

Early treatment in der Immunonkologie

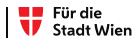
RCC

Fortbildungsveranstaltung der Österreichischen Gesellschaft für Krankenhauspharmazie in
Kooperation mit MSD

Dora Niedersüß-Beke



1. MEDIZINISCHE ABTEILUNG
Zentrum für Onkologie und Hämatologie
mit Ambulanz und Palliativstation



Disclaimer:

„Die Präsentation spiegelt Wissen und Erfahrung des Vortragenden wider. MSD kann die Anwendung der im Vortrag erwähnten Arzneimittel und Therapien ausschließlich im Rahmen bestehender Zulassungen und nach Berücksichtigung der vollständigen aktuellen Fachinformation empfehlen.“

Interessenskonflikte

- Empfang von Honoraren oder Beratungsgebühren: MSD, BMS, Merck Serono, Astellas
- Grant: Astellas
- Teilnahme an von einer Firma gesponsertem Sprecherbüro: BMS, MSD, Merck Serono, Amgen, Astellas; AstraZeneca; Janssen

Chirurgische Resektion

Die einzige **kurative** Therapie
des Nierenzellkarzinoms
ist eine partielle bzw. komplette
Nephrektomie

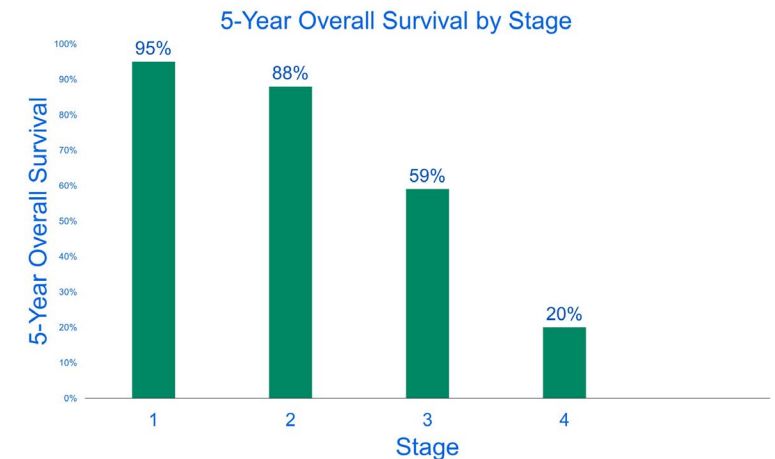
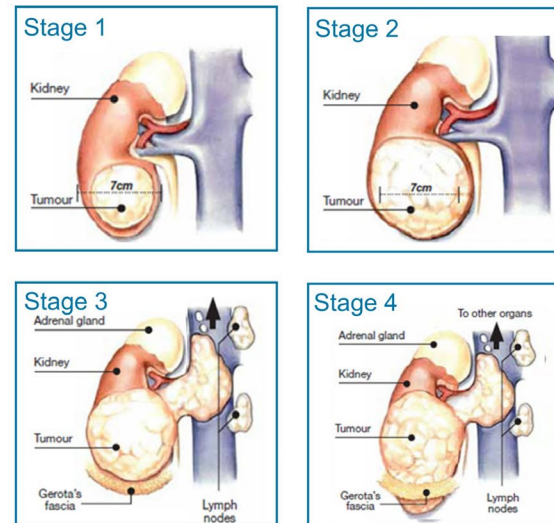


**Aber, ~ 50% der Patienten
erleiden ein Rezidiv¹⁻³**

Risikofaktoren für ein Rezidiv

- Tumorgroße
- Differenzierung (Grading)
- Lymphknotenbefall
- M1, NED nach einer Metastasenresektion im oligometastatischem Bereich

Increased Risk of Recurrence by Stage



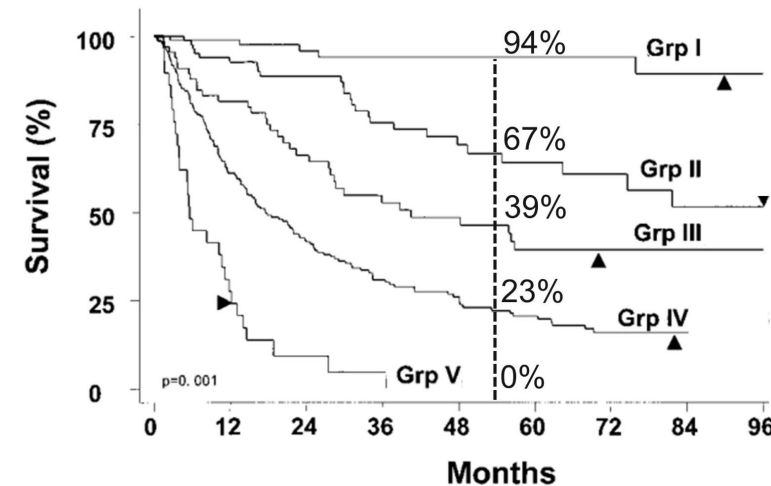
Weitere Risikofaktoren

Model	Parameters	Outcome	Type
UISS	TNM, grade, <u>ECOG PS</u>	OS	KM Analysis
SSIGN	TNM, pN+, pM+, tumor size, grade, <u>tumor necrosis</u>	CSS	Algorithm
Leibovich	TNM, pN+, tumor size, grade, tumor necrosis	MFS	Algorithm
MSKCC	TNM, tumor size, grade, tumor necrosis, <u>symptoms</u>	RFS	Nomogram
Kattan	TNM, tumor size, <u>histology</u> , symptoms	RFS	Nomogram
Yaycioglu	Tumor size, symptoms	RFS	Formula
Karakiewicz	TNM, <u>age, sex, + margin</u> , tumor size, symptoms	CSS	Nomogram
Cindolo	Tumor size, symptoms	RFS	Formula

UISS=University of California at Los Angeles Integrated Staging System; SSIGN=Stage, Size, Grade, and Necrosis Score; MSKCC=Memorial Sloan Kettering Cancer Center; ECOG PS=Eastern Cooperative Oncology Group performance status; OS=Overall survival; CSS=Cancer-specific survival; MFS=Metastasis-free survival; RFS=Recurrence-free survival; KM=Kaplan-Meier.

UCLA Integrated Staging System

pTNM Stage, Grade, Performance status



Zisman et al, J Clin Oncol, 2002; Frank et al, J Urol, 2002; Leibovich et al, Cancer, 2003; Sorbellini et al, J Urol, 2005; Kattan et al, J Urol, 2001; Yaycioglu et al, Urology, 2001; Karakiewicz et al, JCO, 2007; Cindolo et al, BJU Int, 2003

Adjuvante Therapie – was bisher geschah (Cytokine)

Trial	Population	Arms	N	Primary	Outcome
Porzsolt et al (1992)	pT3-4N0 or pTxN1-3	IFN-α vs. Observation	270	TTF/Survival	No Difference
Trump et al (1996)	pT3-4aN0 or pTxN1-3	L-IFN vs. Observation	294	Recurrence	No Difference
Pizzocaro et al (2001)	pT3-4aN0 or pTxN1-3	IFN-α vs. Observation	247	5-year DFS	No Difference
Messing et al (2003)	pT3-4aN0 or pTxN1-3	IFN-α vs. Observation	283	5-year OS	No Difference
Clark et al (2003)	pT3b-4Nx or pTxN1-3	IL-2 vs. Observation	138	2-year DFS	No Difference
Atzpodien et al (2005)	pT3b-4Nx or pTxN1-3	IL-2/IFN-α/5-FU vs. Observation	203	2-year DFS	No Difference
Aitchison et al (2014)	pT3b-4Nx or pTxNa-2 or +margin/vascular invasion	IL-2/IFN-α/5-FU vs. Observation	309	3-year DFS	No Difference

IFN-α=Interferon alpha; L-IFN=Lymphoblastoid interferon; IL-2=Interleukin 2; 5-FU=5-Fluorouracil; TTF= Time to treatment failure; DFS=Disease-free survival; OS=Overall survival.

Porzsolt et al, Proceedings of ASCO, 1992; Trump et al, Proceedings of ASCO, 1996; Pizzocaro et al, JCO, 2001; Messing et al, NEJM, 2003; Clark et al, JCO, 2003; Atzpodien et al Br J Cancer, 2005; Aitchison et al, EJC, 2014

Adjuvante Therapie – was bisher geschah (TKI)

Trial	Arms	Years	N	Primary Endpoint	Clear Cell Only	Eligibility	Hazard Ratio Confidence Interval
ASSURE (Haas, Lancet, 2016)	Sunitinib vs. Sorafenib vs. Placebo*	1	1943	DFS	No	pT1bG3-4N0, pT2-4GxN0, TxGxN+	Sunitinib – 1.02 (97.5% CI 0.85-1.23) Sorafenib – 0.97 (97.5% CI 0.80-1.17)
STRAC (Ravaud, NEJM, 2016)	Sunitinib vs. Placebo	1	615	DFS	Yes	pT3-4GxN0-x, TxGxN1-2	0.76 (95% CI 0.59-0.98)
PROTECT (Motzer, JCO, 2017)	Pazopanib vs. Placebo*	1	1538	DFS	Yes	pT2G3-4N0, pT3-4N0, pTxN1	0.86 (95% CI 0.70-1.06)
ATLAS (Gross-Goupil, Ann Oncol, 2018)	Axitinib vs. Placebo	1-3	724	DFS	Yes	pT2-4GxN0, pTxN1	0.870 (95% CI 0.66-1.147)
SORCE (Eisen, JCO, 2020)	Sorafenib vs. Placebo)*	1-3	1711	DFS	No	Leibovich score 3-11	1.01 (95% CI 0.83-1.23)
EVEREST	Everolimus vs. Placebo	1	1545	RFS	No	pT1bG3-4N0, pT2-4N1	0.85 (95% 0.72-1.00)

