



Importancia de una buena secuenciación en el cáncer renal

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DISCLOSURES

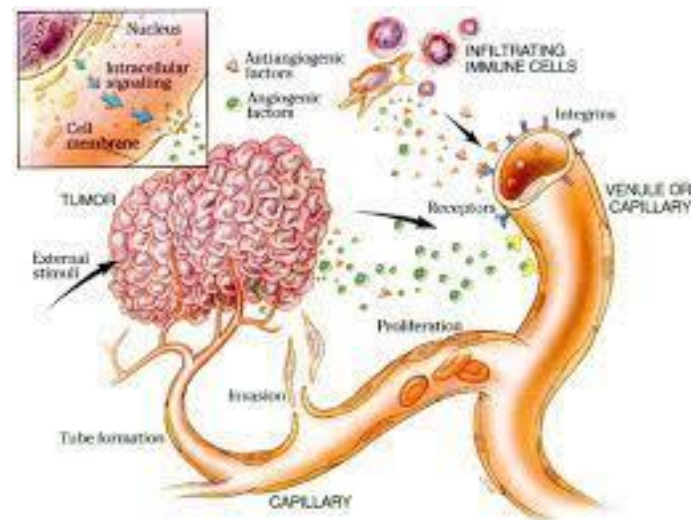
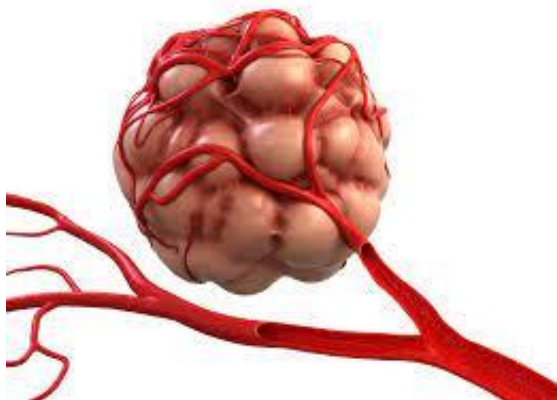
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Research support: *Roche, Pfizer, IPSEN, Janssen*

Different 2L clinical scenarios according to 1L

LET'S START WITH 2L AFTER VEGFR-TKI IN 1L



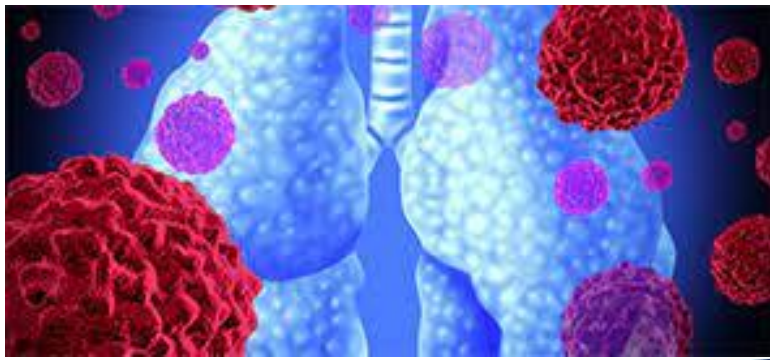
AFTER TKI MONOTHERAPY

	Study design	Treat line	Control arm	DCR (CR + PR + SD)	PD	PFS	OS
Everolimus ¹	Phase III	2 nd – 5 th	Placebo	0 + 1 + 63%	19%	4,9 vs 1,8 m (HR 0,33)	14,7 vs 14,3 (HR 0,87)
Axitinib ²	Phase III	2 nd	Sorafenib	0 + 19 + 50%	22%	6,7 vs 4,7 m (HR 0,66)	20,1 vs 19,2 (HR0,97)
Nivolumab ³	Phase III	2 nd – 3 rd	Everolimus	1 + 24 + 34%	35%	4,6 vs 4,3m (HR0,88)	25 vs 19 m (HR0,73)
Cabozantinib ⁴	Phase III	2 nd – 3 rd	Everolimus	0 + 17 + 65%	12%	7,4 vs 3,8m (HR0,66)	21,4 vs 16,5m (HR0,66)
Lenvatinib + Everolimus ⁵	Phase II	2 nd	Lenvatinib vs Everolimus	2 + 33 + 47%	4%	14,6 vs 7,4 vs 5,5 m (HR 0,66 and HR0,40)	25,5 vs 18,4 vs 17,5m (HR0,55 and HR0,74)
Tivozanib ⁶	Phase III	3 rd -4 th	Sorafenib	0 + 18 + 55%	21%	5,6 vs 3,9 m (HR 0,73)	16,4 vs 19,7 m (HR 0,99)

¹Motzer RJ, et al. Lancet 2008; ²Rini BI, et al. AXIS. Lancet 2011; ³Motzer RJ, et al. NEJM 2015; Escudier B, et al. ESMO 2022; ⁴Choueiri TK, et al. NEJM 2015; ⁵Motzer RJ, et al. Lancet Oncology, 2016; ⁶Rini B, et al. Lancet Oncology 2020

Different 2L clinical scenarios according to 1L

**LET'S CONTINUE WITH $\geq 2L$ AFTER PREVIOUS IO-BASED
COMBINATIONS.
FROM RETROSPECTIVE TO PROSPECTIVE TRIALS.**



Activity from MKI

If any PD1 monotherapy 1L, CTLA-4i rescue?

Any role in keeping PD1/PDL1 axis blockade?

Novel strategies?

	Study treatment	Comparator arm	N	Primary objective	NCT Identifier	Results
IMmotion 151	Atezolizumab + Bevacizumab	Sunitinib	915	PFS PDL1-ve OS ITT	NCT02420821	No impact OS
JAVELIN Renal 101	Avelumab + Axitinib	Sunitinib	886	PFS or OS PDL-1ve	NCT02684006	Final OS pending
CHECKMATE 214	Nivolumab + Ipilimumab	Sunitinib	1096	OS I/P ORR I/P PFS I/P	NCT02231749	
MK3475_426	Pembrolizumab + Axitinib	Sunitinib	861	OS & PFS ITT	NCT02853331	
CLEAR	Pembrolizumab + Lenvatinib	Sunitinib /Lenvatinib + Everolimus	1050	PFS BICR Key: OS, ORR	NCT02811861	
CHECKMATE 9ER	Nivolumab + Cabozantinib	Sunitinib	630	PFS BICR	NCT03141177	
COSMIC 313	Nivolumab + Ipilimumab + Cabozantinib	Nivolumab + Ipilimumab	855	PFS BICR First 550pts randomized	NCT03937219	 Pending OS

**Toripalimab+ Axitinib PFS and OS in Chinese population only
**Benmelstobart plus Anlotinib PFS in Chinese population only

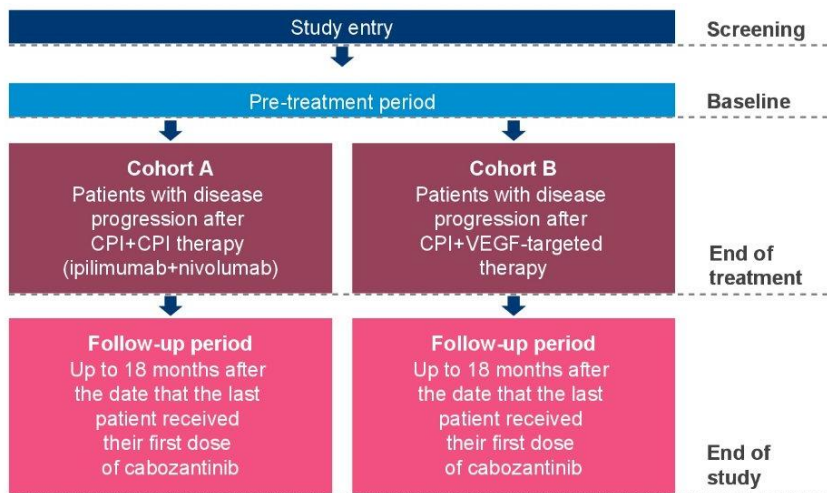
VEGFR-TARGETED THERAPIES – RETROSPECTIVE STUDIES

