

The Clinical Implications of Key Recent Data Sets in Oncology: A Daylong Multitumor Educational Symposium in Partnership with Florida Cancer Specialists

A CME/MOC- and NCPD-Accredited Event

**Saturday, October 22, 2022
7:30 AM – 5:30 PM ET**

Agenda

Module 1 — Lung Cancer: *Drs Langer and Lovly*

Module 2 — Chronic Lymphocytic Leukemia and Lymphomas:
Drs LaCasce and Smith

Module 3 — Prostate and Bladder Cancers: *Drs Morgans and Yu*

Module 4 — Renal Cell Carcinoma: *Prof Powles*

Module 5 — Multiple Myeloma: *Dr Usmani*

Module 6 — Hepatobiliary Cancers: *Prof Abou-Alfa*

Agenda

Module 7 — Breast Cancer: *Drs Goetz and Krop*

Module 8 — Endometrial Cancer: *Dr Westin*

Module 9 — Ovarian Cancer and PARP Inhibitors: *Dr O'Malley*

Module 10 — Gastrointestinal Cancers: *Drs Messersmith and Strickler*

Module 11 — Melanoma: *Prof Long*

Renal Cell Carcinoma Faculty



Thomas Powles, MBBS, MRCP, MD
Professor of Genitourinary Oncology
Barts Cancer Institute
Director of Barts Cancer Centre
Queen Mary University of London
London, United Kingdom

Renal Cell Carcinoma Agenda

MODULE 1: Management of High-Risk Renal Cell Carcinoma (RCC) in the Adjuvant Setting

MODULE 2: Optimal First-Line Therapy for Patients with Metastatic RCC

MODULE 3: Treatment Approaches for Relapsed/Refractory Metastatic RCC

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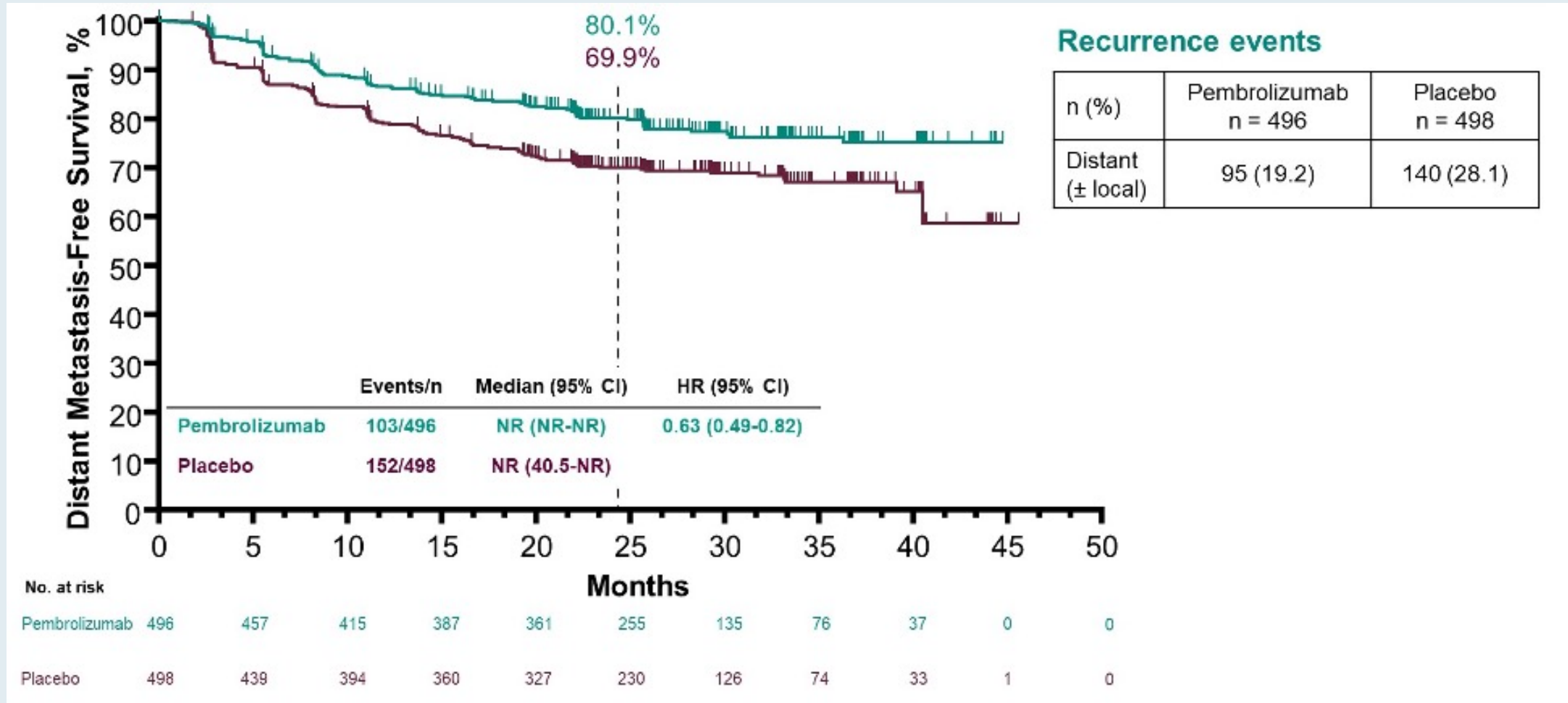
Adjuvant pembrolizumab for postnephrectomy renal cell carcinoma: Expanded efficacy analyses from KEYNOTE-564

T. K. Choueiri¹; P. Tomczak²; S. H. Park³; B. Venugopal⁴; T. Ferguson⁵; S. N. Symeonides⁶; J. Hajek⁷; Y.-H. Chang⁸; J.-L. Lee⁹; N. Sarwar¹⁰; A. Thiery-Vuillemin¹¹; M. Gross-Goupil¹²; M. Mahave¹³; N. B. Haas¹⁴; P. Sawrycki¹⁵; H. Gurney¹⁶; L. Xu¹⁷; K. Imai¹⁷; J. Burgents¹⁷; T. Powles¹⁸

¹Dana-Farber Cancer Institute and Harvard Medical School, Boston, MA, USA; ²Poznan University of Medical Sciences, Poznan, Poland; ³Sungkyunkwan University, Samsung Medical Center, Seoul, South Korea; ⁴Beatson West of Scotland Cancer Centre and University of Glasgow, Glasgow, United Kingdom; ⁵Fiona Stanley Hospital, Perth, WA, Australia; ⁶Edinburgh Cancer Centre and University of Edinburgh, Edinburgh, United Kingdom; ⁷Fakultni Nemocnice Ostrava, Ostrava, Czech Republic; ⁸Taipei Veterans General Hospital, Taipei, Taiwan; ⁹Asan Medical Center, University of Ulsan College of Medicine, Seoul, South Korea; ¹⁰Imperial College Healthcare NHS Trust, London, United Kingdom; ¹¹University Hospital Jean Minjoz, Besançon, France; ¹²University Hospital of Bordeaux, Bordeaux, France; ¹³Fundacion Arturo Lopez Perez FALP, Santiago, Chile; ¹⁴Abramson Cancer Center, Penn Medicine, Philadelphia, PA, USA; ¹⁵Provincial Hospital in Torun, Torun, Poland; ¹⁶Macquarie University, Sydney, NSW, Australia; ¹⁷Merck & Co., Inc., Rahway, NJ, USA; ¹⁸Barts Health NHS Trust and the Royal Free NHS Foundation Trust, Barts Cancer Institute, and Queen Mary University of London, London, United Kingdom

ASCO 2022;Abstract 4512

KEYNOTE-564: Pembrolizumab as Adjuvant Therapy for Patients with Renal Cell Carcinoma – Disease-Free Survival



Pembrolizumab as Post Nephrectomy Adjuvant Therapy for Patients with Renal Cell Carcinoma: Results from 30-month Follow-up of KEYNOTE-564

Toni K. Choueiri¹; Piotr Tomczak²; Se Hoon Park³; Balaji Venugopal⁴; Thomas Ferguson⁵; Stefan Symeonides⁶; Jaroslav Hajek⁷; Yen-Hwa Chang⁸; Jae Lyun Lee⁹; Naveed Sarwar¹⁰; Antoine Thiery-Vuillemin¹¹; Marine Gross-Goupil¹²; Mauricio Mahave¹³; Naomi Haas¹⁴; Piotr Sawrycki¹⁵; Lei Xu¹⁶; Joseph E. Bургents¹⁶; Kentaro Imai¹⁶; Jaqueline Willemann-Rogerio¹⁶; David I. Quinn¹⁷; Thomas Powles¹⁸, on behalf of the KEYNOTE-564 Investigators

¹Dana-Farber Cancer Institute, Boston, MA, USA; ²Poznań University of Medical Sciences, Poznań, Poland; ³Sungkyunkwan University, Samsung Medical Center, Seoul, South Korea; ⁴Beatson West of Scotland Cancer Centre, Glasgow, U.K. and University of Glasgow, Glasgow, UK; ⁵Fiona Stanley Hospital, Perth, Australia; ⁶Edinburgh Cancer Centre and University of Edinburgh, UK; ⁷Fakultni Nemocnice Ostrava, Ostrava, Czech Republic; ⁸Taipei Veterans General Hospital, Taipei, Taiwan; ⁹Asan Medical Center, University of Ulsan College of Medicine, Seoul, South Korea; ¹⁰Imperial College Healthcare NHS Trust, London, UK; ¹¹University Hospital Jean Minjoz, Besançon, France; ¹²University Hospital Bordeaux-Hôpital Saint-André, Bordeaux, France; ¹³Fundacion Arturo Lopez Perez FALP, Santiago, Chile; ¹⁴Abramson Cancer Center, Philadelphia, PA, USA; ¹⁵Wojewodzki Szpital Zespólny im. L. Rydygiera w Toruniu, Torun, Poland; ¹⁶Merck & Co., Inc., Kenilworth, NJ, USA; ¹⁷USC Norris Comprehensive Cancer Center, Los Angeles, CA, USA; ¹⁸Royal Free Hospital NHS Trust, University College London, London, UK.

Genitourinary Cancers Symposium 2022;Abstract 290.

KEYNOTE-564: Pembrolizumab as Adjuvant Therapy for Patients with RCC – Safety Summary

Participants with ≥1 AE, n (%)	Primary Analysis (24.1 mo)		Updated Analysis (30.1 mo)	
	Pembro Arm (N = 488)	Placebo Arm (N = 496)	Pembro Arm (N = 488)	Placebo Arm (N = 496)
All-cause AEs	470 (96.3%)	452 (91.1%)	470 (96.3%)	453 (91.3%)
Grade 3–5	158 (32.4%)	88 (17.7%)	157 (32.2%)	88 (17.7%)
Led to treatment discontinuation	101 (20.7%)	10 (2.0%)	103 (21.1%)	11 (2.2%)
Led to death	2 (0.4%)	1 (0.2%)	2 (0.4%)	1 (0.2%)
Serious all-cause AEs^a	100 (20.5%)	56 (11.3%)	101 (20.7%)	57 (11.5%)
Led to treatment discontinuation	49 (10.0%)	5 (1.0%)	49 (10.0%)	5 (1.0%)
Treatment-related AEs	386 (79.1%)	265 (53.4%)	386 (79.1%)	265 (53.4%)
Grade 3–4	92 (18.9%)	6 (1.2%)	91 (18.6%)	6 (1.2%)
Led to treatment discontinuation	86 (17.6%)	3 (0.6%)	89 (18.2%)	4 (0.8%)
Led to death	0	0	0	0
Immune-mediated AEs^b	169 (34.6%)	29 (5.8%)	170 (34.8%)	29 (5.8%)
Grade 3–4	42 (8.6%)	3 (0.6%)	43 (8.8%)	3 (0.6%)
High-dose (≥40 mg/day) systemic corticosteroid treatment for AEs prespecified to be immune-mediated, n (%)	36 (7.4%)	3 (0.6%)	37 (7.6%)	3 (0.6%)

^aSerious AEs were AEs that were life-threatening, required hospitalization, resulted in death or persistent/significant disability/incapacity, or were judged as serious per investigator. ^bBased on a prespecified list of terms included regardless of attribution to study treatment by investigator. No deaths due to immune-mediated AEs occurred.

As-treated population included all participants who received ≥1 dose of study treatment. Median duration (range) of treatment was 11.1 (0.0–14.3) months with pembro and 11.1 (0.0–15.4) months with placebo.

Primary analysis data cutoff date: December 14, 2020. Updated analysis data cutoff date: June 14, 2021.

