



Cancer du Rein:

RECOMMANDATIONS

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2^{ème} FORUM DES CANCERS UROLOGIQUES

Thèmes :

- Epidémiologies et dépistage
- Diagnostic
- Etudes anatomo-pathologies
- Examen radiologique et bilan d'extension
- Prise en charge thérapeutique

09 et 10 juin 2022, Hôtel Mercure, Alger

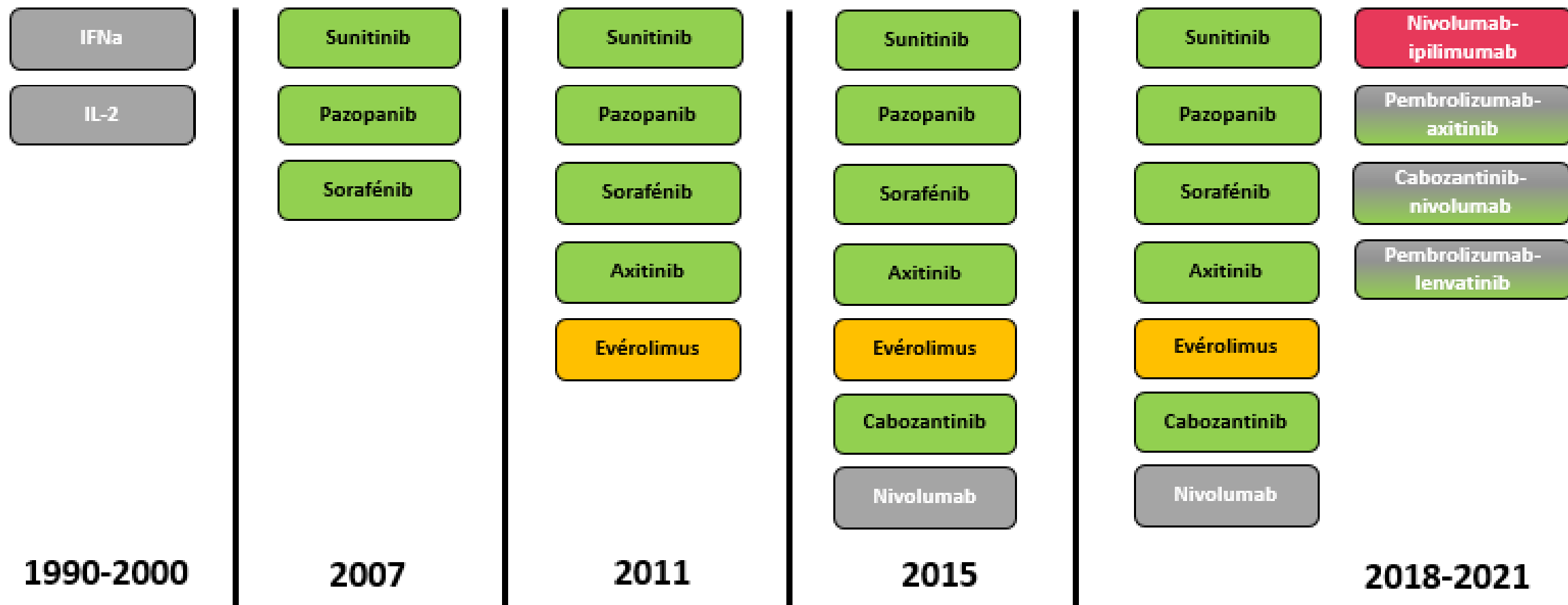
RENAL CELL CARCINOMA

- Accounts for 5% and 3% of all adult malignancies in men and women, respectively
- Representing the 7th most common cancer in men and the 10th most common cancer in women

Management has greatly evolved recently

- **Metastatic setting**
 - **Cytoreductive nephrectomy**
 - **Systemic treatment changes**
- **Localised disease:**
 - **Role for adjuvant CPI**

Arsenal thérapeutique riche dans le mRCC

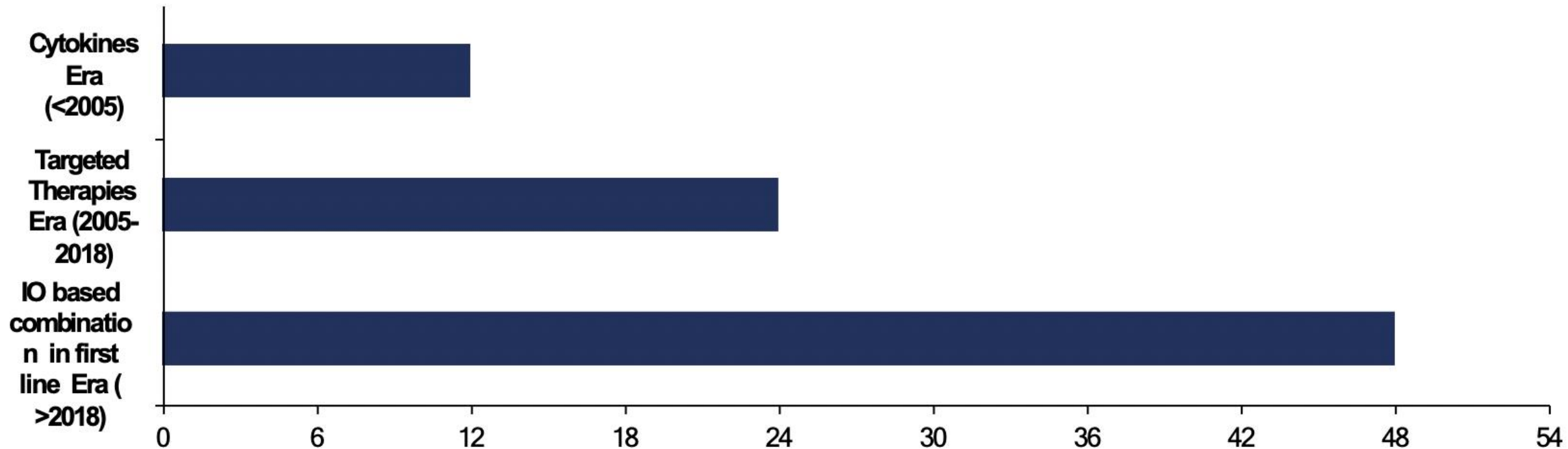


Survie globale

OVERALL SURVIVAL: CHANGES IN 20 YEARS

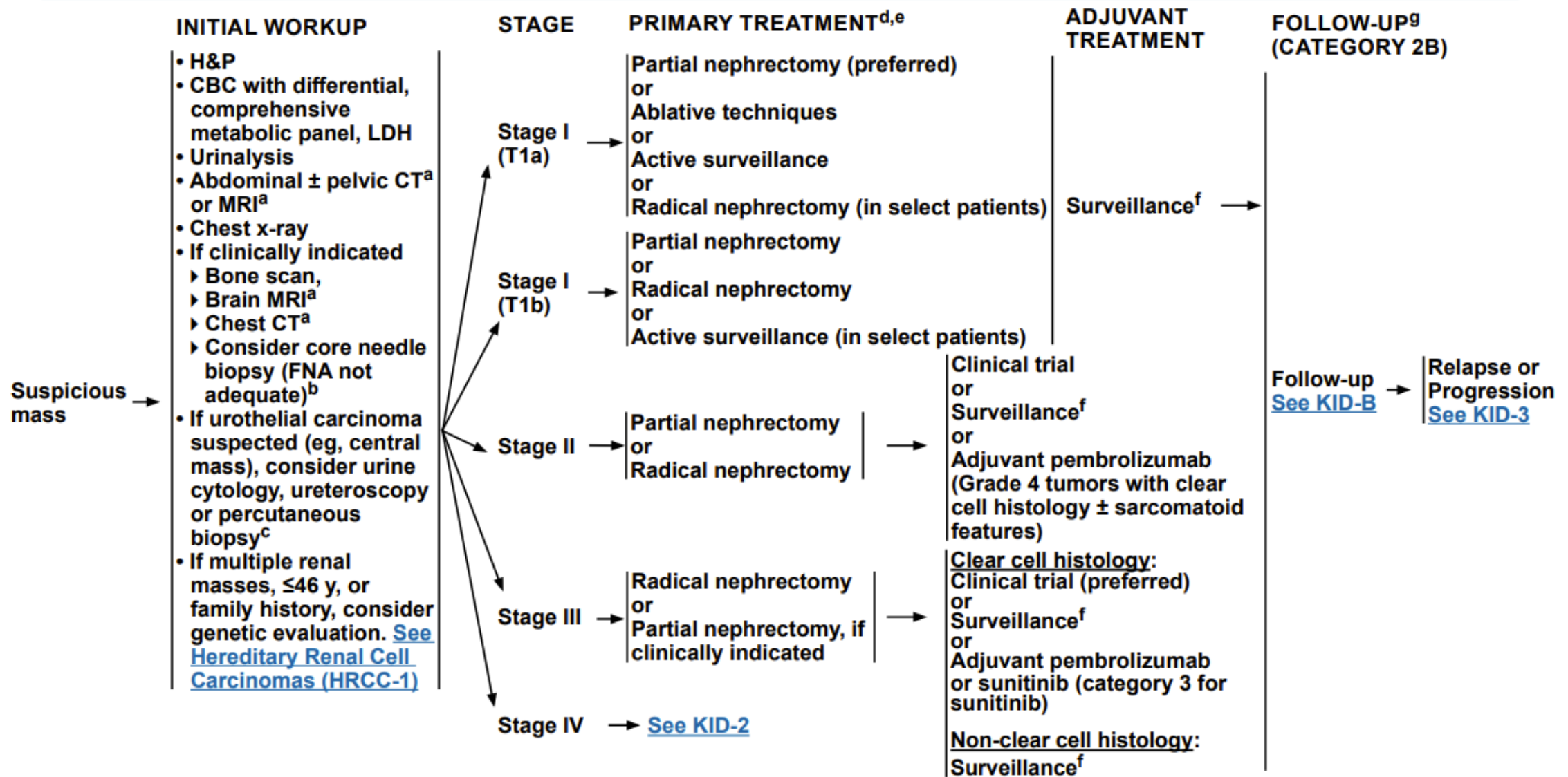
What has been achieved and need to be implemented routinely

■ Median Overall Survival (Months)



RCC: Traitement Adjuvant





Published Tyrosine Kinase Inhibitor Adjuvant Trials

Trial	Therapy	N	Histology	Stage	Starting Dose	Minimum Dose	Significant Difference?	
							DFS	OS*
ASSURE¹	Sunitinib Sorafenib Placebo	1943	79% ccRCC ccRCC was Primary endpt	> pT1b, G3-4, or N+	50 or 37.5 mg (Su)/ 400 mg (So)	25 mg (Su)/40 mg (So)	No	No
S-TRAC^{2,3}	Sunitinib Placebo	615	ccRCC	> pT3b or N+	50 mg	37.5 mg	Yes	No
PROTECT^{4,5}	Pazopanib Placebo	1538	ccRCC or mostly ccRCC	pT2 (G3-4), ≥ pT3, or N+	600 mg	400 mg	No	No

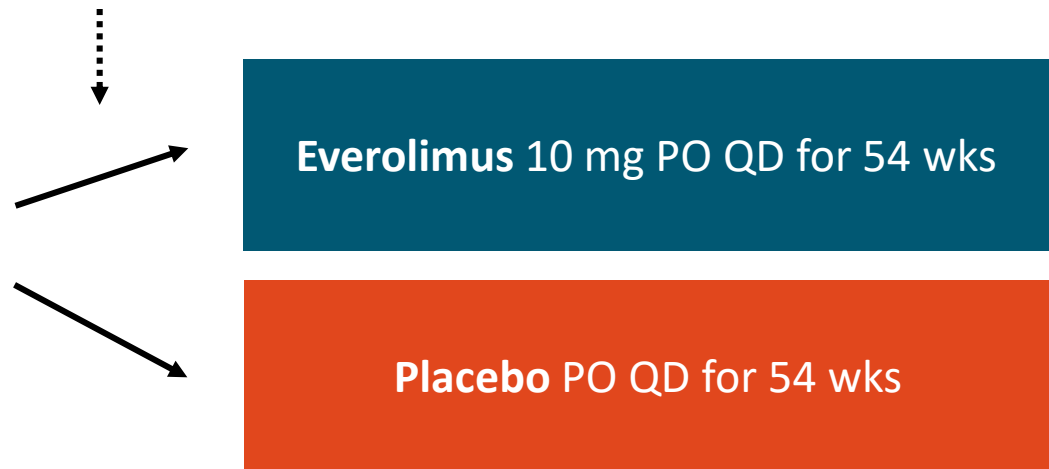
*Studies included OS as secondary endpoint and may not be powered to show an improvement.

