



Universitätsklinikum
Brandenburg an der Havel



Neue medikamentöse Therapieoptionen in der Uro-Onkologie

Univ.-Prof. Dr. med. Hendrik Borgmann

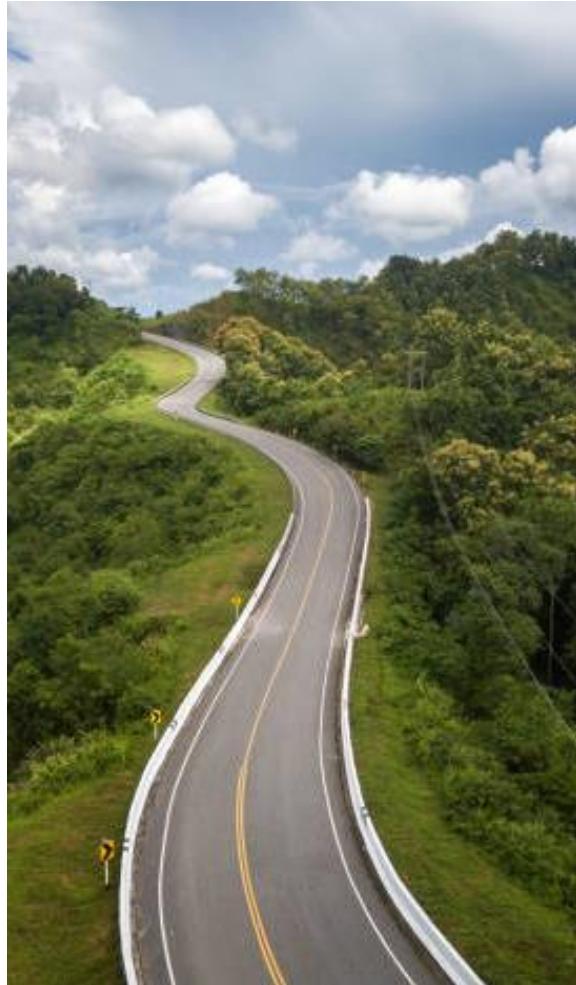


Darlegung potentieller Interessenkonflikte

Der Inhalt des folgenden Vortrages ist Ergebnis des Bemühens um größtmögliche Objektivität und Unabhängigkeit.

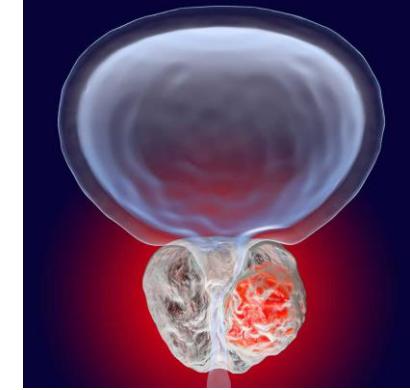
Als Referent versichere ich, dass in Bezug auf den Inhalt des folgenden Vortrags keine Interessenskonflikte bestehen, die sich aus einem Beschäftigungsverhältnis, einer Beratertätigkeit oder Zuwendungen für Forschungsvorhaben, Vorträge oder andere Tätigkeiten ergeben.

