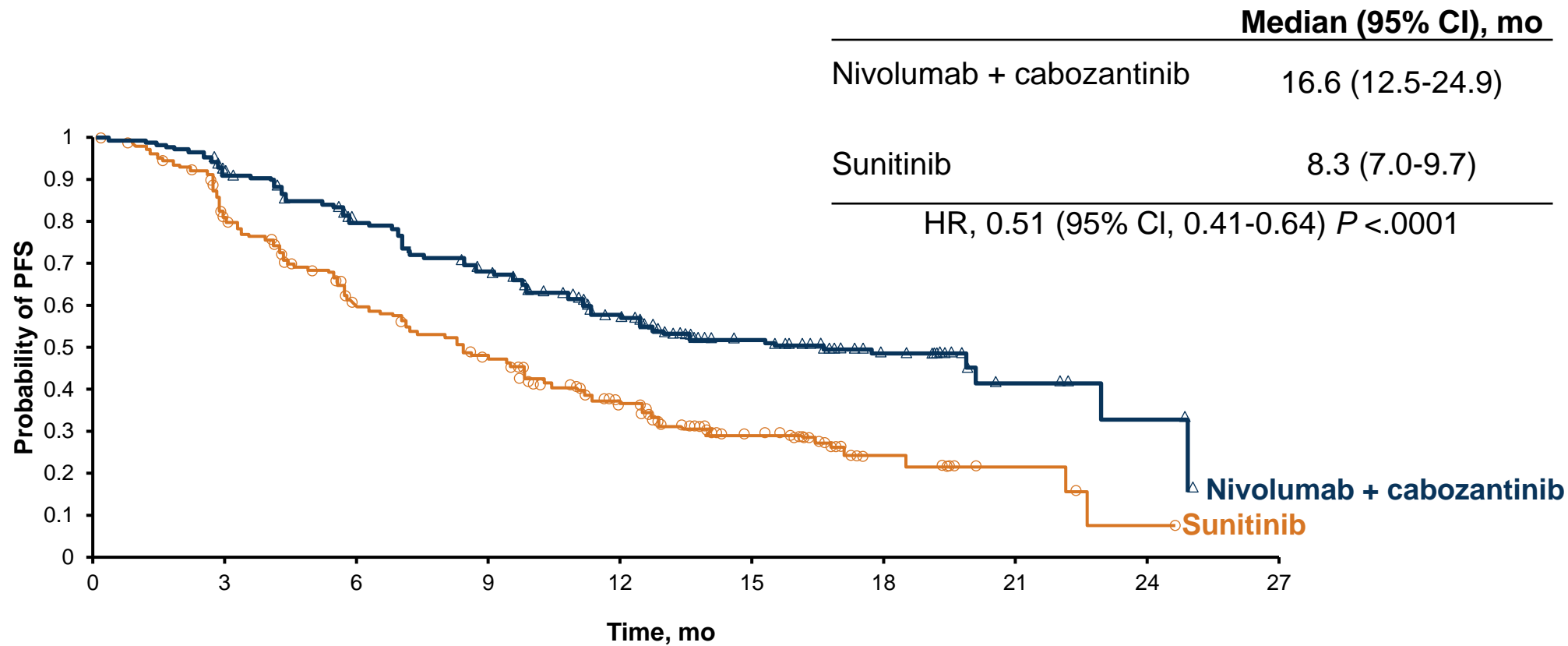
**Pembrolizumab 200 mg Q3W IV +  
Lenvatinib 20mg PO QD**

**Everolimus 5 mg PO QD+  
Lenvatinib 18 mg PO QD**

**Sunitinib 50 mg (4/2)**

1° EP: PFS/OS

# CheckMate -9ER: PFS<sup>1,2</sup>



## No. at Risk

Nivolumab + cabozantinib	323	279	234	196	144	77	35	11	4	0
Sunitinib	328	228	159	122	79	31	10	4	1	0

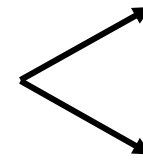
Minimum study follow-up, 10.6 months.