EVEREST: Everolimus vs Placebo for Patients With RCC After Nephrectomy or Partial Nephrectomy

- Multicenter, randomized phase III trial of everolimus vs placebo for patients with pathologically intermediate high-risk or very high-risk RCC after nephrectomy

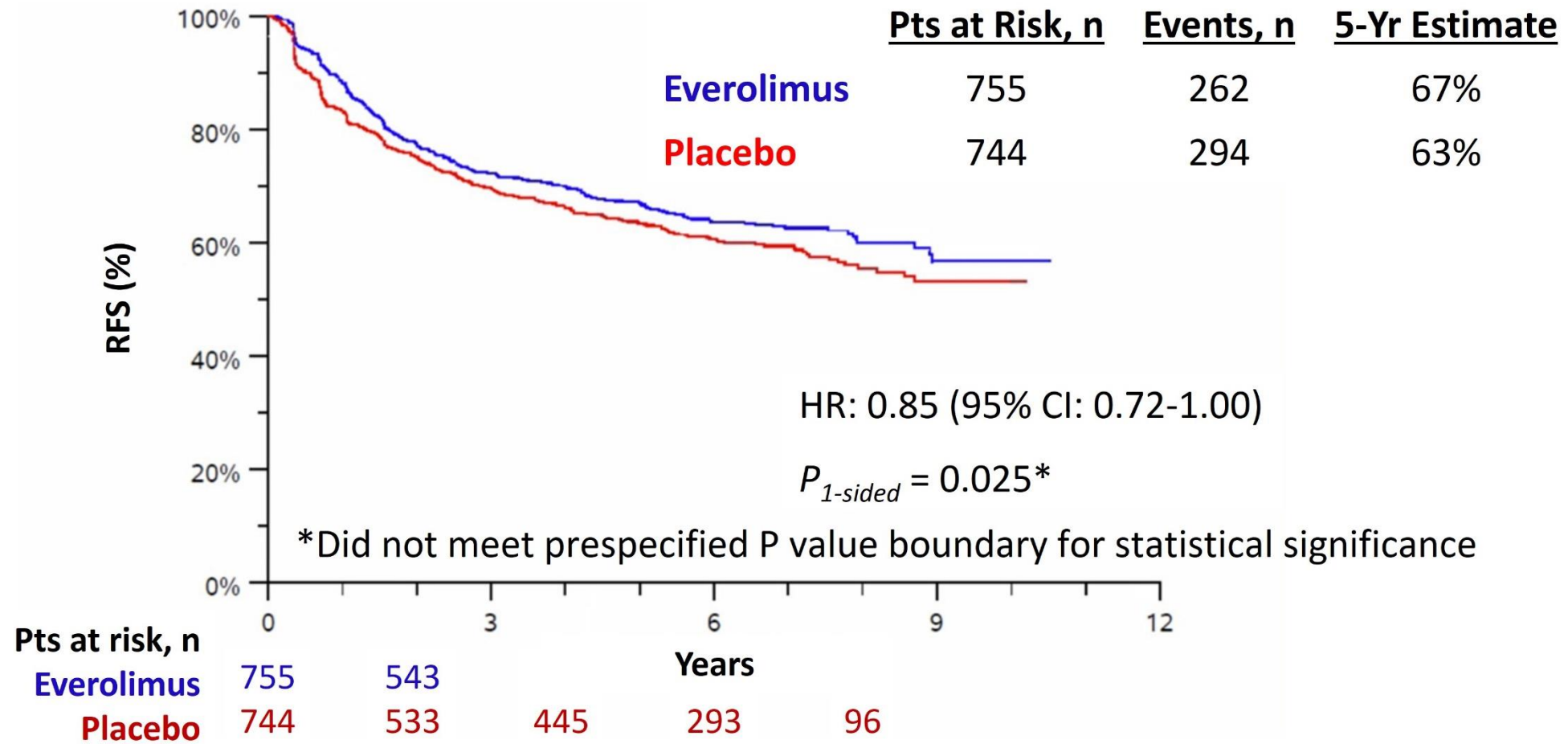
*Stratified risk (intermediate high risk vs very high risk),
histologic subtype (clear cell vs non-clear cell), and performance status (0 vs 1)*

Patients with histologically confirmed RCC, clear cell or non-clear cell allowed, **within 12 weeks of full surgical resection** including any clinically positive nodes; **NED** (negative margins, no evidence of residual or metastatic RCC on CT scan after nephrectomy and within 28 days before enrolment); **TNM stage pT1b G3-4, pT2 and G, or any N+**; pathologically either intermediate high-risk or very high-risk disease
(N = 1545)

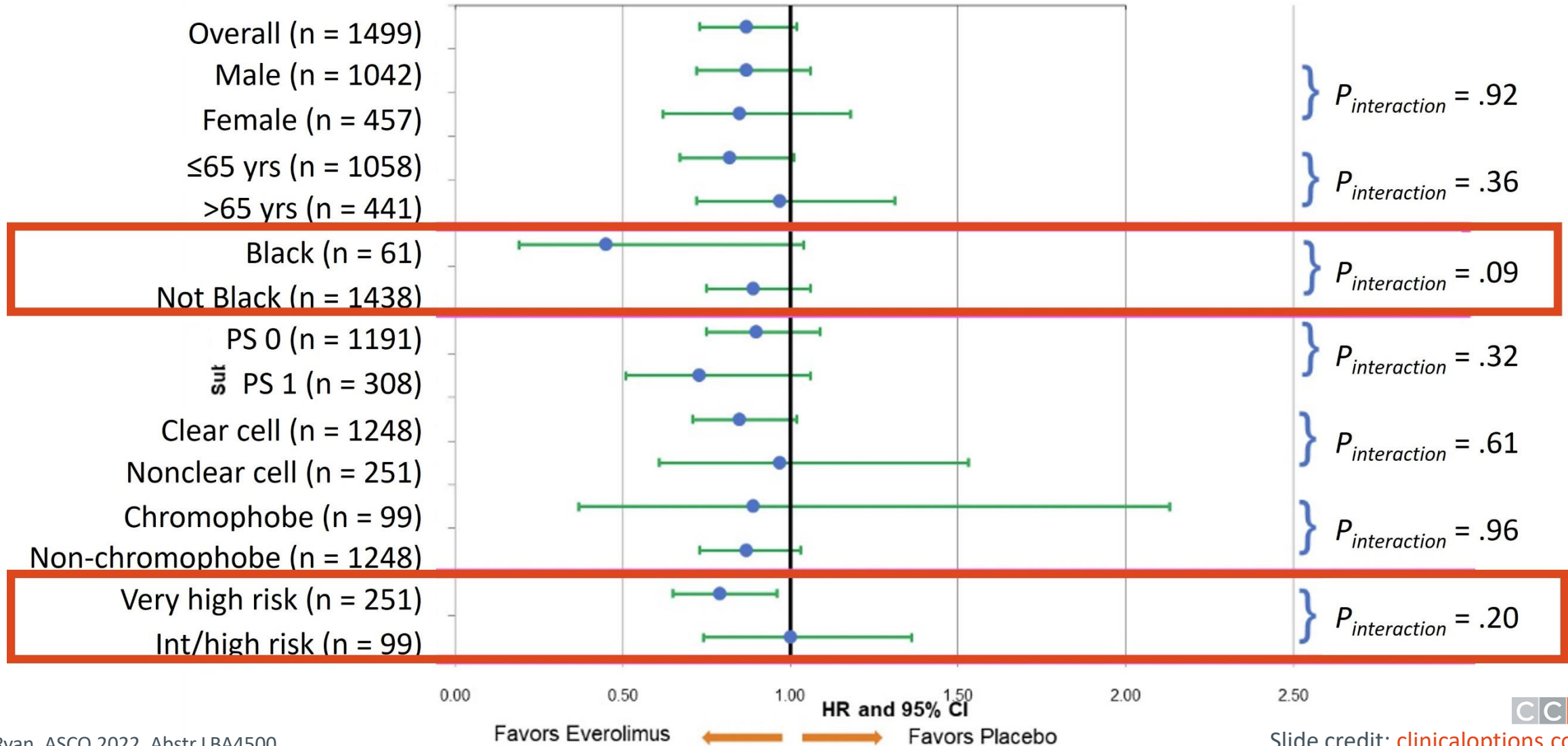


- **Primary endpoint:** recurrence-free survival
- **Secondary endpoints:** OS, safety

EVEREST: Recurrence-Free Survival with Everolimus vs Placebo After Nephrectomy or Partial Nephrectomy

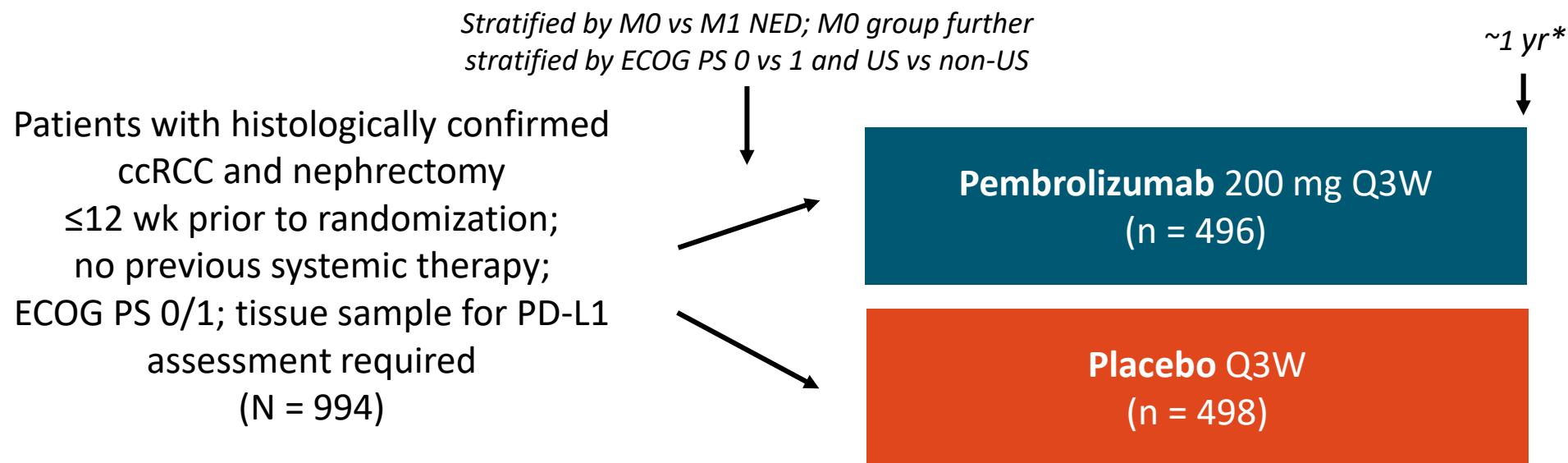


EVEREST: Everolimus vs Placebo for Patients With RCC After Nephrectomy or Partial Nephrectomy