AE = adverse event

***Lancet* 2022 September 9;[Online ahead of print].**

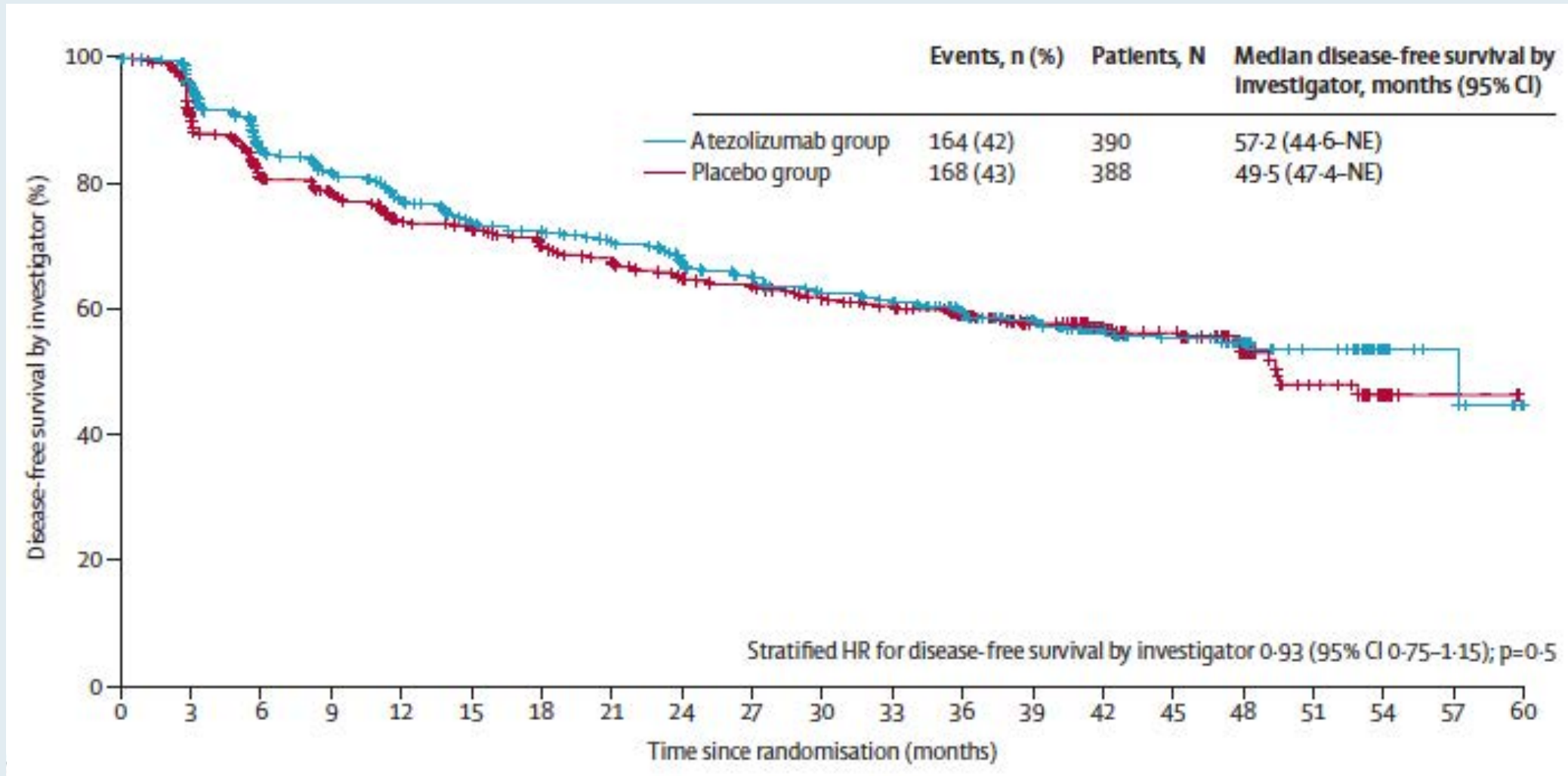
Articles

Adjuvant atezolizumab versus placebo for patients with renal cell carcinoma at increased risk of recurrence following resection (IMmotion010): a multicentre, randomised, double-blind, phase 3 trial



Sumanta Kumar Pal*, Robert Uzzo*, Jose Antonio Karam, Viraj A Master, Frede Donskov, Cristina Suarez, Laurence Albiges, Brian Rini, Yoshihiko Tomita, Ariel Galapo Kann, Giuseppe Procopio, Francesco Massari, Matthew Zibelman, Igor Antonyan, Mahrukh Huseni, Debasmitta Basu, Bo Ci, William Leung, Omara Khan, Sarita Dubey, Axel Bex

IMmotion010 Primary Endpoint: Disease-Free Survival with Atezolizumab as Adjuvant Therapy for RCC



Select Ongoing Phase III Clinical Trials of Immune Checkpoint Inhibitors as Neoadjuvant or Adjuvant Therapy for High-Risk RCC

Trial identifier	N	Study arms	Estimated primary completion date
PROSPER (NCT03055013)	766	<ul style="list-style-type: none"> • Nivolumab → nephrectomy → nivolumab • Nephrectomy 	November 2023
RAMPART (NCT03288532)	1,750	<ul style="list-style-type: none"> • Active monitoring • Durvalumab • Durvalumab + tremelimumab 	July 2024
MK-6482-022 (NCT05239728)	1,600	<ul style="list-style-type: none"> • Pembrolizumab + belzutifan • Pembrolizumab + placebo 	October 2027

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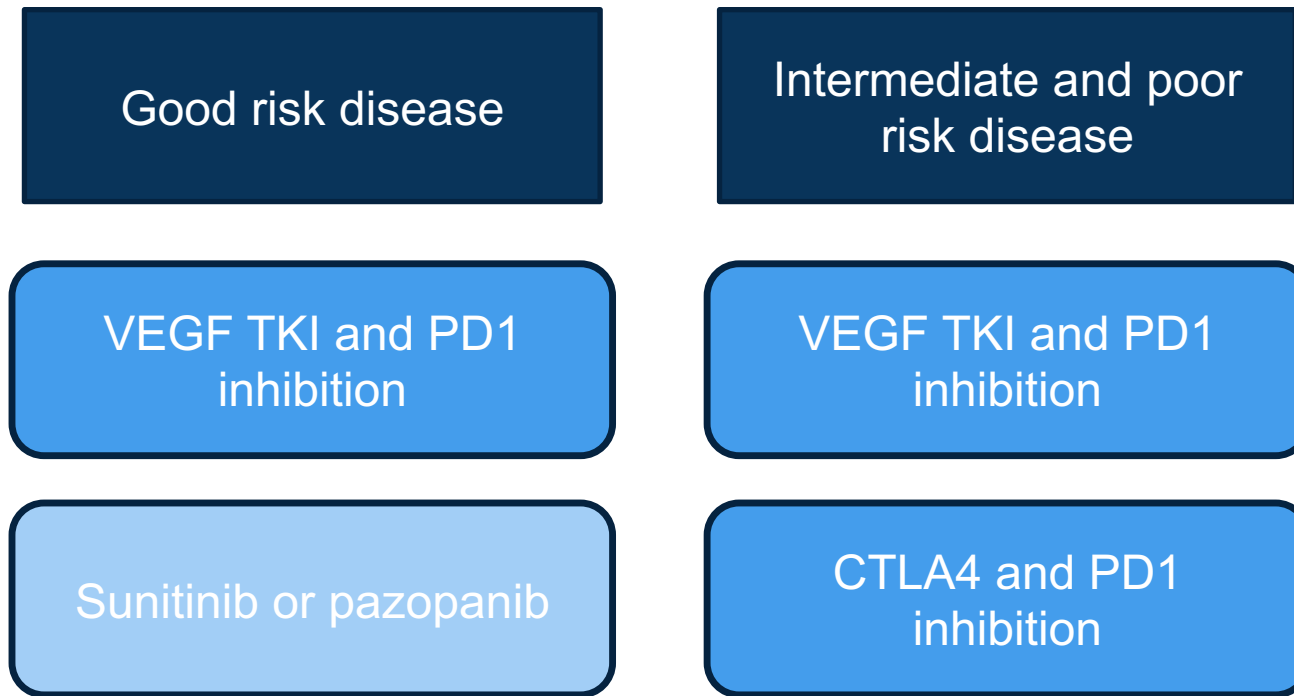
1ST LINE RENAL CANCER AND COSMIC-313.

Thomas Powles

Director of Barts Cancer Centre.



The story so far: PD-1 based therapy with VEGF TKI or CTLA-4 depending on IMDC risk group.



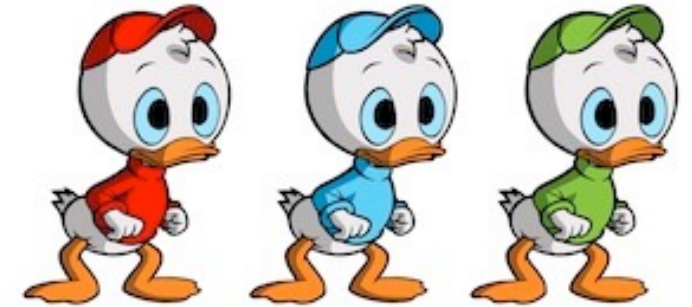
ITT data



Subset data

VEGF TKI & PD1 combinations

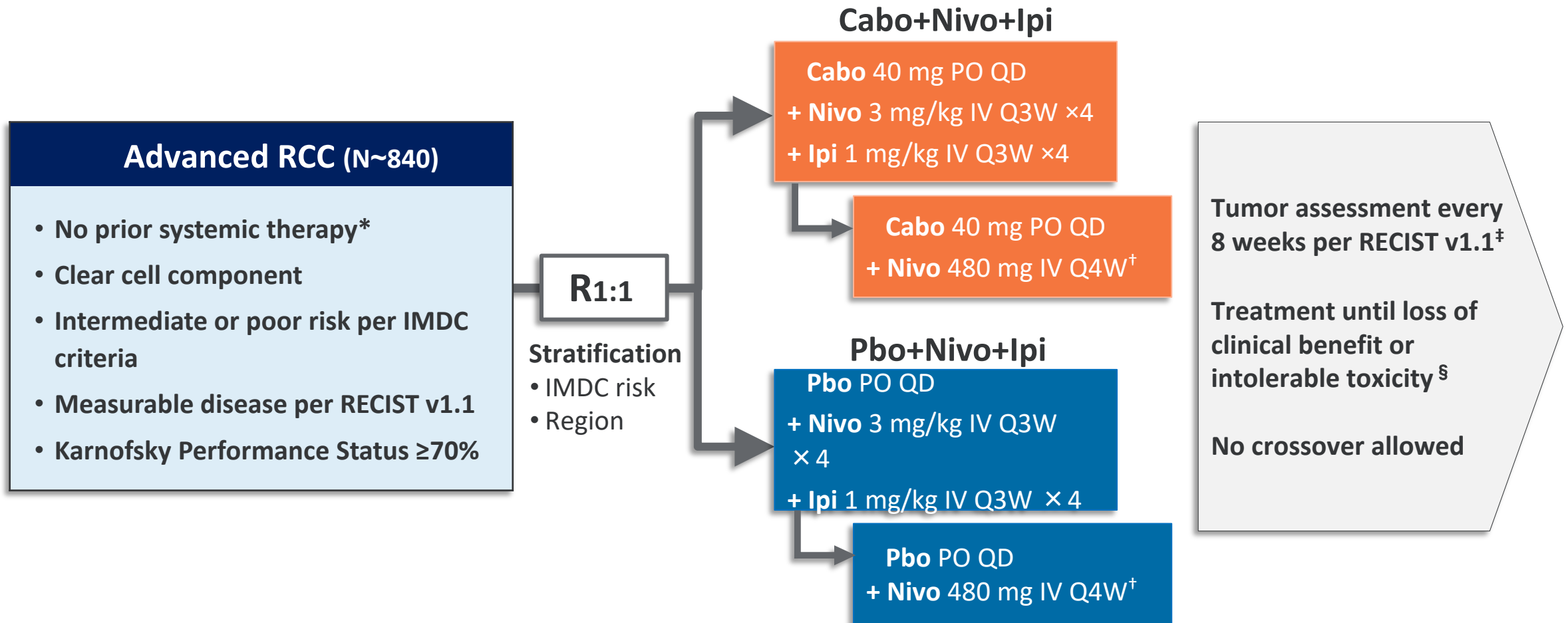
More similarities than differences



CTLA4 & PD1 combination

- Less good than VEGF/PD1 at getting initial control of disease
- Thought to be associated with more durable remissions
- Randomised data awaited

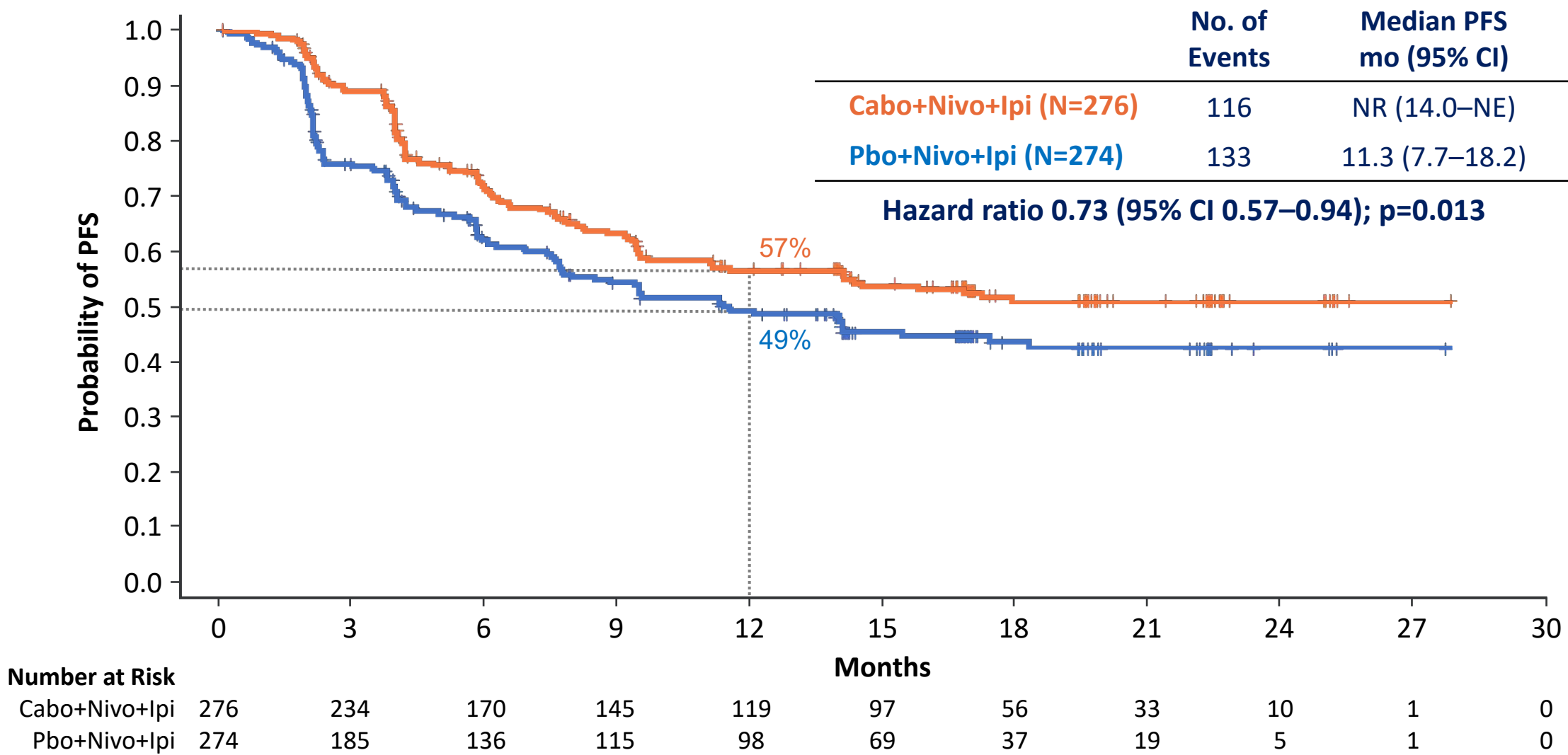
COSMIC-313 Study Design



*One prior systemic adjuvant therapy allowed for completely resected RCC and if recurrence occurred ≥6 months after the last dose of adjuvant therapy; adjuvant PD-1 or PD-L1 inhibitor in combination with a CTLA-4 inhibitor not permitted. [†]Nivolumab given for a maximum of 2 years. [‡]Tumor assessment (RECIST v1.1) at week 10, then every 8 weeks through week 50, then every 12 weeks thereafter.