# Checkmate-9ER Highlights

<b>Median follow-up (months)</b>	<b>18<sup>1</sup></b>	<b>23.5<sup>2</sup></b>
<b>OS, months</b>	NR	NR
<b>HR (95% CI)</b>	<b>0.60 (0.40-0.89)</b>	<b>0.66 (0.50-0.87)</b>
<b>PFS, months</b>	16.6	17.0
<b>HR (95% CI)</b>	0.51 (0.41-0.64)	0.52 (0.43-0.64)
<b>ORR(%)/CR(%)</b>	55.7/8.0	56.5/8.5

**KEYNOTE 426<sup>1</sup>**

Treatment-naive clear-cell RCC  
(N = 861)



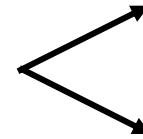
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1° EP: PFS/OS

**JAVELIN Renal 101<sup>2</sup>**

Treatment-naive clear-cell RCC;  
(N = 886)



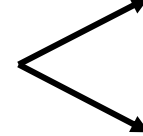
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1° EP: PFS/OS  
PD-L1+ pts

**CM 9ER<sup>3</sup>**

Treatment-naive clear cell RCC;  
(N = 651)



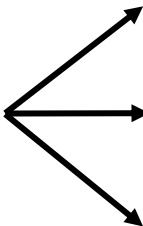
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**Sunitinib 50 mg (4/2)**

1° EP: PFS

**CLEAR<sup>4</sup>**

Treatment-naive clear cell RCC;  
(N = 1069)



**Pembrolizumab 200 mg Q3W IV +  
Lenvatinib 20mg PO QD**

**Everolimus 5 mg PO QD+  
Lenvatinib 18 mg PO QD**

**Sunitinib 50 mg (4/2)**

1° EP: PFS/OS

# CLEAR Study Highlights

	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)
<b>Stratified HR (95% CI) vs SUN</b>	<b>0.39 (0.32–0.49)</b>	<b>0.65 (0.53–0.80)</b>	--
<i>P</i> -value	< 0.001	< 0.001	--
Median OS, mo (95% CI)	NR (33.6–NE)	NR (NE)	NR (NE)
<b>Stratified HR (95% CI) vs SUN</b>	<b>0.66 (0.49–0.88)</b>	<b>1.15 (0.88–1.50)</b>	--
<i>P</i> -value	0.005	0.3	--
<b>Objective response rate, %</b>	<b>71.0</b>	<b>53.5</b>	<b>36.1</b>
Complete response, %	16.1	9.8	4.2

# Outline

- Key combination trials for the treatment of mRCC in the **1st line setting**
- Comparison of combination trials
- Special populations (in the 1<sup>st</sup> line treatment of mRCC):
  - Favorable IMDC risk (20%)
  - Sarcomatoid features (5-15%)
- Key takeaways

# Take-Homes from the trials (IO/IO or IO/TKI)

## IO+IO

## IO+TKI

### PROS

- Improved OS
- Mature follow-up data
- Durable responses
- Potential to stop therapy

- Improved OS
- High ORR
- Longer PFS
- Lower irAE rate

### CONS

- Higher irAE rate
- Lower PFS/response rate

- Unclear AE attribution
- Less mature follow-up
- Chronic TKI toxicity



# Baseline Characteristics in 1L TKI + ICI RCC Phase 3 Trials

 @DrChoueiri

	KEYNOTE-426 <sup>1</sup>	CheckMate 9ER <sup>3</sup>	CLEAR <sup>4</sup>
	Axi + Pembro N=432	Cabo + Nivo N=323	Len + Pembro N=355
<b>IMDC Risk Group, %</b>			
<b>Favorable</b>	<b>32</b>	<b>23</b>	<b>31</b>
<b>Intermediate</b>	<b>55</b>	<b>58</b>	<b>59</b>
<b>Poor</b>	<b>13</b>	<b>19</b>	<b>9</b>
<b>Sarcomatoid features, %</b>	<b>18</b>	<b>11</b>	<b>8</b>
<b>Prior Nephrectomy, %</b>	<b>83</b>	<b>69</b>	<b>74</b>
<b>≥ 2 organs with metastasis, %</b>	<b>73</b>	<b>80</b>	<b>72</b>
<b>Liver Metastasis, %</b>	<b>15</b>	<b>23</b>	<b>17</b>
<b>Bone Metastasis, %</b>	<b>24</b>	<b>24</b>	<b>24</b>