KEYNOTE-564 30-Mo Follow-up: Adjuvant Pembrolizumab vs Placebo for ccRCC

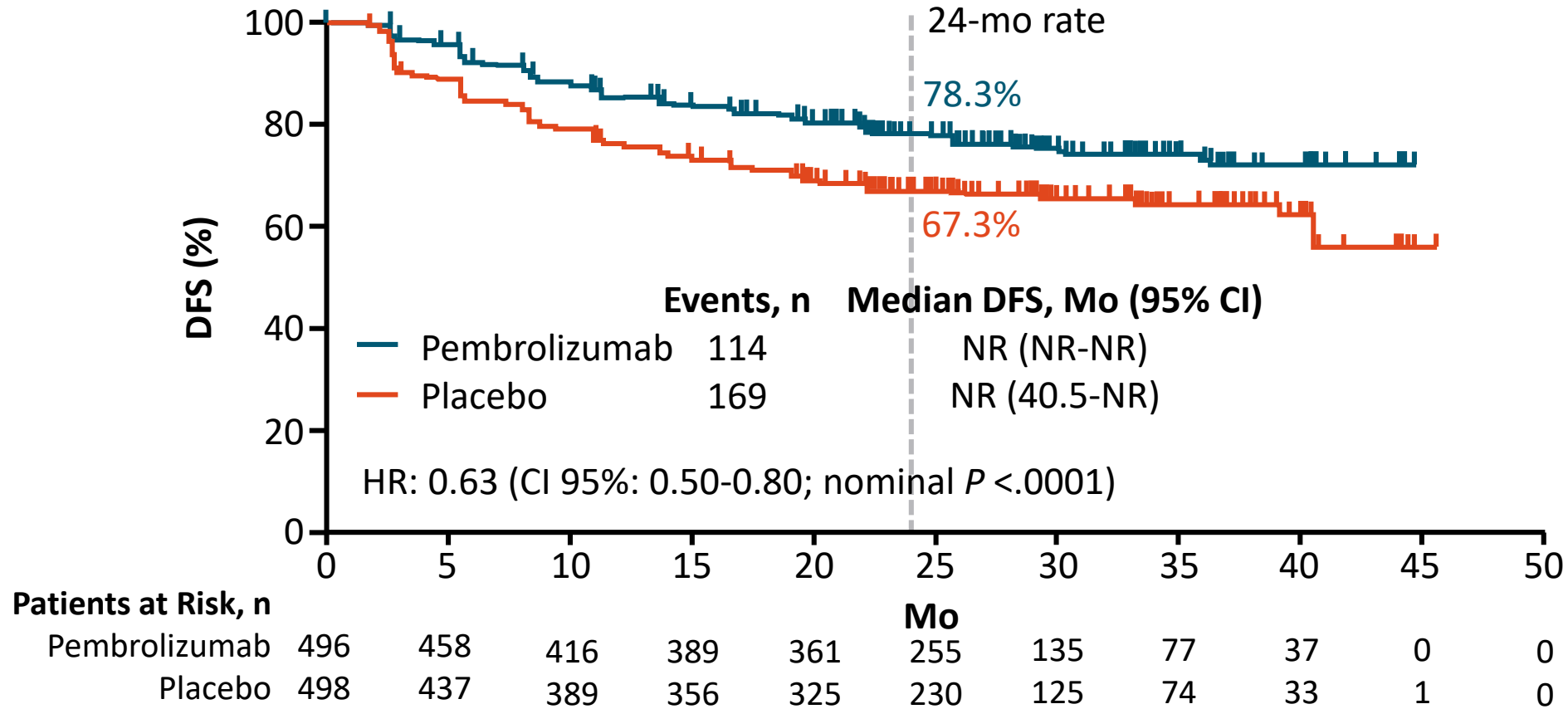
- Multicenter, randomized, double-blind phase III trial of adjuvant therapy



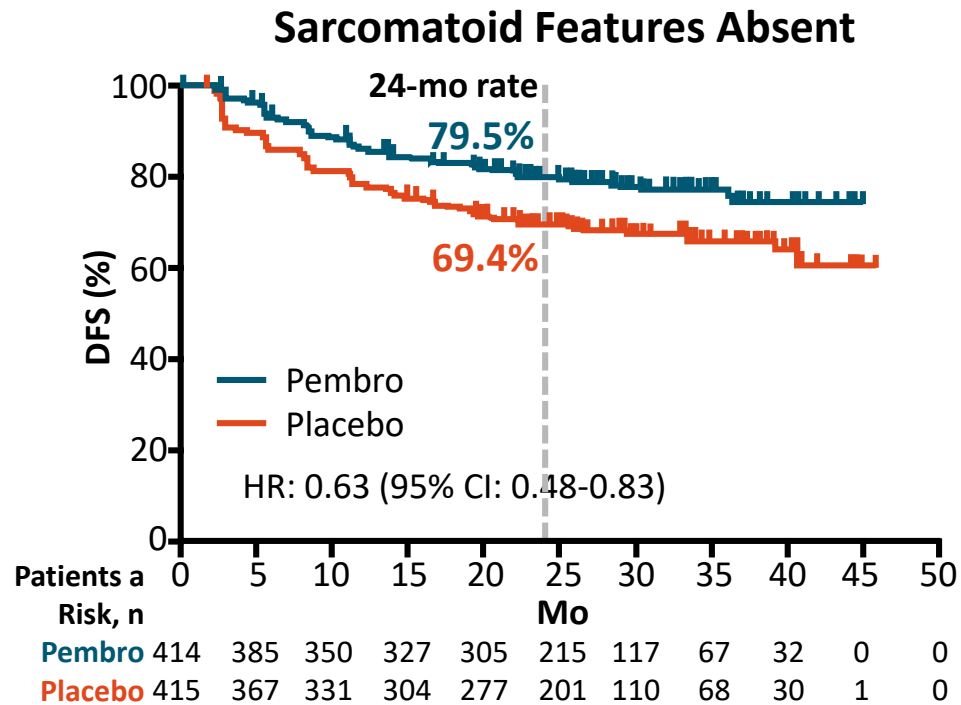
*Equivalent to ≤17 cycles.

- Primary endpoint: DFS per investigator
 - Met in first interim analysis
- Secondary endpoints: OS, safety
 - *P* value boundary for OS significance: .0000095

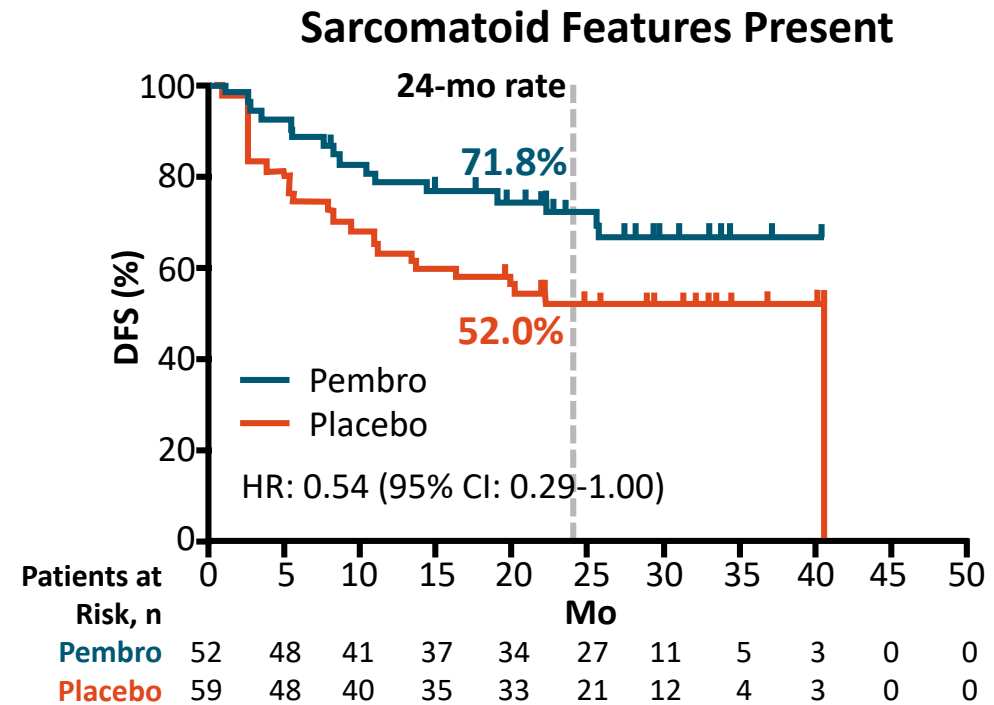
KEYNOTE-564 30-Mo Follow-up: DFS in ITT Population (Primary Endpoint)



KEYNOTE-564 30-Mo Follow-up: DFS by Sarcomatoid Status

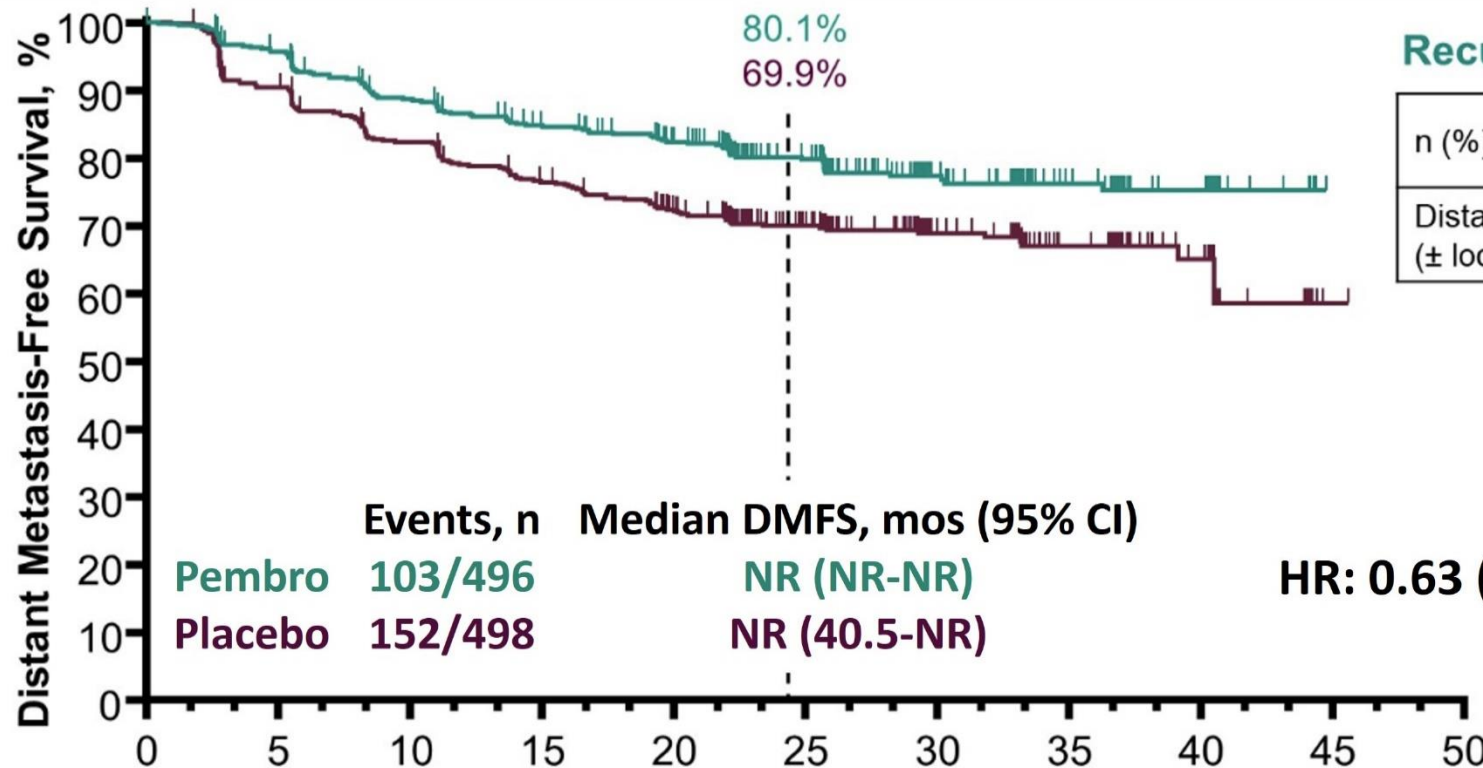


	Events	Median DFS, Mo (95% CI)
Pembro (n = 414)	88	NR (NR-NR)
Placebo (n = 415)	133	NR (NR-NR)



	Events	Median DFS, Mo (95% CI)
Pembro (n = 52)	16	NR (NR-NR)
Placebo (n = 59)	29	40.5 (11.3-NR)