[§]Discontinuation of one agent did not mandate discontinuation of all agents.

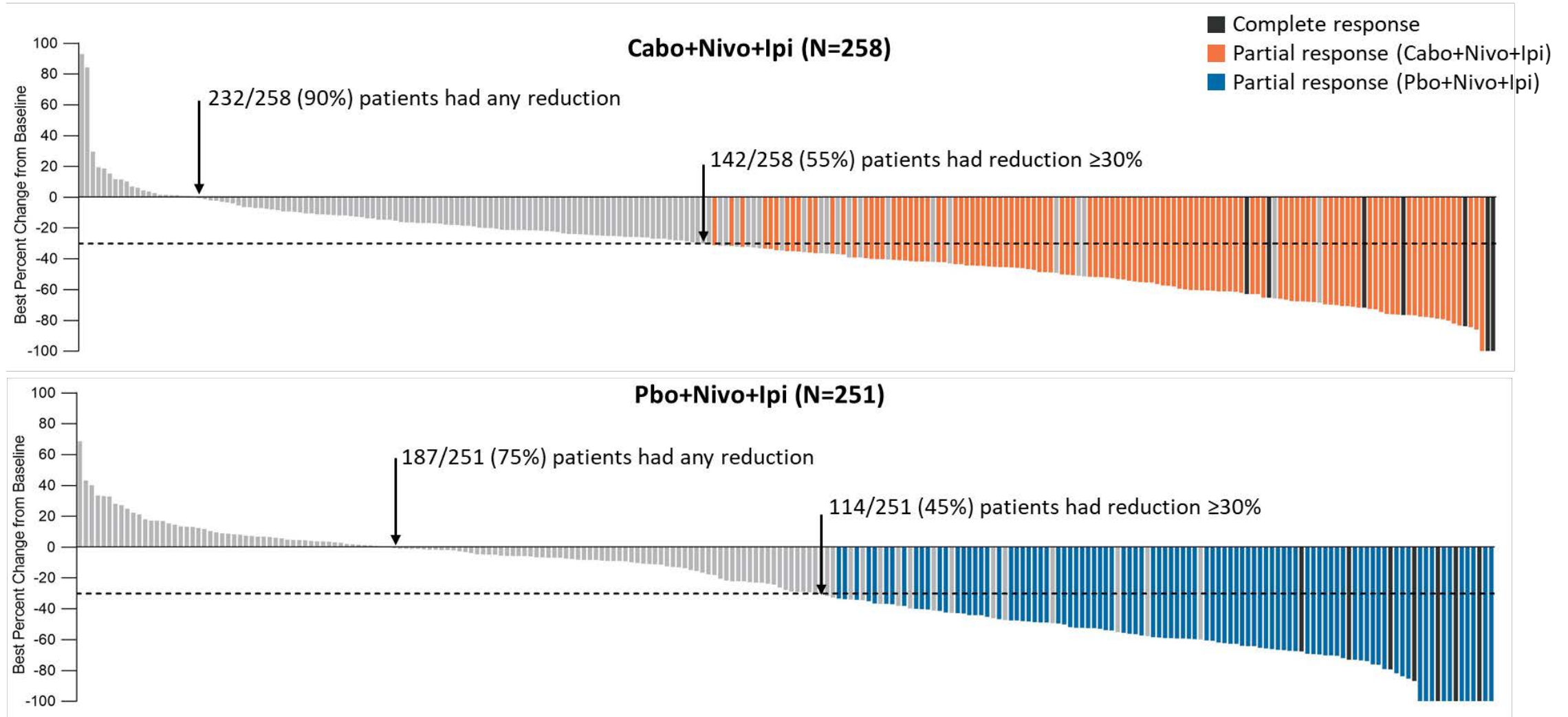
COSMIC-313: PFS Final Analysis (PITT Population)



PFS per RECIST v1.1 by BIRC.

Data cut-off: Aug 23, 2021

More shrinkage with triplet but less deep responses



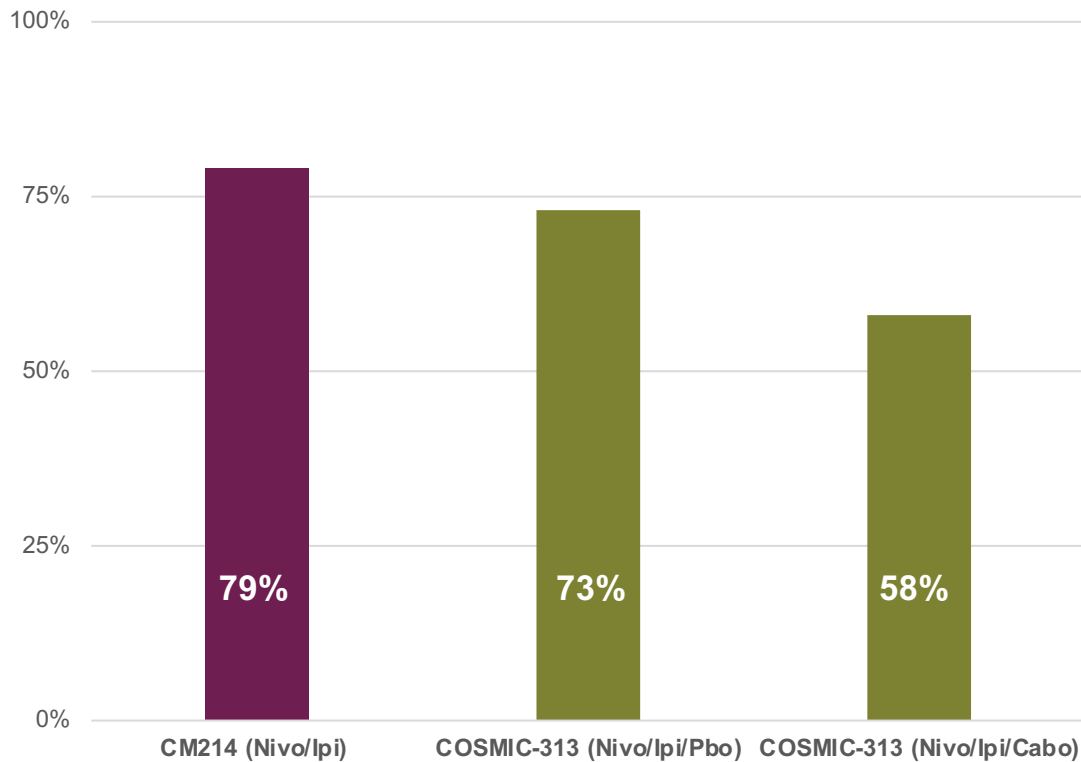
Treatment Exposure and Discontinuation (Safety Population)

	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

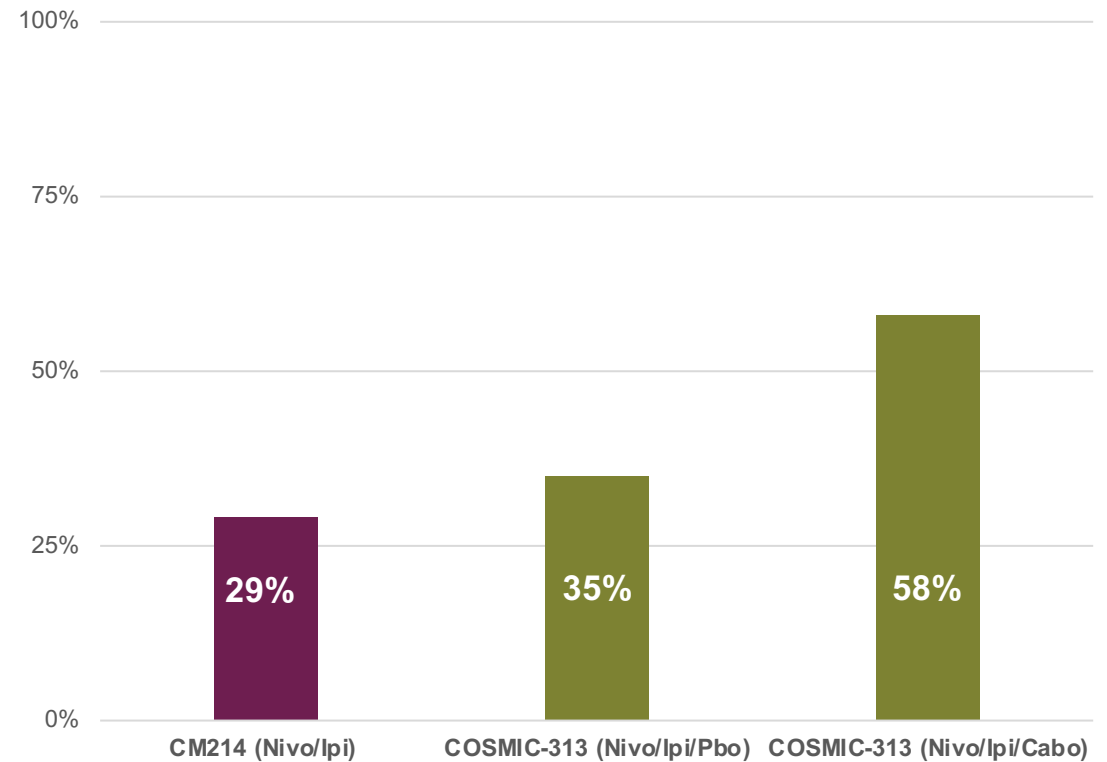
Data cut-off: Jan 31, 2022

Toxicity limited drug delivery

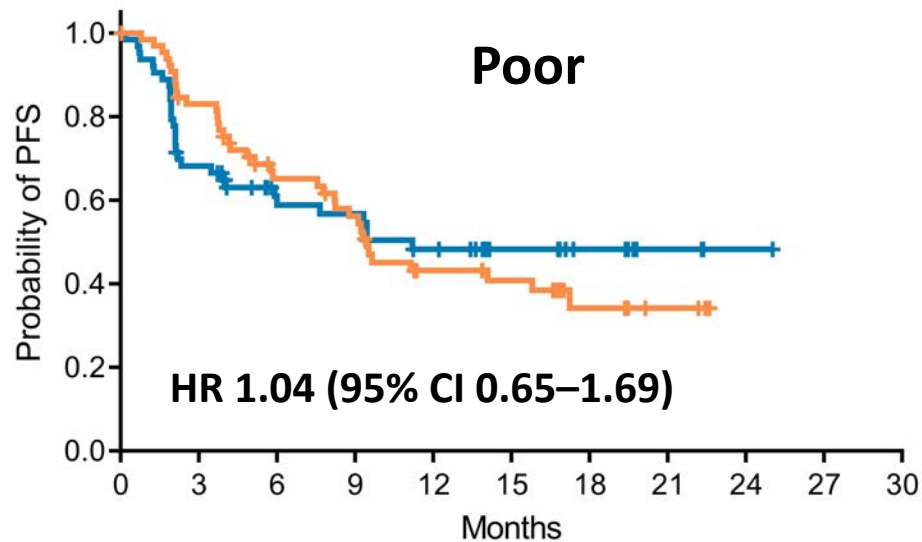
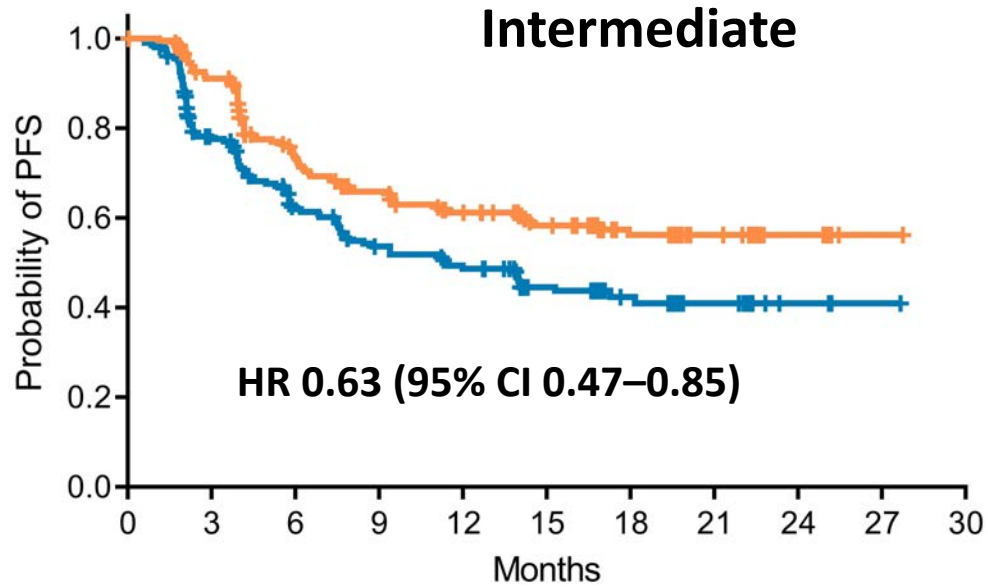
Proportion of patients receiving 4 doses of ipilimumab