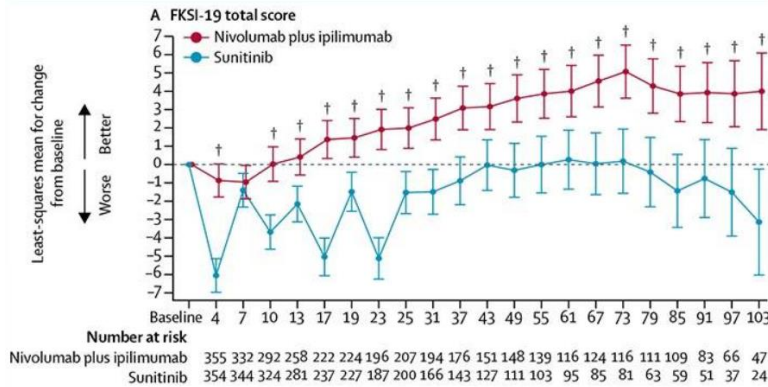
# Summary of Immunotherapy Combination Trials with OS benefit

	Nivolumab + Ipilimumab CheckMate-214 n=1096 <sup>1</sup>	Pembrolizumab + Axitinib Keynote 426 n=861 <sup>2</sup>	Nivolumab + Cabozantinib CheckMate-9ER n=651 <sup>3</sup>	Pembrolizumab + Lenvatinib CLEAR n=1096 <sup>4</sup>
<b>Follow-up, mo</b>	60 (minimum)	42 (median)	23.5 (median)	26.6 (median)
<b>Median PFS, mo</b>	12.3	15.7	17	23.9
<b>PFS HR</b>	0.86	0.68	0.52	0.39
<b>Median OS, mo</b>	55.7	45.7	NR	NR
<b>OS HR</b>	0.72	0.73	0.66	0.66
<b>ORR, %</b>	39	60.4	54.8	71.0
<b>CR, %</b>	12	10.0	9.3	16.1
<b>PD, %</b>	17.6	11.3	6.2	5.4
<b>QOL vs sunitinib</b>	<i>Improved</i>	<i>Similar</i>	<i>Improved</i>	<i>Similar to Improved</i>

Mo=months; PFS=Progression-free survival; HR=Hazard ratio; ORR=Objective response rate; CR=Complete response rate; PD=Progressive disease rate; TTR=Time to response; DOR=Duration of response; NR=Not reached. QOL=Quality of Life

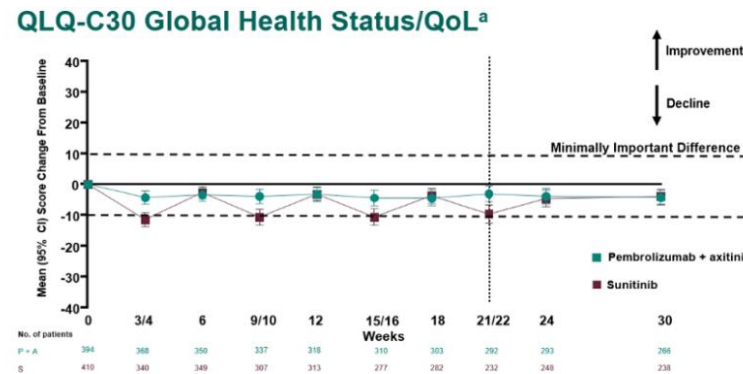
# Quality of Life Data from Phase 3 Studies (vs. Sunitinib)