Toxizität

The NEW ENGLAND JOURNAL *of* MEDICINE

ESTABLISHED IN 1812

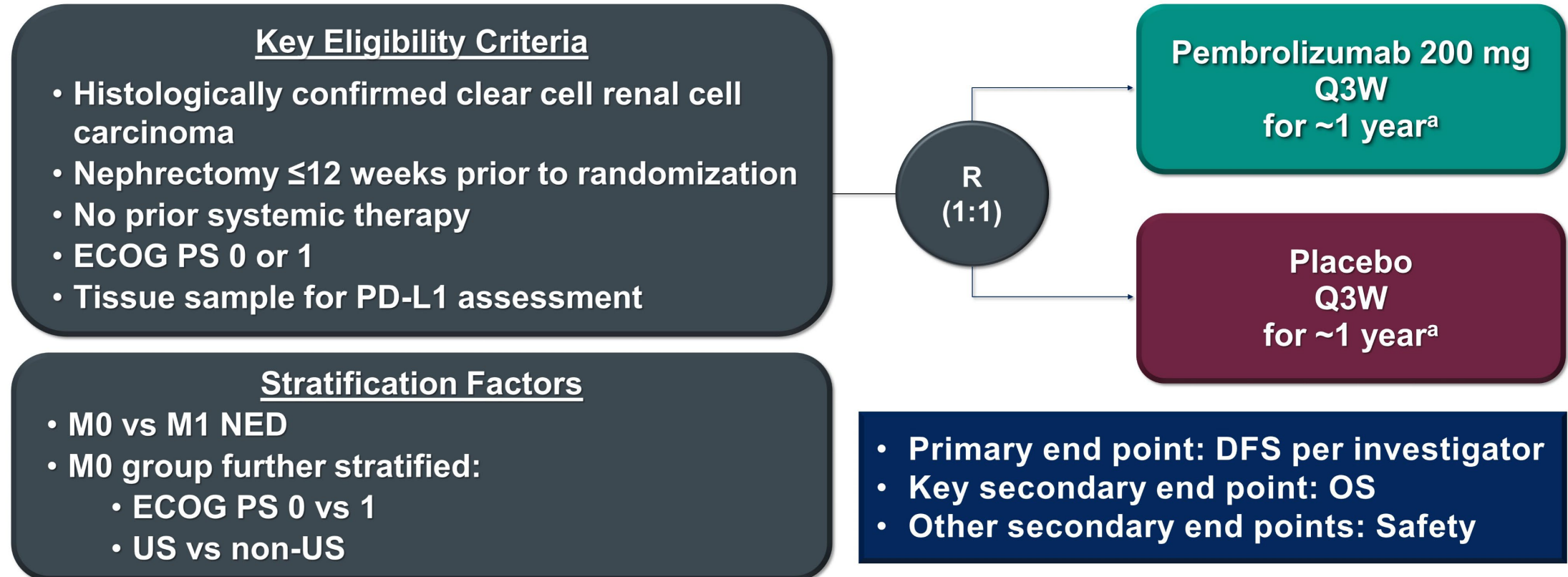
AUGUST 19, 2021

VOL. 385 NO. 8

Adjuvant Pembrolizumab after Nephrectomy in Renal-Cell Carcinoma

T.K. Choueiri, P. Tomczak, S.H. Park, B. Venugopal, T. Ferguson, Y.-H. Chang, J. Hajek, S.N. Symeonides, J.L. Lee, N. Sarwar, A. Thiery-Vuillemin, M. Gross-Goupil, M. Mahave, N.B. Haas, P. Sawrycki, H. Gurney, C. Chevreau, B. Melichar, E. Kopyltsov, A. Alva, J.M. Burke, G. Doshi, D. Topart, S. Oudard, H. Hammers, H. Kitamura, J. Bedke, R.F. Perini, P. Zhang, K. Imai, J. Willemann-Rogério, D.I. Quinn, and T. Powles, for the KEYNOTE-564 Investigators*

KEYNOTE-564 Study Design



DFS, disease-free survival; Q3W, every 3 weeks.
^a≤17 cycles of treatment were equivalent to ~1 year.

Keynote – 564, prespecified risk categories

Intermediate-High Risk		High Risk		M1 NED
→ pT2	pT3	→ pT4	Any pT	NED after resection of oligometastatic sites ≤1 year from nephrectomy
→ Grade 4 or sarcomatoid	Any grade	Any grade	Any grade	
N0	N0	N0	→ N+	
M0	M0	M0	M0	

Baseline Characteristics

Characteristic, n (%)	Pembro N = 496	Placebo N = 498	Characteristic, n (%)	Pembro N = 496	Placebo N = 498
Age, median (range), yrs	60 (27–81)	60 (25–84)	Geographic location		
Male	347 (70.0)	359 (72.1)	North America	113 (26.8)	125 (25.1)
ECOG PS			European Union	188 (37.9)	187 (37.6)
0	421 (84.9)	426 (85.5)	Rest of the world	175 (35.3)	186 (37.3)
1	75 (15.1)	72 (14.5)	PD-L1 status ^b		
Disease risk category			CPS <1	124 (25.0)	113 (22.7)
M0 intermediate-high risk	427 (86.1) ^a	433 (86.9)	CPS ≥1	365 (73.6)	383 (76.9)
M0 high risk	40 (8.1)	36 (7.2)	Missing	7 (1.4)	2 (0.4)
M1 NED	29 (5.8)	29 (5.8)	Sarcomatoid features		
			Present	52 (10.5)	59 (11.8)
			Absent	417 (84.1)	415 (83.3)
			Unknown	27 (5.4)	24 (4.8)

Intermediate-high risk: pT2, grade 4 or sarcomatoid, N0 M0; or pT3, any grade, N0 M0

High risk: pT4, any grade, N0 M0; or pT any stage, any grade, N+ M0

M1 NED: No evidence of disease after primary tumor + soft tissue metastases completely resected ≤1 year from nephrectomy

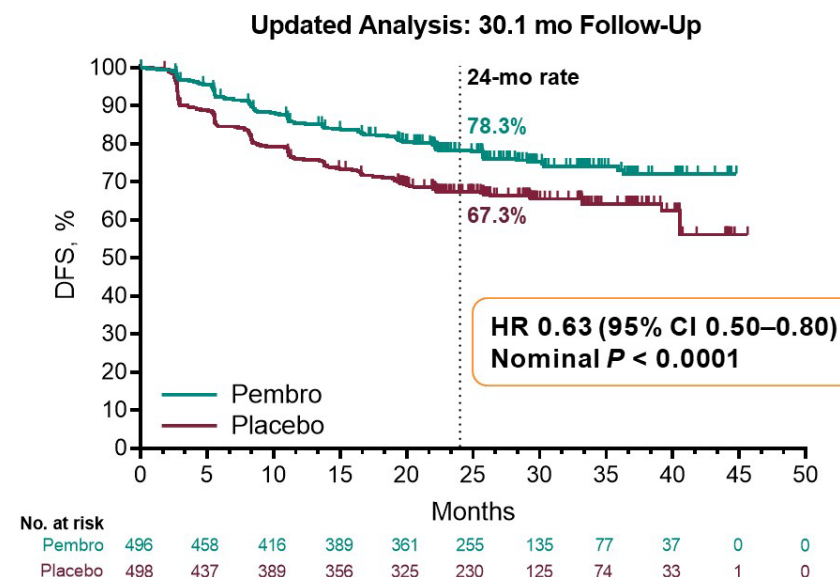
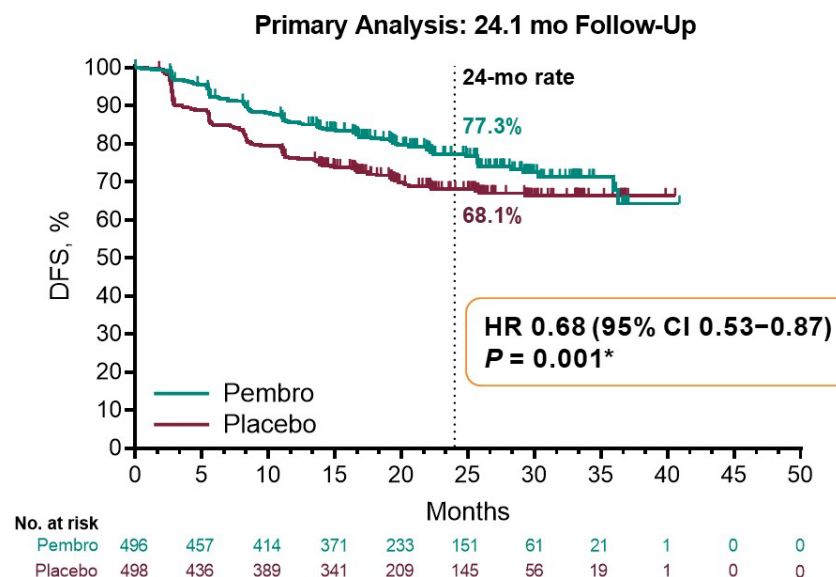
^aIncluded 5 participants with T2, grade ≤3, N0 M0 or T1 N0 M0. ^bAssessed using the PD-L1 IHC 22C3 pharmDx assay. CPS (combined positive score) is the number of PD-L1–staining cells (tumor cells, lymphocytes, and macrophages) divided by the total number of viable tumor cells, multiplied by 100. Data cutoff date: December 14, 2020.