Proportion of patients receiving >40 mg of prednisone or equivalent

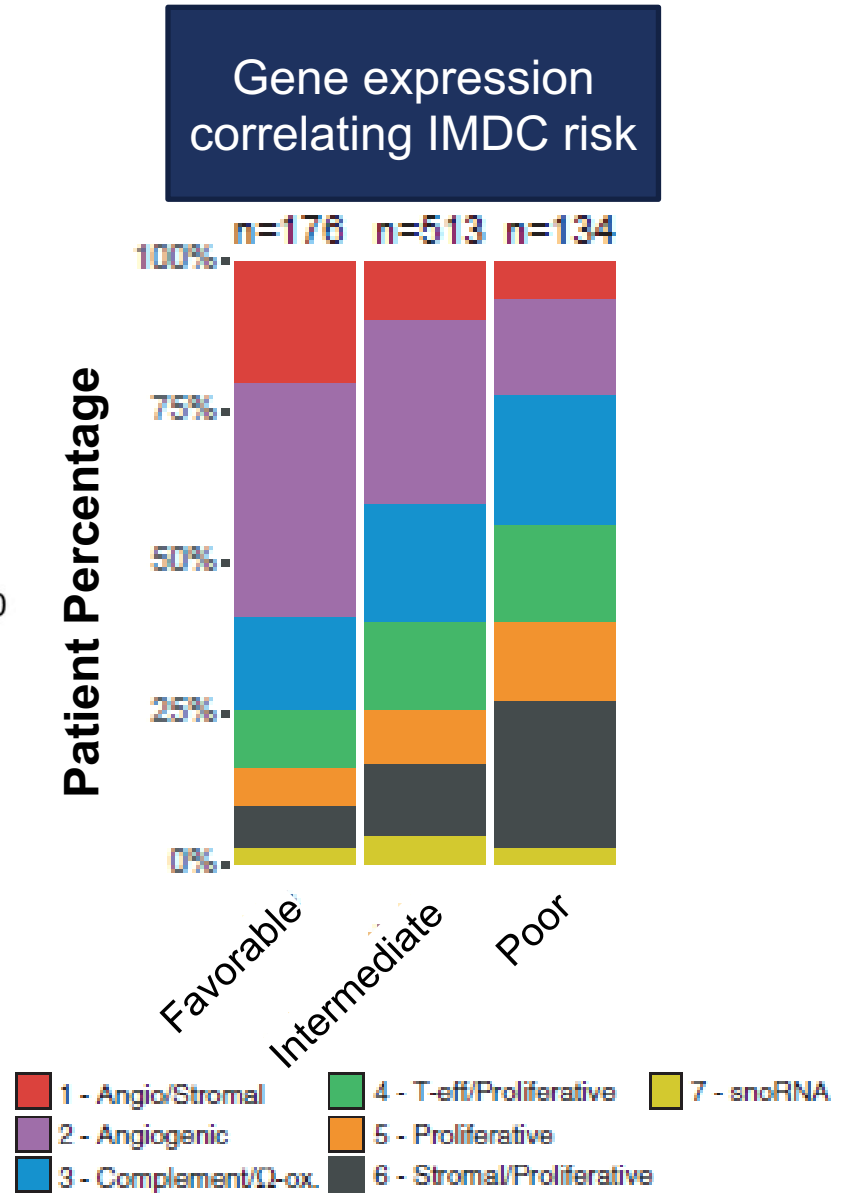
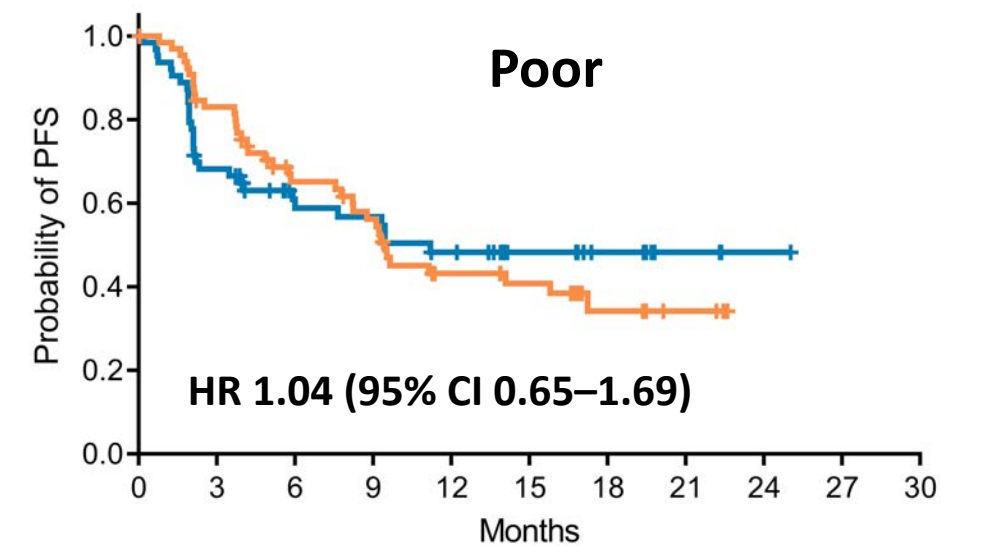
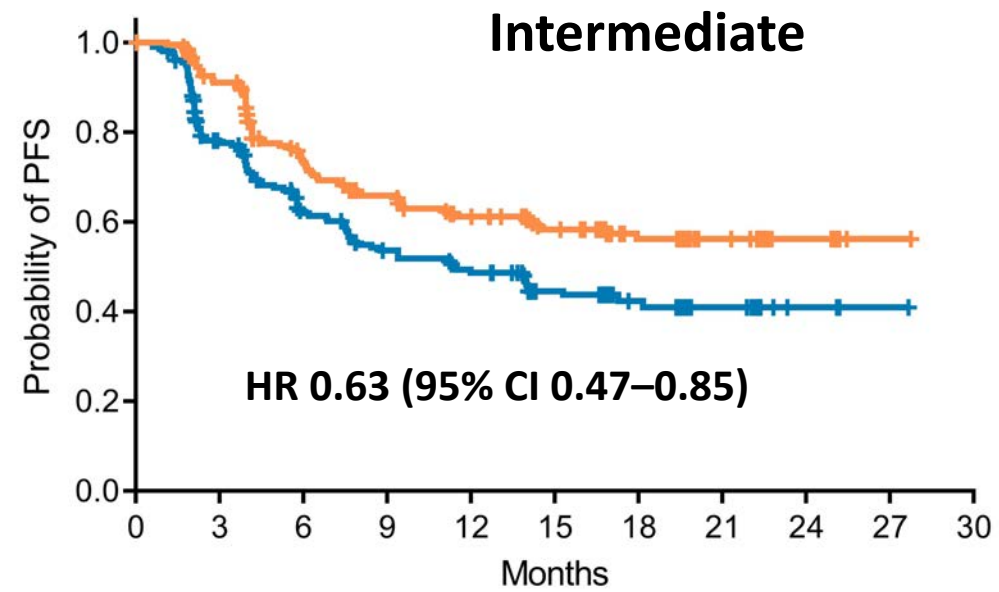


COSMIC-313: PFS by IMDC Risk Group (PITT Population)



Data cut-off: Aug 23, 2021

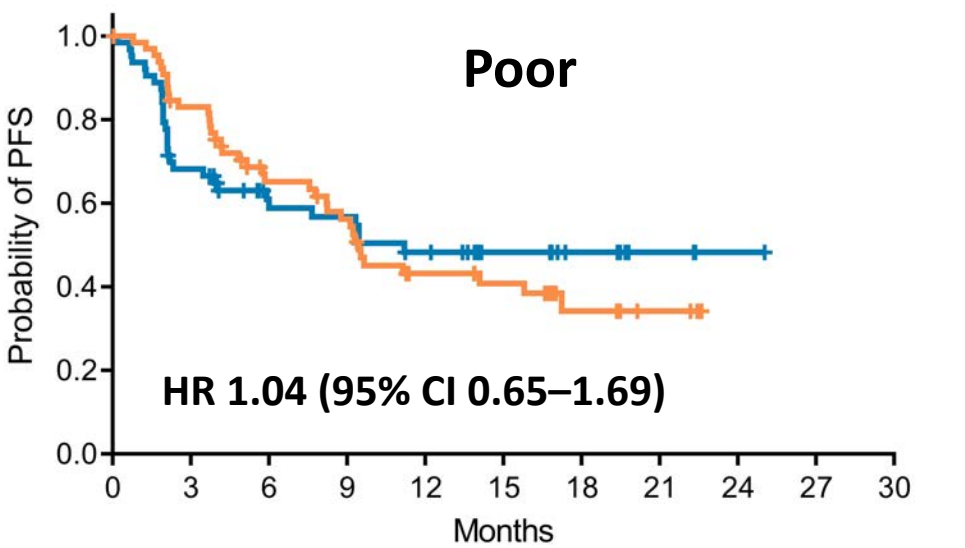
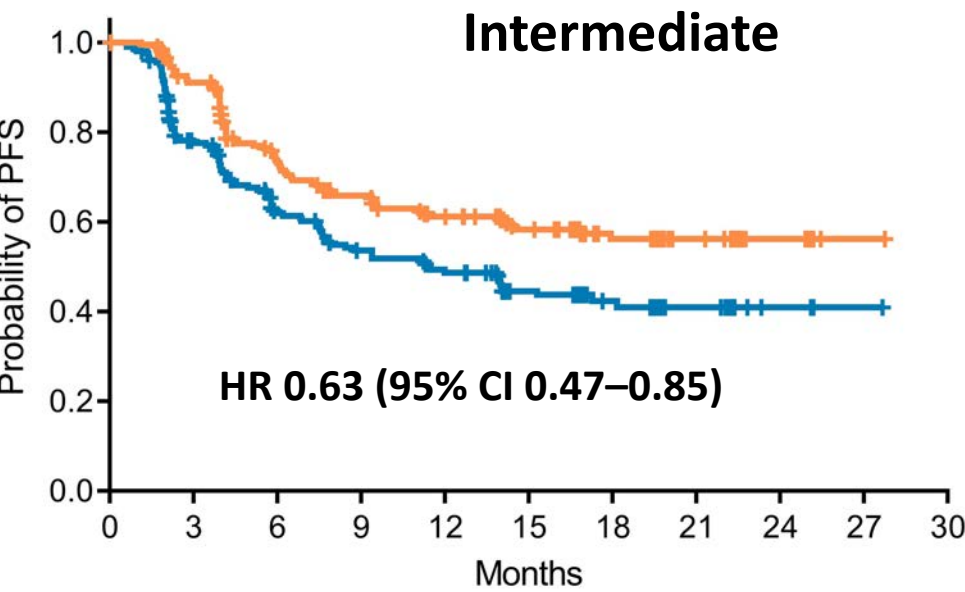
COSMIC-313: PFS by IMDC Risk Group (PITT Population)



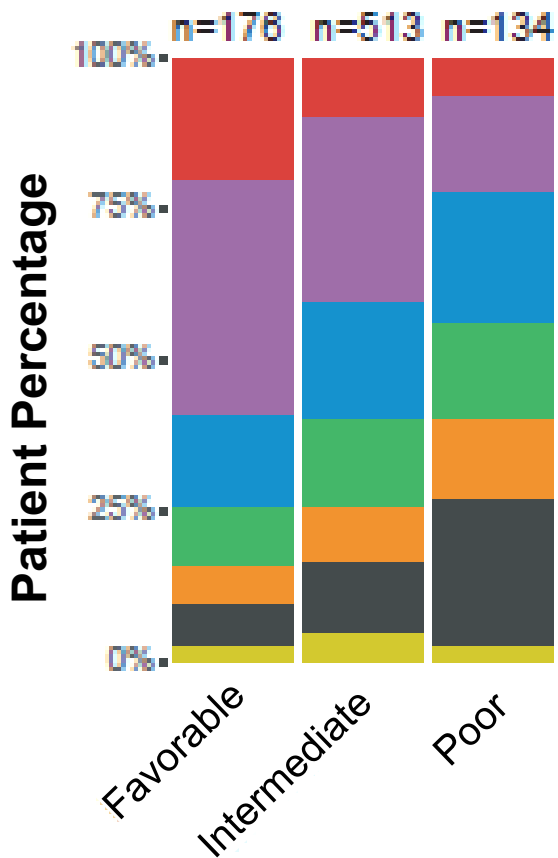
Data cut-off: Aug 23, 2021

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COSMIC-313: PFS by IMDC Risk Group (PITT Population)