## CheckMate-214 Nivolumab + Ipilimumab



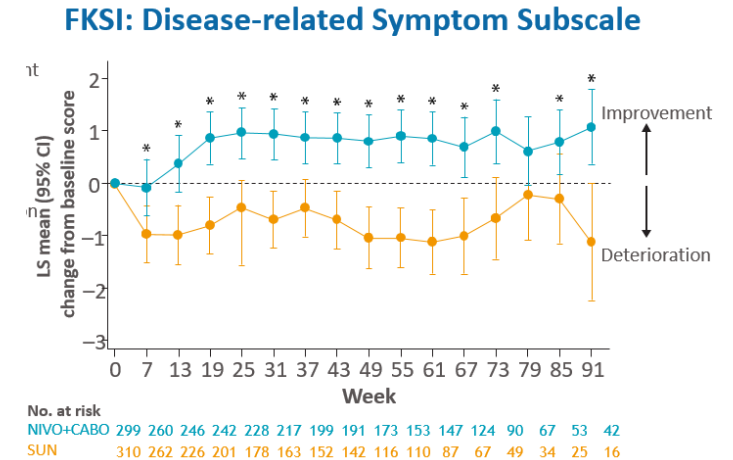
Improved QOL\* (FKSI-19)

## Keynote-426 Pembrolizumab + Axitinib



Similar QOL\* (QLQ-C30)

## CheckMate-9ER Nivolumab + Cabozantinib



Improved QOL\* (FKSI-19/DRSS)

### Caveats

- Different instruments across studies
  - Different time points
  - Compliance rate varies
- ==> Comparisons between studies challenging