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

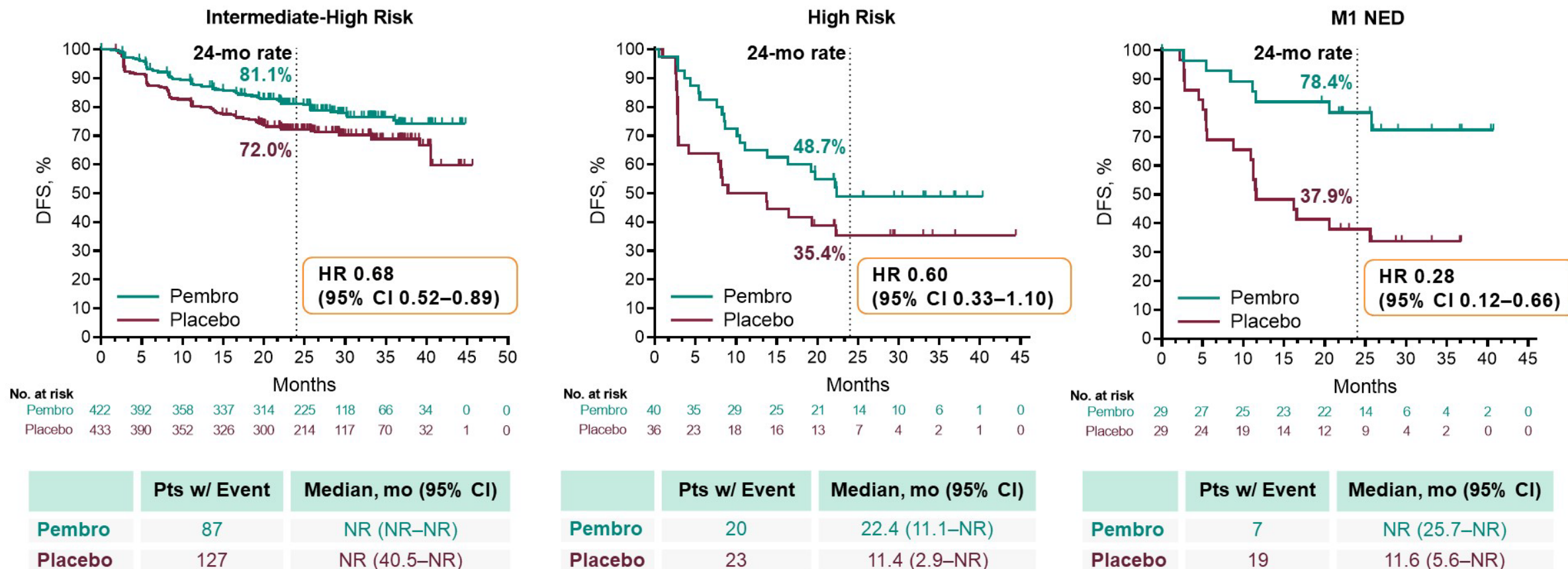
Toni K. Choueiri¹; Piotr Tomczak²; Se Hoon Park³; Balaji Venugopal⁴; Thomas Ferguson⁵; Stefan Symeonides⁶; Jaroslav Hajek⁷; Yen-Hwa Chang⁸; Jae Lyun Lee⁹; Naveed Sarwar¹⁰; Antoine Thiery-Vuillemin¹¹; Marine Gross-Goupil¹²; Mauricio Mahave¹³; Naomi Haas¹⁴; Piotr Sawrycki¹⁵; Lei Xu¹⁶; Joseph E. Burgents¹⁶; 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; ³Seoul National University Cancer Center, Seoul, South Korea; ⁴Beatson West of Scotland Cancer Centre, Glasgow, Scotland, UK; ⁵Edinburgh Cancer Centre and University of Edinburgh, Edinburgh, Scotland, UK; ⁶General Hospital, Taipei, Taiwan; ⁷Asan Medical Center, University of Ulsan, Seoul, South Korea; ⁸University Hospital Jean Minjoz, Besançon, France; ⁹Fundacion Arturo Lopez Perez FALP, Santiago, Chile; ¹⁰Abramson Cancer Center of the University of Pennsylvania, Philadelphia, PA, USA; ¹¹Rydygiera w Toruniu, Torun, Poland; ¹²Merck & Co., Inc., Kenilworth, NJ, USA; ¹³Royal Free Hospital NHS Trust, University College London, London, UK; ¹⁴University of Toronto, Toronto, Canada; ¹⁵University of Michigan, Ann Arbor, MI, USA; ¹⁶University of Colorado, Aurora, CO, USA; ¹⁷University of Oxford, Oxford, UK; ¹⁸University of Cambridge, Cambridge, UK

Primary Endpoint: DFS, ITT Population



DFS by Recurrence Risk Subgroups



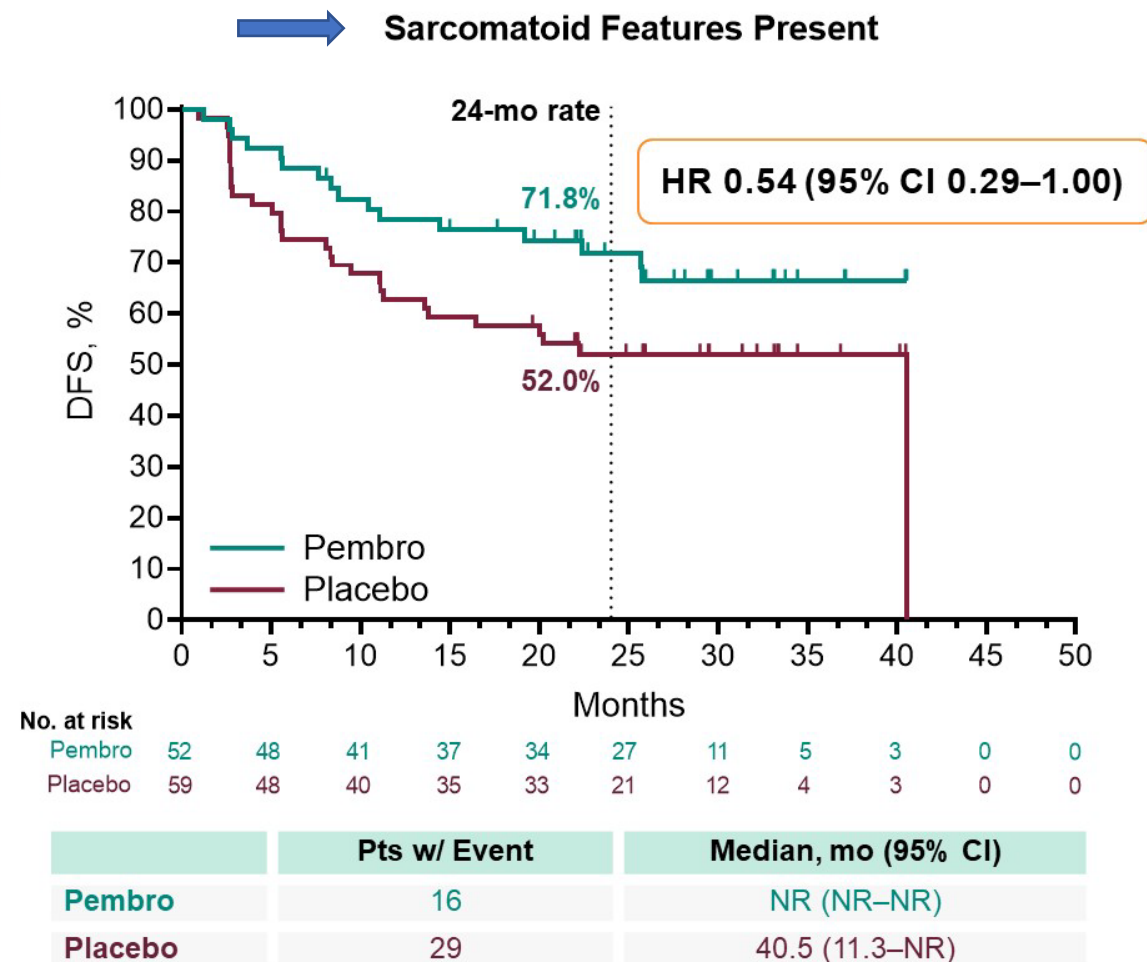
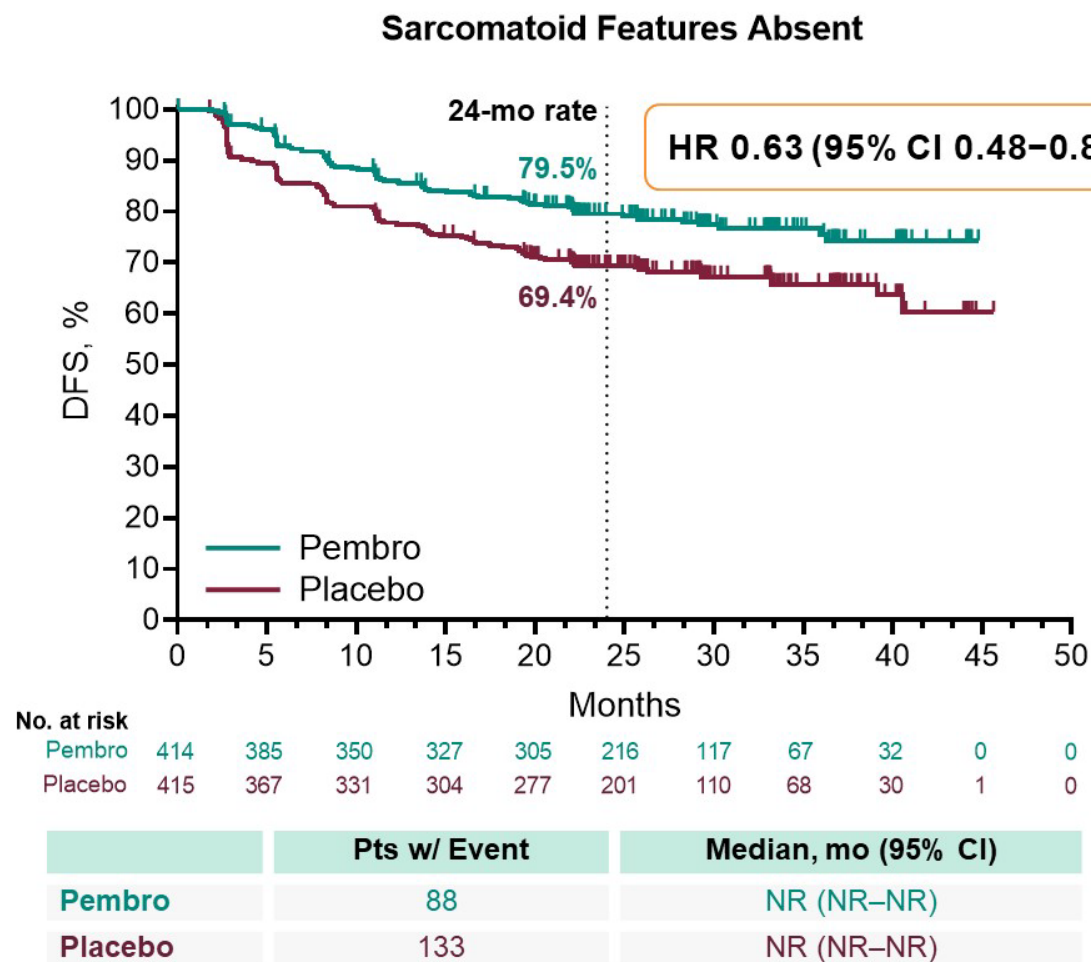
Intermediate-high risk: pT2, grade 4 or sarcomatoid, N0, M0; or pT3, any grade, N0, M0;

High risk: pT4, any grade, N0, M0; or pT any stage, any grade, N+, M0;

M1 NED: No evidence of disease after primary tumor + soft tissue metastases completely resected ≤1 year from nephrectomy.