KEYNOTE-564 Expanded Efficacy Analysis: Distant Metastasis-Free Survival in ITT Population



Recurrence events

n (%)	Pembrolizumab n = 496	Placebo n = 498
Distant (± local)	95 (19.2)	140 (28.1)

Events, n Median DMFS, mos (95% CI)

Pembro 103/496 **NR (NR-NR)**

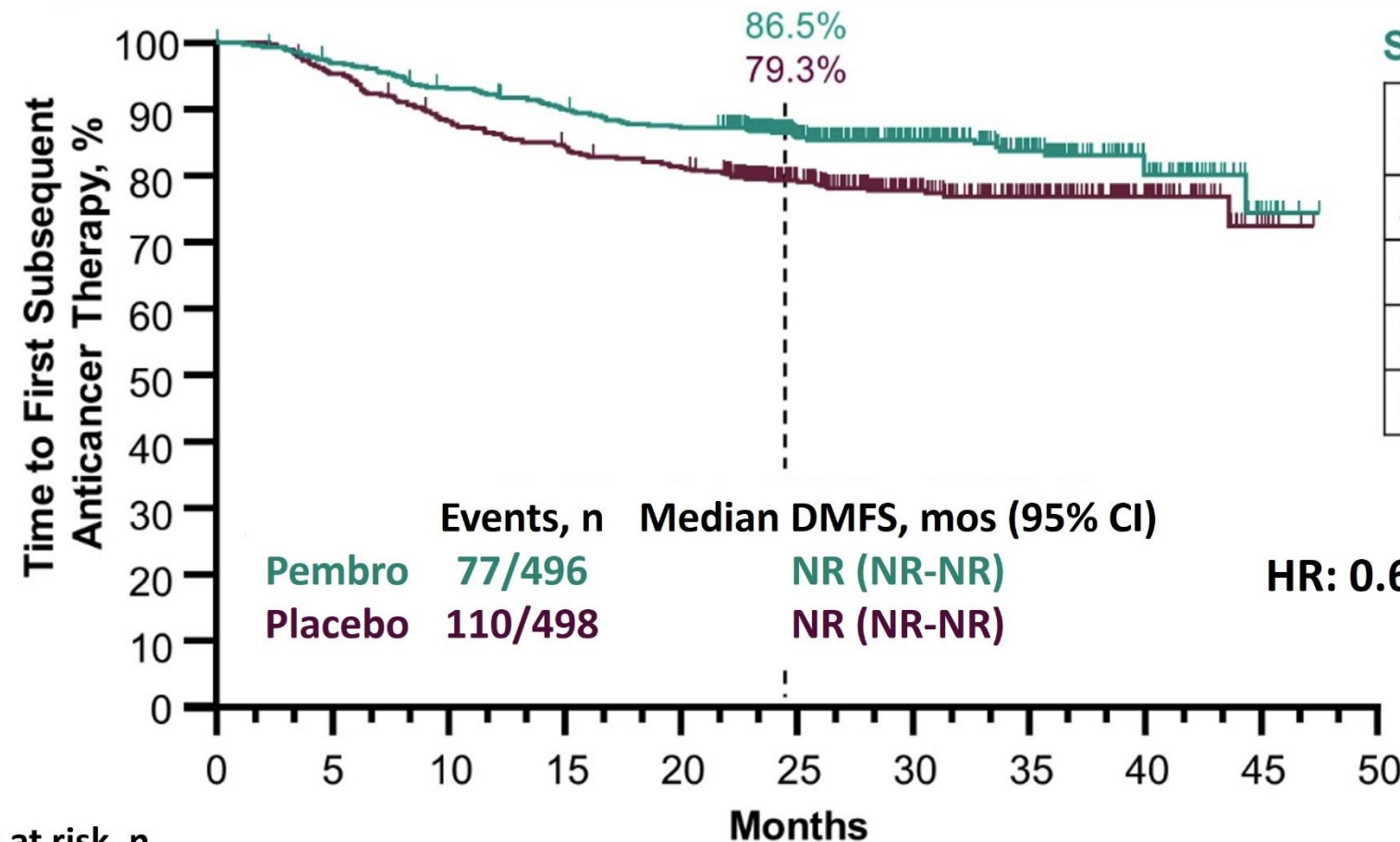
Placebo 152/498 **NR (40.5-NR)**

HR: 0.63 (95% CI: 0.49-0.82)

Pts at risk, n

	0	5	10	15	20	25	30	35	40	45	50
Pembro	496	457	415	387	361	255	135	76	37	0	0
Placebo	498	439	394	360	327	230	126	74	33	1	0

KEYNOTE-564 Expanded Efficacy Analysis: Time to First Subsequent Therapy in ITT Population



Subsequent therapy

n (%)	Pembrolizumab n = 496	Placebo n = 498
Any	84 (17.5)	124 (24.9)
Drug therapy	67 (13.5)	99 (19.9)
Radiation therapy	17 (3.4)	19 (3.8)
Surgery	23 (4.6)	36 (7.2)

Pts at risk, n

	0	5	10	15	20	25	30	35	40	45	50
Pembro	496	478	457	440	425	320	203	129	54	8	0
Placebo	498	473	436	416	400	297	184	116	52	9	0

Questions sans réponses

- **Durée** nécessaire de traitement en adjuvant : une année c'est suffisant ou pas?
- **Intensité** du traitement adjuvant : la monothérapie est-elle suffisante?
- **Risque de toxicité** : sur-traitement ou sous-traitement?
- **Besoin de quels types d'essais** : Validation du ctDNA, signature immunologique ou angiogénique?
- Utiliser les meilleures technologies pour identifier ceux qui vont progresser de ceux qui vont répondre parmi les patients traités

Première ligne de Treatment pour le RCC avancé

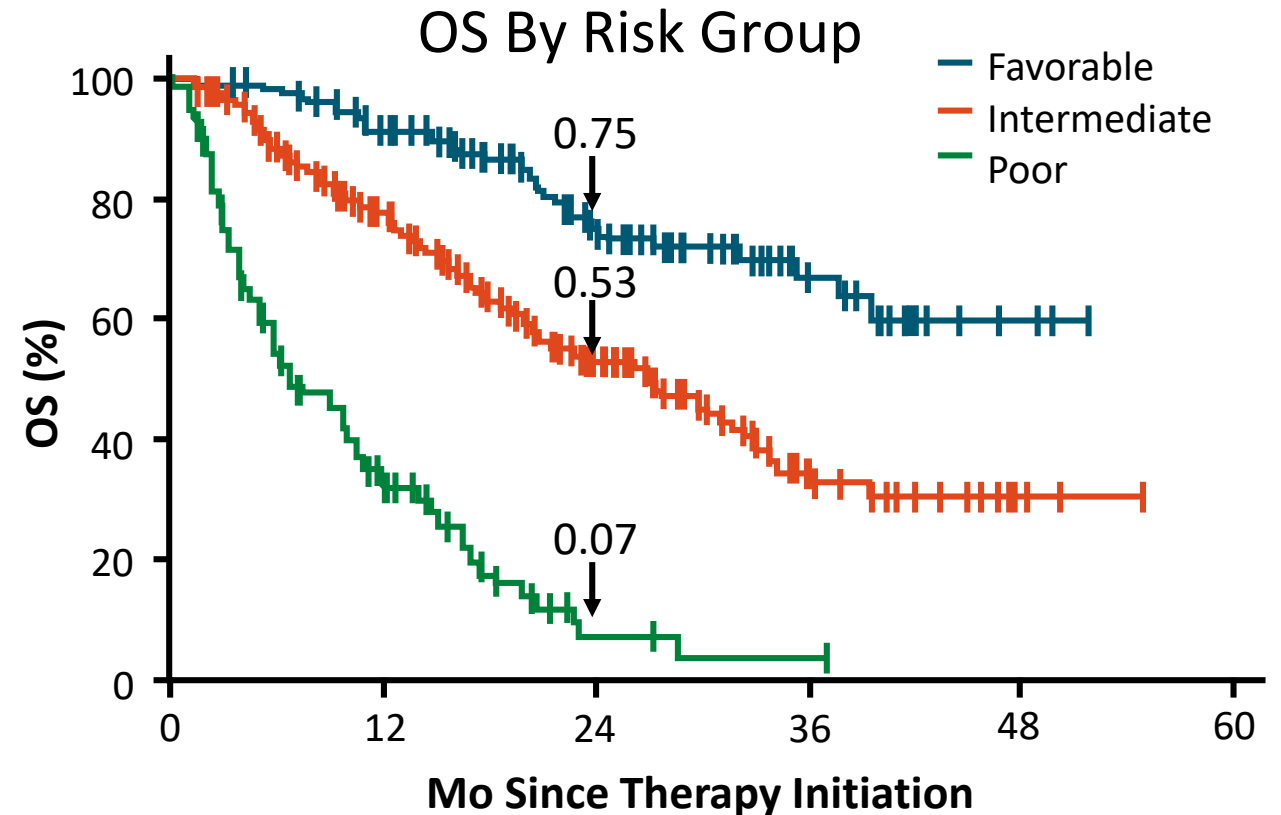


Rôle du Risque dans le Traitement du mRCC

IMDC Criteria for Metastatic RCC

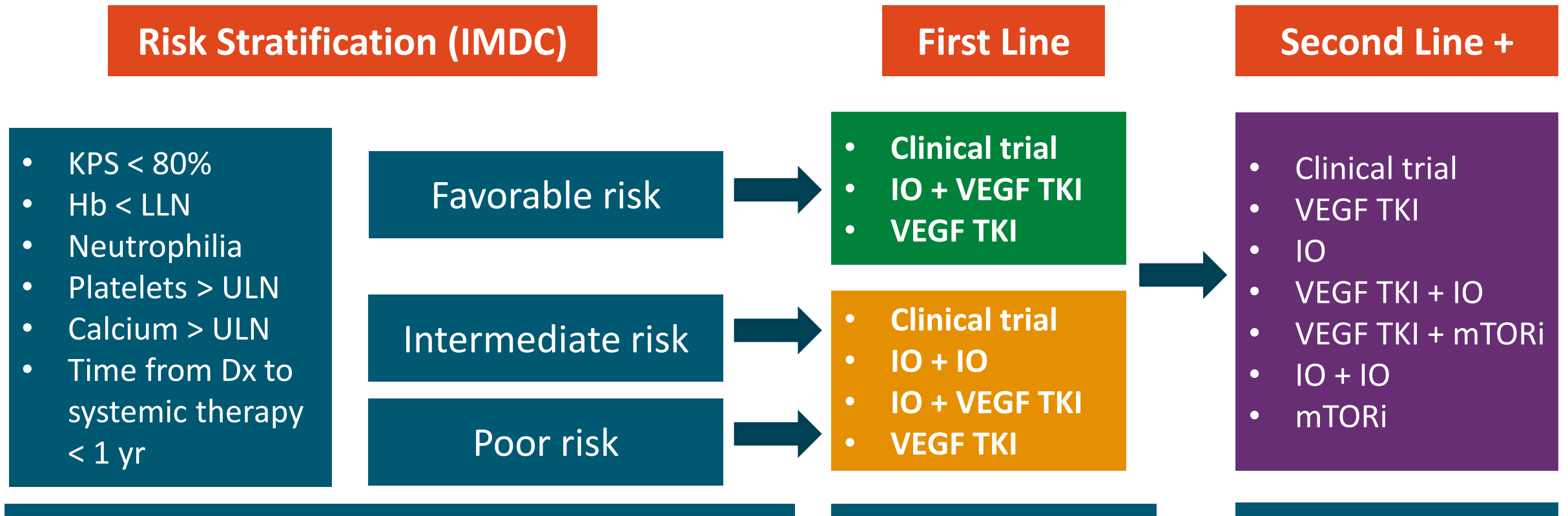
Karnofsky performance score <80%
Time from initial diagnosis to targeted Tx <1 yr
Hemoglobin <LLN
Calcium >10mg/dL
Platelet count >ULN
Neutrophil count >ULN

- Favorable: 0 risk factors
- Intermediate: 1-2 risk factors
- Poor: 3+ risk factors



	No. of Events/No. at Risk	12 Mo	24 Mo	36 Mo	48 Mo	60 Mo
Favorable	11/133	16/110	4/62	2/22	0/3	
Intermediate	61/301	50/182	17/82	2/18	0/3	
Poor	94/152	19/36	1/3	0/1	0/0	

Advanced Renal Cell Carcinoma: Current Therapeutic Landscape



Courtesy of Jaime R. Merchan, MD.