# Outline

- Key combination trials for the treatment of mRCC in the **1<sup>st</sup> line setting**
- Comparison of combination trials
- Special populations (in the 1<sup>st</sup> line treatment of mRCC):
  - Favorable IMDC risk (20%)
  - Sarcomatoid features (5-15%)
- Key takeaways

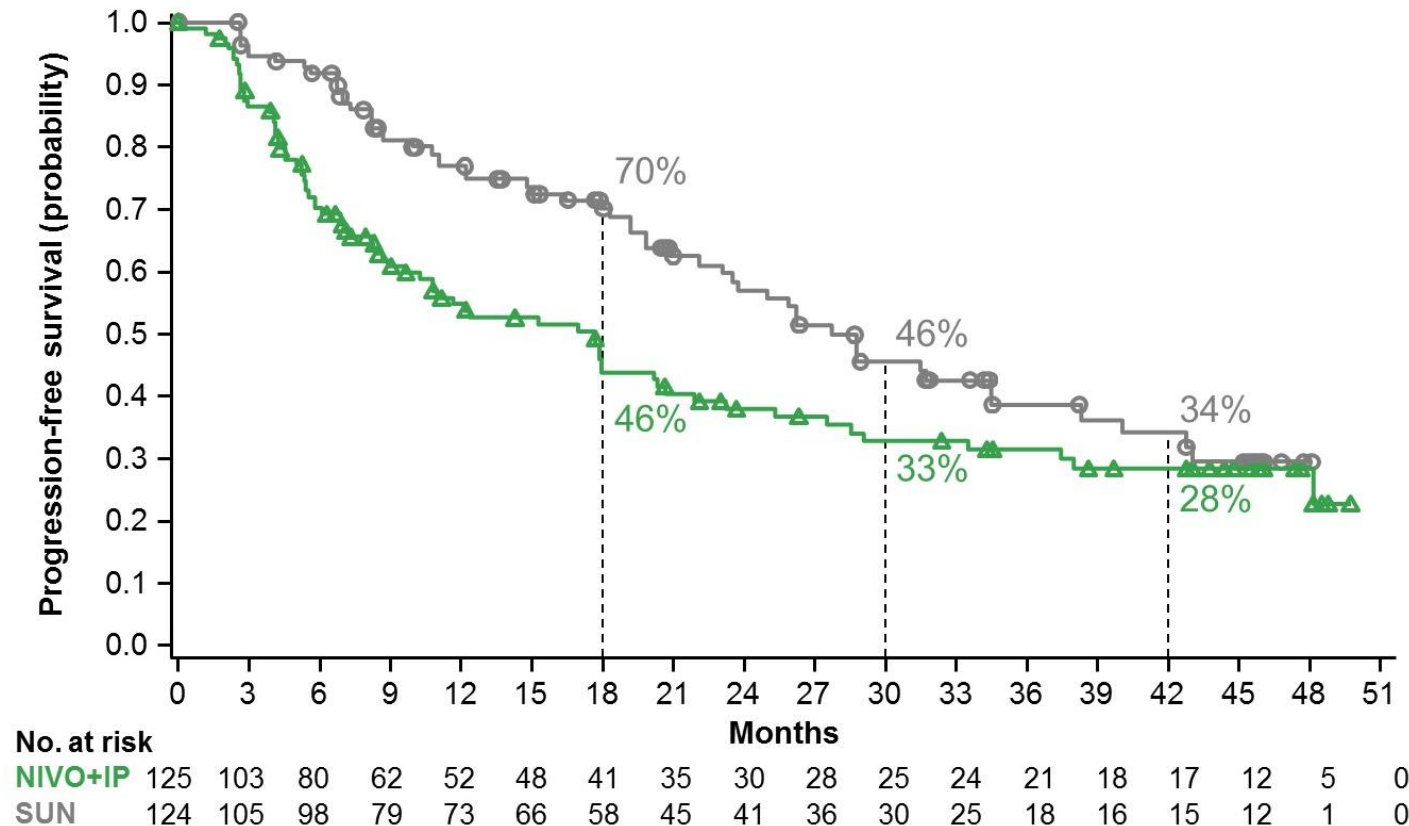
**IMDC Favorable risk  
Nivo/Ipi vs IO/TKI**