Study	Previous IO	N	Targeted therapies	N	Median TTF/PFS (95%CI), months (m)	ORR (%)	1 yr-Overall Survival/median OS (95% CI)
Derosa 2017	IOIO	56	CABO	56	8	33	12.3
Shah A EJC 2019/ 2015-2018	PD-1 PD-1/CTLA-4 PD-(L)1/VEGF	12 32 24	AXI CABO PAZO SUN	25 20 19 6	13.2 (8.6 – NR) 15.2 (7.9 – NR) 24.2 (6.1 – NR) 3.6 (0.9 – NR)	10/25: 40 8/20: 40 9/19: 47 1/6: 16	79.6% (mOS NR)
Dudani S EurUrol 2019/ 2005 - 2018	Ipilimumab/Nivo PD-(L)1/VEGF	75 113	SUN CABO PAZO AXI, NIVO, LEN EVE	24 11 11 7, 5, 2	1st: 10.2 (6.7 – 15.1) 1st: 14.3 (9.2 – 16.1) 2nd: 3.7 (2.5 – 9.6). 2nd: 5.4 (3.4 – 14.7)	9/20: 45 3/20: 15 (0.04)	NA (35.1 – NR) NA (22.3 – NR)
Ged Y BMC Urol 2020/ 18m/ 2013 – 2018	IO-VEGFR TKI IO-Bev	35 24	CABO AXI PAZO/ LEN EVE	22 18 4 + 4	12.0 (8.2–24.5)	25%	24.5 (12–NE)
McGregor A/ 2012 - 2018	IO /IOIO IOVE IO + Other (N=80 prior VEGFi)	55 25 6	CABO	55 25 6	8.1 (6.4 – 14.9) 4.7 (3.3 – 5.9) 5.7 (3.2 – NR)	42 28 17	63 40 42
Wells JC/ 2014 – 2019	IO / IOIO PD-(L)1/VEGF	75 27	SUN	75 27	5.4 (3.6-14.8) 4.7 (3.4 – 9.6)	27.5 20.8 (0.55)	16.1 (8.5 - 35.2) 11.8 (9.5 – NR)
Marteau JCO Suppl, 2021	IOIO/IOVE		CABO Others	187 60	6.2 3.1	53.5 38.3	
Iacovelli R Target oncol 2020	IO (NIVO)	84	CABO	84	11.5 (8.3–14.7)	52	17.3

AFTER IO + IO OR IO + VEGFR-TKI COMBOS (antiangiogenics)

Phase II, single arm studies	N	Primary endpoint	Previous VEGFR-TKI	Previous treatment lines	ORR	PFS	OS
CABOPOINT Cabozantinib	88 (60 + 28)	ORR Cohort A BICR	31.8%	≥ 1L	29.5% (1.2% CR)	10.9 m (95% CI 5.5 – 19.4)	NR
BREAKPOINT Cabozantinib	30	SLP	26%	1L	37.9% (0% CR)	8.3 m (95%CI 3.9 - 17.4)	13.8 m (95%CI 7.7 - 29.0)
AXITINIB	40	SLP	70%	≥ 3L	45% (3%CR)	8.8 m (95% CI 5.7–16.6)	NR
INMUNOSUN Sunitinib	21	ORR RECIST 1.1 by investigator	47.7%	1L	19% (0% CR)	5.6 m (95% CI 3.1 - 8.0)	23.5 m (95% CI 6.3 - 40.7)
IO-PAZ Pazopanib	62	SLP	43.5%	1-2 L	14.5% (3.2% CR)	6.5 m (95% CI, 3.7-9.2)	21.3 m (95% CI, 14.9 - NE)
LITESPARK 003, COHORT 2 Belzutifan + Cabozantinib	52	ORR RECIST 1.1 by investigator	46%	1-2 L	31% (4% CR)	13.8 m (95% IC 9.2-19.4)	26.7 m (95%IC 20.0-41.1)

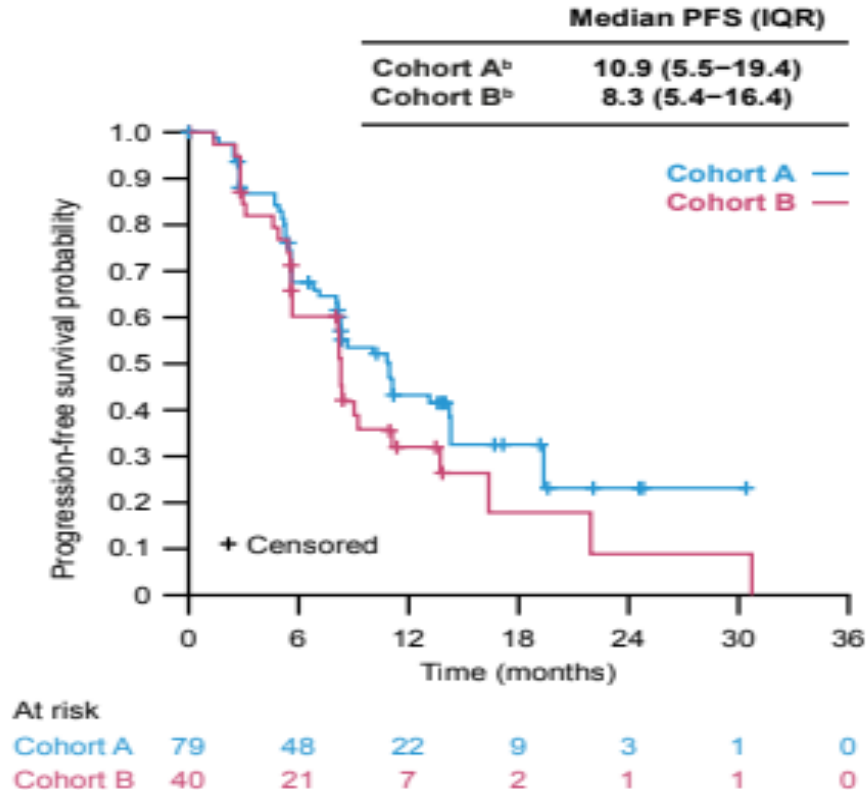
ROLE OF VEGFR TKI – CABOPOINT TRIAL



Baseline was defined as the date of cabozantinib initiation. Cabozantinib was initiated in the 15 days after the screening visit.
Figure adapted from Albiges *et al.* 2022.⁶
CPI, checkpoint inhibitor; VEGF, vascular endothelial growth factor.

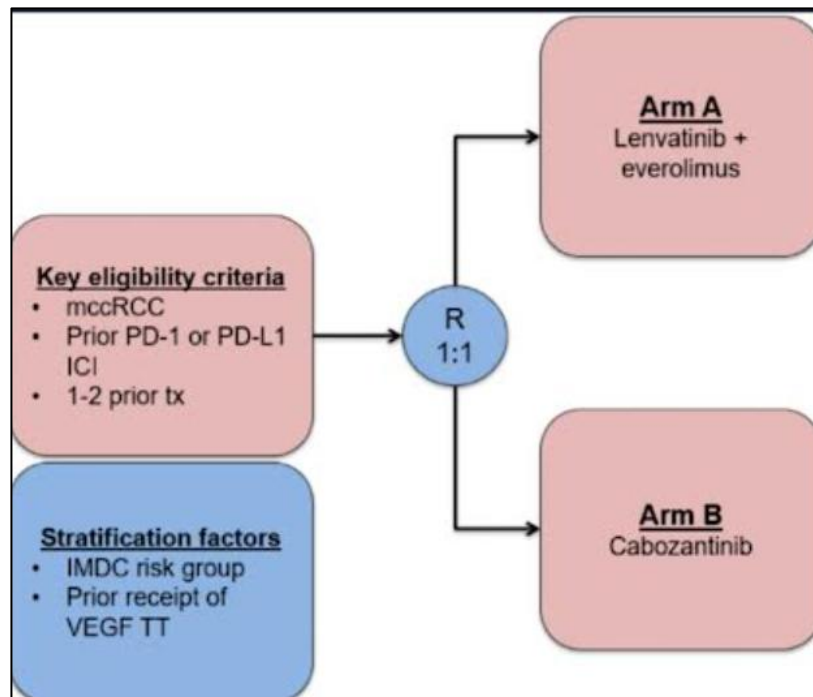


ROLE OF VEGFR TKI – CABOPOINT TRIAL

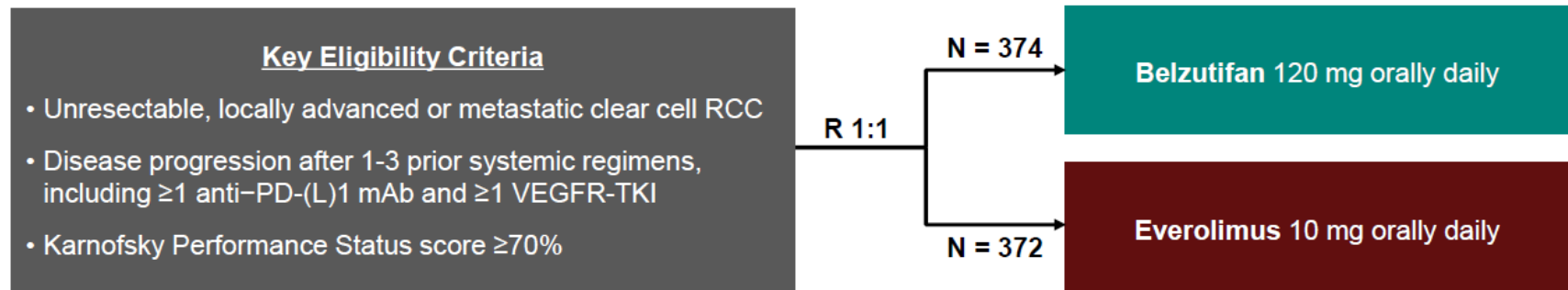


MKI AFTER IO – PROSPECTIVE STUDIES

Lenvatinib With Everolimus Versus Cabozantinib for Second-Line or Third-Line Treatment of Metastatic Renal Cell Cancer (NCT05012371). The most recent must include PD-1/PD-L1 ICI.