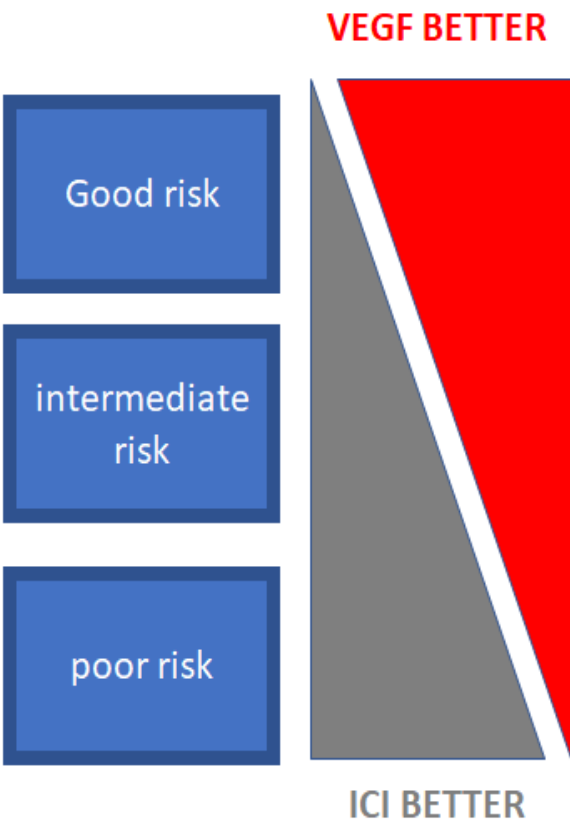


Gene expression correlating IMDC risk

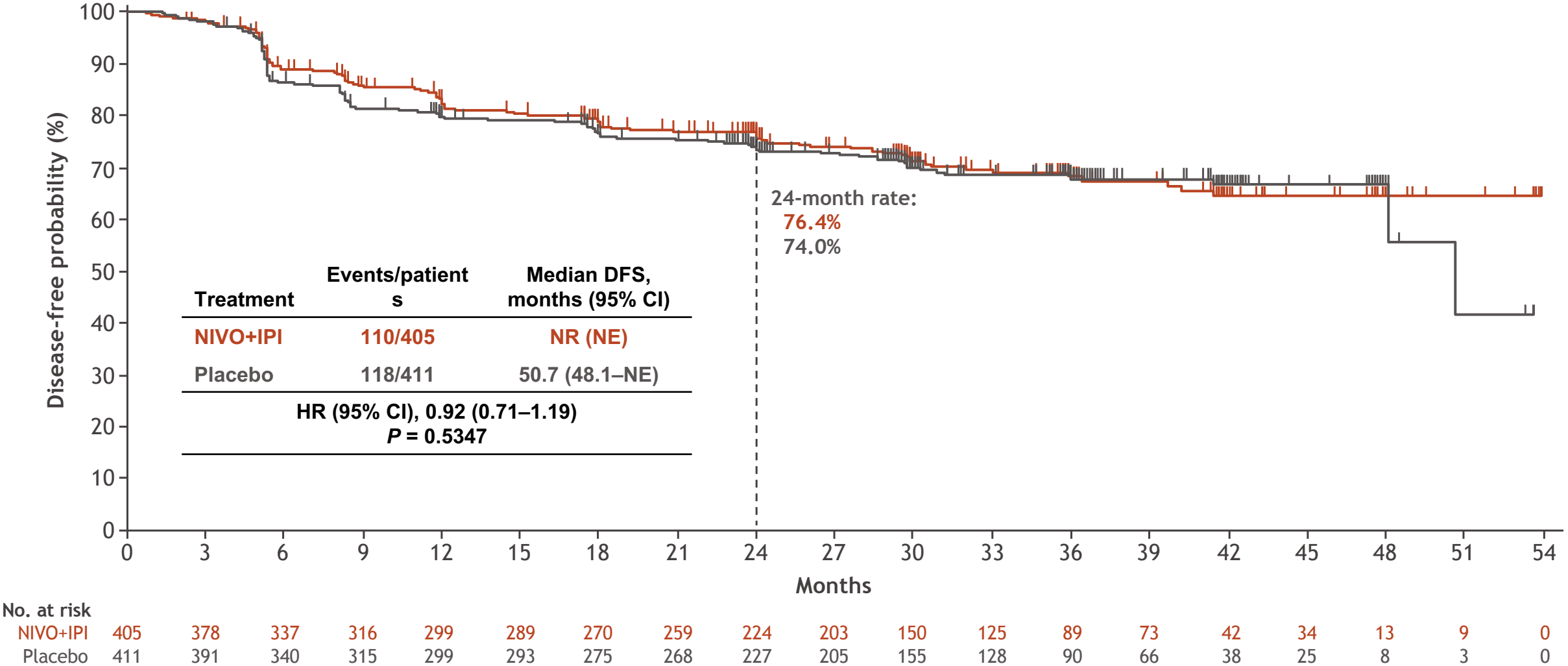


- 1 - Angio/Stromal
- 2 - Angiogenic
- 3 - Complement/Ω-ox.
- 4 - T-eff/Proliferative
- 5 - Proliferative
- 6 - Stromal/Proliferative
- 7 - snoRNA

A summary of efficacy and IMDC risk



Does a negative adjuvant trial for ipilimumab and nivolumab have any impact on how we think about 1st line?



Median (range) follow-up, 37.0 (15.4-58.0) months.
As the DFS endpoint was not met, no formal analysis of OS was performed (in total, there were 33 deaths in the NIVO+IPI arm and 28 deaths in the placebo arm).

What does all this mean?

- It's unlikely the triple of cabo/ipi/nivo will have a big impact on 1st line treatment without an OS advantage.
- It's hard to identify a patient population to treat, we thought the IMDC poor risk to get control, but the data doesn't support that.
- Triplet therapy looked difficult to give.
- Other triplet trials may be different and these results are awaited.

Checkpoint Inhibitor Combinations Approved as First-Line Treatment for RCC Before 2021

	CheckMate 214 ^a	KEYNOTE-426 ^b	JAVELIN Renal 101 ^c
Randomization	Nivolumab/ipilimumab vs sunitinib	Pembrolizumab/axitinib vs sunitinib	Avelumab/axitinib vs sunitinib
N	550 vs 546	432 vs 429	442 vs 444
Median overall survival	55.7 mo vs 38.4 mo (HR 0.72)	Not reached vs 35.7 mo (HR 0.68)	Not estimable vs not estimable (HR 0.80)
Median progression-free survival	12.3 mo vs 12.3 mo (HR 0.86)	15.4 mo vs 11.1 mo (HR 0.71)	13.3 mo vs 8.0 mo (HR 0.69)

^a Motzer RJ et al. *Cancer* 2022;128(11):2085-97. ^b Powles T et al. *Lancet Oncol* 2020;21:1563-73.

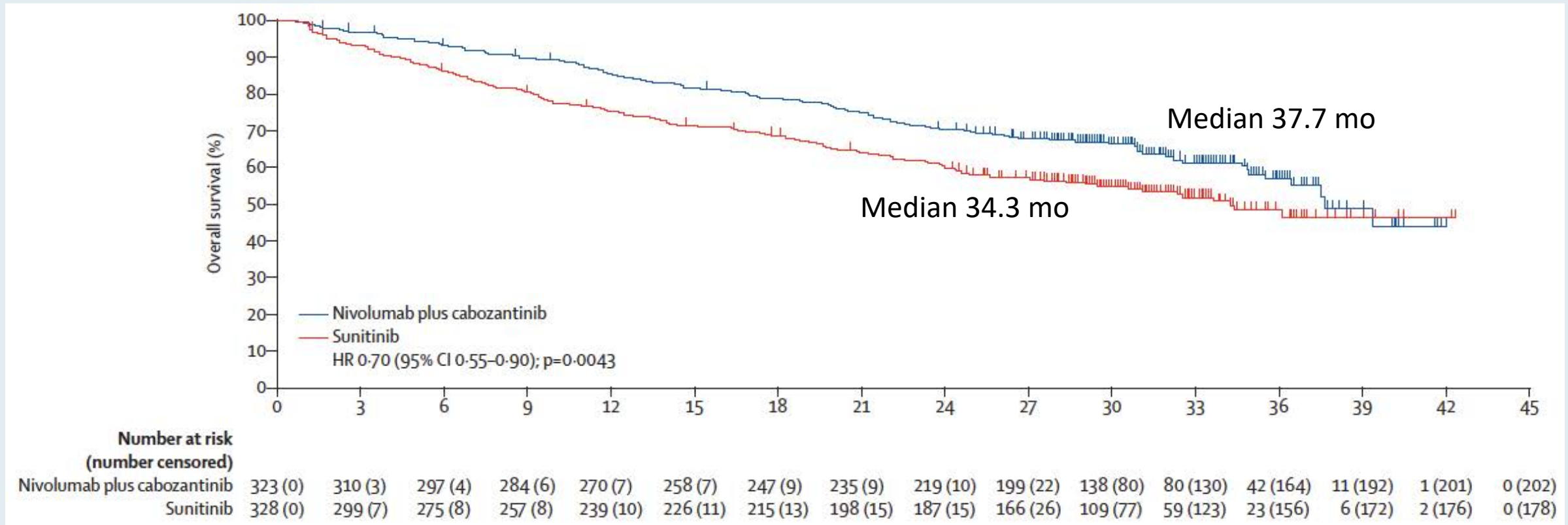
^c Choueiri TK et al. *Ann Oncol* 2020;31(8):1030-9.



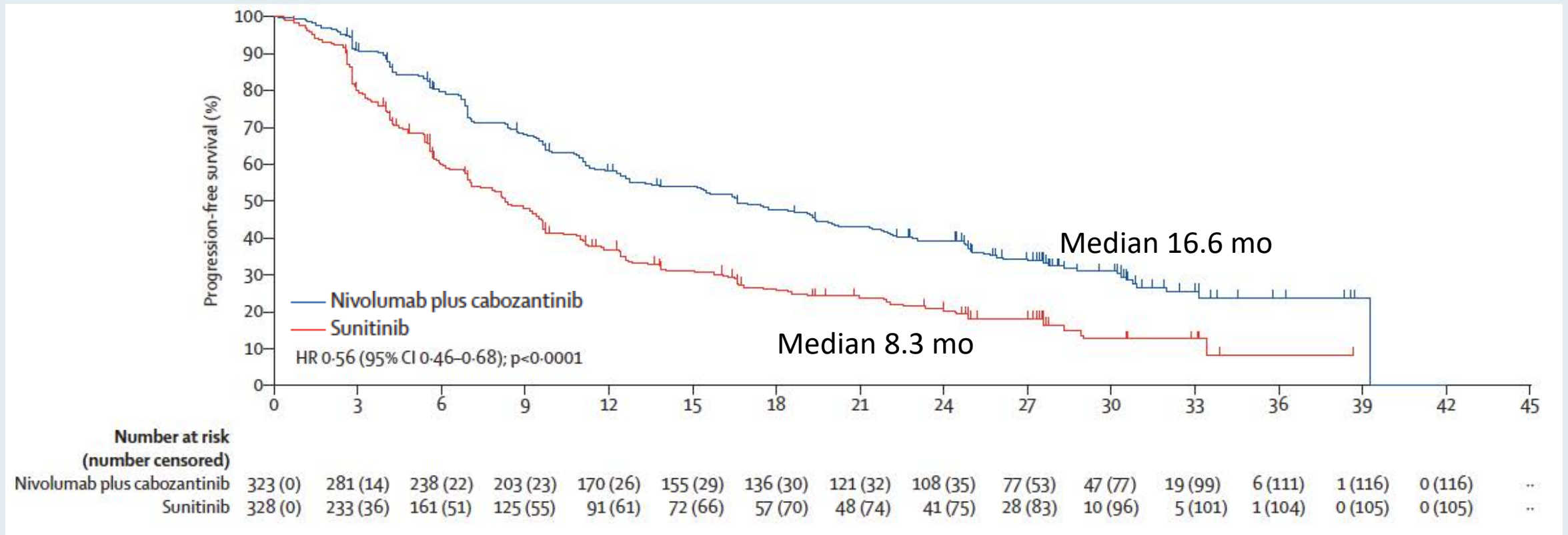
Nivolumab plus cabozantinib versus sunitinib in first-line treatment for advanced renal cell carcinoma (CheckMate 9ER): long-term follow-up results from an open-label, randomised, phase 3 trial

Robert J Motzer, Thomas Powles, Mauricio Burotto, Bernard Escudier, Maria T Bourslon, Amishi Y Shah, Cristina Suárez, Alketa Hamzaj, Camillo Porta, Christopher M Hocking, Elizabeth R Kessler, Howard Gurney, Yoshihiko Tomita, Jens Bedke, Joshua Zhang, Burcin Simsek, Christian Scheffold, Andrea B Apolo, Toni K Choueiri

CheckMate 9ER: Overall Survival (Median Follow-Up 32.9 Months)



CheckMate 9ER: Progression-Free Survival (Median Follow-Up 32.9 Months)



CheckMate 9ER: Response Summary (Median Follow-Up 32.9 Months)

	Nivolumab plus cabozantinib group (n=323)	Sunitinib group (n=328)
Confirmed objective response (n [%; 95% CI])	180 (56%; 50–61)	93 (28%; 24–34)
Confirmed best overall response		
Complete response	40 (12%)	17 (5%)
Partial response	140 (43%)	76 (23%)
Stable disease	105 (33%)	134 (41%)
Progressive disease	20 (6%)	45 (14%)
Unable to determine	18 (6%)	55 (17%)
Not reported	0	1 (<1%)
Median time to response (IQR), months	2.8 (2.8–4.2)	4.2 (2.8–7.1)
Median duration of response (95% CI), months	23.1 (20.2–27.9)	15.1 (9.9–20.5)

The NEW ENGLAND JOURNAL *of* MEDICINE

ESTABLISHED IN 1812

APRIL 8, 2021

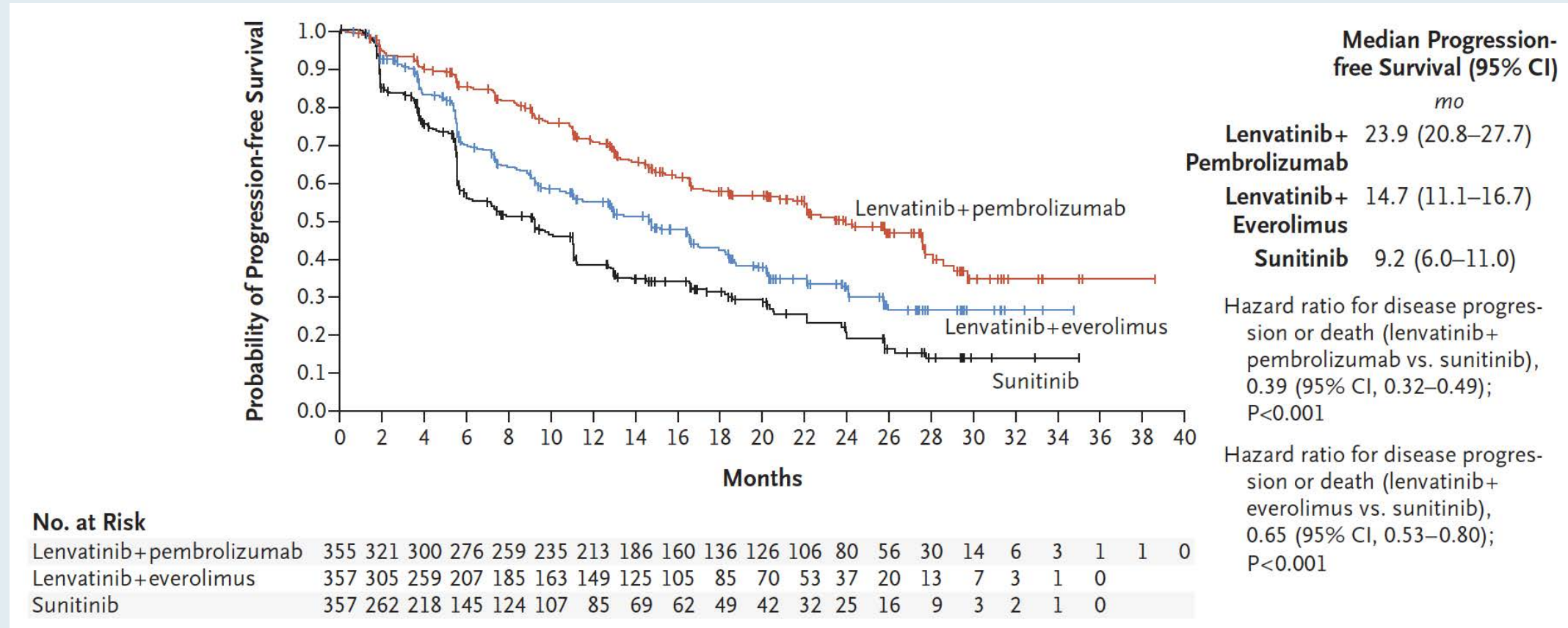
VOL. 384 NO. 14

Lenvatinib plus Pembrolizumab or Everolimus for Advanced Renal Cell Carcinoma

R. Motzer, B. Alekseev, S.-Y. Rha, C. Porta, M. Eto, T. Powles, V. Grünwald, T.E. Hutson, E. Kopyltsov, M.J. Méndez-Vidal, V. Kozlov, A. Alyasova, S.-H. Hong, A. Kapoor, T. Alonso Gordo, J.R. Merchan, E. Winkvist, P. Maroto, J.C. Goh, M. Kim, H. Gurney, V. Patel, A. Peer, G. Procopio, T. Takagi, B. Melichar, F. Rolland, U. De Giorgi, S. Wong, J. Bedke, M. Schmidinger, C.E. Dutcus, A.D. Smith, L. Dutta, K. Mody, R.F. Perini, D. Xing, and T.K. Choueiri, for the CLEAR Trial Investigators*

CLEAR: Progression-Free Survival Analyses

Progression-free survival



Overall survival was longer with lenvatinib and pembrolizumab than with sunitinib (HR 0.66; $p = 0.005$) but was not longer with lenvatinib and everolimus than with sunitinib (HR 1.15; $p = 0.30$).