Roadmap



Prostatakarzinom

- mHSPC
- mCRPC



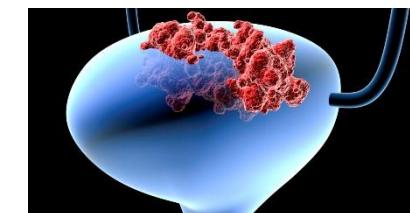
Nierenzellkarzinom

- Erst-Linie
- Adjuvant



Urothelkarzinom

- Adjuvant
- Dritt-Linie

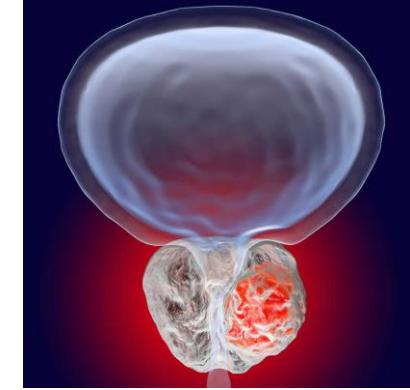


Roadmap



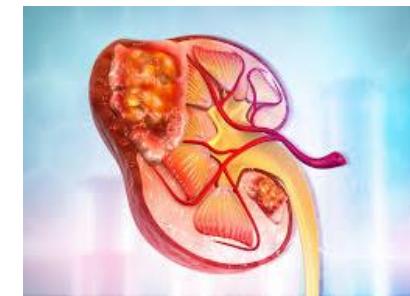
Prostatakarzinom

- mHSPC
- mCRPC



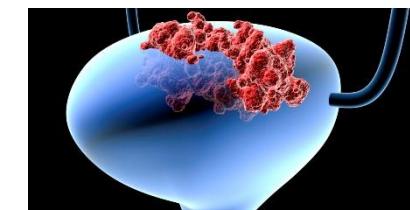
Nierenzellkarzinom

- Erst-Linie