LITESPARK-005 PHASE III CLINICAL TRIAL



Stratification Factors

- IMDC prognostic score^a: 0 vs 1-2 vs 3-6
- Prior VEGFR-targeted therapies: 1 vs 2-3

Dual Primary Endpoints:

- PFS per RECIST 1.1 by BICR
- OS
- The study was considered positive if either of the dual primary endpoints was met

Key Secondary Endpoint:

- ORR per RECIST 1.1 by BICR

Other Secondary Endpoints Include:

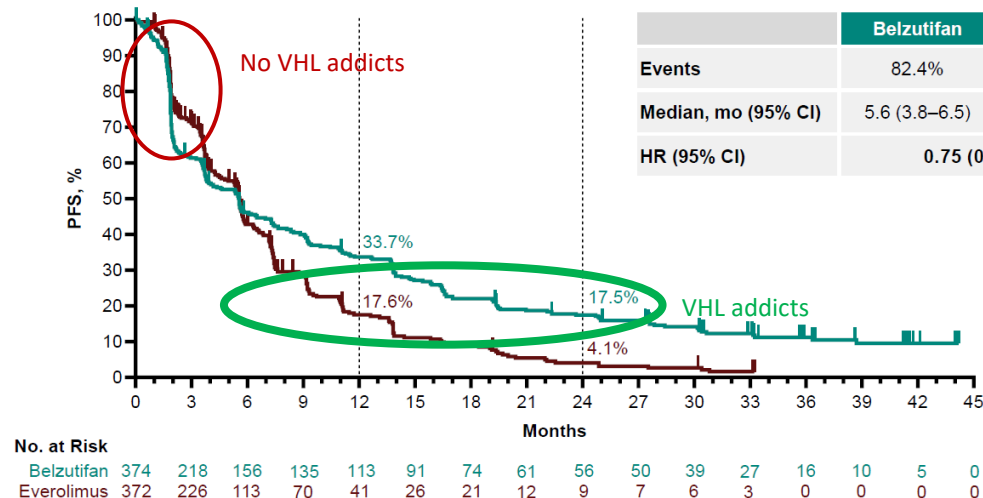
- DOR per RECIST 1.1 by BICR
- Safety

LITESPARK-005 PHASE III CLINICAL TRIAL

Characteristic	ITT		Ongoing Treatment
	Belzutifan (N = 374)	Everolimus (N = 372)	Belzutifan (n = 54)
Age, median (range), yrs	62 (22–90)	63 (33–87)	64 (44–79)
Male, %	79.4	76.3	81.5
KPS score ^a , %			
90/100	63.6	64.5	81.5
70/80	36.1	35.2	18.5
IMDC risk categories, %			
Favorable	21.7	22.6	31.5
Intermediate	66.3	65.1	59.3
Poor	12.0	12.4	9.3
Sarcomatoid features present, %	11.2	8.3	11.1
Prior nephrectomy, %	69.8	69.6	83.3
No. prior VEGFR-TKIs, %			
1	49.7	51.1	46.3
2-3	50.3	48.9	53.7
No. prior lines of therapy ^b , %			
1	12.0	14.0	16.7
2	42.2	44.6	44.4
3	45.2	40.3	38.9

LITESPARK-005 PHASE III CLINICAL TRIAL

Primary Endpoint: PFS per RECIST 1.1 by BICR

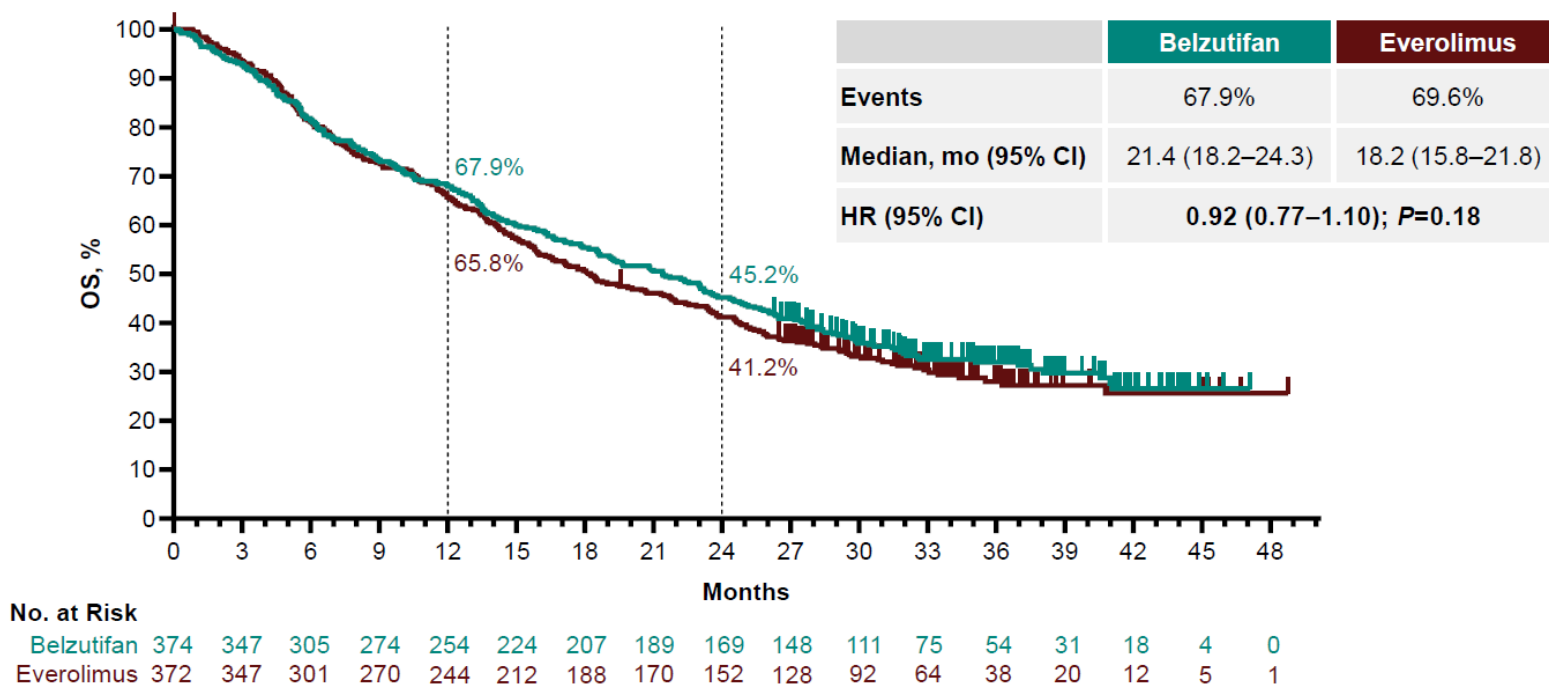


	Belzutifan	Everolimus
Events	82.4%	75.0%
Median, mo (95% CI)	5.6 (3.8–6.5)	5.6 (4.8–5.8)
HR (95% CI)	0.75 (0.63–0.88)	

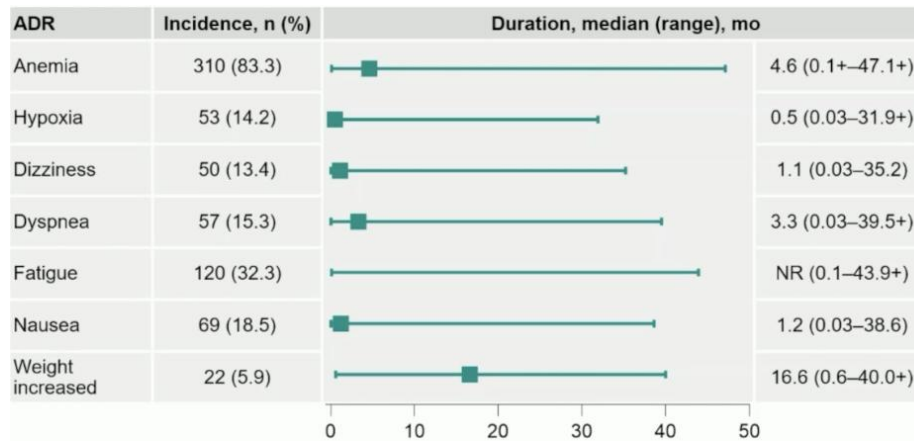
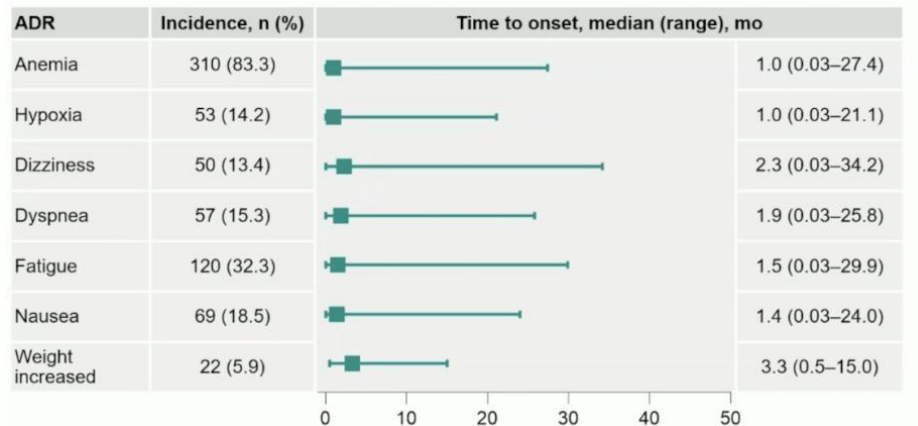
	Belzutifan (N = 374)	Everolimus (N = 372)
ORR, % (95% CI)	22.7% (18.6–27.3)	3.5% (1.9–5.9)
Estimated difference in % (95% CI)	19.2 (14.8–24.1)	
Confirmed best objective response, %		
CR	3.5%	0
PR	19.3%	3.5%
SD	38.2%	65.9%
PD	34.0%	21.5%
Not evaluable ^a	1.3%	2.4%
No assessment ^b	3.7%	6.7%