Adapted from: Motzer RJ, Jonasch E, Agarwal, N, et al. NCCN Clinical Practice Guidelines in Oncology: Kidney Cancer, Version 4.2022. Accessed May 31, 2022. To view the most recent version, visit [NCCN.org](https://www.nccn.org).

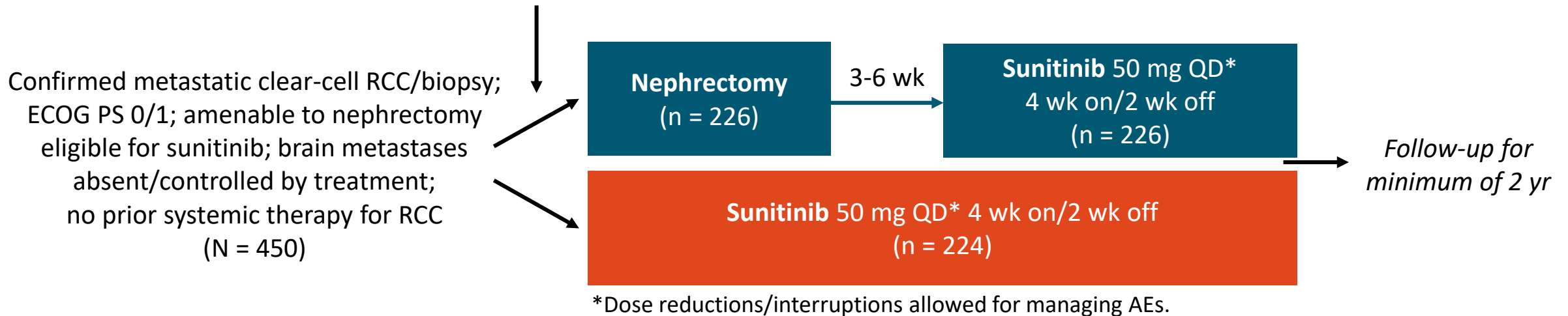


Slide credit: clinicaloptions.com

CARMENA: Prospective, Multicenter, Open-Label, Randomized Phase III Noninferiority Study

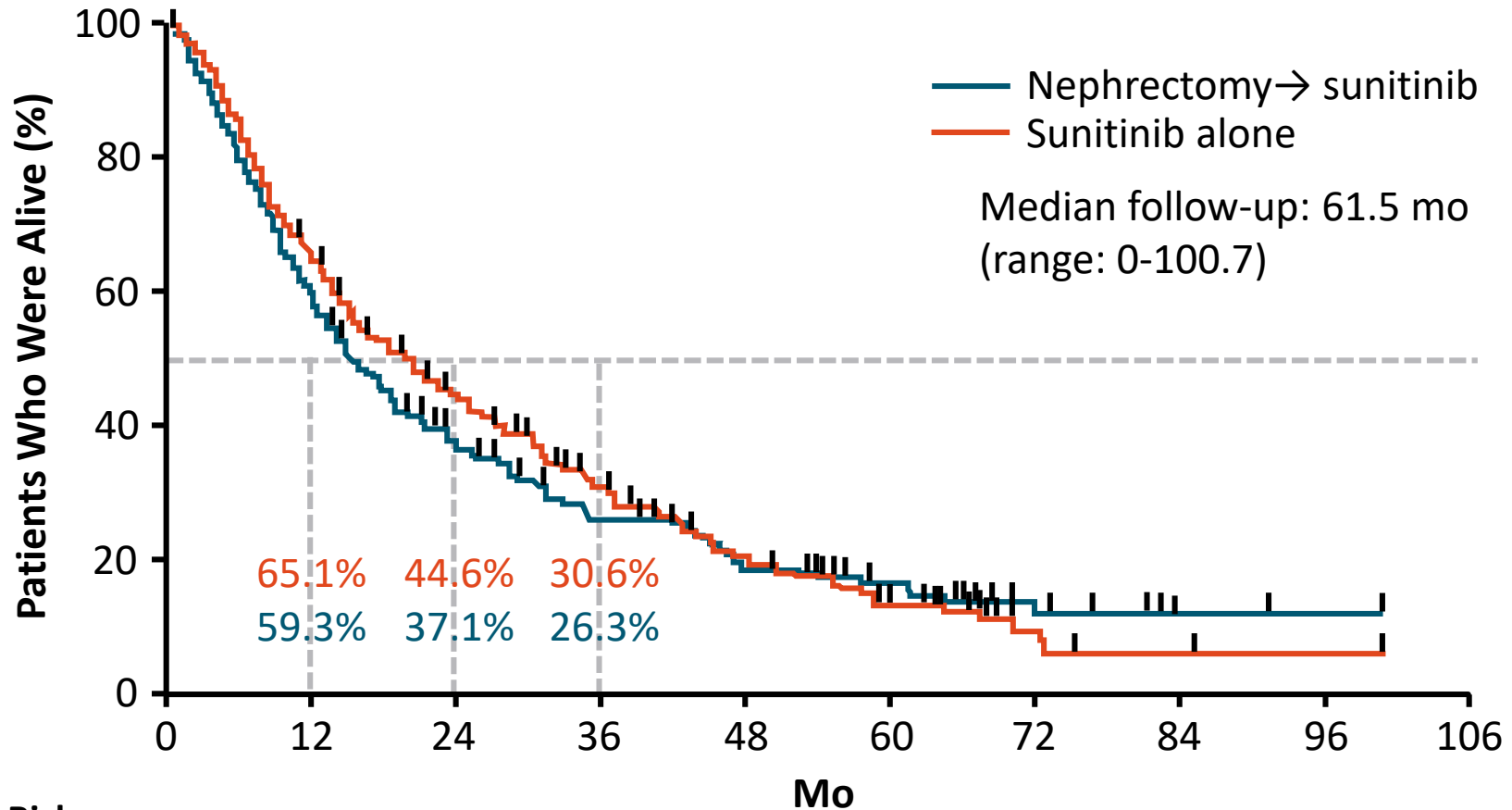
- Multicenter, randomized, open-label noninferiority phase III trial

Stratified by center, MSKCC risk group (intermediate vs high risk)



- Primary endpoint: OS
- Secondary endpoints: PFS, ORR (RECIST v1.1), clinical benefit, safety

CARMENA: Overall Survival (ITT)

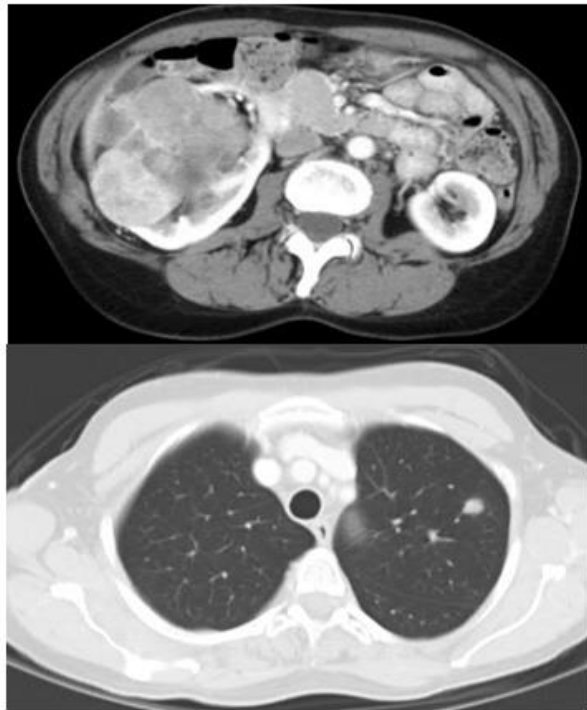


Patients at Risk, n		0	12	24	36	48	60	72	84	96	106
Nephrectomy → sunitinib	226	132	74	47	30	18	8	2	1	0	
Sunitinib alone	224	144	90	51	29	16	5	2	1	0	