- Adjuvanz



Urothelkarzinom

- Adjuvanz
- Dritt-Linie



Aktuelle Möglichkeiten der Kombinationstherapie bei mHSPC

ADT mono

ADT + Abi

*EMA-Zulassung
Oktober 2017*

ADT + Doc + Daro

mHSPC

*EMA-Zulassung
März 2023*

ADT + Enza

*EMA-Zulassung
April 2021*

ADT + Doc

*EMA-Zulassung
Dezember 2019*

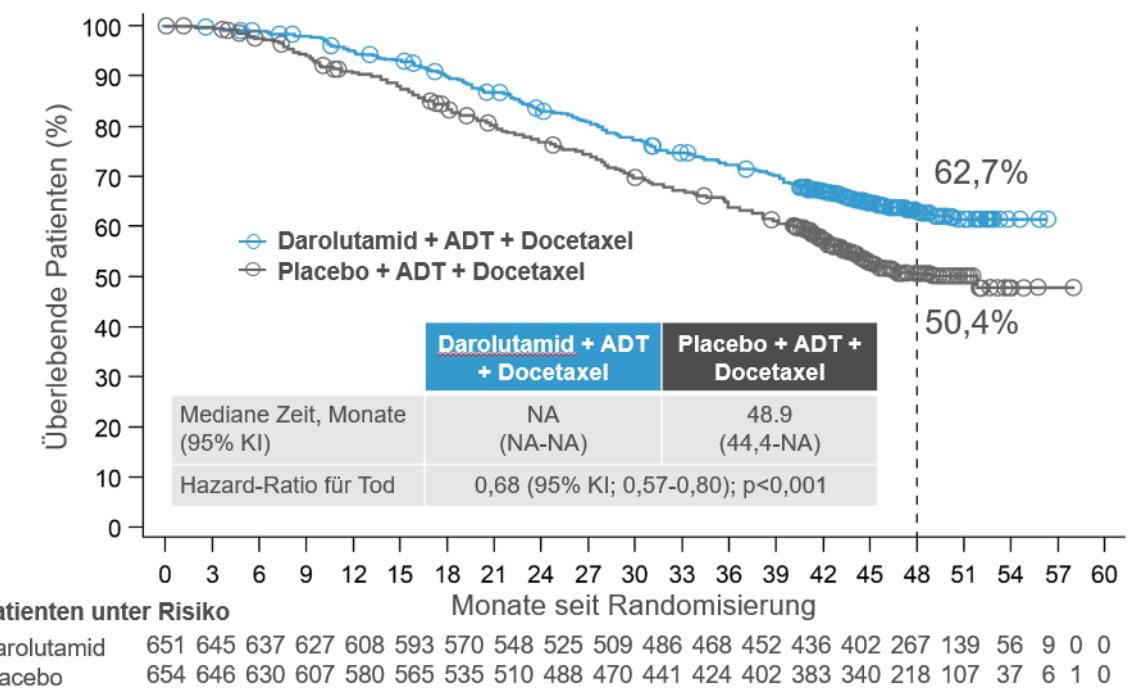
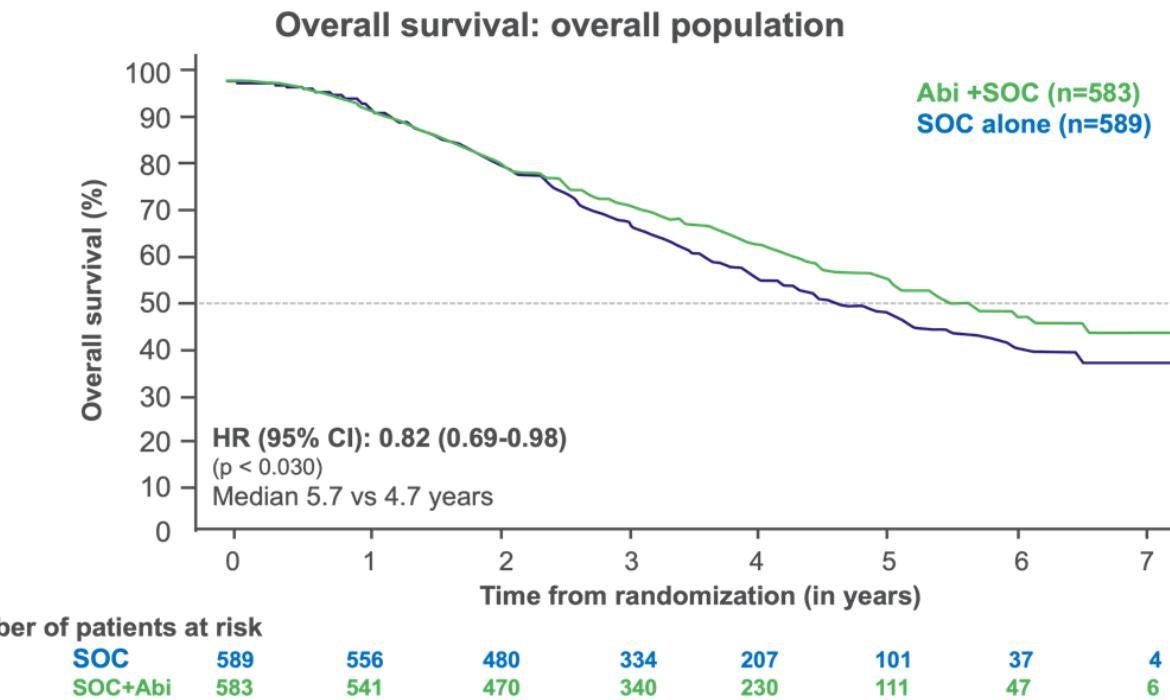
ADT + Apa