CLEAR: Updated OS by Risk Group and Treatment Arm

Subgroup	MEDIAN OS, MONTHS		HR (95% CI)
	Lenvatinib/pembrolizumab	Sunitinib	
All patients	NE	NE	0.72 (0.55-0.93)
MSKCC favorable risk	NE	NE	1.00 (0.51-1.96)
MSKCC intermediate risk	43.0	41.1	0.71 (0.52-0.97)
MSKCC poor risk	33.0	17.1	0.50 (0.25-1.02)
IMDC favorable risk	NE	NE	1.22 (0.66-2.26)
IMDC intermediate risk	43.0	41.1	0.72 (0.52-1.00)
IMDC poor risk	36.9	10.4	0.39 (0.20-0.77)

IMDC, International Metastatic Renal Cell Carcinoma Database Consortium criteria; MSKCC, Memorial Sloan Kettering Cancer Center criteria; OS, overall survival.

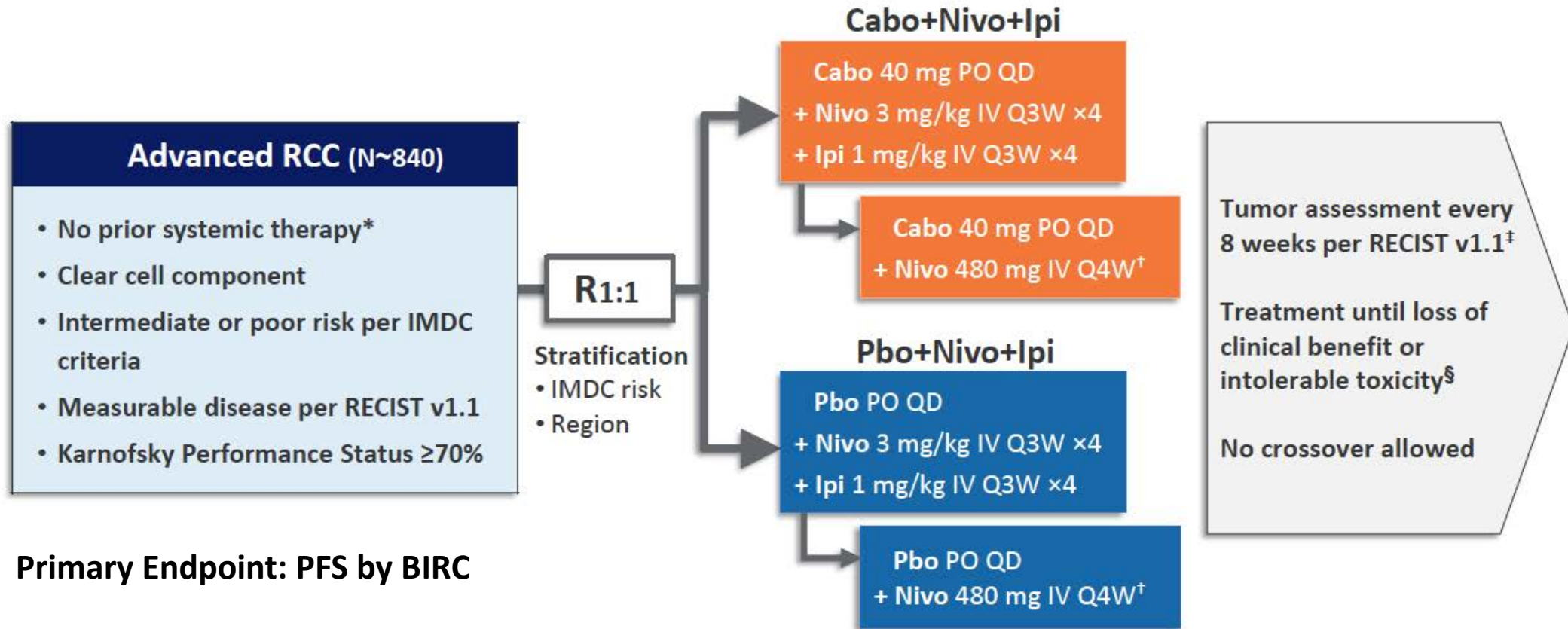
Phase 3 study of cabozantinib in combination with nivolumab and ipilimumab in previously untreated advanced renal cell carcinoma of IMDC intermediate or poor risk (COSMIC-313)

Toni K. Choueiri,¹ Thomas Powles,² Laurence Albiges,³ Mauricio Burotto,⁴ Cezary Szczylik,⁵ Bogdan Zurawski,⁶ Eduardo Yanez Ruiz,⁷ Marco Maruzzo,⁸ Alberto Suarez Zaizar,⁹ Luis Enrique Fein,¹⁰ Fabio A. Schutz,¹¹ Daniel Y.C. Heng,¹² Fong Wang,¹³ Fabio Mataveli,¹³ Yu-Lin Chang,¹³ Maximiliano van Kooten Losio,¹⁴ Cristina Suarez,¹⁵ Robert J. Motzer¹⁶

¹Dana-Farber Cancer Institute, Brigham and Women's Hospital, and Harvard Medical School, Boston, MA, USA; ²Barts Cancer Institute, Cancer Research UK Experimental Cancer Medicine Centre, Queen Mary University of London, Royal Free National Health Service Trust, London, UK; ³Institut Gustave Roussy, Université Paris Saclay, Villejuif, France; ⁴Bradford Hill Clinical Research Center, Santiago, Chile; ⁵European Health Centre, Otwock, Warsaw, Poland; ⁶Professor Franciszek Lukaszczyk Oncology Center, Bydgoszcz, Poland; ⁷James Lind Centro de Investigación del Cáncer, Temuco, Chile; ⁸Oncology Unit 1, Department of Oncology, Istituto Oncologico Veneto IOV - IRCCS, Padua, Italy; ⁹Consultorio de Medicina Especializada Dentro de Condominio San Francisco, Benito Juárez, Mexico City, Mexico; ¹⁰Instituto de Oncología de Rosario, Rosario, Argentina; ¹¹Beneficência Portuguesa de São Paulo, São Paulo, Brazil; ¹²Tom Baker Cancer Center, University of Calgary, Calgary, Alberta, Canada; ¹³Exelixis, Inc., Alameda, CA, USA; ¹⁴Bristol Myers Squibb, Boudry, Neuchâtel, Switzerland; ¹⁵Vall d'Hebron Institute of Oncology, Hospital Universitari Vall d'Hebron, Vall d'Hebron Barcelona Hospital Campus, Barcelona, Spain; ¹⁶Memorial Sloan Kettering Cancer Center, New York, NY, USA



COSMIC-313: Phase III Trial Schema

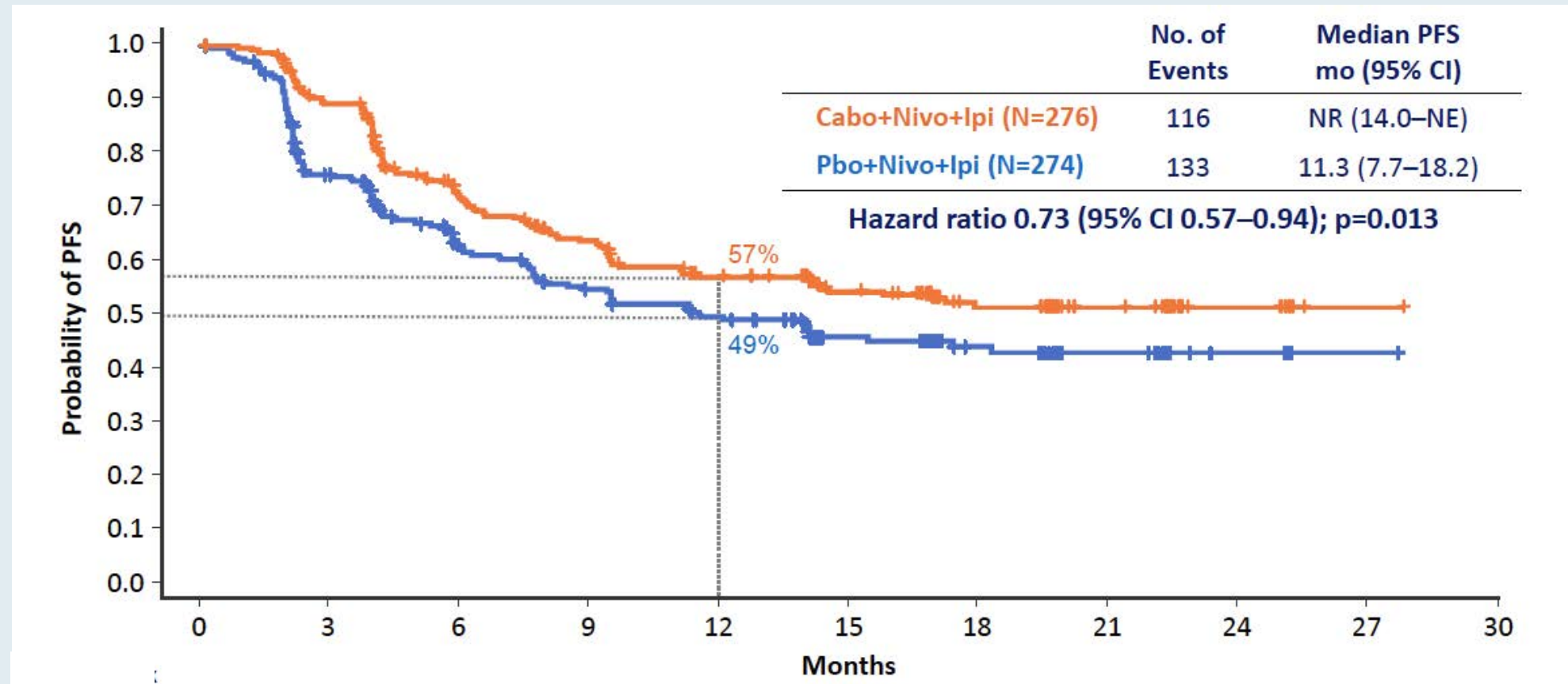


*One prior systemic adjuvant therapy allowed for completely resected RCC and if recurrence occurred ≥6 months after the last dose of adjuvant therapy; adjuvant PD-1 or PD-L1 inhibitor in combination with a CTLA-4 inhibitor not permitted. [†]Nivolumab given for a maximum of 2 years. [‡]Tumor assessment (RECIST v1.1) at week 10, then every 8 weeks through week 50, then every 12 weeks thereafter.

[§]Discontinuation of one agent did not mandate discontinuation of all agents.

PFS = progression-free survival; BIRC = blinded independent review committee

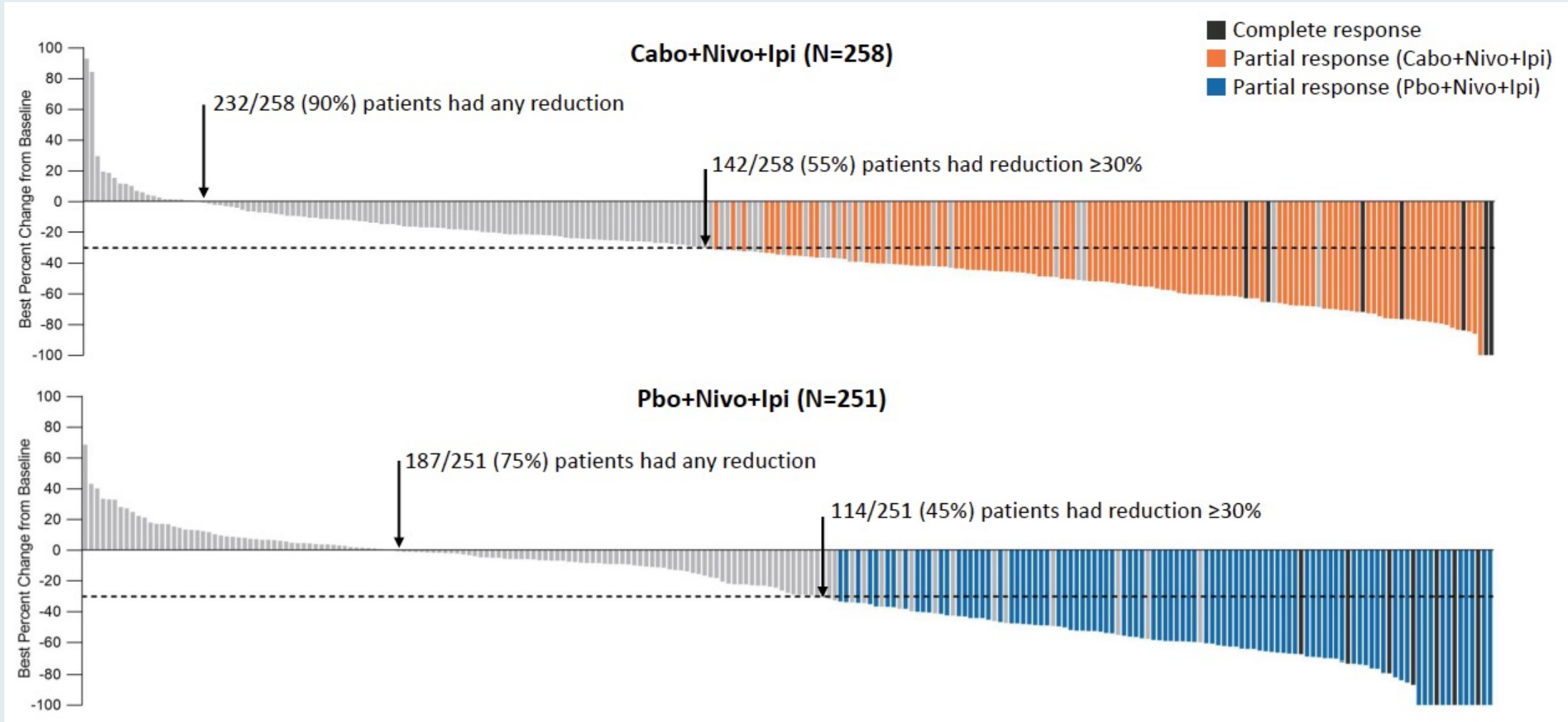
COSMIC-313 Primary Endpoint: Final Analysis of PFS in PITT Population*