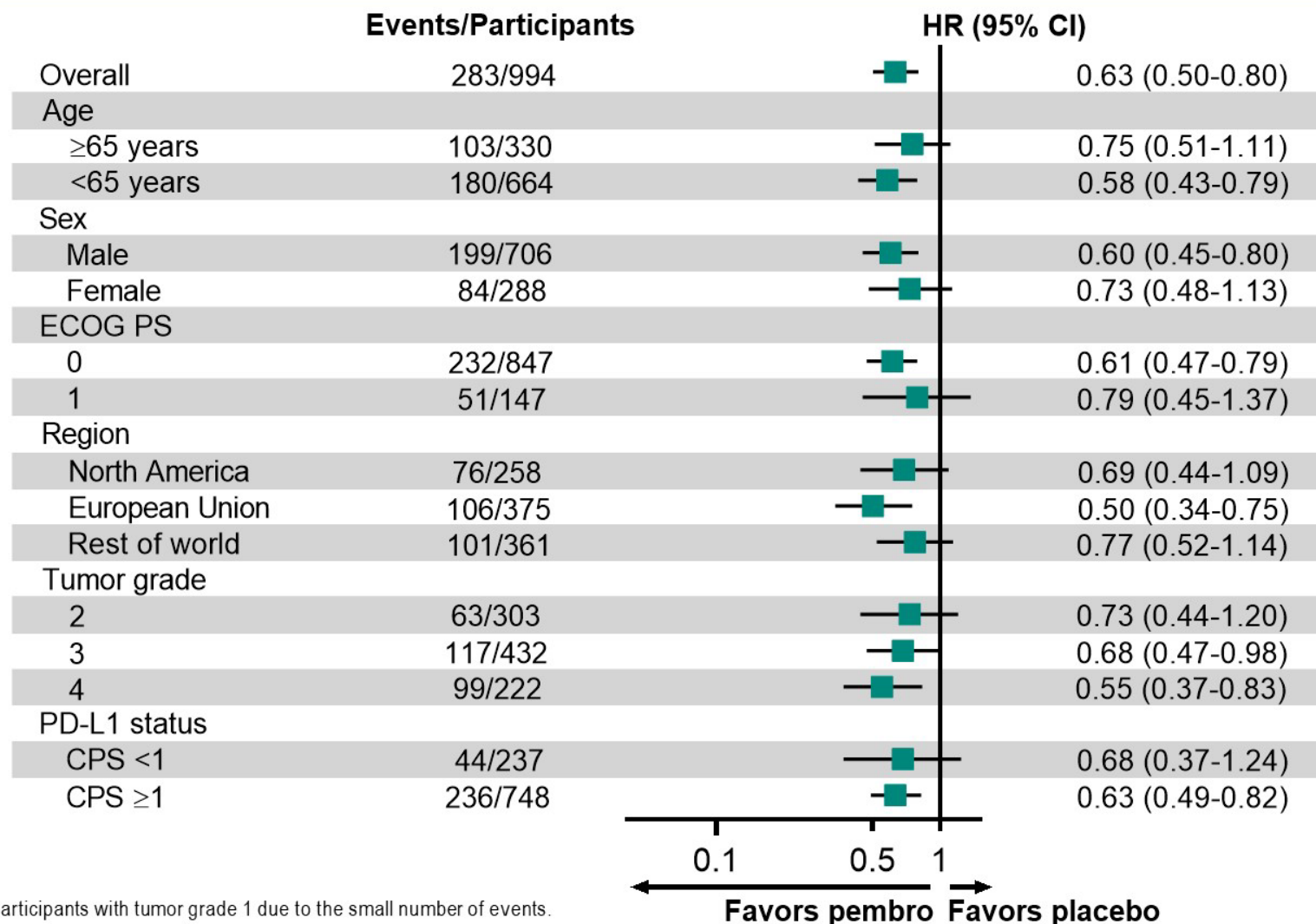
DFS, disease-free survival; NR, not reached. Data cutoff date: June 14, 2021.

DFS by Sarcomatoid Status Subgroups



DFS, disease-free survival; NR, not reached. Data cutoff date: June 14, 2021.

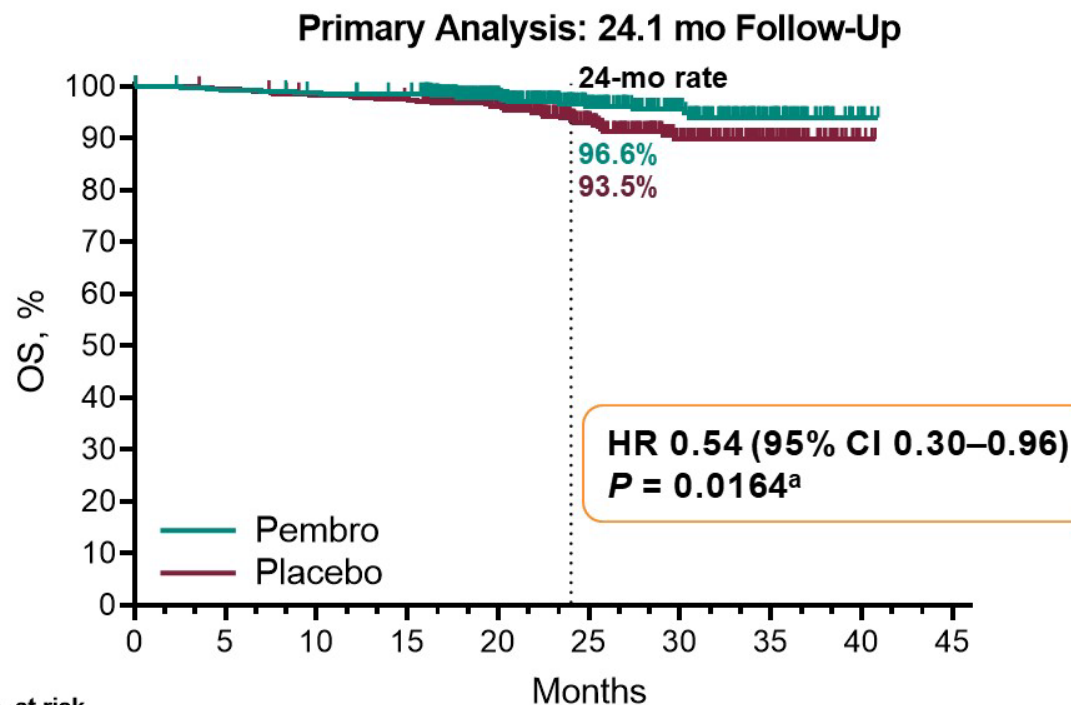
DFS in Key Subgroups



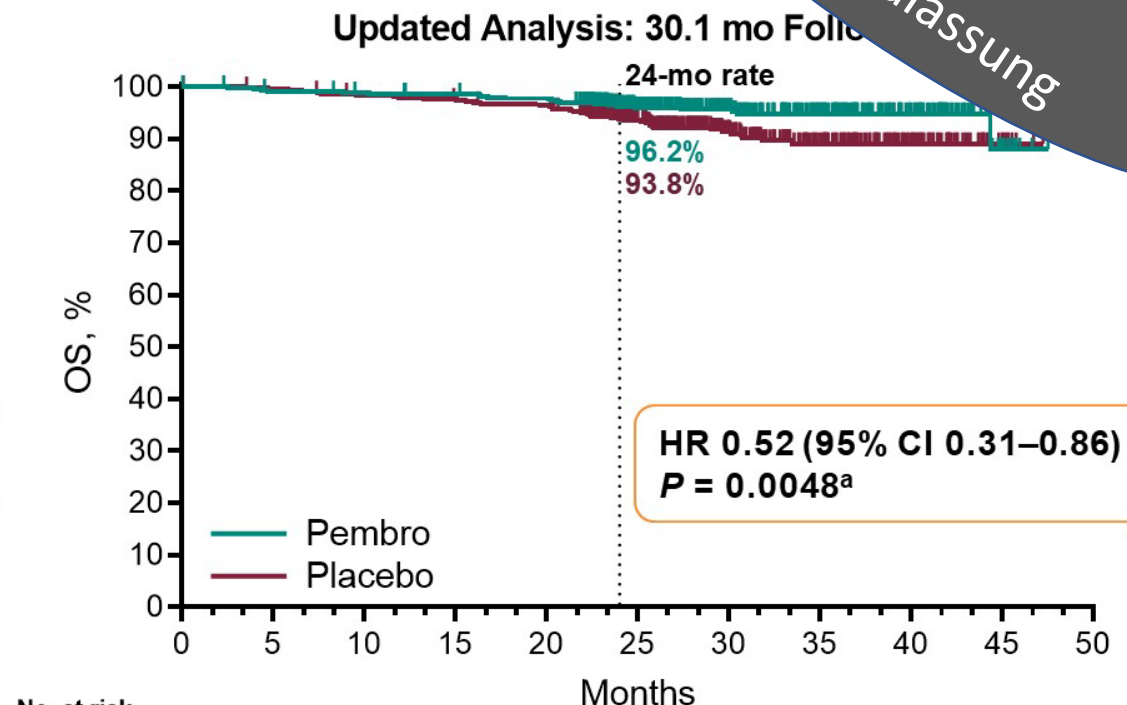
Subgroup analysis was not performed for participants with tumor grade 1 due to the small number of events.
DFS, disease-free survival. Data cutoff date: June 14, 2021.

Key Secondary Endpoint: OS, ITT Population

01/2022
EMA Zulassung



No. at risk		Months								
Pembro	496	490	486	482	338	215	124	51	3	0
Placebo	498	494	485	480	336	209	117	48	3	0



No. at risk											
Pembro	496	489	485	482	477	360	231	146	63	8	0
Placebo	498	494	486	481	474	352	219	138	61	9	0

	Pts w/ Event	Median, mo (95% CI)
Pembro	18	NR (NR–NR)
Placebo	33	NR (NR–NR)

	Pts w/ Event	Median, mo (95% CI)
Pembro	23	NR (NR–NR)
Placebo	43	NR (NR–NR)

^aDid not cross prespecified p-value boundary for statistical significance.

ITT population included all randomized participants. NR, not reached. Primary analysis data cutoff date: December 14, 2020. Updated analysis data cutoff date: June 14, 2021.