*EMA-Zulassung
Januar 2020*

Kommt nach der Doublette das Triplet?...



Peace-1 und ARASENS: Triple-Therapie (ADT + NHT + Doce) bei mHSPC



Kommt nach der Doublette das Triplet?...



... und ist das überhaupt besser?...

Meta-Analyse Triple-Therapie (n=5.804):

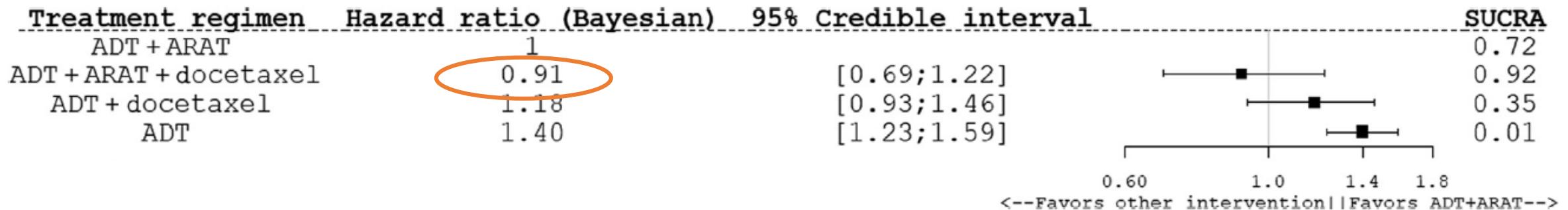
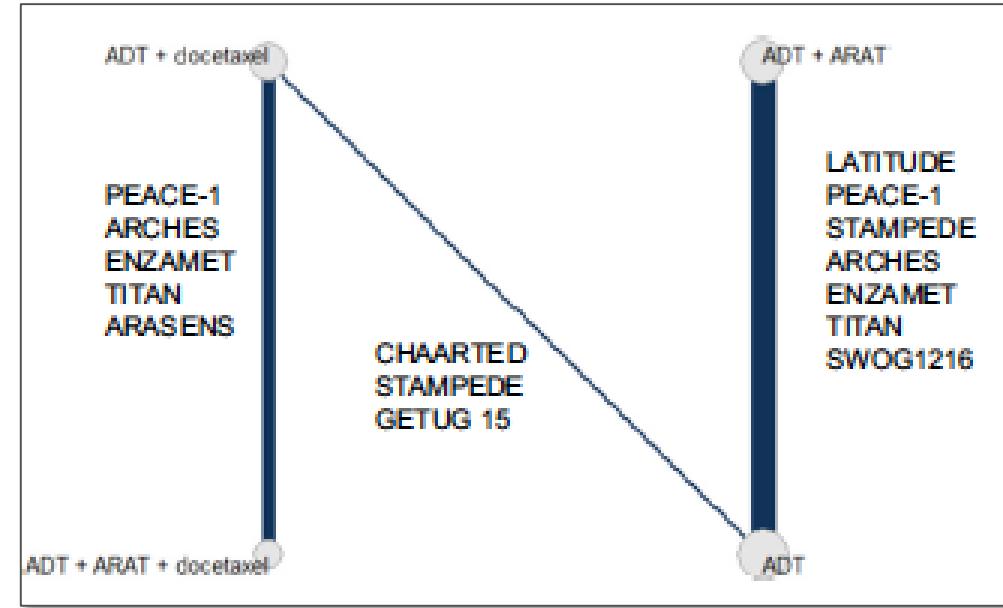
Einschluss von Daten aus TITAN, ARCHES, ENZAMET, PEACE-1 und ARASENS

Overall survival				
	ADT	DOC+ADT	NHT+ADT	NHT+DOC+ADT
ADT		0.79 (0.70-0.88)	0.61 (0.53-0.70)	0.59 (0.50-0.69)
DOC+ADT	1.27 (1.13-1.42)		0.77 (0.64-0.92)	0.74 (0.66-0.84)
NHT+ADT	1.65 (1.43-1.90)	1.30 (1.09-1.56)		0.97 (0.78-1.20)
NHT+DOC+ADT	1.70 (1.44-2.02)	1.35 (1.19-1.52)	1.03 (0.83-1.29)	

Radiographic progression free survival				
	ADT	DOC+ADT	NHT+ADT	NHT+DOC+ADT
ADT		0.67 (0.60-0.75)	0.40 (0.35-0.47)	0.33 (0.26-0.41)
DOC+ADT	1.49 (1.34-1.66)		0.60 (0.50-0.72)	0.49 (0.40-0.59)
NHT+ADT	2.48 (2.14-2.87)	1.66 (1.38-1.99)		0.81 (0.63-1.05)
NHT+DOC+ADT	3.03 (2.51-3.66)	2.03 (1.74-2.37)	1.23 (0.95-1.60)	

Meta-Analyse Triple-Therapie:

- Elf randomisierte, kontrollierte mHSPC-Studien
- **N=11.546 Patienten**
- Standard random-effects Network-Metanalyse und Bayesian-Analyse zum Vergleich ADT/NHA vs. Triple