LITESPARK-005 PHASE III CLINICAL TRIAL

Primary Endpoint: OS



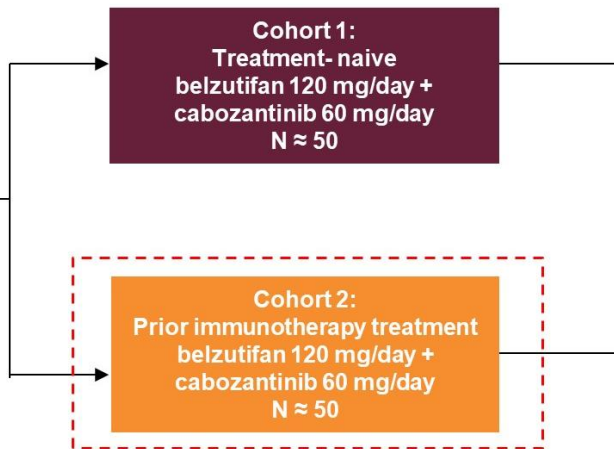
LITESPARK-005 PHASE III CLINICAL TRIAL



Phase II Belzutifan + Cabozantinib LITESPARK-003 (NCT03634540)

Key Eligibility Criteria

- Advanced or metastatic ccRCC
- Either treatment naive or has received prior PD-1/L1 immunotherapy and ≤2 regimens for locally advanced or metastatic RCC
- ECOG PS 0 or 1



Assessments

- Q8W after week 9 for 12 months and then Q12W thereafter

Posttreatment

- 28-day safety follow-up
- Follow-up visits every 6 months

End Points

- Primary: ORR
- Secondary: PFS, TTR, DOR, OS, safety/ tolerability, PK/PD

Safety and tolerability were evaluated in the first 6 participants enrolled, irrespective of cohort

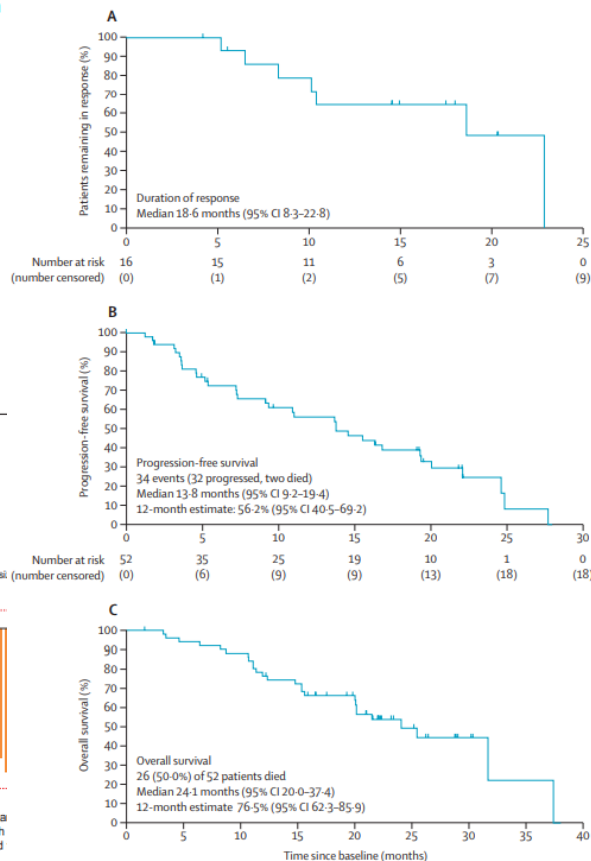
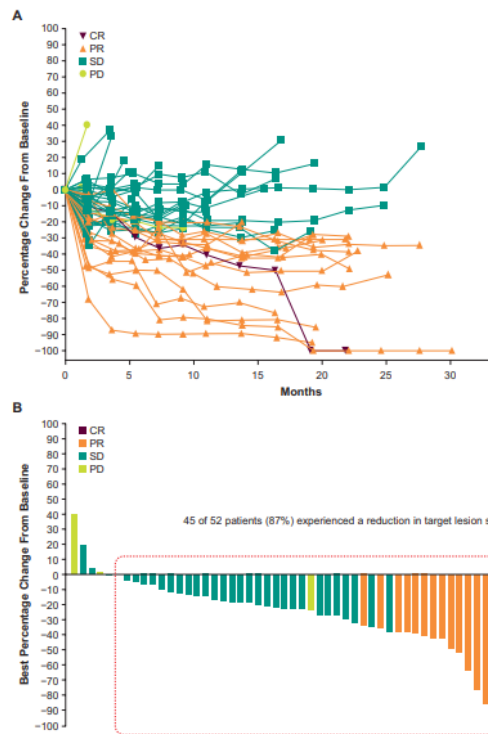
- If tolerability was established, enrollment continued
- If tolerability was not established, dose was reviewed

Phase II Belzutifan + Cabozantinib LITESPARK-003 (NCT03634540)

Figure 2. (A) Percentage change in target lesion size over time and (B) best percentage change from baseline in target lesions

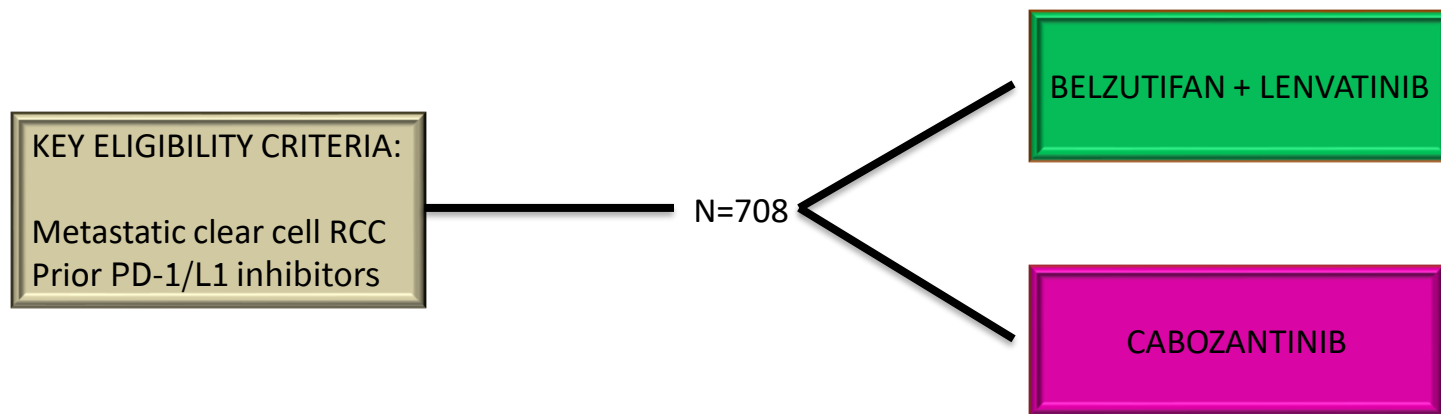
Table 3. ORR by prior anticancer therapy

	All patients N = 52	Prior anticancer therapy		Line of prior anticancer therapy	
		Immunotherapy only ^a n = 28	Immunotherapy/anti-VEGF therapy ^b n = 24	1 line of prior therapy n = 29	2 lines of prior therapy n = 23
ORR, % (95% CI)	31 (18.7-45.1)	32 (15.9-52.4)	29 (12.6-51.1)	31 (15.3-50.8)	30 (13.2-52.9)
Best overall response					
CR	1 (2)	1 (4)	0 (0)	1 (3)	0 (0)
PR	15 (29)	8 (29)	7 (29)	8 (28)	7 (30)
SD	32 (62)	17 (61)	15 (63)	18 (62)	14 (61)
PD	3 (6)	1 (4)	2 (8)	2 (7)	1 (4)
Not available	1 (2)	1 (4)	0 (0)	0 (0)	1 (4)