Summary of Safety Results, As-Treated Population

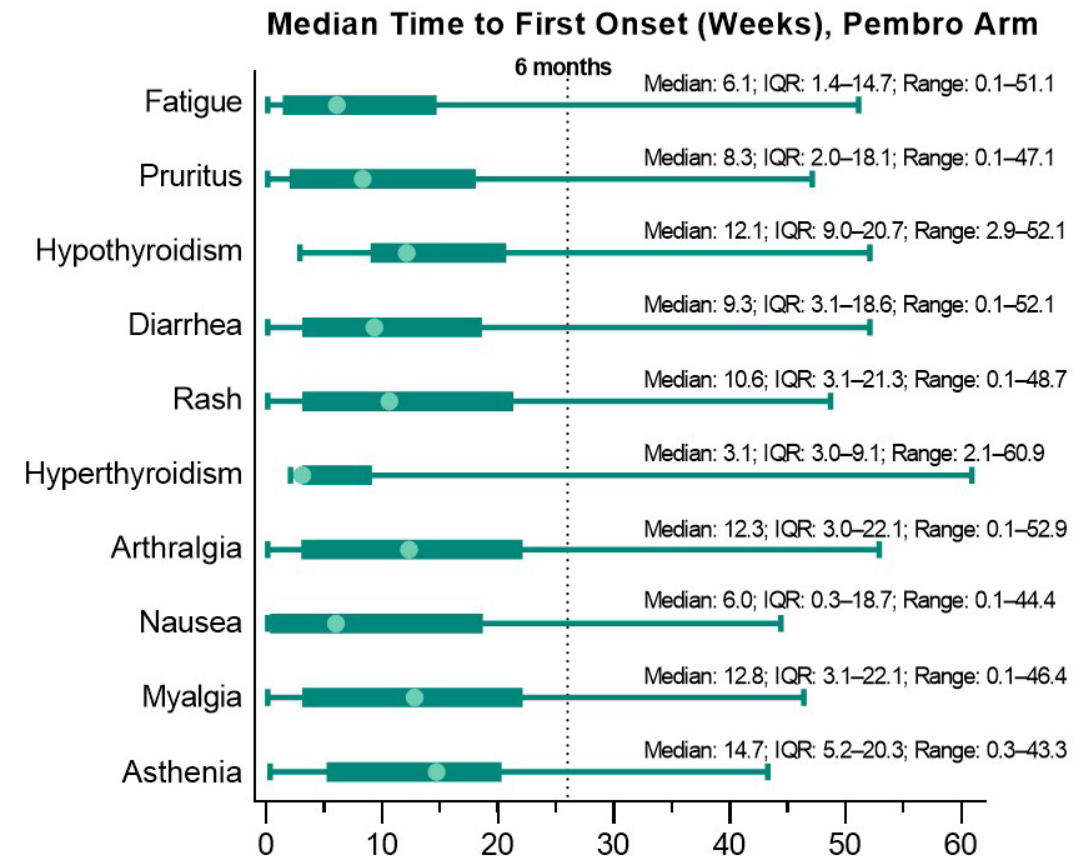
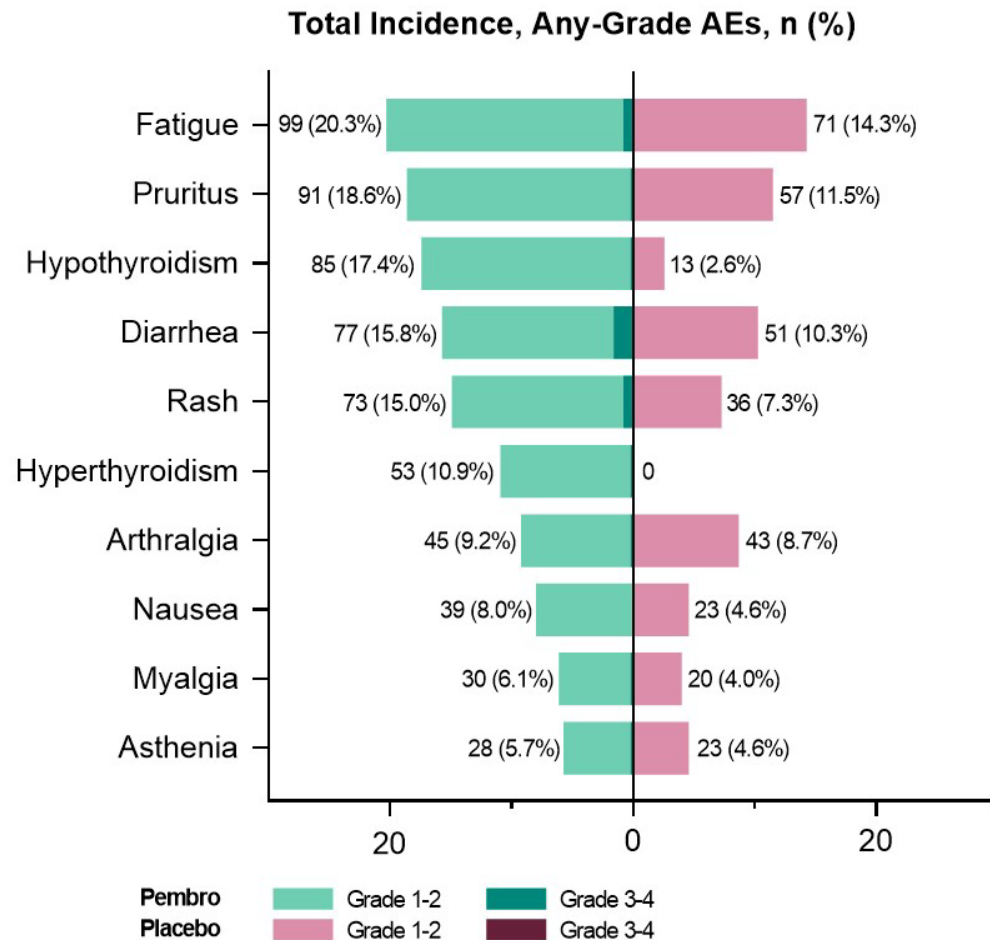
Participants with ≥1 AE, n (%)	Primary Analysis (24.1 mo)		Updated Analysis (30.1 mo)	
	Pembro Arm (N = 488)	Placebo Arm (N = 496)	Pembro Arm (N = 488)	Placebo Arm (N = 496)
→ All-cause AEs	470 (96.3%)	452 (91.1%)	470 (96.3%)	453 (91.3%)
Grade 3–5	158 (32.4%)	88 (17.7%)	157 (32.2%)	88 (17.7%)
Led to 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.

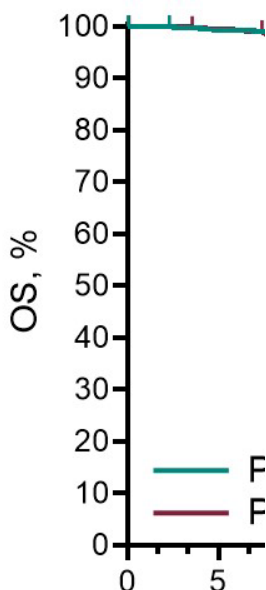
Treatment-Related AEs with Incidence $\geq 5\%$, As-Treated Population



AE, adverse event.

As-treated population included all participants who received ≥ 1 dose of study treatment. Data cutoff date: June 14, 2021.

Key Se MERCK



No. at risk		
Pembro	496	490
Placebo	498	494

	P
Pembro	
Placebo	

November 1, 2023 6:30 am ET

KEYTRUDA is the first therapy to show a statistically significant improvement in OS as adjuvant therapy in patients with RCC at a higher risk of recurrence following nephrectomy

New OS results build on the significant disease-free survival benefit previously reported from the KEYNOTE-564 trial

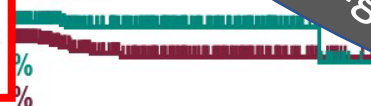
RAHWAY, N.J.--(BUSINESS WIRE)-- Merck (NYSE: MRK), known as MSD outside of the United States and Canada, today announced that the Phase 3 KEYNOTE-564 trial evaluating KEYTRUDA, Merck's anti-PD-1 therapy, met its key secondary endpoint of overall survival (OS), for the adjuvant treatment of patients with renal cell carcinoma (RCC) at intermediate-high or high risk of recurrence following nephrectomy, or following nephrectomy and resection of metastatic lesions. At a pre-specified interim analysis review conducted by an independent Data Monitoring Committee, KEYTRUDA demonstrated a statistically significant and clinically meaningful improvement in OS compared to placebo. The safety profile of KEYTRUDA was consistent with that observed in previously reported studies; no new safety signals were observed. Results will be presented at an upcoming medical meeting and submitted to regulatory authorities. This is the second study of KEYTRUDA in an earlier stage of cancer to demonstrate an overall survival benefit, following the recent presentation of OS data in earlier stages (stages II, IIIA or IIIB) of non-small cell lung cancer from KEYNOTE-671 at the European Society for Medical Oncology (ESMO) Congress 2023.

"As we continue to evaluate the potential of KEYTRUDA in earlier stages of disease across multiple types of cancer, we hope to reduce disease recurrence and ultimately, improve overall survival outcomes," said Dr. Marjorie Green, senior vice president and head of late-stage oncology, global clinical development, Merck Research Laboratories.

"These new results from KEYNOTE-564 are notable and mark the first time a therapy has demonstrated a statistically significant survival benefit compared to placebo in patients with RCC at a higher risk of recurrence following surgery, building on the positive disease-free survival findings from this study that led to approvals around the world for this KEYTRUDA-based regimen."

As previously reported, at an earlier pre-specified interim analysis with a median follow-up of 23.9 months, KEYNOTE-564 met its primary endpoint of disease-free survival (DFS), reducing the risk of disease recurrence or death by 32% (HR=0.68 [95% CI, 0.53-0.87]; p=0.0010) compared to placebo. These DFS results, which were first presented at the

1 mo Follow-up rate



R 0.52 (95% CI 0.31–0.86)
p = 0.0048^a

	30	35	40	45	50
P					
231	146	63	8	0	
219	138	61	9	0	

Median, mo (95% CI)

NR (NR–NR)

NR (NR–NR)

^aDid not cross prespecified p-value

ITT population included all randomized participants. NR, not reached. Primary analysis data cutoff date: December 14, 2020. Updated analysis data cutoff date: June 14, 2021.

Aber...