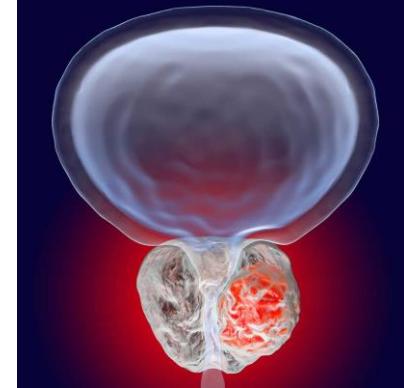


Roadmap



Prostatakarzinom

- mHSPC
- **mCRPC**



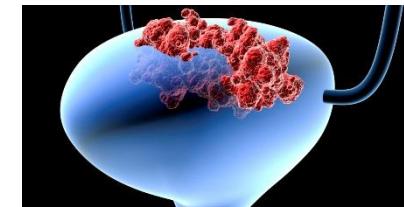
Nierenzellkarzinom

- Erst-Linie
- Adjuvantz

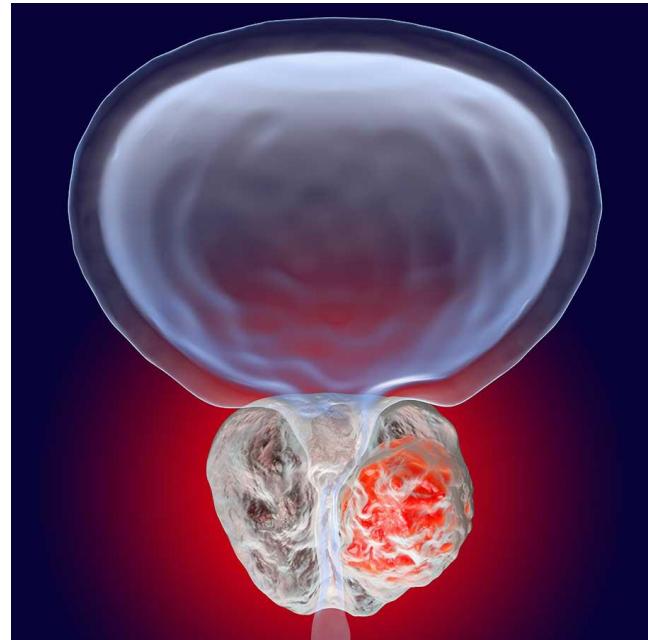