Ongoing Clinical Trials: Belzutifan in IO-pretreated patients

A Study of Belzutifan (MK-6482) in Combination With Lenvatinib Versus Cabozantinib for Treatment of Renal Cell Carcinoma (MK-6482-011) NCT04586231



Primary endpoint: Progression-Free Survival (PFS) per Response Evaluation Criteria in Solid Tumors Version 1.1 (RECIST 1.1) as Assessed by Blinded Independent Central Review (BICR) [Time Frame: Up to approximately 34 months]

Continuing IO-Based strategies

IO response adaptive strategy (CTLA-4 addition or PD-1 inhibition rechallenge)

Trial & Primary Endpoint & N

ORR PD-1i

Criteria CTLA4-i addition

N; ORR to CTLA4-i

HCRN GU16-260 (A) & TFS (N=128)

34% (6.5%) Part A

SD/PD (N= 34)

11.5% (3%) Part B

OMNIVORE (A) &
% PR/CR 1-year off nivolumab (N=12)

1L 17%
≥ 2L 12%

PD (N=3)

N/A (re-PD1 inh)

OMNIVORE (B) & %SD/PD with NIVO
achieving PR/CR with IPI (N = 57)

1L 17%
≥ 2L 12%

SD/PD (N=57)

4% (0)

TITAN & ORR full analysis set (N= 207)

1L: 28% (CR 2%)
2L: 18% (CR 0%)

SD/PD (N=108)

1L: 36% (CR 7%)
2L: 32% (CR 6%)

FRACTION RCC & ORR, DoR, PFS at 24w (N = 46)

N/A

PD to PD-1 inh (N=46)

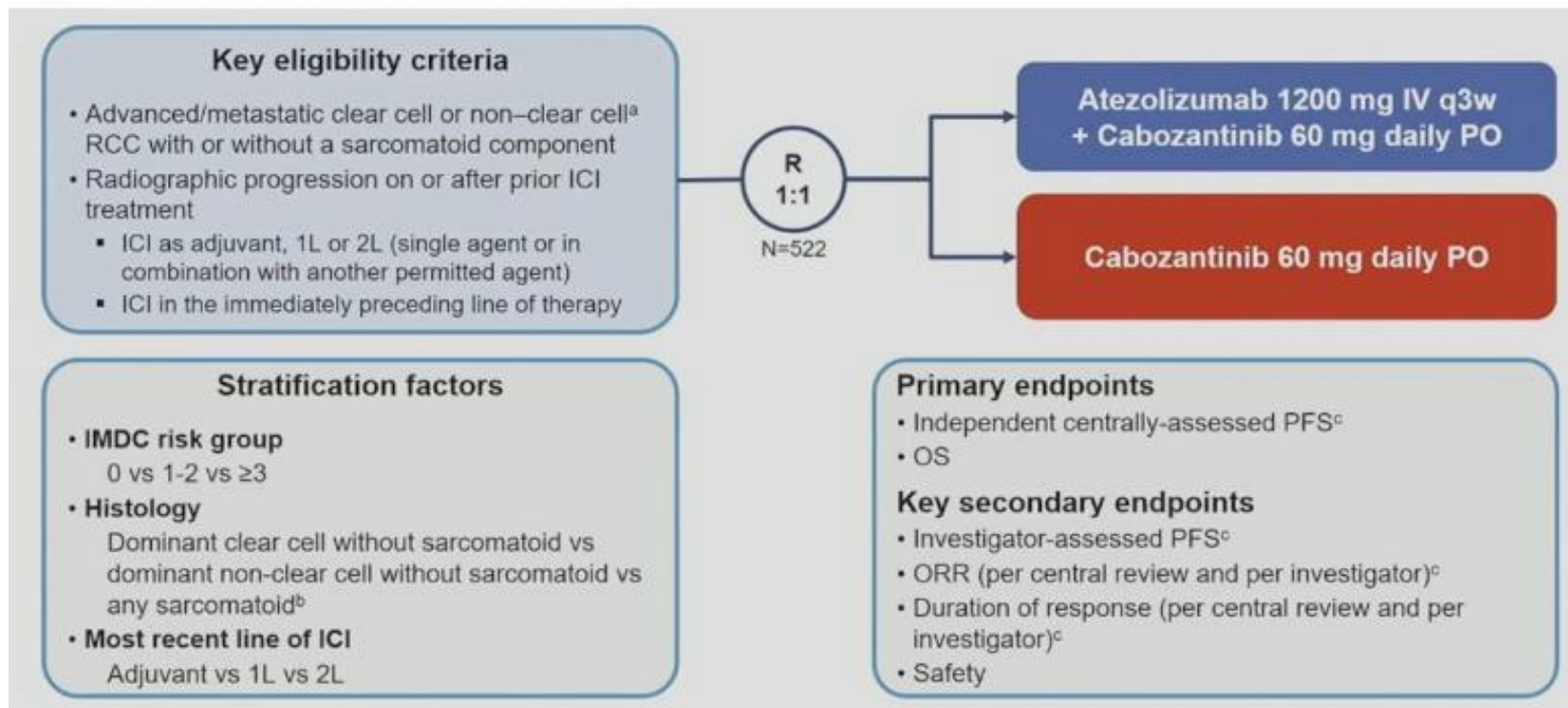
17.4% (0)

In the first line, adding CTLA-4 to PD-1 inhibitor upfront achieves better antitumor efficacy compared to adding CTLA-4 as a rescue agent to PD-1 progression.

In the second line, CTLA-4 inhibitor is able to rescue few patients progressing to PD-1 inhibitor (difficult to select which patients).

CONTACT-03

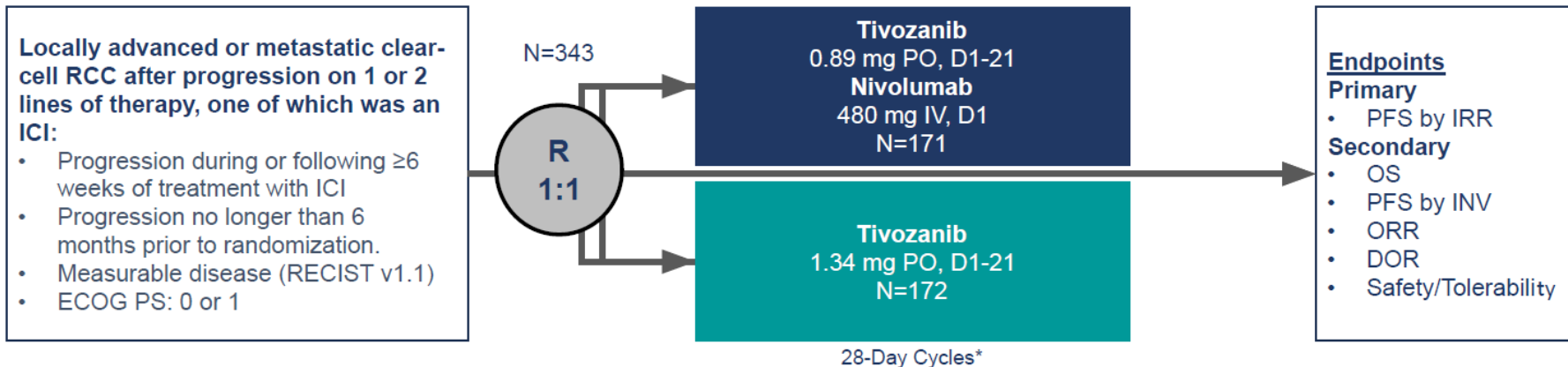
CONTINUING IO-BASED STRATEGIES



CONTINUING IO-BASED STRATEGIES

TiNivo-2: Phase 3 Study

TiNivo: Tivozanib 1.5mg/24h (3/1) + Nivo 480 mg Q4W
TIVO-1: Tivozanib 1.5 mg/24h (3/1)
TIVO-3: Tivozanib 1.5 mg/24h (3/1)



Stratification Factors

- IMDC risk category
- Prior therapy (ICI as most recent therapy or not)

Key Considerations

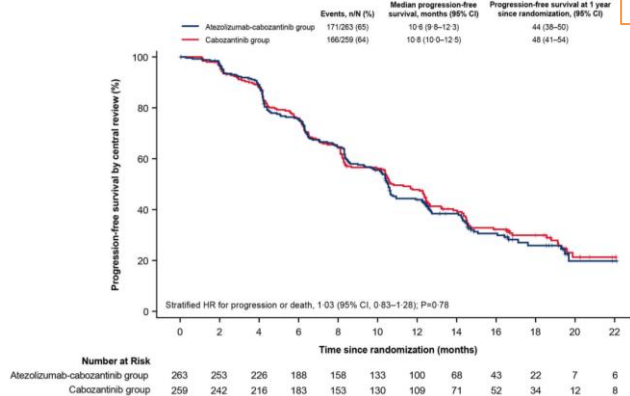
- Reduced dose of tivozanib in combination arm was agreed with regulatory authorities due to potential risk of higher rate of grade 3/4 hypertension
- Prior therapy (ICI as most recent therapy or not)
 - Test if ICI break impacts outcome (reset the immune system?)