Adjuvant nivolumab plus ipilimumab versus placebo for localized renal cell carcinoma at high risk of relapse after nephrectomy: results from the randomized, phase 3 CheckMate 914 trial

Robert J. Motzer,¹ Paul Russo,¹ Viktor Grünwald,² Yoshihiko Tomita,³ Bogdan Zurawski,⁴ Omi Parikh,⁵ Sebastiano Buti,⁶ Philippe Barthélémy,⁷ Jeffrey C. Goh,⁸ Dingwei Ye,⁹ Alejo Lingua,¹⁰ Jean-Baptiste Lattouf,¹¹ Bernard Escudier,¹² Saby George,¹³ Brian Shuch,¹⁴ Burcin Simsek,¹⁵ Julia Spiridigliozzi,¹⁵ Aleksander Chudnovsky,¹⁵ Axel Bex¹⁶

¹Memorial Sloan Kettering Cancer Center, New York, NY, USA; ²West-German Cancer Center Essen, University Hospital Essen, Essen, Germany; ³Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan; ⁴Prof. Franciszek Łukaszczyk Oncology Centre, Bydgoszcz, Poland; ⁵Hospital of Parma, University of Parma, Parma, Italy; ⁶Hospital, Herston, QLD, Australia; ⁷Fudan University; ⁸CHUM - Centre Hospitalier de l'Université de Montréal, r Center, Buffalo, NY, USA; ⁹University of California, ncer Institute, Amsterdam, the Netherlands

Study design (Part A)

N = 816

Key inclusion criteria¹

- Radical or partial nephrectomy with negative surgical margins
- Predominant clear cell histology, including sarcomatoid features
- Pathologic TNM staging:
 - pT2a, G3 or G4, N0 M0
 - pT2b, G any, N0 M0
 - pT3, G any, N0 M0
 - pT4, G any, N0 M0
 - pT any, G any, N1 M0
- No clinical/radiological evidence of residual disease or distant metastases after nephrectomy, confirmed by BICR
- ECOG performance status of 0-1

Stratification factors:

- Pathologic TNM staging^a
- Type of nephrectomy

Expected treatment duration of 24 weeks^b

NIVO 240 mg IV Q2W (× 12 doses)
+ IPI 1 mg/kg IV Q6W (× 4 doses)
N = 405

Placebo IV Q2W (× 12 doses)
+ Placebo IV Q6W (× 4 doses)
N = 411

Randomization > 4 weeks
but ≤ 12 weeks
after surgery

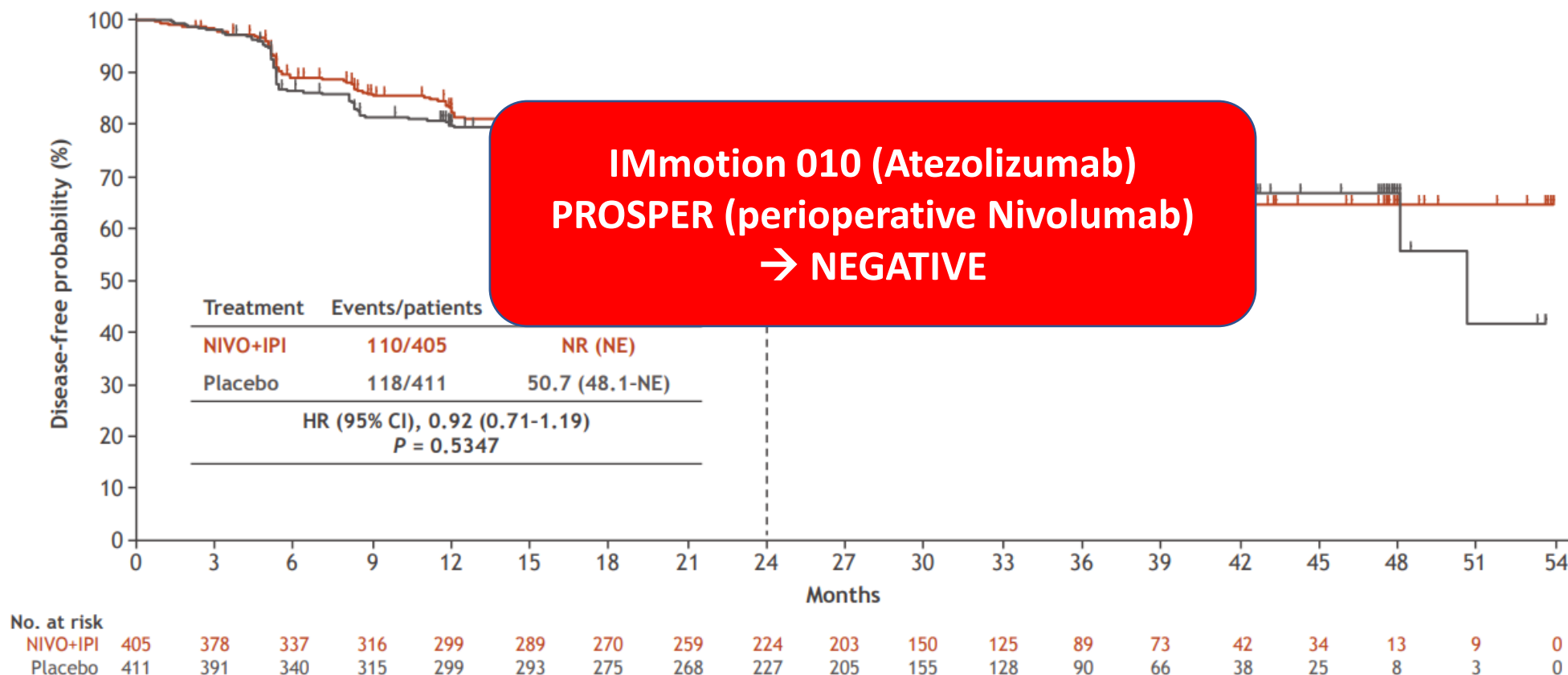
Primary endpoint: DFS by BICR

Secondary endpoints: OS and safety

DFS

CheckMate 91

Primary endpoint: disease-free survival per BICR



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).

Adjuvante Therapie, wo stehen wir aktuell?

- Eine positive (KN 564) und drei negative adjuvante Studien
- OS signifikant verlängert - positive Pressemitteilung 11/2023

Mögliche Ursachen für die negativen Studien:

- Substanzen (PD1 vs PD-L1), Studienpopulation (M1/M0)
- Unterschiedliche Studien-Design (PROSPER, perioperative setting)
- Mono Therapiearm (Arm B, Nivo mono) der CM 914 – negative Pressemitteilung
- Weiterhin fehlende Biomarker
- TOXIZITÄT!

Patientenfälle

Weiblich, 47a

St.p. **schmerzlose Makrohämaturie**, 11/2017

Sono Niere: 8,2-9,3cm RF mittleres/caudales Nierendrittel li

Keine Komorbiditäten, keine Dauermedikation



CT Staging

Thorax: Im rechten apicalen Oberlappen dorsal, subpleural gelegen findet sich eine **8 mm** große Verdichtung. Eine weitere ist im linken Unterlappen dorsal, subpleural gelegen mit **9 mm**.

Daneben finden sich **mehrere bis etwa 4 mm** im Querdurchmesser große Verdichtungen in beiden Lungen.

Abdomen:

9 cm großes Hypernephrom links mit pathologisch vergrößerten Lymphknoten im Nierenhilus und fraglicher Infiltration in den angrenzenden Dünndarmschlingen.

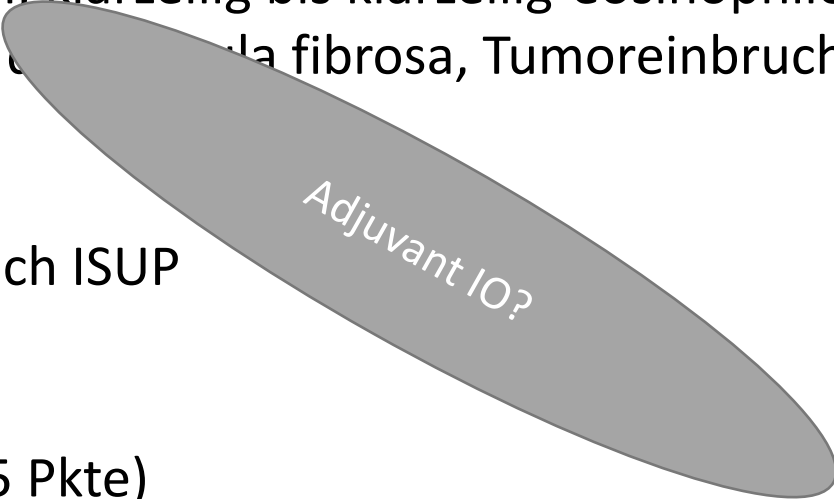
Unter Annahme eines RCC: rTNM: T4, N1, M1?