Urothelkarzinom

- Adjuvantz
- Dritt-Linie

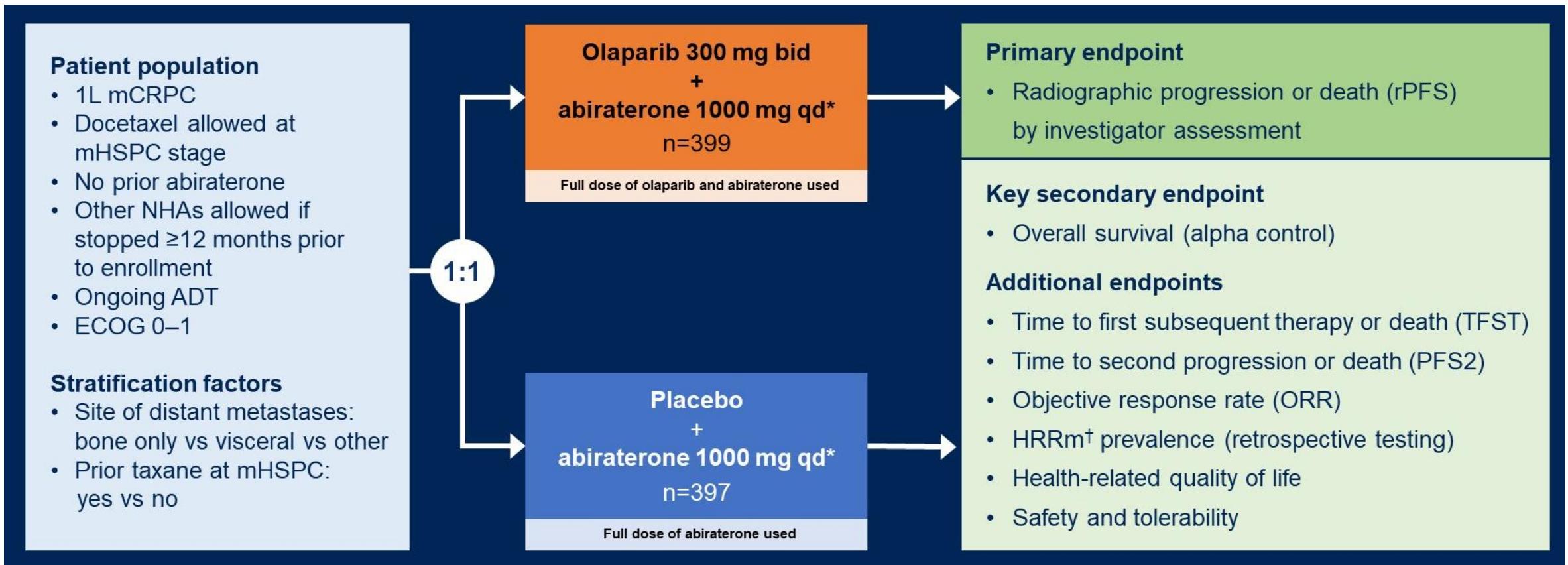


mCRPC

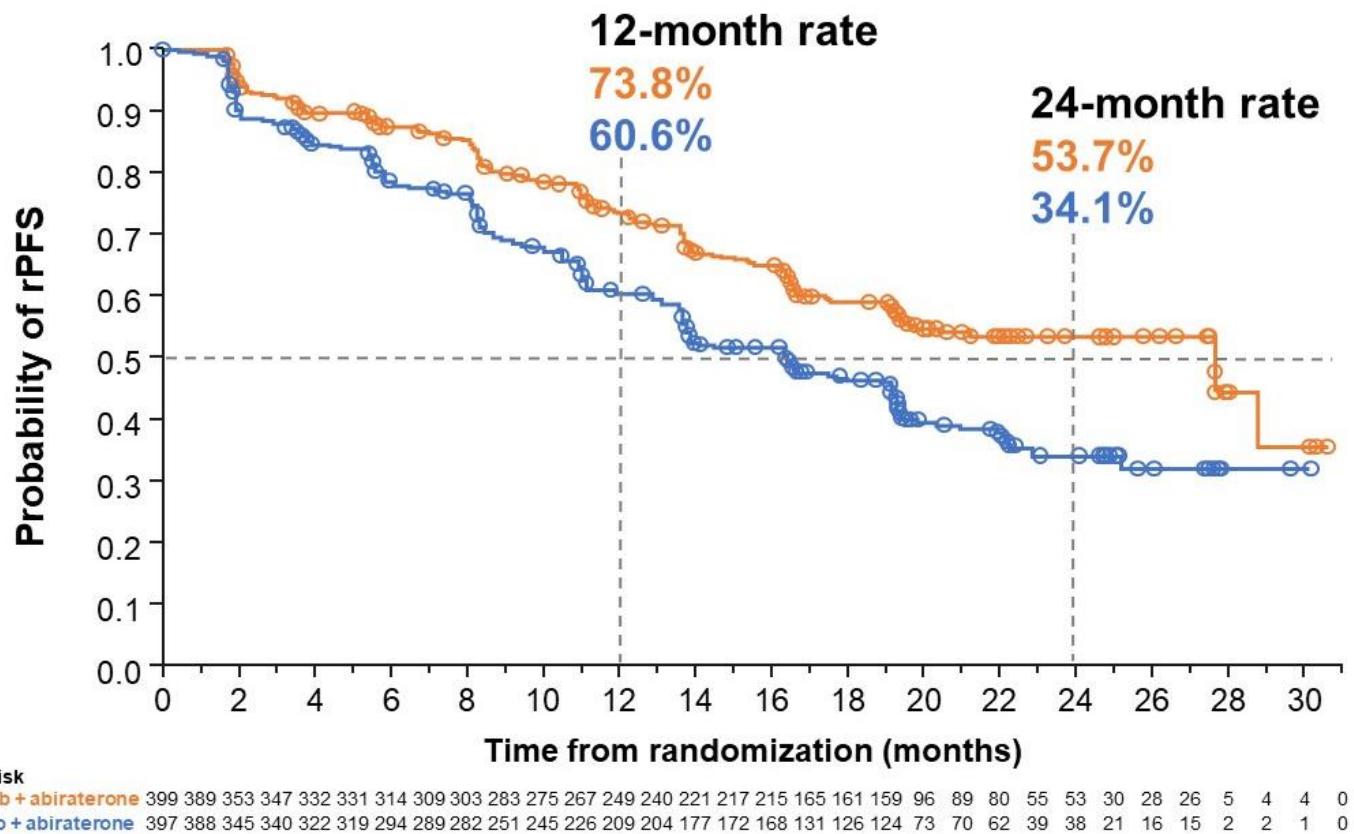


Zukünftige BRCA-Testung im Rahmen der Kombination obsolet?