Considerations for Nephrectomy

PS 0

Minimal extrarenal disease



Nephrectomy makes sense

PS 0/1

Intermediate risk

Moderate extrarenal disease



Nephrectomy may or may not be indicated

Poor PS, poor risk

Large primary

Extensive extrarenal disease



Nephrectomy does not make sense

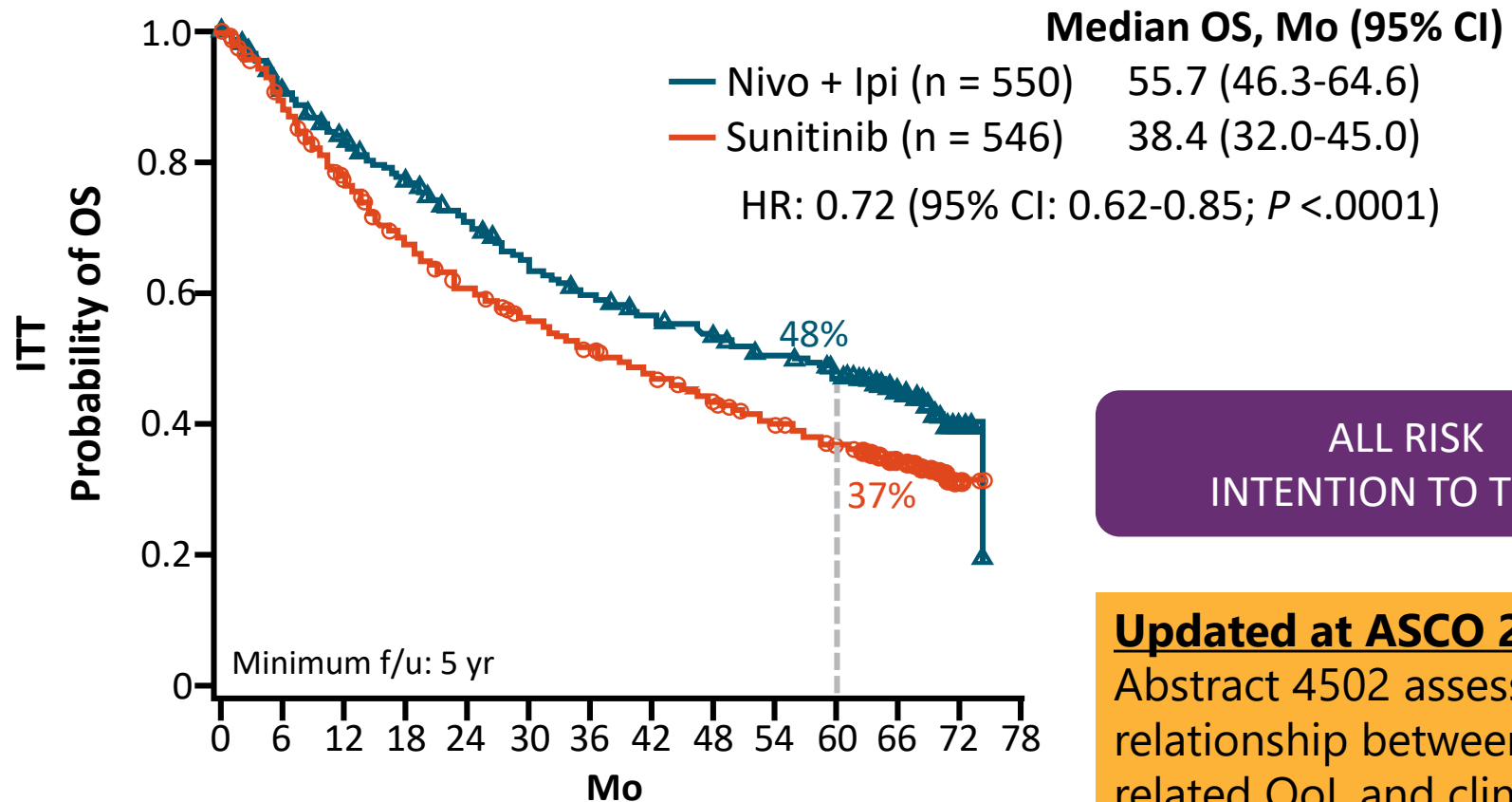


PRINCIPLES OF SYSTEMIC THERAPY FOR RELAPSE OR STAGE IV DISEASE

FIRST-LINE THERAPY FOR CLEAR CELL HISTOLOGY			
Risk	Preferred Regimens	Other Recommended Regimens	Useful in Certain Circumstances
Favorable ^a	<ul style="list-style-type: none"> • Axitinib + pembrolizumab^b (category 1) • Cabozantinib + nivolumab^b (category 1) • Lenvatinib + pembrolizumab^b (category 1) 	<ul style="list-style-type: none"> • Axitinib + avelumab^b • Cabozantinib (category 2B) • Ipilimumab + nivolumab^b • Pazopanib • Sunitinib 	<ul style="list-style-type: none"> • Active surveillance^c • Axitinib (category 2B) • High-dose IL-2^d (category 2B)
Poor/ intermediate ^a	<ul style="list-style-type: none"> • Axitinib + pembrolizumab^b (category 1) • Cabozantinib + nivolumab^b (category 1) • Ipilimumab + nivolumab^b (category 1) • Lenvatinib + pembrolizumab^b (category 1) • Cabozantinib 	<ul style="list-style-type: none"> • Axitinib + avelumab^b • Pazopanib • Sunitinib 	<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • Cabozantinib (category 1) • Lenvatinib + everolimus (category 1) • Nivolumab^b (category 1) 	<ul style="list-style-type: none"> • Axitinib (category 1) • Axitinib + pembrolizumab^b • Cabozantinib + nivolumab^b • Ipilimumab + nivolumab^b • Lenvatinib + pembrolizumab^b • Pazopanib • Sunitinib • Tivozanib^g • Axitinib + avelumab^b (category 3) 	<ul style="list-style-type: none"> • Everolimus • Bevacizumab^f (category 2B) • High-dose IL-2 for selected patients^d (category 2B) • Sorafenib (category 3) • Temsirolimus^e (category 2B)

CheckMate 214: Nivolumab + Ipilimumab vs Sunitinib for Untreated Advanced RCC

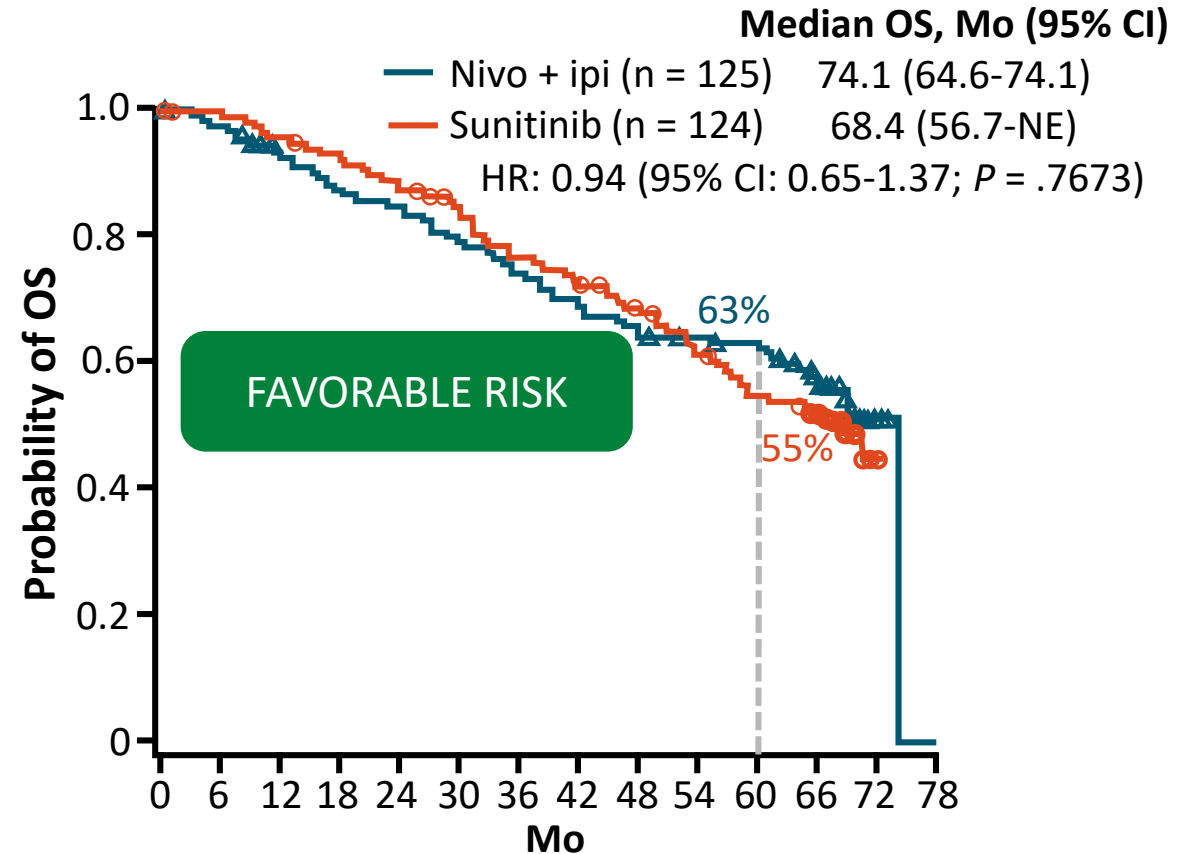
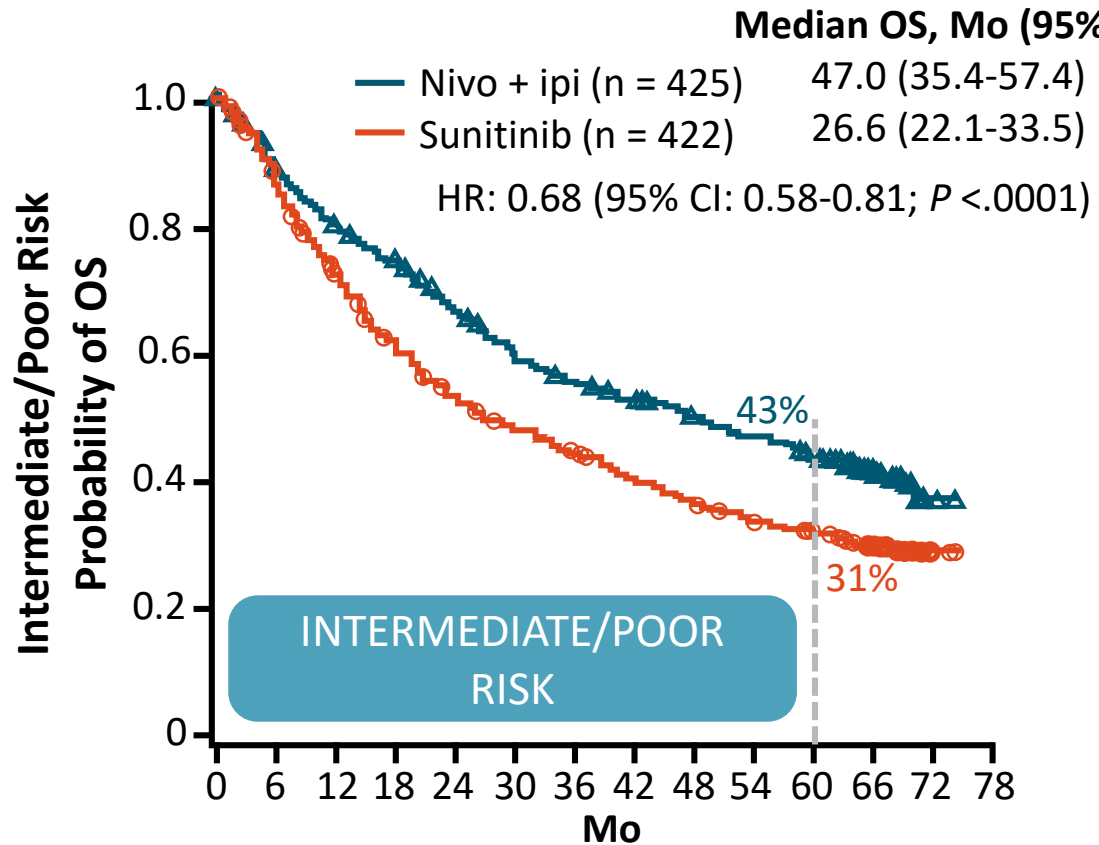


ALL RISK
INTENTION TO TREAT

Updated at ASCO 2022:
Abstract 4502 assessing relationship between health-related QoL and clinical outcomes

Patients at Risk, n		0	6	12	18	24	30	36	42	48	54	60	66	72	78
Nivo + Ipi	550	493	444	411	372	337	309	291	274	256	236	138	5	0	
Sunitinib	546	472	405	347	310	281	257	234	213	192	171	108	6	0	

CheckMate 214: Nivolumab + Ipilimumab vs Sunitinib for Untreated Advanced RCC



Patients at Risk, n

Nivo + ipi	425	372	332	306	270	241	220	207	196	181	163	79	2	0
Sunitinib	422	353	291	237	206	184	169	151	137	125	112	58	3	0

Patients at Risk, n

Nivo + ipi	125	121	112	105	102	96	89	84	78	75	73	59	3	0
Sunitinib	124	119	114	110	104	97	88	83	76	67	59	50	3	0

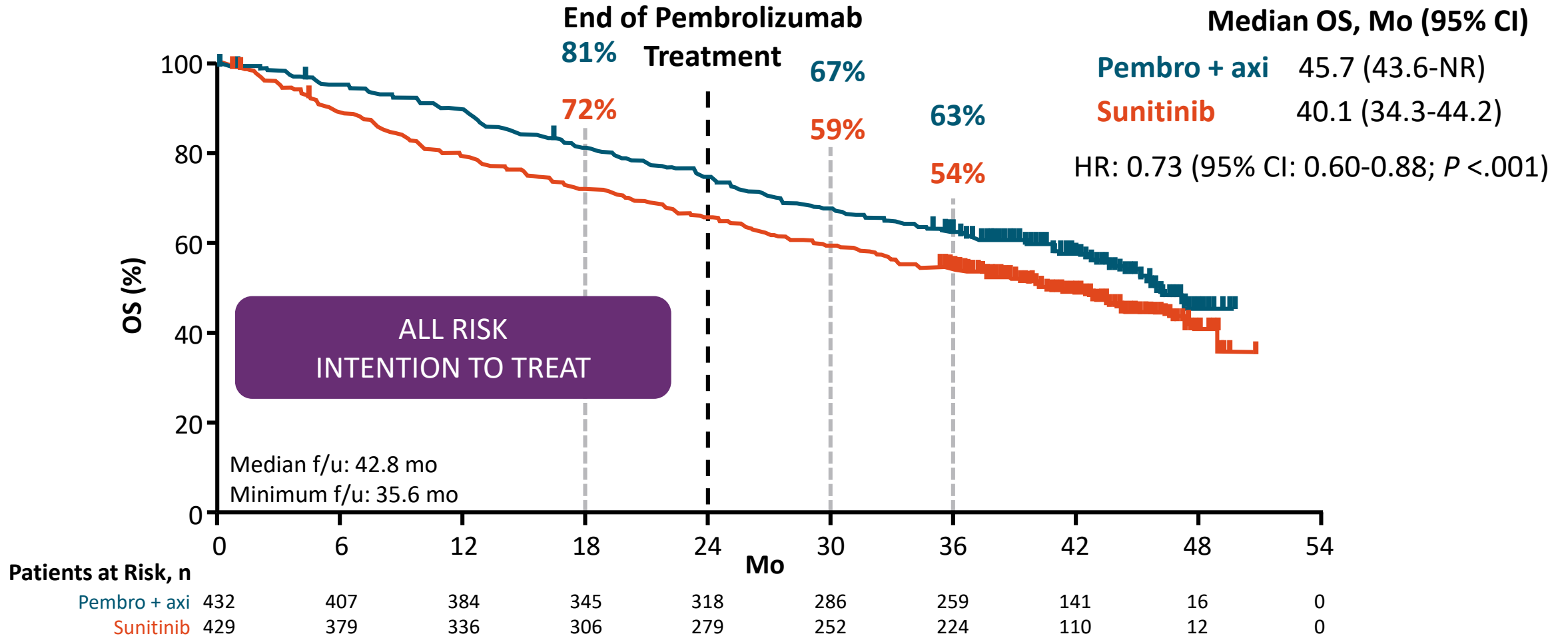
Minimum f/u: 5 yr

Motzer. ESMO 2021. Abstr 661P.