Weiblich, 47a

- **Transperitoneale Tumornephrektomie**, Mesenterialresektion und Lymphadenektomie am 05.12.2017 (Urologie, WSP); Histo: 9cm, klarzellig bis klarzellig-eosinophiles Nierenzellkarzinom, Durchbruch durch Capsula fibrosa, Tumoreinbruch in einen größeren Venenast

Stadium pT3a, L0, V2, pN0 (0/8), G3 nach ISUP

→ Leibovich Score: intermediate risk (5 Pkte)



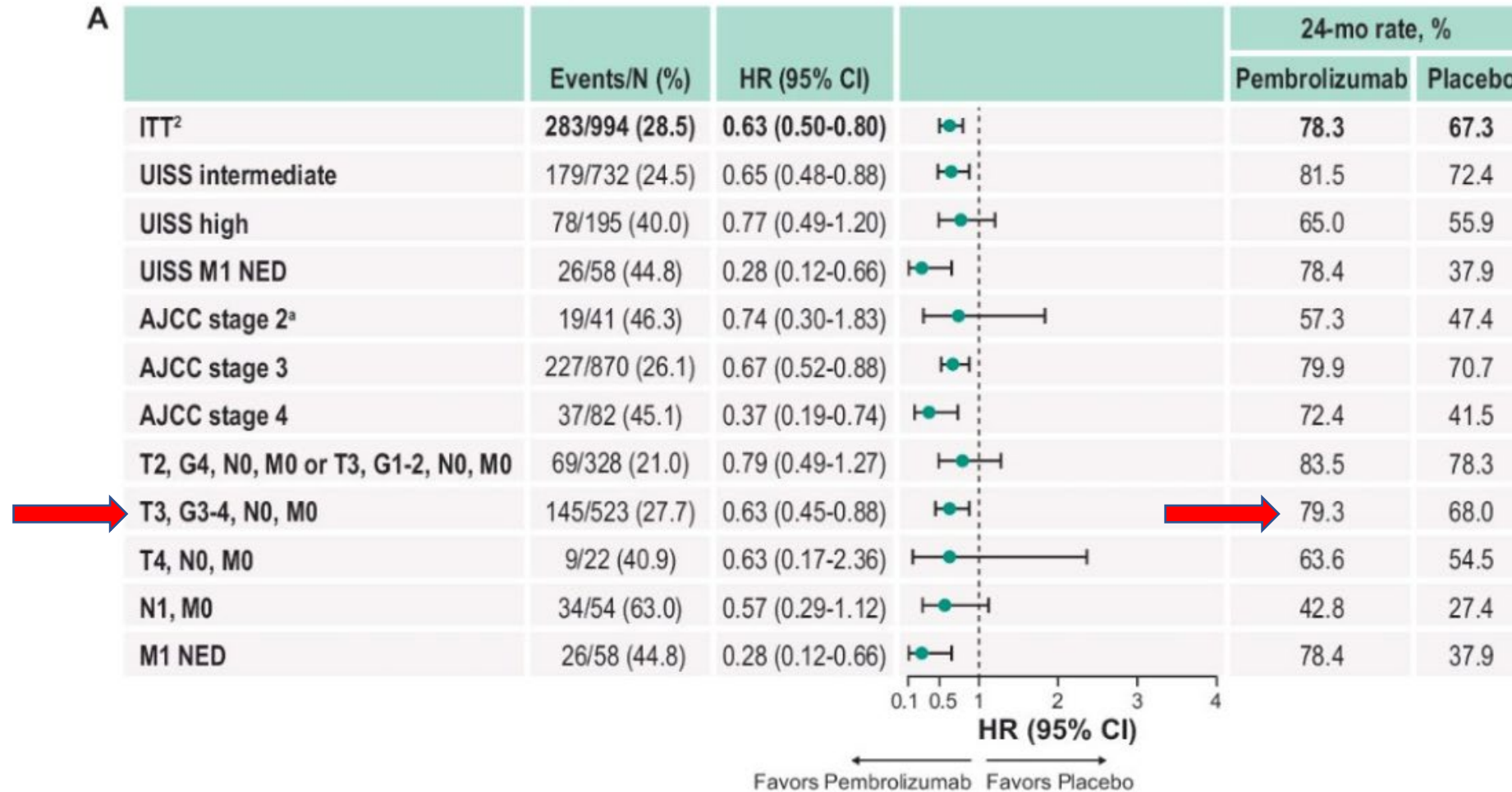
Adjuvant IO?

Keynote – 564, prespecified risk categories

Intermediate-High Risk		High Risk		M1 NED
pT2	 pT3	pT4	Any pT	NED after resection of oligometastatic sites ≤1 year from nephrectomy
Grade 4 or sarcomatoid	Any grade	Any grade	Any grade	
N0	N0	N0	N+	
M0	M0	M0	M0	

Keynote - 564, DFS subgroups

The forest plot below demonstrates subgroup analysis of DFS:



Adjuvante Therapie

- **Nivolumab/Ipilimumab adjuvant 01-09/2018** (CA209-914 Studie); vorzeitiger Abbruch nach 9/12 Zyklen bei Nachweis einer Lebermetastase
- CT-Thorax/Abdomen am 24.07.2018: neu aufgetretene 5,9 x 4,8 cm haltende Herdläsion im linken Leberlappen/Segment 3, dringend SBL-verdächtig; zu 4/2018 größenkonstante pulmonale RH

→ **laparoskopisch assistierte atypische Leberresektion** der Segmente II+III am **10.09.2018**;
Histologie: Metastase des bekannten Nierenzellkarzinom

CT-Thorax/Abdomen am 29.01.2019: pulmonale Herde konstant, Leber frei

Adjuvant nivolumab plus ipilimumab versus placebo for localized renal cell carcinoma at high risk of relapse after nephrectomy: results from the randomized, phase 3 CheckMate 914 trial

Robert J. Motzer,¹ Paul Russo,¹ Viktor Grünwald,² Yoshihiko Tomita,³ Bogdan Zurawski,⁴ Omi Parikh,⁵ Sebastiano Buti,⁶ Philippe Barthélémy,⁷ Jeffrey C. Goh,⁸ Dingwei Ye,⁹ Alejo Lingua,¹⁰ Jean-Baptiste Lattouf,¹¹ Bernard Escudier,¹² Saby George,¹³ Brian Shuch,¹⁴ Burcin Simsek,¹⁵ Julia Spiridigliozzi,¹⁵ Aleksander Chudnovsky,¹⁵ Axel Bex¹⁶

¹Memorial Sloan Kettering Cancer Center, New York, NY, USA; ²West-Niigata University Graduate School of Medical and Dental Sciences, ³Rosemere Cancer Centre, Lancashire Teaching Hospitals NHS Trust, ⁴Institut de Cancérologie Strasbourg Europe, Strasbourg, France; ⁵Rx Shanghai Cancer Center, Shanghai, China; ⁶Instituto Médico Río Cua Montreal, QC, Canada; ⁷Gustave Roussy, Villejuif, France; ⁸Roswell Los Angeles, Los Angeles, CA, USA; ⁹Bristol Myers Squibb, Princeton

Study design (Part A)

N = 816

Key inclusion criteria¹

- Radical or partial nephrectomy with negative surgical margins
- Predominant clear cell histology, including sarcomatoid features
- Pathologic TNM staging:
 - pT2a, G3 or G4, N0 M0
 - pT2b, G any, N0 M0
 - pT3, G any, N0 M0
 - pT4, G any, N0 M0
 - pT any, G any, N1 M0
- No clinical/radiological evidence of residual disease or distant metastases after nephrectomy, confirmed by BICR
- ECOG performance status of 0-1

Stratification factors:

- Pathologic TNM staging^a
- Type of nephrectomy

Expected treatment duration of 24 weeks^b

NIVO 240 mg IV Q2W (× 12 doses)
+ IPI 1 mg/kg IV Q6W (× 4 doses)
N = 405

Placebo IV Q2W (× 12 doses)
+ Placebo IV Q6W (× 4 doses)
N = 411

R
1:1

Randomization > 4 weeks
but ≤ 12 weeks
after surgery

Primary endpoint: DFS by BICR

Secondary endpoints: OS and safety

Presentation number: LBA4

Männlich, 80a

- Linksseitige Raumforderung
Tumornephrektomie mit LA 2/2022
- Histologie: ccRCC mit Infiltration ins perinephrische Fettgewebe, Nebennierenmetastase und ein Lymphknotenmetastase
TNM: **pT3a, L1, V0, pN1 (1/1), pM1; G3 (Fuhrman)**
- Leibovich Score (7): high risk
- **Komorbiditäten:**
St.p. TIA 07/21, ACI-stenosis dext.
Hyperlipidämie, KHK
Presbyakusis, St.p. Cholesteatoma bds., **ECOG 0**

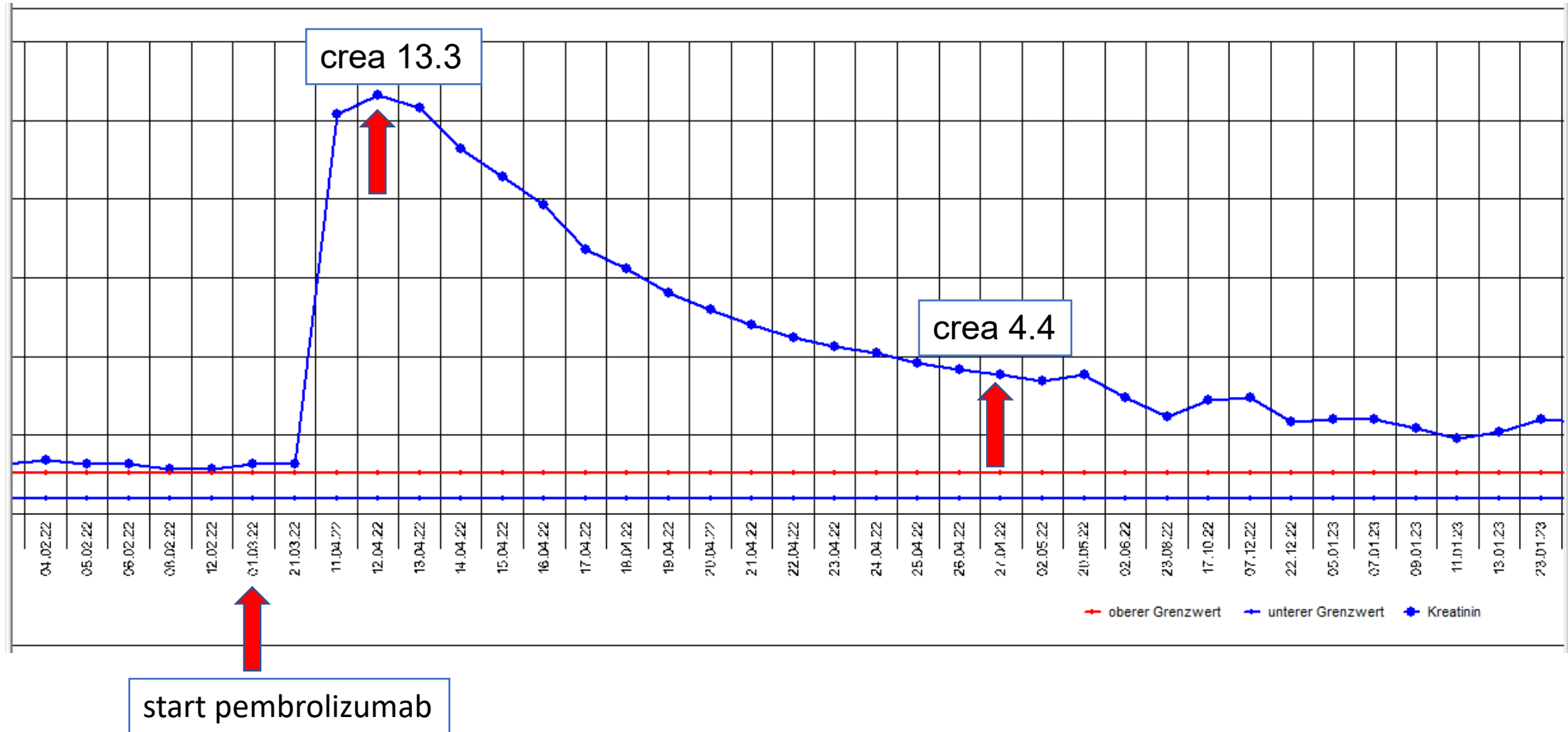


Adjuvant IO?