* PITT population is the first 550 randomly assigned patients

Subgroup analyses of PFS were generally consistent with results for the primary endpoint; analysis suggested greater benefit with Cabo + Nivo + Ipi for patients with IMDC intermediate risk compared to poor risk

COSMIC-313: Best Change from Baseline in Sum of Diameters of Target Lesions in PITT Population



COSMIC-313: Summary of Adverse Events

	Cabo+Nivo+Ipi (N=426)		Pbo+Nivo+Ipi (N=424)	
	Any Grade	Grade 3–4	Any Grade	Grade 3–4
Treatment-related adverse events				
Any event,* %	99	73	91	41
Alanine aminotransferase increased	46	26	17	6
Aspartate aminotransferase increased	44	20	16	5
Diarrhea	41	4	18	3
Palmar-plantar erythrodysesthesia	28	3	4	0
Hypothyroidism	24	<1	15	0
Hypertension	23	8	5	2
Fatigue	22	2	21	1
Lipase increased	22	9	13	6
Amylase increased	20	5	12	2
Rash	20	2	20	1
Pruritus	20	0	26	<1

- Grade 5 TRAEs occurred in 3 patients (1%) with Cabo+Nivo+Ipi (gastrointestinal hemorrhage, hepatic failure, and respiratory failure) and 3 patients (1%) with Pbo+Nivo+Ipi (renal failure, myocarditis, and sudden death) ≤30 days after last dose; through 100 days after last dose, two additional patients had grade 5 TRAEs with Cabo+Nivo+Ipi (immune-mediated hepatitis and acute hepatic failure) and one additional patient with Pbo+Nivo+Ipi (perforated ulcer)
- Use of high-dose corticosteroids (≥40 mg of prednisone or equivalent) for AEs was 58% with Cabo+Nivo+Ipi and 35% with Pbo+Nivo+Ipi

*Occurring in ≥20% of either treatment group.

Renal Cell Carcinoma Agenda

MODULE 1: Management of High-Risk Renal Cell Carcinoma (RCC) in the Adjuvant Setting

MODULE 2: Optimal First-Line Therapy for Patients with Metastatic RCC

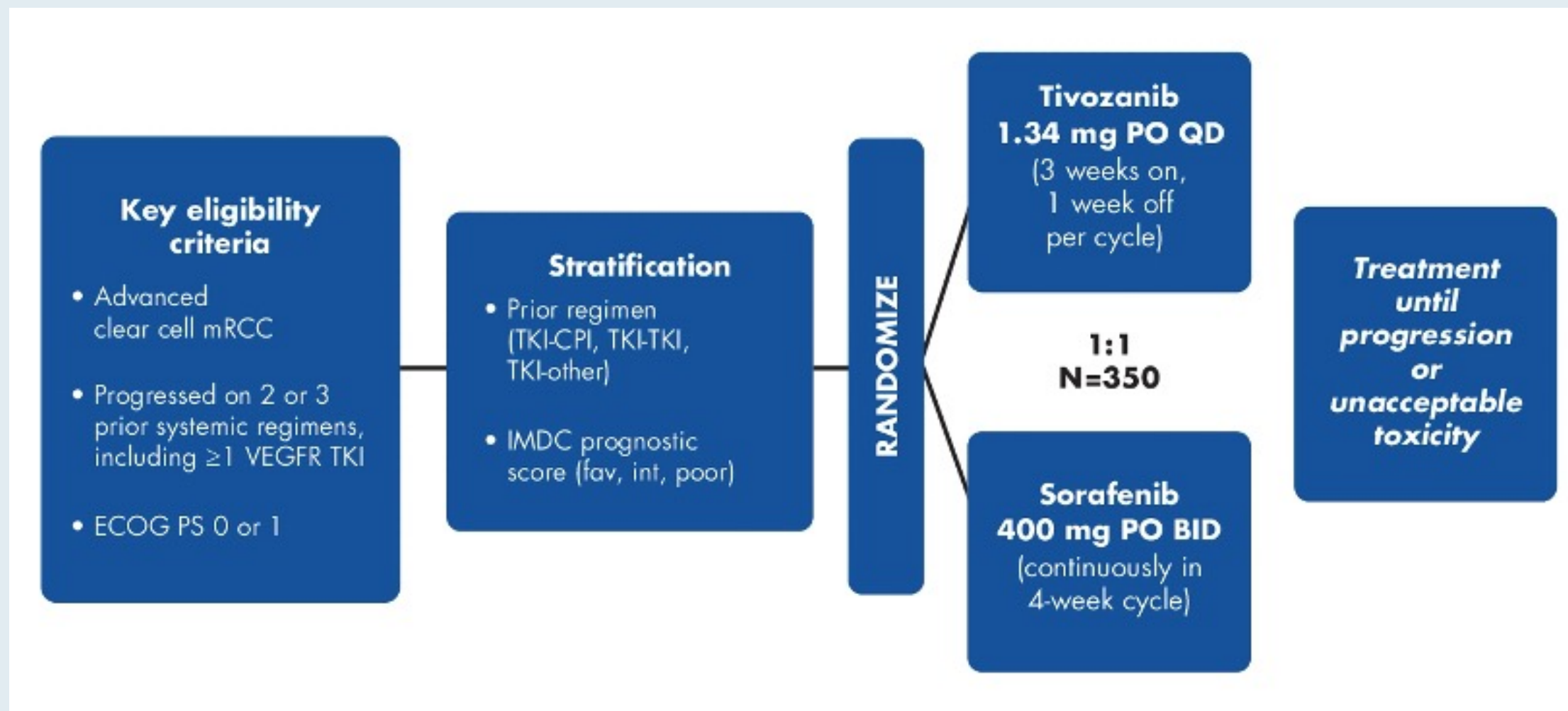
MODULE 3: Treatment Approaches for Relapsed/Refractory Metastatic RCC

Long-Term PFS from TIVO-3: Tivozanib (TIVO) versus Sorafenib (SOR) in Relapsed/Refractory (R/R) Advanced RCC

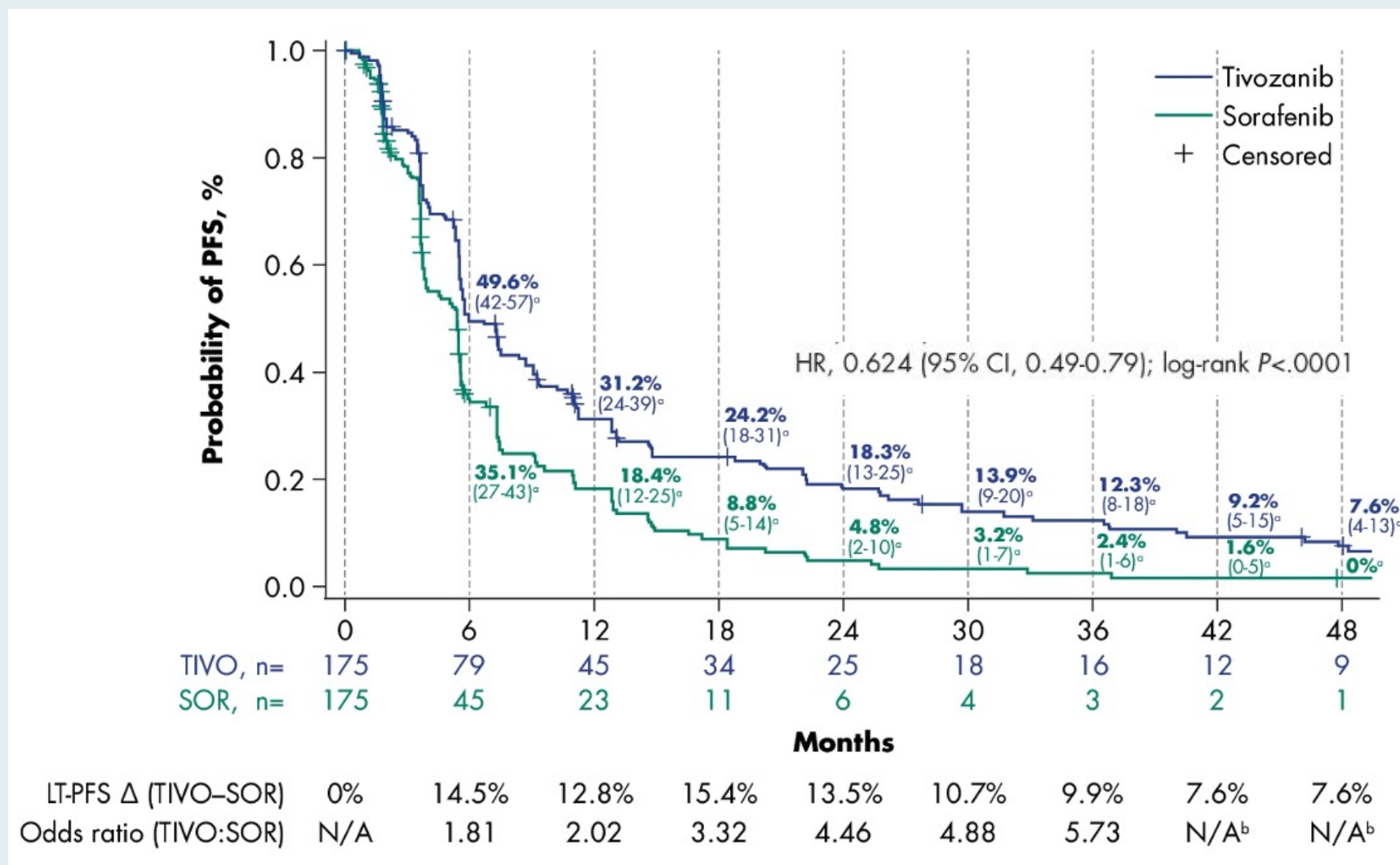
Atkins MB et al.

Genitourinary Cancers Symposium 2022;Abstract 362.

TIVO-3: Phase III Trial Design



TIVO-3: Landmark Analysis Long-Term PFS (LT-PFS)

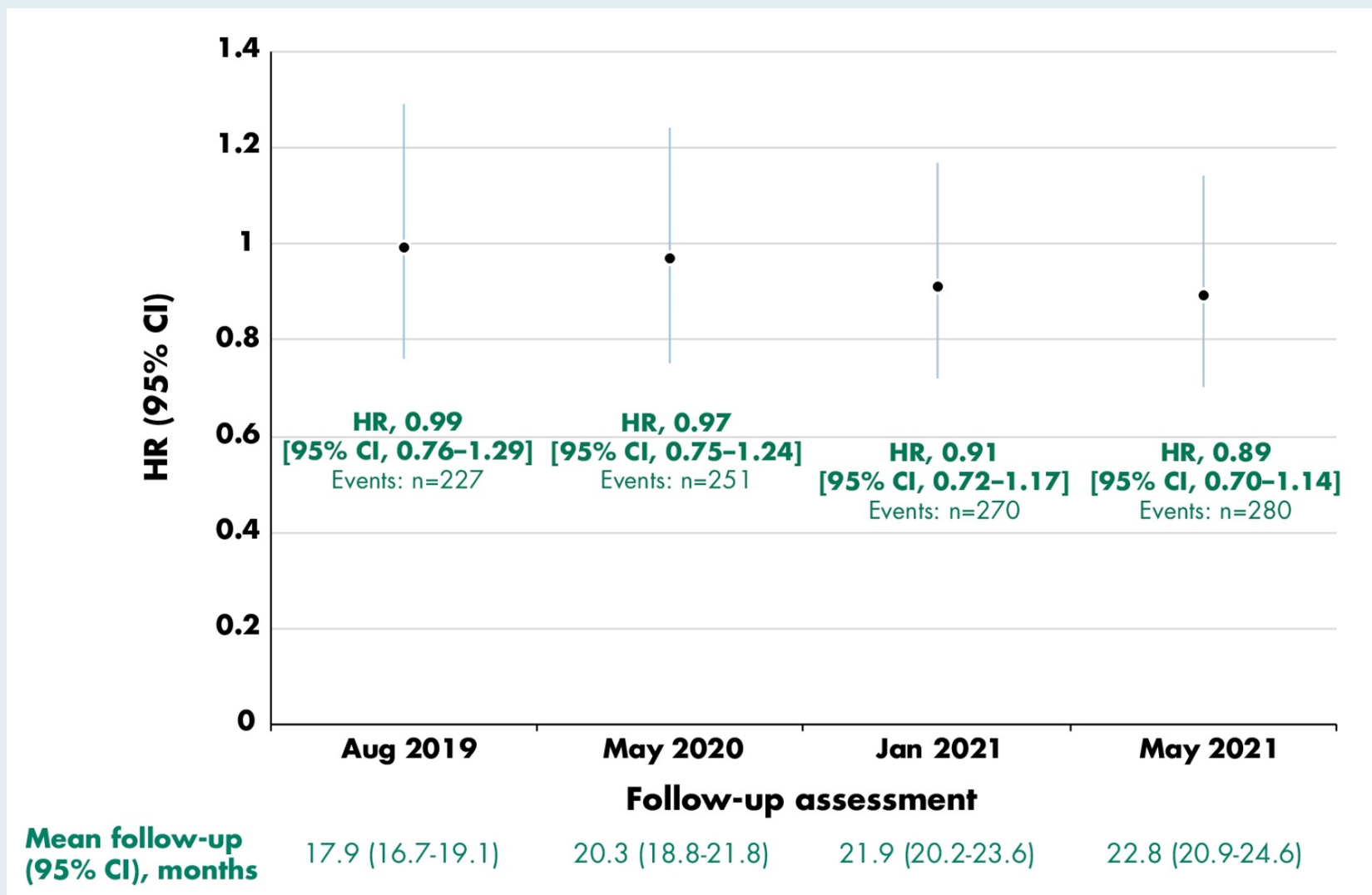


Maturation of Overall Survival (OS) in TIVO-3 with Long-Term Follow-Up

Rini BI et al.