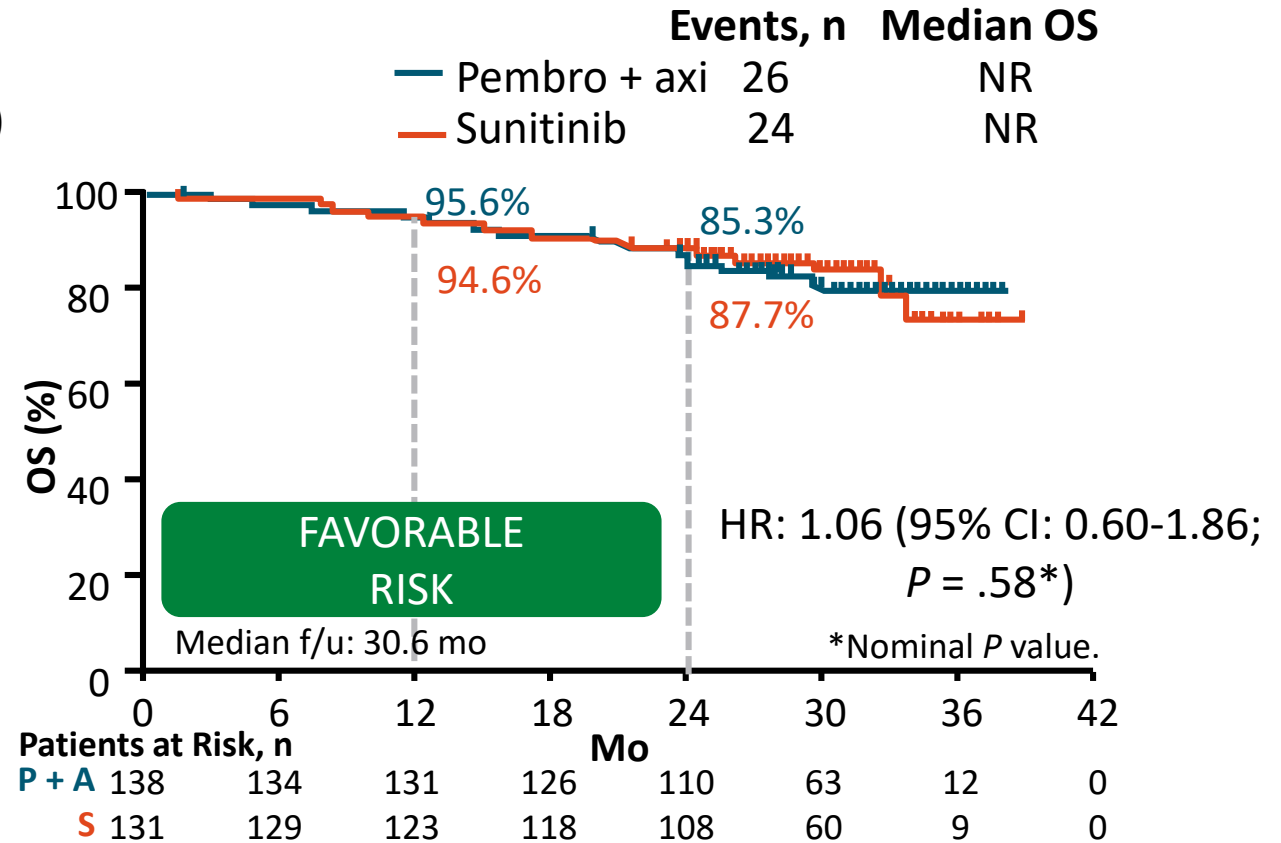
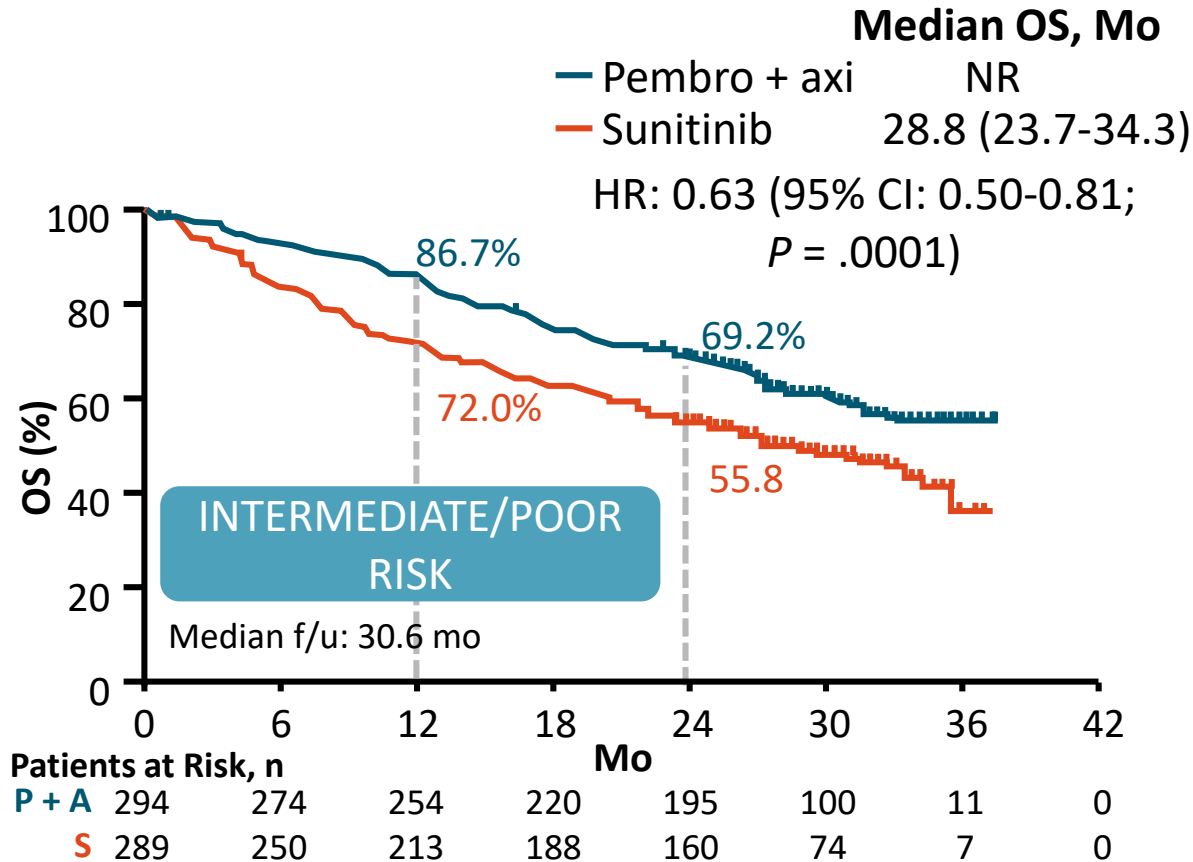


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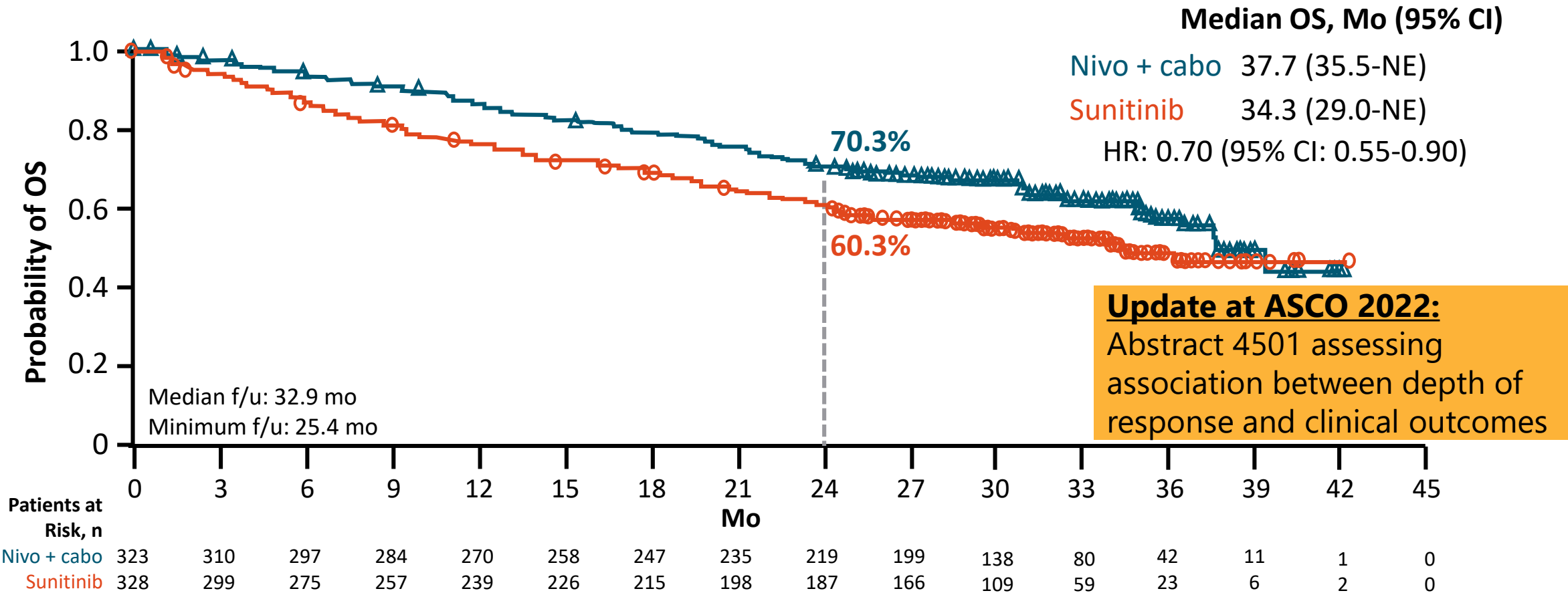
KEYNOTE-426: First-line Pembrolizumab + Axitinib vs Sunitinib in Advanced or Metastatic RCC



KEYNOTE-426: First-line Pembrolizumab + Axitinib vs Sunitinib in Advanced or Metastatic RCC