Keynote – 564, prespecified risk categories

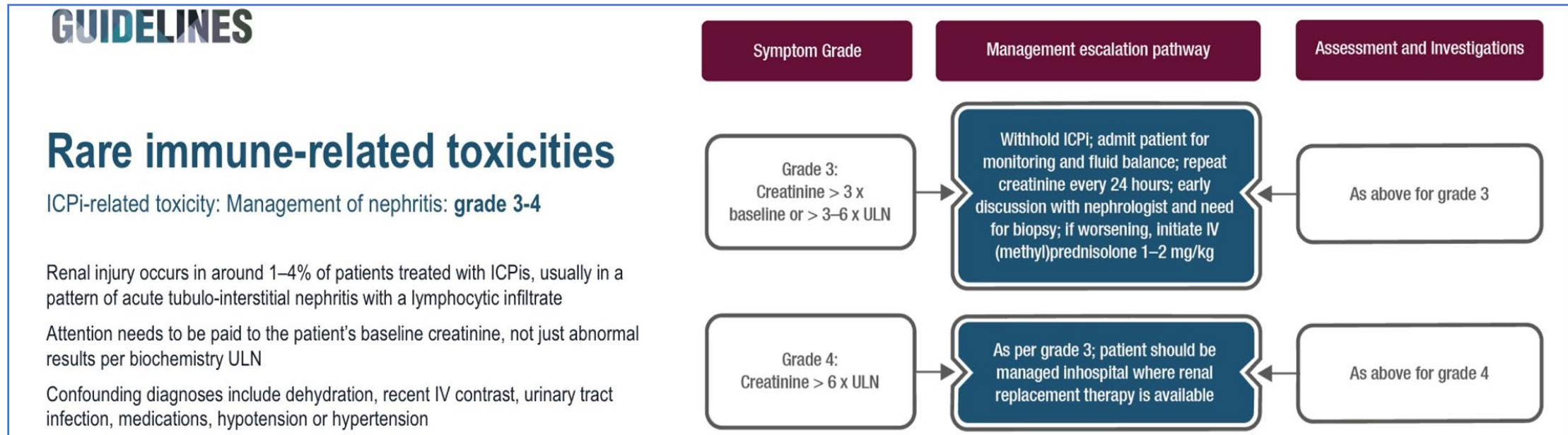
Intermediate-High Risk		High Risk		M1 NED
pT2	pT3	pT4	Any pT	NED after resection of oligometastatic sites ≤ 1 year from nephrectomy
Grade 4 or sarcomatoid	Any grade	Any grade	Any grade	
N0	N0	N0	N+	
M0	M0	M0	M0	

ANV nach 2 Zyklen



IO assoziierte Nephritis, Grad IV

- **12.4.: acute renal failure: crea 13.3, BUN 123,**
vBGA: pH 7.279, potassium 4.6, BE-5
- Urology consultation: no postrenal cause
- No nephritic sediment, autoimmune serology neg, reduced C3c (complement factor)
- Therapy: prednisolon 1mg/kg, Crea declined to 4.4, BUN 96

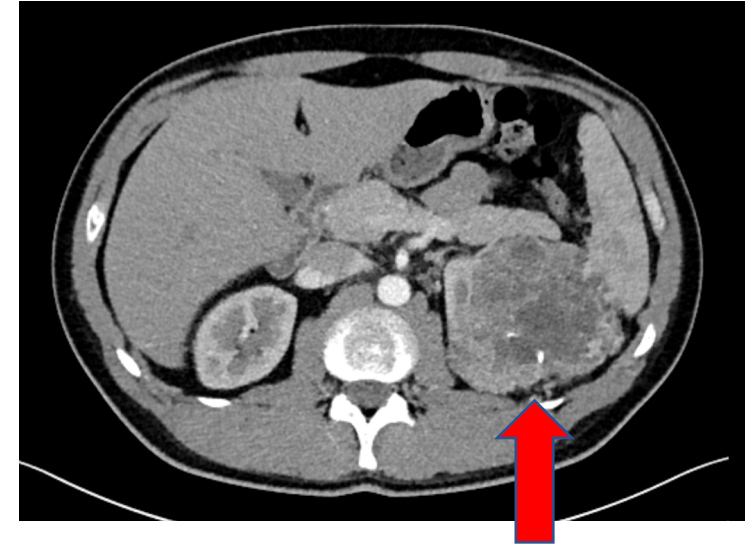


Männlich, 42a

- Tumor linke Niere, kranial (7,5 x 8 x 7,5 cm)
- CT: keine weiteren Läsionen
- 3/2023: Nephrektomie und LA
- Histologie: ccRCC mit Infiltration ins perirenale Fettgewebe, G1 (Fuhrman).
- TNM: **pT3a, pN0 (0/6), L0, V0, Pn0.**
- Leibovich Score: 4 , intermediate risk
- Komorbiditäten: keine, ECOG 0

Adjuvant IO?

G1



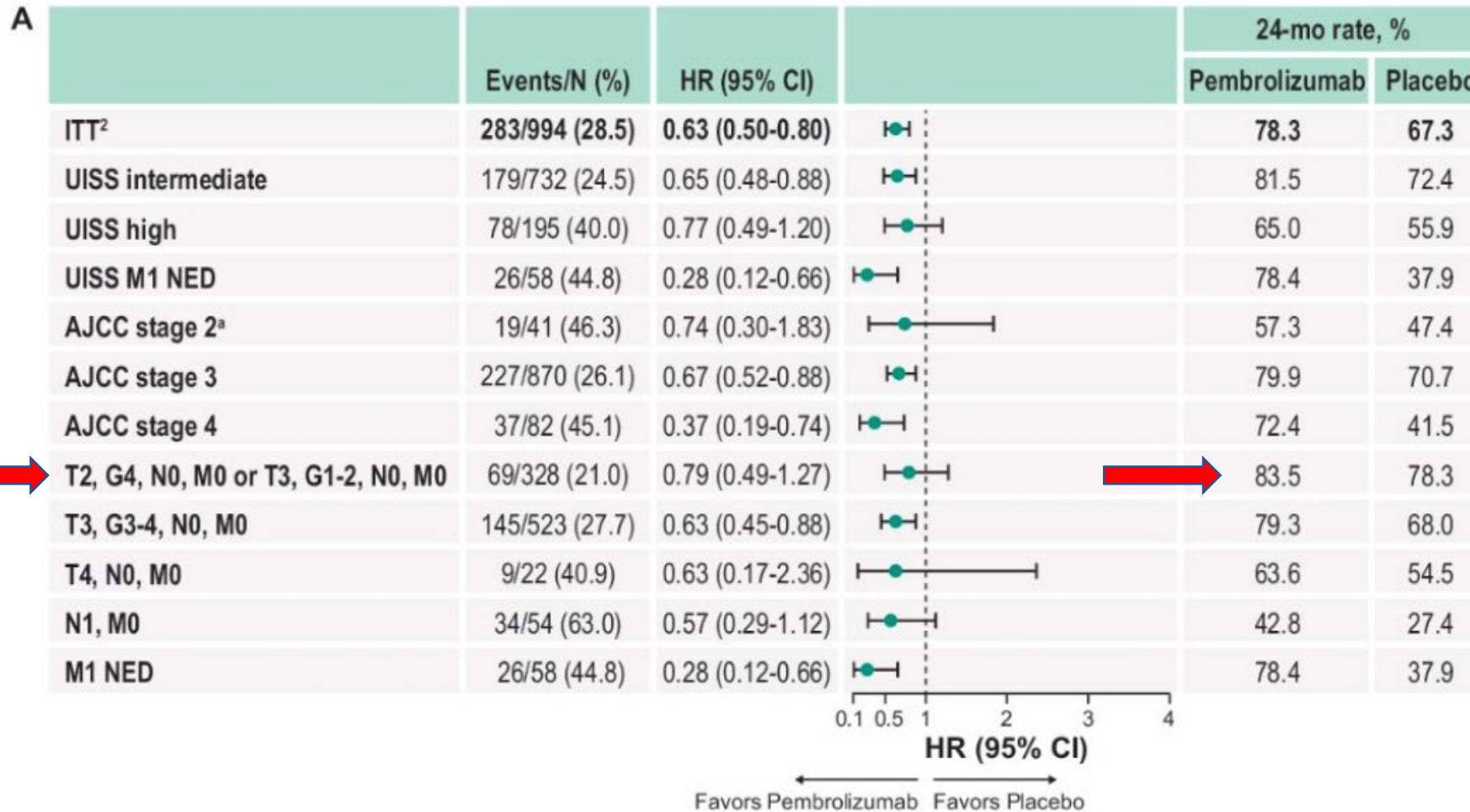
Keynote- 564, prespecified risk categories

Intermediate-High Risk		High Risk		M1 NED
pT2	pT3	pT4	Any pT	NED after resection of oligometastatic sites ≤ 1 year from nephrectomy
Grade 4 or sarcomatoid	Any grade	Any grade	Any grade	
N0	N0	N0	N+	
M0	M0	M0	M0	

Keynote - 564, DFS subgroups

The forest plot below demonstrates subgroup analysis of DFS:

NO adjuvant IO



Zusammenfassung

- Positive Phase III Studie mit Pembrolizumab mit signifikantem Benefit im DFS und OS
- Sorgfältige Patientenselektion vor adjuvanter IO-Therapie!
- Toxizität, akut aber auch verzögert, nicht unterschätzen

dora.niedersuess-beke@gesundheitsverbund.at



1. MEDIZINISCHE ABTEILUNG
Zentrum für Onkologie und Hämatologie
mit Ambulanz und Palliativstation

WCRI Wilhelminen
Cancer Research
Institute

VCC Vienna Cancer Center

 Wiener Gesundheitsverbund
Klinik Ottakring

 Für die
Stadt Wien