BASELINE CHARACTERISTICS		CONTACT-03 (2020-2021)	TINIVO-2 (2021 – 2023)
Number of patients		522	343
Experimental arm		Cabozantinib 60 mg/24h + Atezolizumab 1200 mg iv q3w	Tivozanib 0.89 mg/24h 3/1 + nivolumab 480mg
Control arm		Cabozantinib 60 mg/24h	Tivozanib 1.34 mg/24h
Median follow up, months		15.6	11.8
Sarcomatoid pheatures, N (%)		25 (10)	-
IMDC	Favorable, N (%)	49 (19)	30 (18)
	Intermediate, N (%)	172 (65)	114 (67)
	Poor, N (%)	41 (16)	27 (16)
Previous treatment	Adjuvant, N (%)	1 (<1)	25 (15%)
	1L Metastatic, N (%)	144 (55)	111 (65%)
	2L Metastatic, N (%)	118 (45)	60 (35%)
1L treatment		Ipilimumab + nivolumab 80 (31%) Sunitinib 77 (29%); Pazopanib 36 (14%) Axitinib + pembrolizumab 36 (14%)	Ipilimumab + nivolumab 63 (39%); Nivolumab 6 (4%) Sunitinib or Pazopanib 11 (6%) TKI + IO 60 (35%)
2 L treatment		Nivolumab 104/119 (87%)	Cabozantinib/Sunitinib 38/65 (22%); Nivolumab 11/65 (6%)
VEGFR-TKI treatment	0L, N(%)	93 (35%)	53 (31%)
	1L, N(%)	166 (63%)	96 (56%)
	2L, N(%)	4 (2%)	22 (13%)

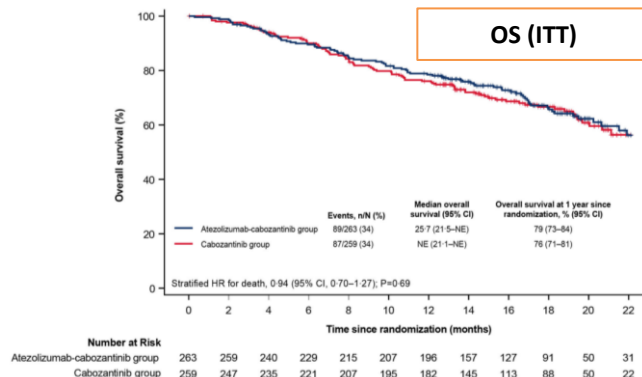
Most recent therapy Non ICI: 49 (29%)

CONTACT-03

PFS (BICR ITT)



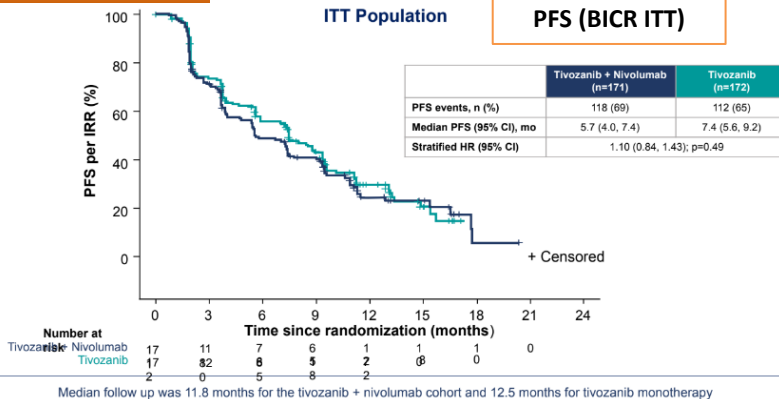
OS (ITT)



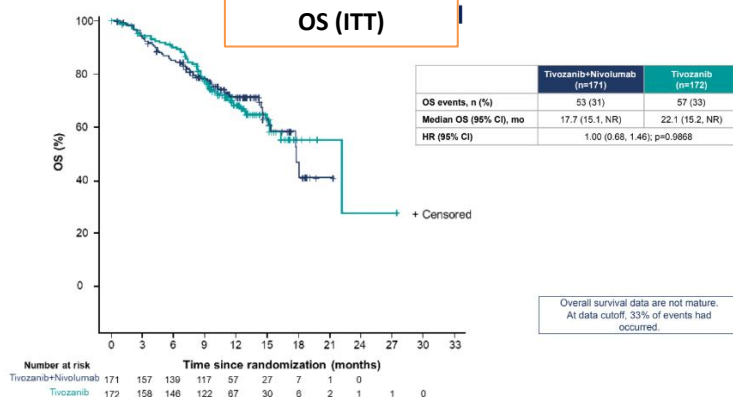
TINIVO-2

ITT Population

PFS (BICR ITT)



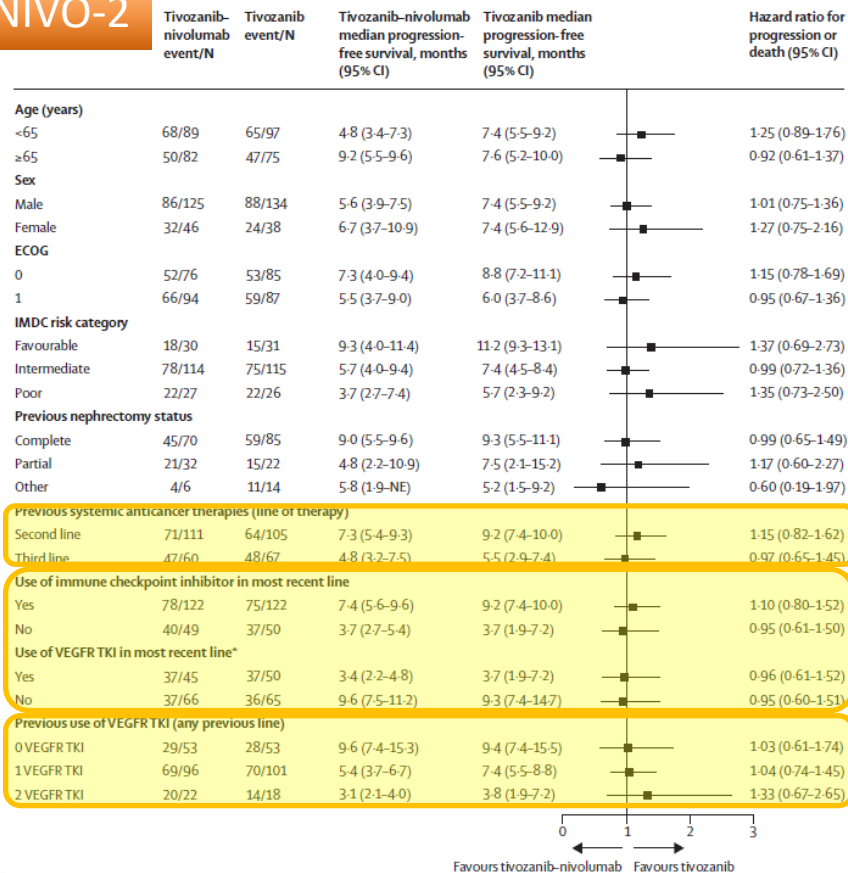
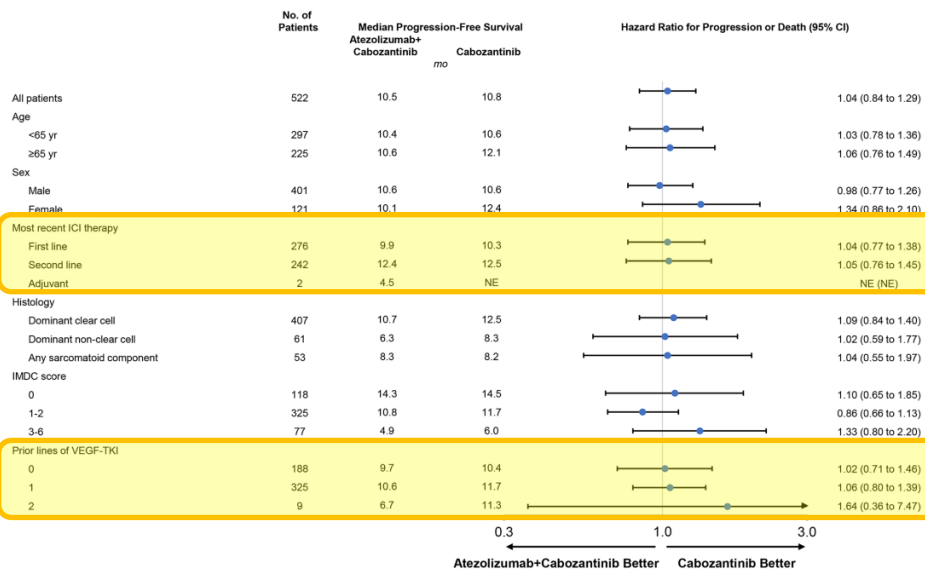
OS (ITT)