# 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)

# CheckMate214: Favorable risk patients

Exploratory efficacy population: Favorable-risk patients



Minimum follow-up	PFS	NIVO+IPI N = 125	SUN N = 124
17.5 mo <sup>1</sup>	Median, mo (95% CI)	15.3 (9.7–20.3)	25.1 (20.9–NE)
	HR (99.1% CI)	2.18 (1.29–3.68) P < 0.0001	
42 mo	Median, mo (95% CI)	17.8 (10.3–20.7)	27.7 (23.2–34.5)
	HR (95% CI)	1.62 (1.14–2.32) P < 0.01	

**BUT: 60 months OS HR: 0.94<sup>3</sup>**

# Favorable risk-patients in IO+TKI combinations: PFS benefit, no OS benefit

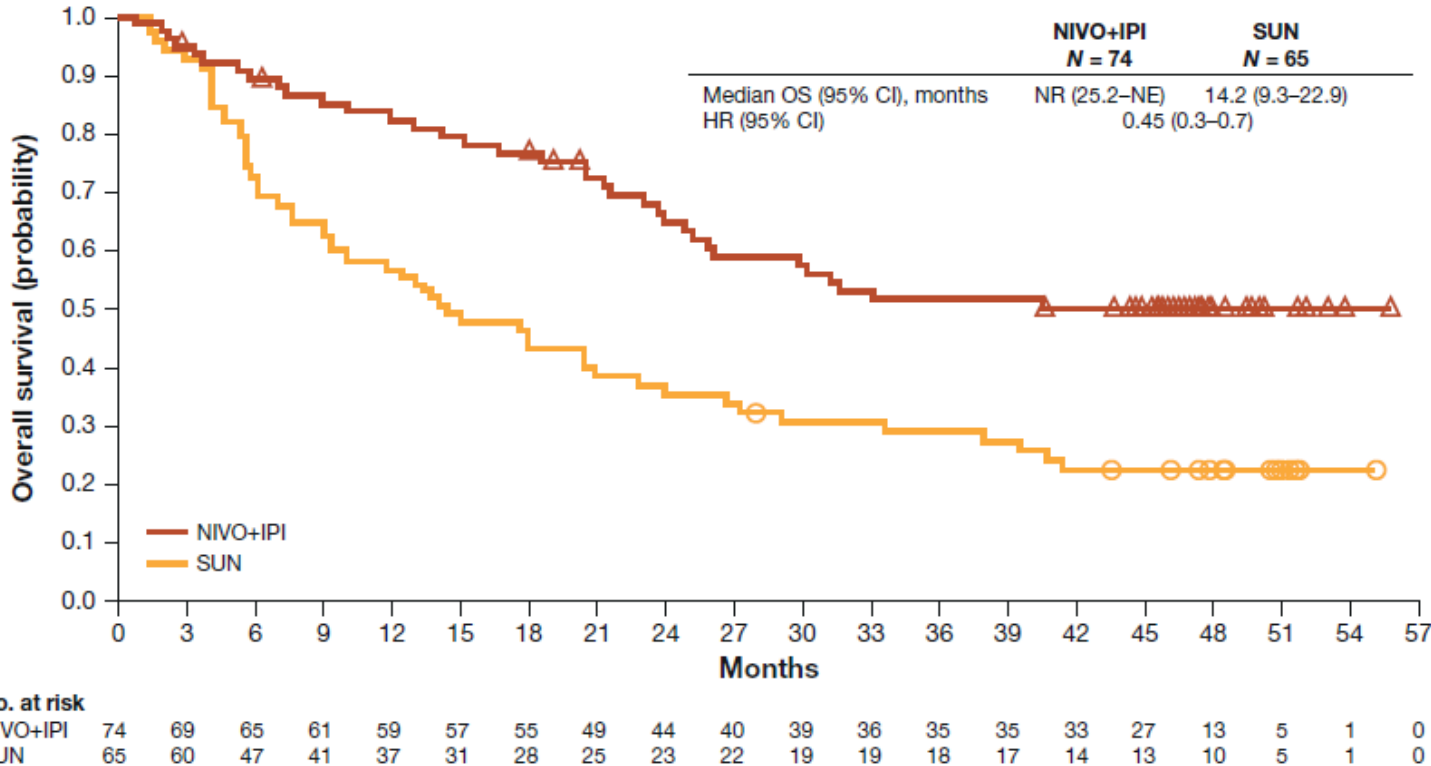
Favorable Risk	Checkmate-9ER <sup>1</sup>	Keynote-426 <sup>2</sup>	CLEAR <sup>3</sup>
<b>PFS HR (95% CI)</b>	0.62 (0.38-1.01)	0.81 (0.53-1.24)	0.41 (0.28-0.62)
<b>OS HR (95% CI)</b>	0.84 (0.35-1.97)	0.64 (0.24-1.68)	1.15 (0.55-2.40)

OS benefit in Favorable risk patients may be elusive:

- Limited Nb. of patients
- Limited Nb. of events
- Indolent disease with available 2<sup>nd</sup> line options