ASCO 2022;Abstract 4557.

TIVO-3: Serial Overall Survival with Extended Follow-Up (22.8 Months)



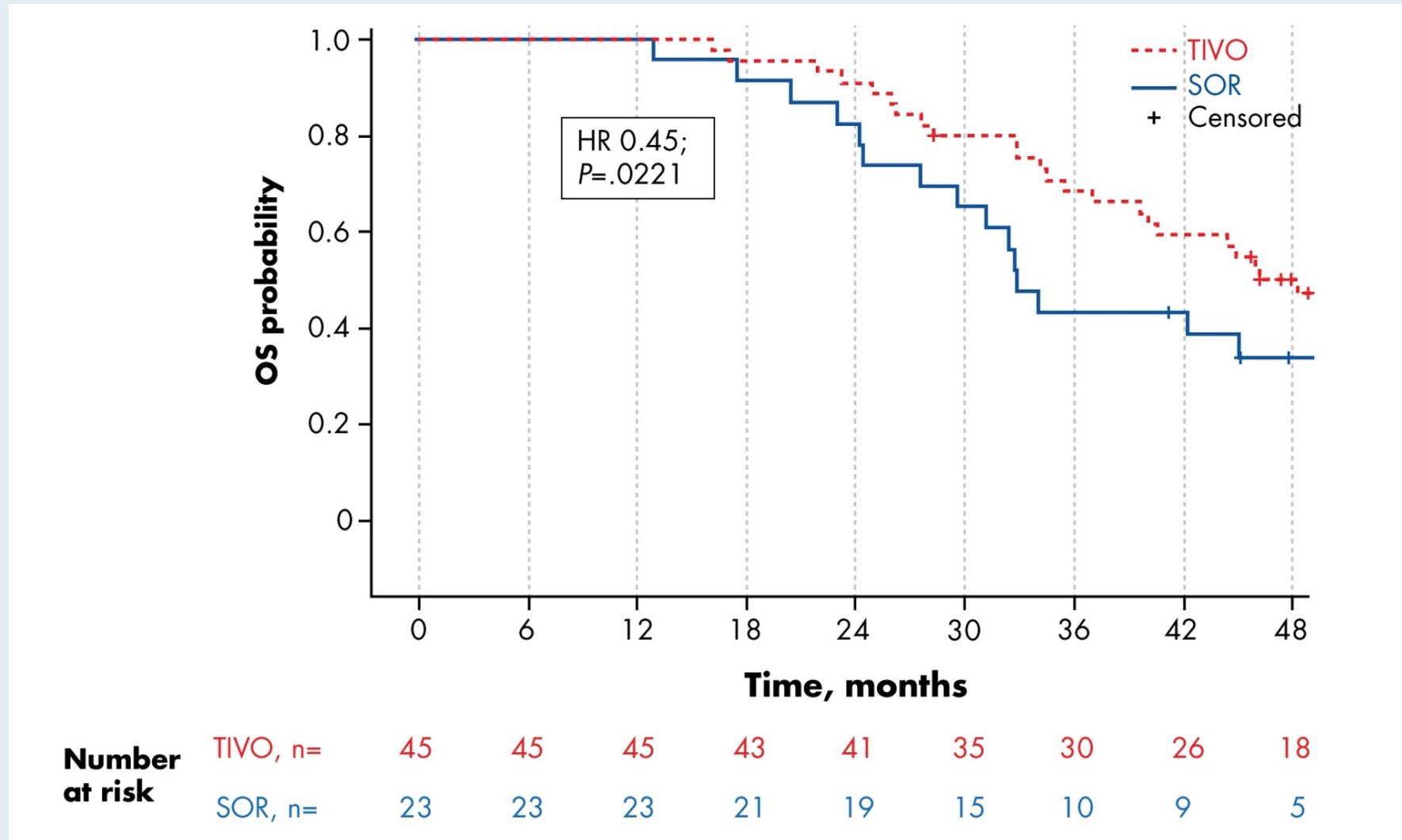
TIVO-3: Unconditioned (ITT Population) and Landmark PFS-Conditioned Overall Survival with Extended Follow-Up

Population	Group	At risk, n	Events	Median OS (95% CI), months	HR (95% CI)	Stratified log-rank P value
Unconditioned (ITT population)	TIVO	175	138	16.4 (13.4-21.9)	0.89 (0.70-1.14)	0.3533
	SOR	175	142	19.1 (14.9-24.2)		
Conditioned on PFS ≥12 months	TIVO	45	25	48.3 (32.8-NR)	0.45 (0.22-0.91)	0.0221
	SOR	23	17	32.8 (27.6-50.0)		
Conditioned on PFS ≥18 months	TIVO	34	8	54.3 (44.9-NR)	0.46 (0.15-1.39)	0.1617
	SOR	11	5	50.0 (32.4-NR)		

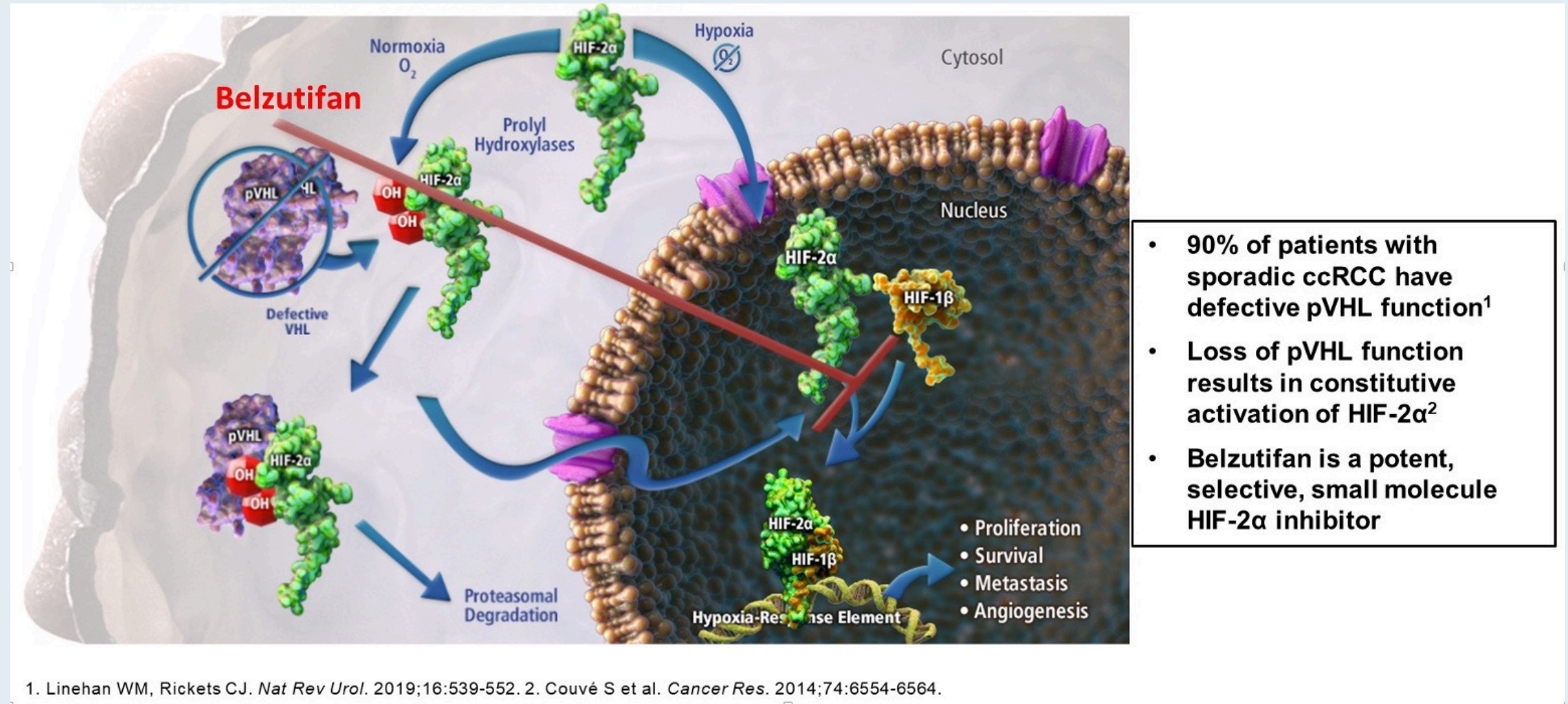
NR, not reached.

PFS = progression-free survival

TIVO-3: Conditional Overall Survival (OS) for Patients with 12-Month Progression-Free Survival



Belzutifan Is a Selective Small Molecule Inhibitor of HIF-2-alpha



ccRCC = clear cell RCC

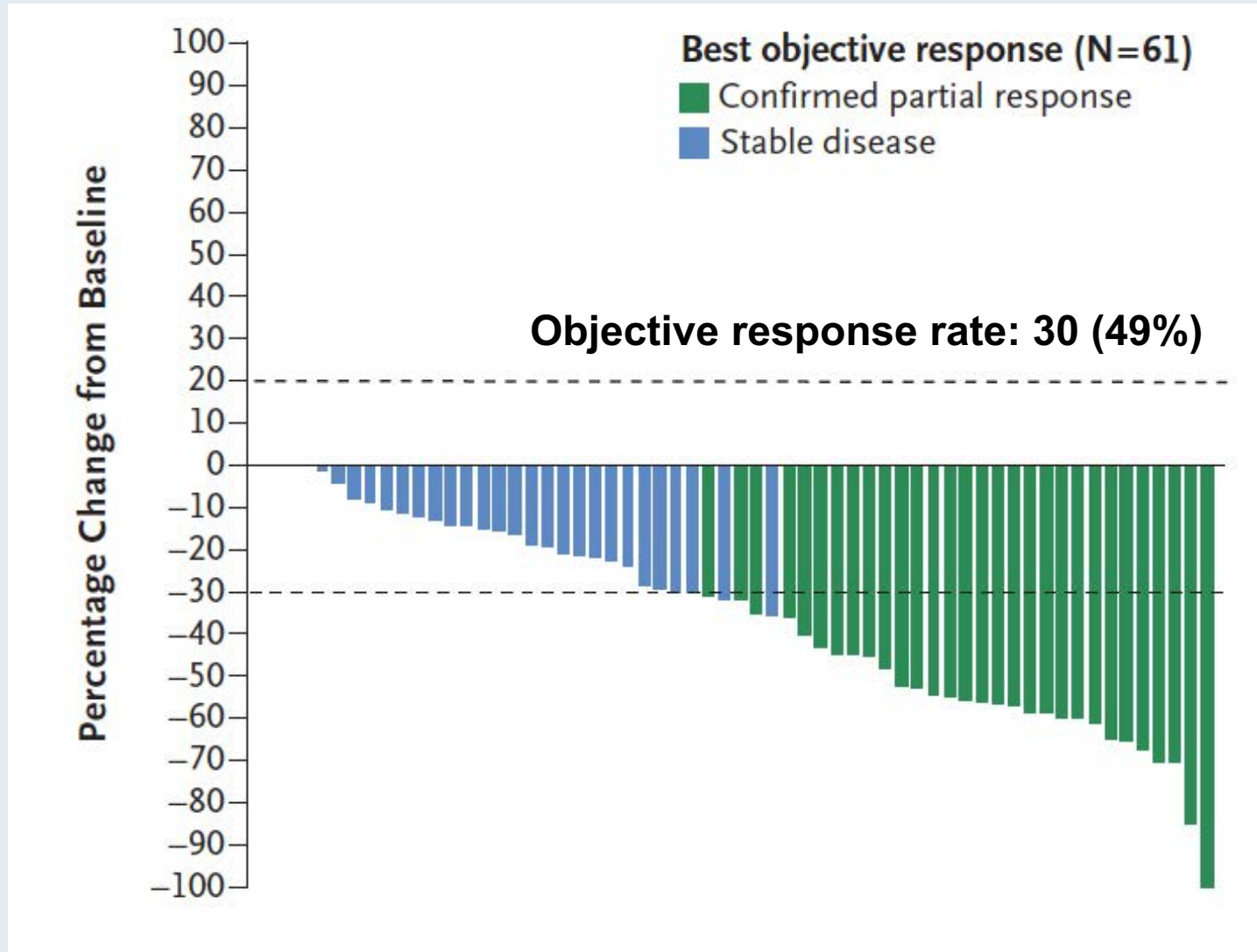
ORIGINAL ARTICLE

Belzutifan for Renal Cell Carcinoma in von Hippel–Lindau Disease

Eric Jonasch, M.D., Frede Donskov, M.D., Ph.D., Othon Iliopoulos, M.D.,
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Benjamin L. Maughan, M.D., Stephane Oudard, M.D., Tobias Else, M.D.,
Jodi K. Maranchie, M.D., Sarah J. Welsh, M.D., Sanjay Thamake, Ph.D.,
Eric K. Park, M.D., Rodolfo F. Perini, M.D., W. Marston Linehan, M.D.,
and Ramaprasad Srinivasan, M.D., Ph.D., for the MK-6482-004 Investigators*

N Engl J Med 2021;385:2036-46.

Phase II Trial of Belzutifan: Maximum Change in Target Renal Tumors



Phase II Trial of Belzutifan: Select Adverse Events

Adverse event (n = 61)	Any grade	Grade 3
Anemia	55 (90%)	5 (8%)
Fatigue	40 (66%)	3 (5%)
Dyspnea	14 (23%)	1 (2%)
Myalgia	12 (20%)	1 (2%)
Hypertension	10 (16%)	5 (8%)
Diarrhea	8 (13%)	1 (2%)

Select Ongoing Phase III Clinical Trials of Belzutifan for Advanced RCC

Trial identifier	N	Study arms	Estimated primary completion date
MK-6482-012 (NCT04195750)	736	<ul style="list-style-type: none"> • Belzutifan • Everolimus 	September 2025
MK-6482-012 (NCT04736706)	1,653	<ul style="list-style-type: none"> • Belzutifan + pembrolizumab + lenvatinib • Pembrolizumab/quavonlimab + lenvatinib • Pembrolizumab + lenvatinib 	October 2026
NCT04586231	708	<ul style="list-style-type: none"> • Belzutifan + lenvatinib • Cabozantinib 	December 2024

Thank you for joining us!

***CME, MOC and NCPD credit information will be
emailed to each participant within 5 business days.***