CONTACT-03

PFS subgroup analysis

TINIVO-2



CONTACT-03

RECIST 1.1 per central review^a

	Atezo + Cabo (n=259)	Cabo (n=254)
Confirmed objective response, n, (%) [95% CI]	105 (40.5) [34.5, 46.8]	104 (40.9) [34.8, 47.3]
Complete response, n (%)	0	2 (0.8)
Partial response, n (%)	105 (40.5)	102 (40.2)
Stable disease, n (%)	131 (50.6)	121 (47.6)
Progressive disease, n (%)	11 (4.2)	13 (5.1)
Not evaluable or missing, n (%)	12 (4.6)	16 (6.3)
Ongoing response at data cutoff, n/N (%)^b	53/105 (50.5)	55/104 (52.9)
Median duration of response (range), mo	12.7 (2.1+ to 22.9+)	14.8 (2.3+ to 25.6+)

TINIVO-2

	Tivozanib + Nivolumab (n=171)	Tivozanib (n=172)
ORR, n (%), [95% CI]	33 (19.3) [13.7, 26.0]	34 (19.8) [14.1, 26.5]
CR, n (%)	1 (0.6)	1 (0.6)
PR, n (%)	32 (18.7)	33 (19.2)
SD, n (%)	74 (43.3)	81 (47.1)
PD, n (%)	49 (28.7)	43 (25.0)
NE, n (%)	15 (8.8)	14 (8.1)
mDOR, mo (95% CI)	15.77 (5.65-NR)	9.66 (3.71-NR)

	CONTACT-03 Cabo (60 mg QD) arm (n=259)	TiNivo-2 Tivo (1.34 mg QD*) arm (n=172)
Select Any Gr TEAEs, %		
Diarrhea	71	36
Nausea	36	27
Asthenia	29	20
Fatigue	24	40
Anemia	19	9
Hypertension	34	40

Atezolizumab plus cabozantinib versus cabozantinib monotherapy for patients with renal cell carcinoma after progression with previous immune checkpoint inhibitor treatment (CONTACT-03): a multicentre, randomised, open-label, phase 3 trial

Sumanta Kumar Pal, Laurence Albiges, Piotr Tomczak, Cristina Suárez, Martin H Voss, Guillermo de Velasco, Jad Chahoud, Anastasia Mochalova, Giuseppe Procopio, Hakim Mahammedi, Friedemann Zengerling, Chan Kim, Takahiro Osawa, Martín Angel, Suyasha Gupta, Omara Khan, Guillaume Berghold, Bo Liu, Melania Kalaitzidou, Mahrukh Huseni, Christian Scheffold, Thomas Powles, Toni K Choueiri

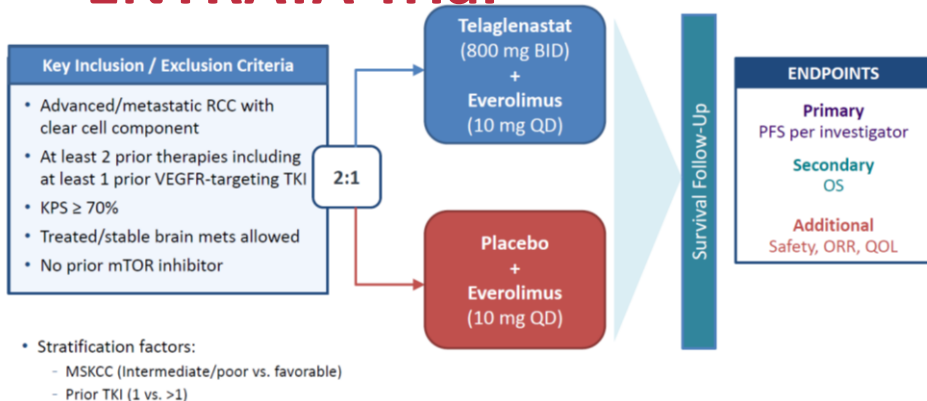
Tivozanib plus nivolumab versus tivozanib monotherapy in patients with renal cell carcinoma following an immune checkpoint inhibitor: results of the phase 3 TiNivo-2 Study

Toni K Choueiri, Laurence Albiges, Philippe Barthélémy, Roberto Iacovelli, Sheik Emambux, Javier Molina-Cerrillo, Benjamin Garmez, Pedro Barata, Arnab Basu, Maria T Bourlon, Helen Moon, Raffaele Ratta, Rana R McKay, Alexander Chehraz-Raffle, Hans Hammers, Daniel Y C Heng, Edgar Braendle, Kathryn E Beckermann, Bradley A McGregor, Robert J Motzer**

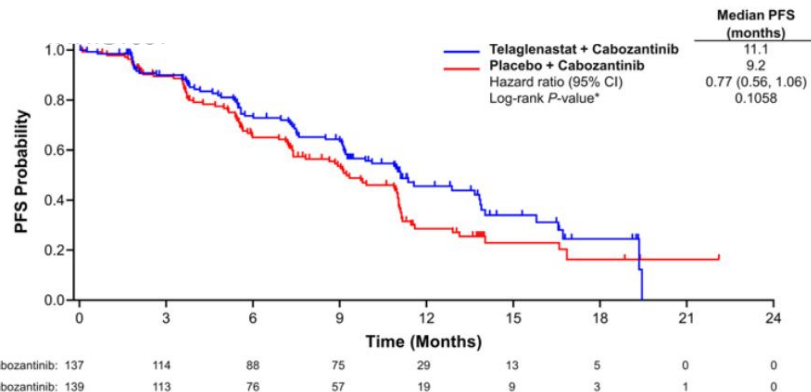
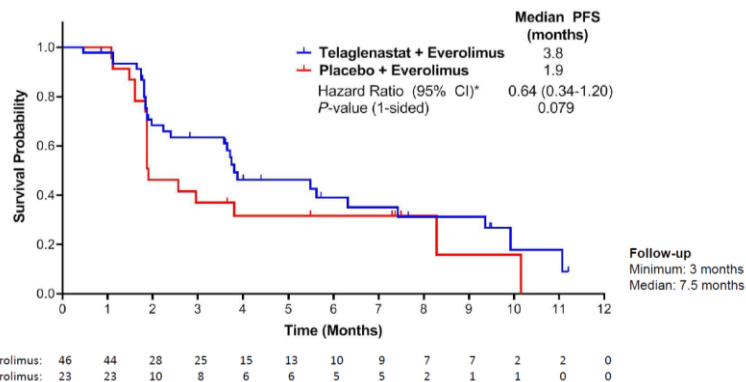
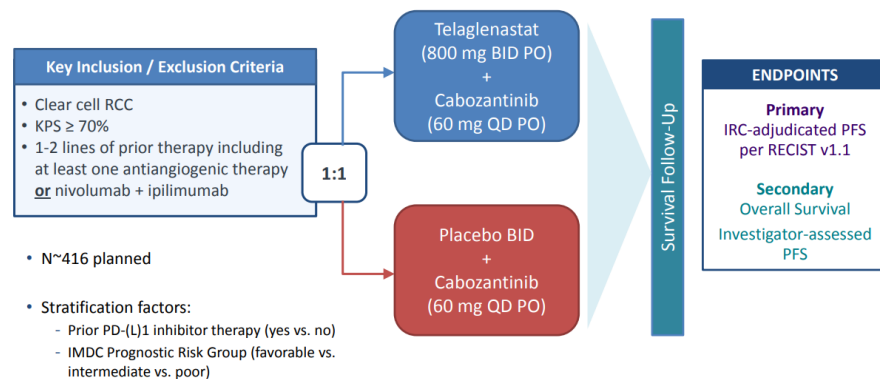
CONTACT 03 & TINIVO-2 limit the role for continuing/rechallenging PD-1/PD-L1 inhibition after progression in advanced RCC, but these studies highlight the role of TKI in treatment sequence according to current clinical practice.