# IO + IO in mRCC with Sarcomatoid Features (CheckMate-214)



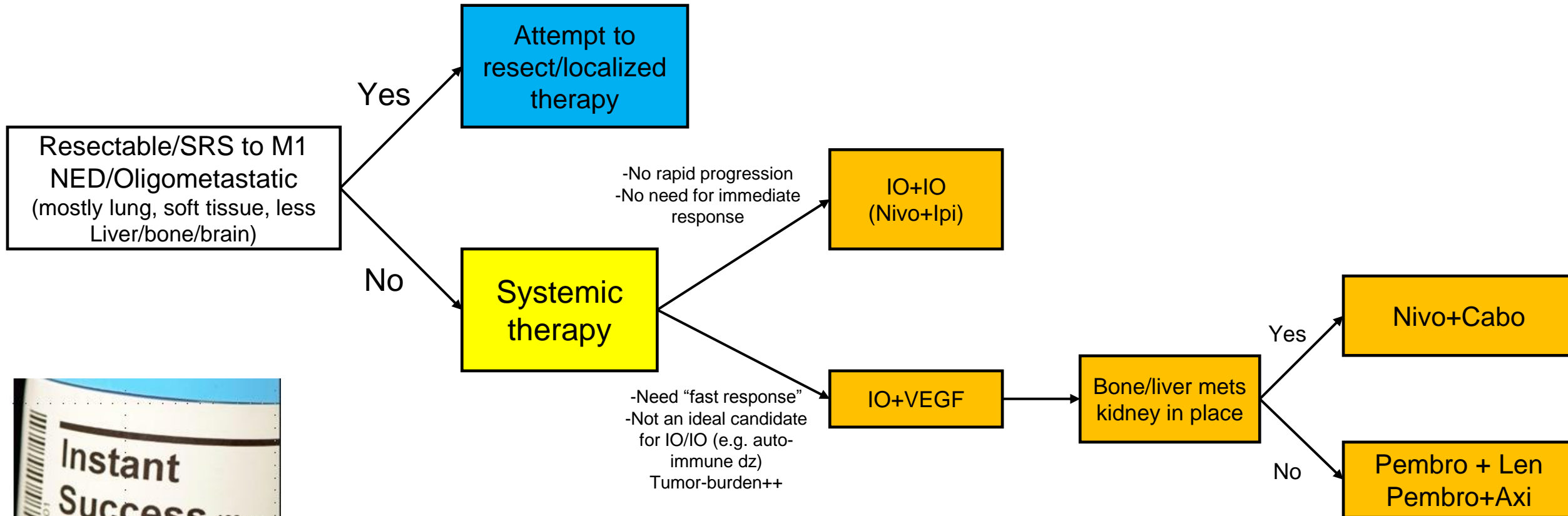
<i>I/P mRCC</i>	Nivo/Ipi (n=74)	Sunitinib (N=65)	HR
mOS (mo)	NR	14.2	0.45
mPFS (mo)	26.5	5.1	0.56
CR (%)	19	3	

**Sarcomatoid RCC tumors are characterized by an *immune-inflamed phenotype*<sup>2</sup>:**

- 1) Activation of immune pathways
- 2) Increased expression of APM genes
- 3) Increased cytotoxic immune infiltration
- 4) High PD-L1 on tumor cells

# My own “evolving” approach of 1<sup>st</sup> line treatment for mRCC, circa #ESMO21

[@DrChoueiri](#)



# Outline

- Key combination trials for the treatment of mRCC in the **1<sup>st</sup> line setting**
- Comparison of combination trials
- Special populations (in the 1<sup>st</sup> line treatment of mRCC):
  - Favorable IMDC risk (20%)
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- **Key takeaways**

# Key Takeaways

- There is a wealth of evidence of different combinations for the 1L treatment of mRCC including the CheckMate 214, KEYNOTE-426, JAVELIN Renal 101, Checkmate 9ER and CLEAR studies, all were > to VEGF TKI sunitinib.
- Patients in your clinic do not always reflect the trial population and RWD collection is important.
- MANY factors may influence a physicians' choice of sequential treatment and personalization of care, including – amongst others – availability, efficacy, safety, QOLs, Prior TX, comorbidities (cardiovascular, autoimmune diseases) and costs.
- Favorable-risk population therapy remains undefined: a case can be made for IO+IO, IO+VEGF or even VEGF monotherapy.
- Sarcomatoid features: Nivo/ipi should be the standard.
- Biomarkers today remain all experimental in mRCC (sorry, I had to mention “biomarkers”)
- **Finally, if adjuvant IO becomes a reality (it will be) ; 1L choice in mRCC will become more complicated!** Let us leave to that to #ESMO22!

# Until we meet again in a year: ESMO 2022, also in Paris!

ESMO > Meetings

## ESMO CONGRESS 2022

PARIS 2022 **ESMO** congress

PARIS FRANCE  
9-13 SEPTEMBER 2022



<b>Start date</b>	09 Sep 2022
<b>End date</b>	13 Sep 2022
<b>Location</b>	Paris, France