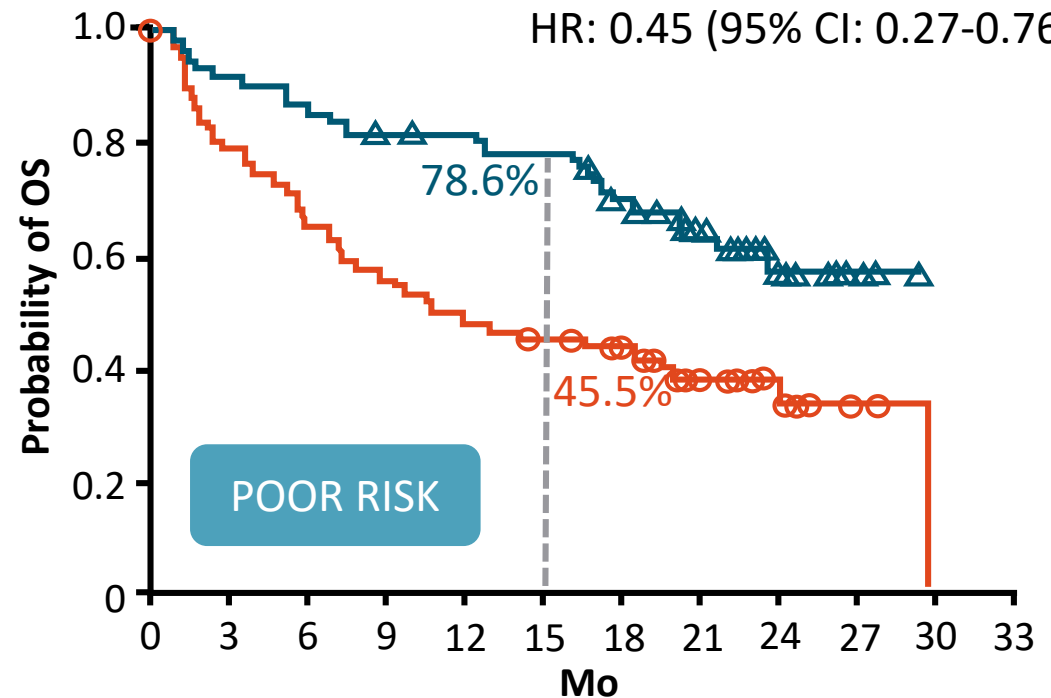
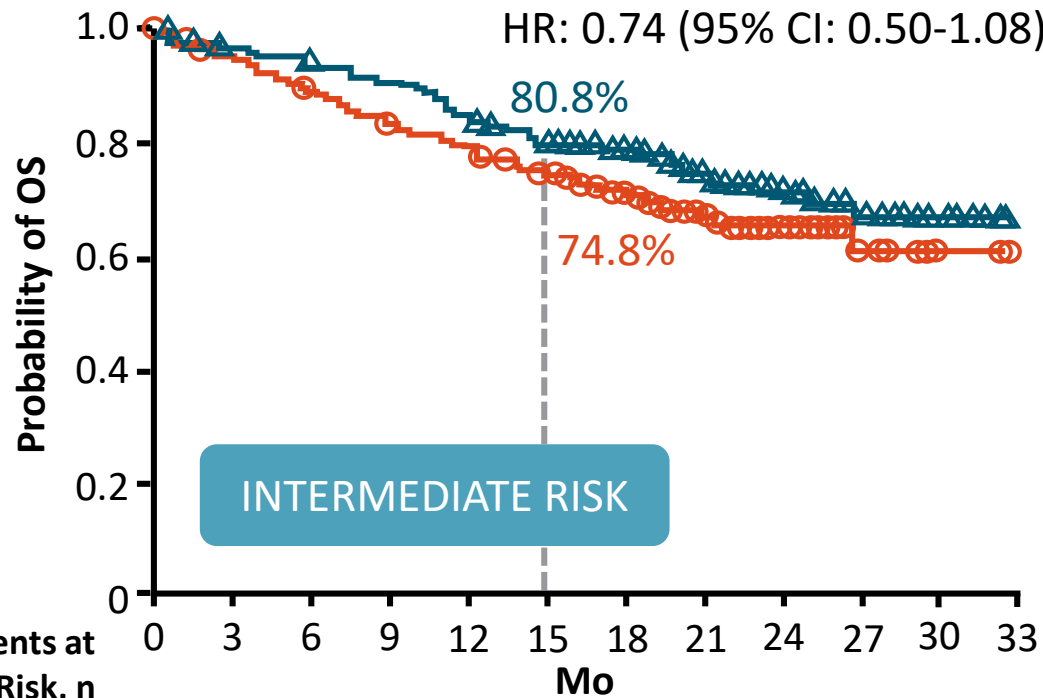
CheckMate 9ER: First-line Nivolumab + Cabozantinib vs Sunitinib in Advanced or Metastatic RCC



CheckMate 9ER: First-line Nivolumab + Cabozantinib vs Sunitinib in Advanced or Metastatic RCC

Median OS, Mo (95% CI)
 Nivo + cabo NR (NE)
 Sunitinib NR (NE)
 HR: 0.74 (95% CI: 0.50-1.08)

Median OS, Mo (95% CI)
 Nivo + cabo NR (21.4-NE)
 Sunitinib 11.2 (6.8-19.8)
 HR: 0.45 (95% CI: 0.27-0.76)



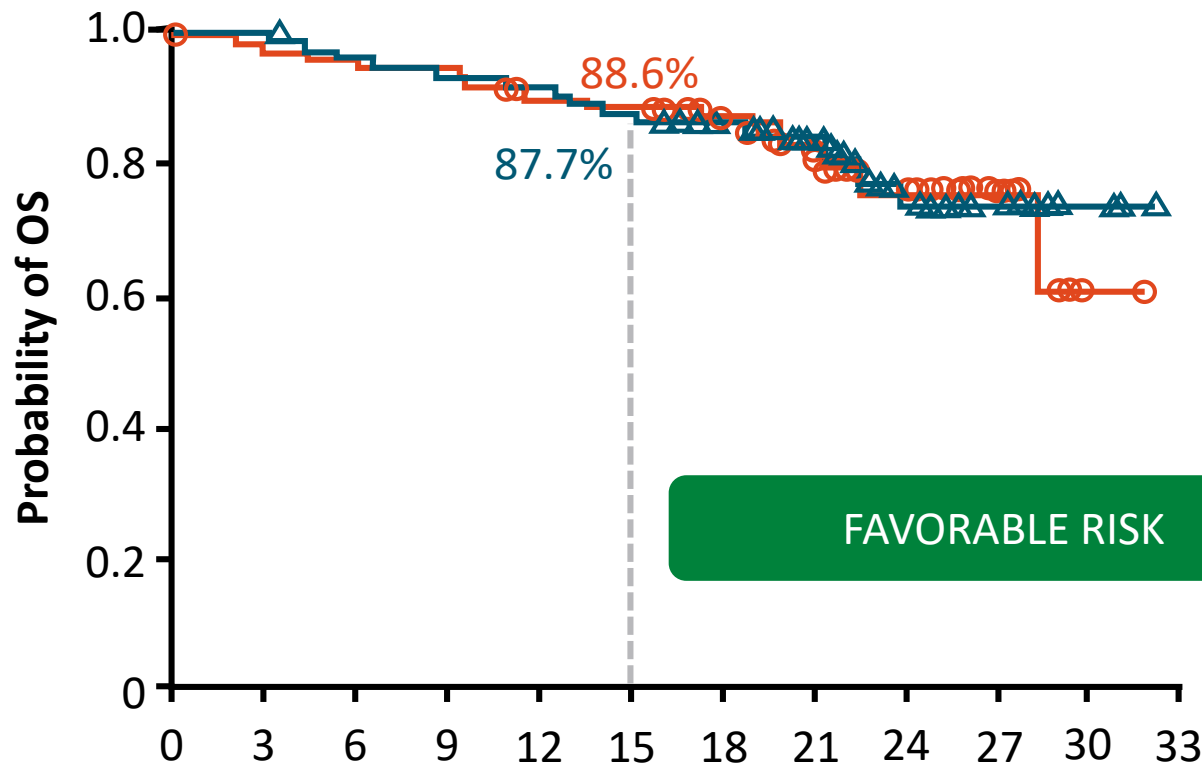
	0	3	6	9	12	15	18	21	24	27	30	33
Nivo + cabo	188	178	173	166	154	145	126	84	49	21	7	0
Sunitinib	188	173	161	150	142	127	110	65	35	12	3	0

	0	3	6	9	12	15	18	21	24	27	30	33
Nivo + cabo	61	56	52	49	48	46	39	24	11	4	0	0
Sunitinib	68	52	43	37	32	29	25	15	7	2	0	0

Median f/u: 23.5 mo (ITT)
 Minimum f/u: 16.0 mo



CheckMate 9ER: First-line Nivolumab + Cabozantinib vs Sunitinib in Advanced or Metastatic RCC



Median OS, Mo (95% CI)

Nivo + Cabo NR (NE)

Sunitinib NR (28.4-NE)

HR: 0.94 (95% CI: 0.46-1.92)

Patients at Risk, n

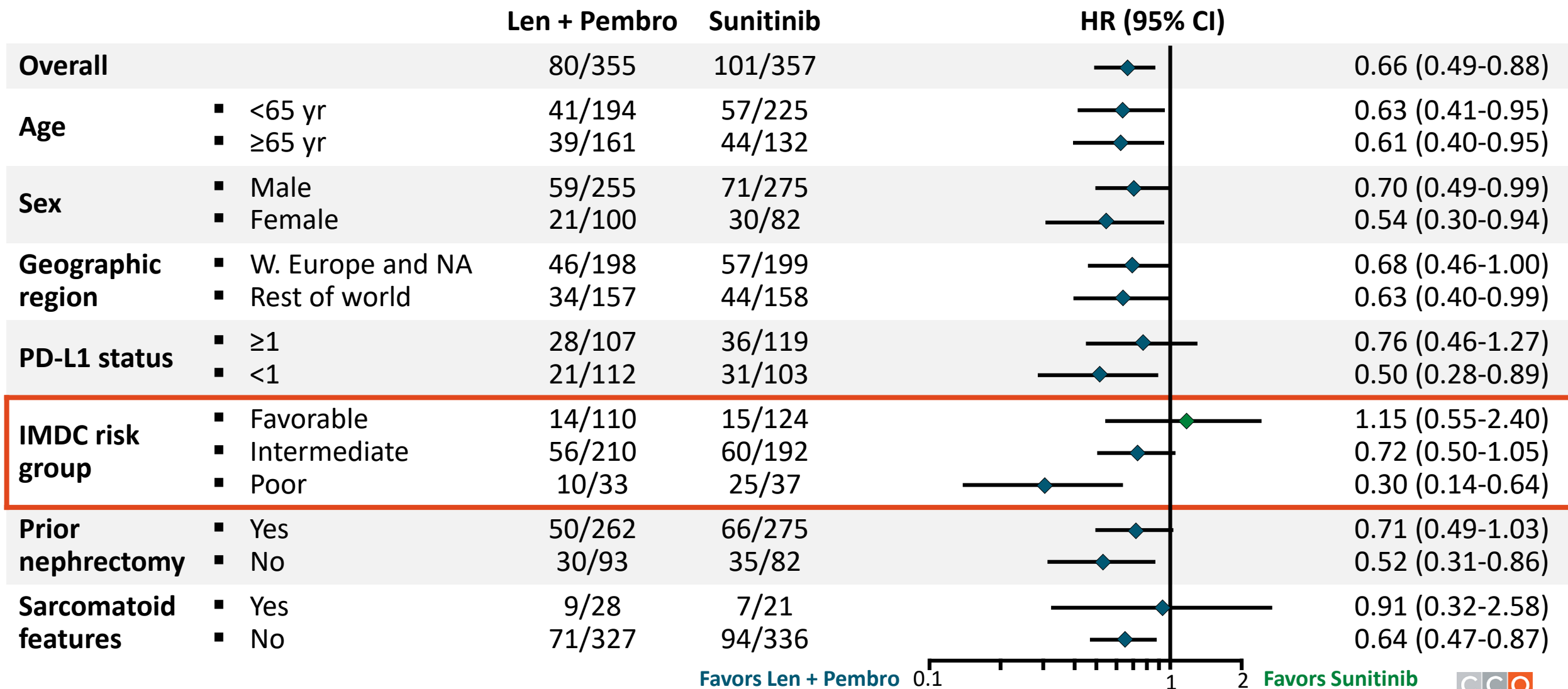
	0	3	6	9	12	15	18	21	24	27	30	33
Nivo + Cabo	74	74	70	68	67	64	55	39	24	15	3	0
Sunitinib	72	70	68	67	62	61	54	38	20	8	1	0

Median f/u: 23.5 mo (ITT)

Minimum f/u: 16.0 mo

CLEAR: OS in Patient Subgroups

Events/Participants



SOME TAKE-AWAY MESSAGES

- ✓ Malgré des taux de survie moindre comparés à ceux publiés dans la littérature, les résultats accompagnant des traitements basés sur l'immunothérapie confirment le bénéfice en SG dans le ccRCC évolué.
- ✓ Pas de différence significative entre les combinaisons IO/IO vs IO/TKI en 1L dans les groupes à risque intermédiaire / haut risque (la décision dépendra du volume tumoral, la toxicité attendue,, le cou et l'accès)
- ✓ Pour le groupe de bon pronostic,- surveillance, monothérapie sont des options raisonnables en pratique courante

Merci pour votre attention