19^{as} Jornadas HITOS ONCOLÓGICOS: LO MEJOR DE 2024

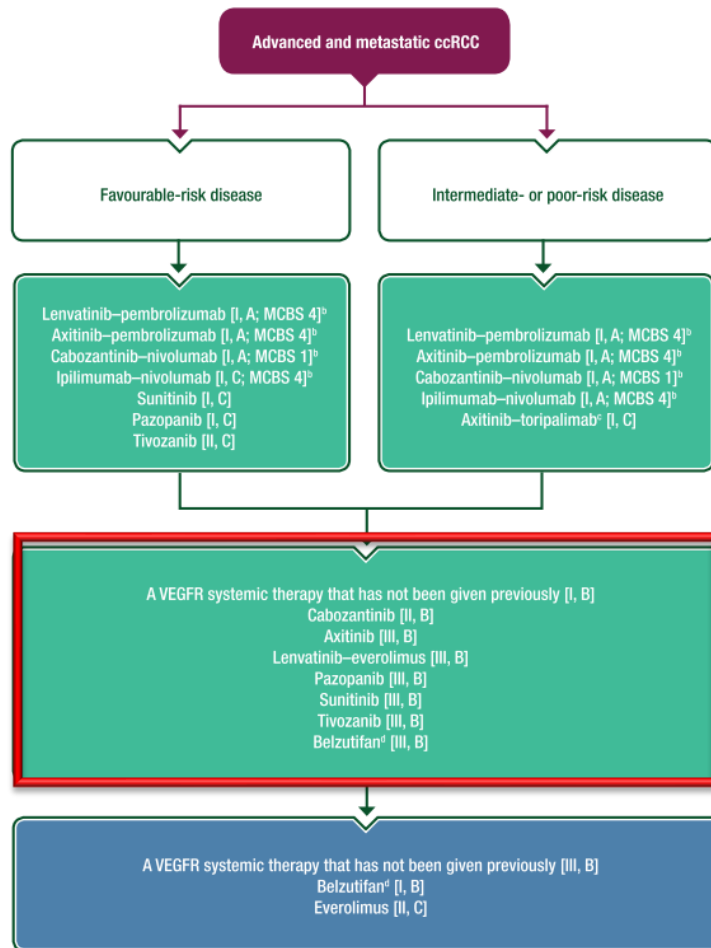
ENTRATA Trial



CANTATA Trial



ESMO Guidelines

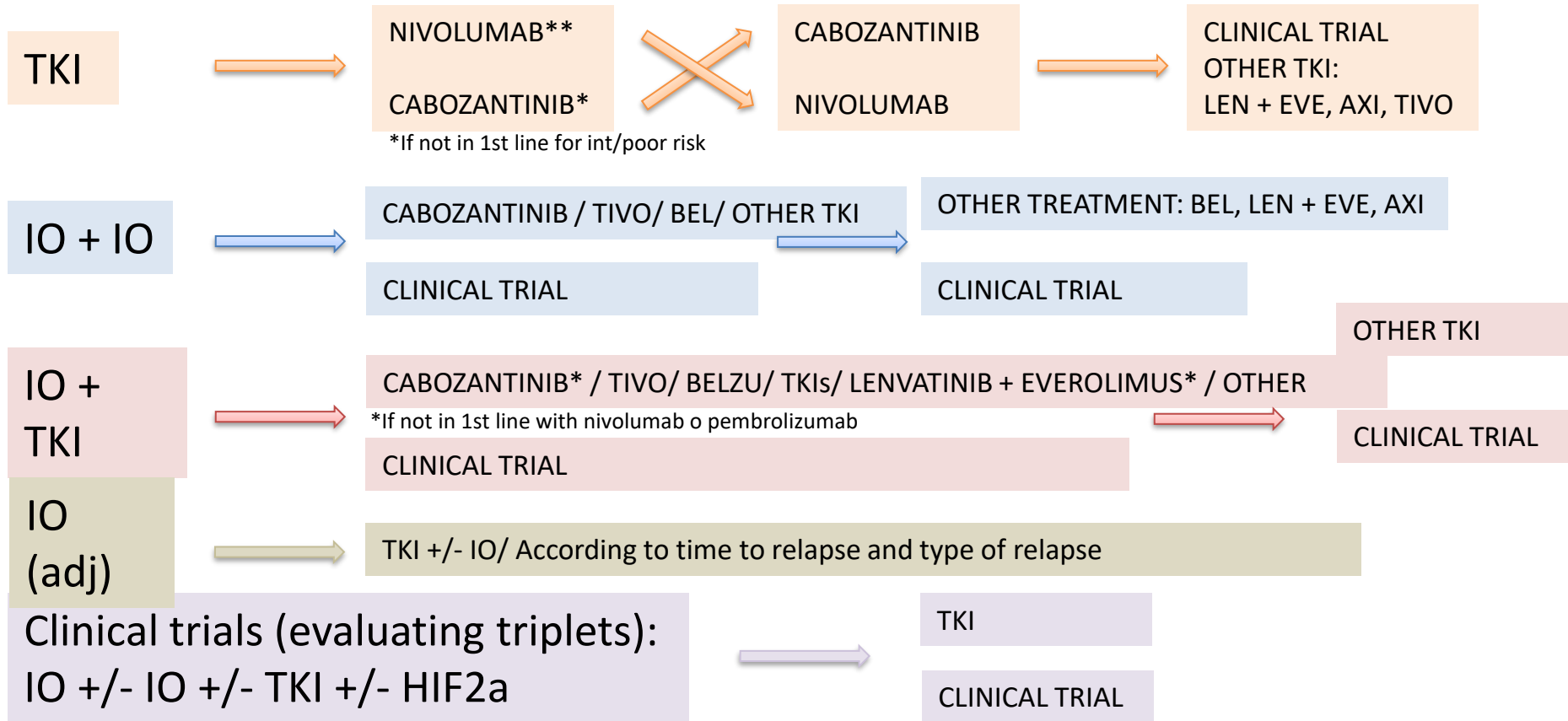


NCCN Guidelines

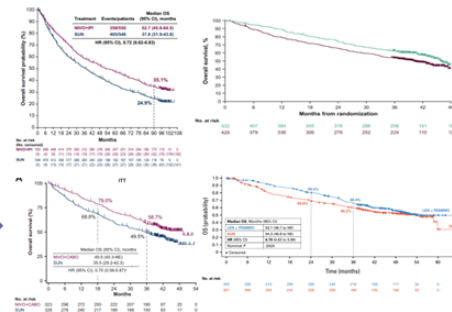
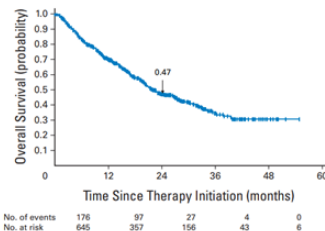
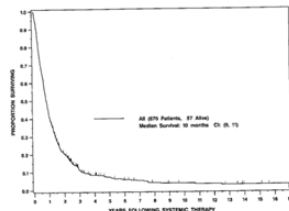
PRINCIPLES OF SYSTEMIC THERAPY FOR STAGE IV OR RELAPSED DISEASE

SUBSEQUENT THERAPY FOR CLEAR CELL HISTOLOGY (IN ALPHABETICAL ORDER BY CATEGORY)			
Immuno-oncology (IO) Therapy History Status	Preferred Regimens	Other Recommended Regimens	Useful in Certain Circumstances
IO Therapy Naïve	• None	• Axitinib + pembrolizumab^b • Cabozantinib • Cabozantinib + nivolumab^b • Everolimus + lenvatinib • Ipilimumab + nivolumab^b • Lenvatinib + pembrolizumab^b • Nivolumab^b	• Axitinib • Everolimus • Pazopanib • Sunitinib • Tivozanib^d • Belzutifan (category 2B) • Bevacizumab^e (category 2B) • Axitinib + avelumab^f (category 3)
Prior IO Therapy	• None	• Axitinib • Belzutifan^c • Cabozantinib • Everolimus + lenvatinib • Tivozanib^d	• Axitinib + pembrolizumab^b • Cabozantinib + nivolumab^b • Everolimus • Ipilimumab + nivolumab^b • Lenvatinib + pembrolizumab^b • Pazopanib • Sunitinib • Bevacizumab^e (category 2B) • Axitinib + avelumab^f (category 3)

Different 2L clinical scenarios according to 1L



Novel agents, treatment sequencing, local therapies, safety management



Median Overall Survival	MSKCC (Motzer, 1999)	IMDC (Heng, 2009)	CM214	K...S	CLEAR	CM9ER
All population, months	10 (95% CI 9–11)	22 (95% CI, 20.2 to 26.5)	52.7			49.5
Favorable, months	19.9 (95% CI 17.1 – 27.9)	NR	77.9			
Intermediate, months	10.3 (95% CI 8.9 – 11.4)	27				51.5
Poor, months	3.9 (95% CI 3.4 – 5.0)	8.8	48.1			54.8

x 5 All population
x 4 Favorable
x 5 Intermediate
x 9 Poor

CONCLUSIONS

- Despite the improvement in oncological outcomes achieved in the first line treatment, most patients will finally progress and need further subsequent treatment.
- Time on treatment, tolerability, tumor burden at disease progression, patient comorbidities and preferences are relevant in treatment decision.
- Scientific knowledge is progressively improving with current trials including patients receiving contemporary strategies:
 - CONTACT-03/ TINIVO-2: No Benefit in IO (PD-1/PD-L1) continuation or rechallenge, but showing relevant information from control arms (cabozantinib and tivozanib).
 - Discouraging results from the CTLA-4 rechallenge to PD-1 progression.
 - Belzutifan is coming in the field of treatment sequencing.
- Novel strategies, hopefully, will show promising results in the near future. We need biomarkers!

THANK YOU FOR YOUR ATTENTION