PROPEL: Olaparib + Abirateron vs. Abirateron bei mCRPC



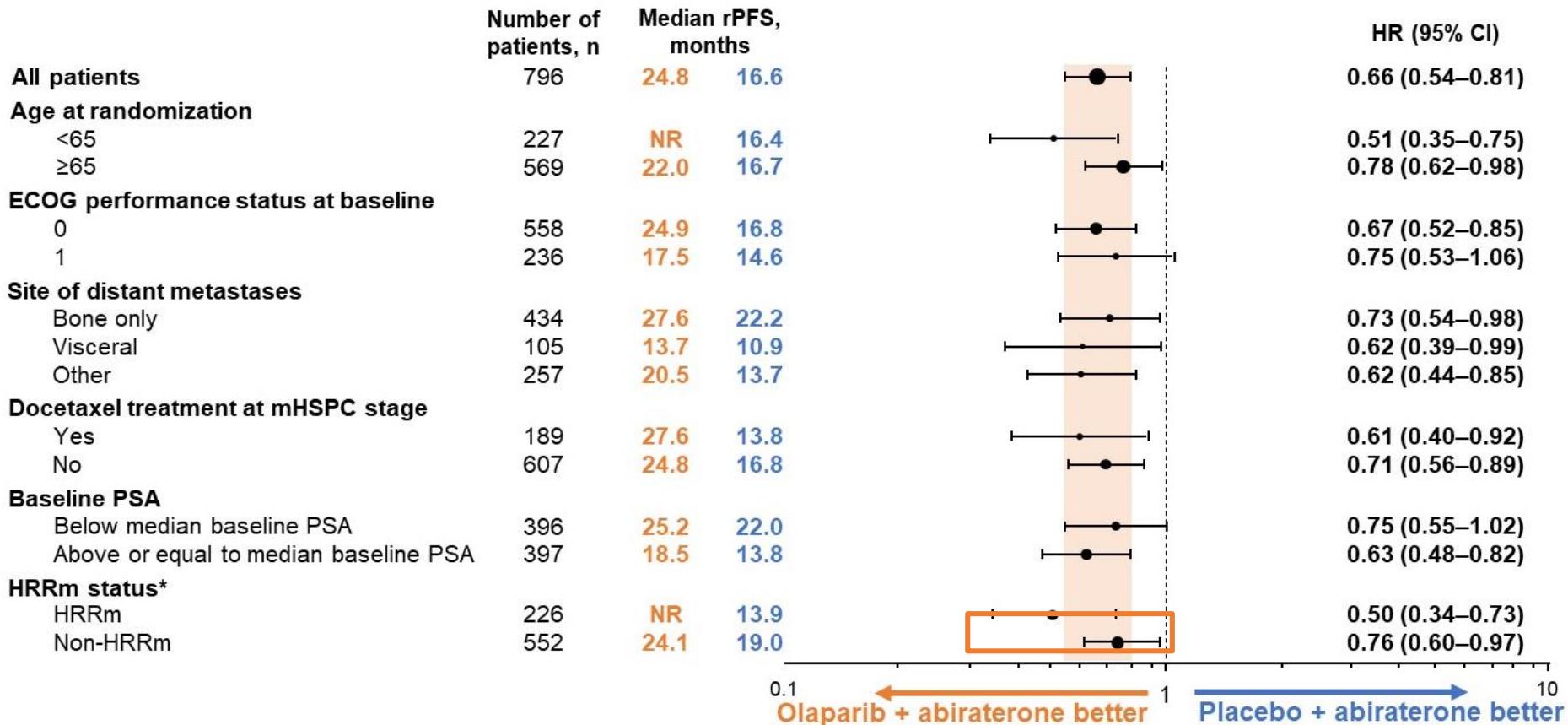
PROPEL: rPFS



	Olaparib + abiraterone (n=399)	Placebo + abiraterone (n=397)
Events, n (%)	157 (39.3)	218 (54.9)
Median rPFS (months)	27.6	16.4
HR (95% CI)	0.61 (0.49–0.74) <i>P<0.0001†</i>	

**Median rPFS improvement of 11.2 months
favors olaparib + abiraterone‡**

PROPEL: Subgruppenanalyse für rPFS

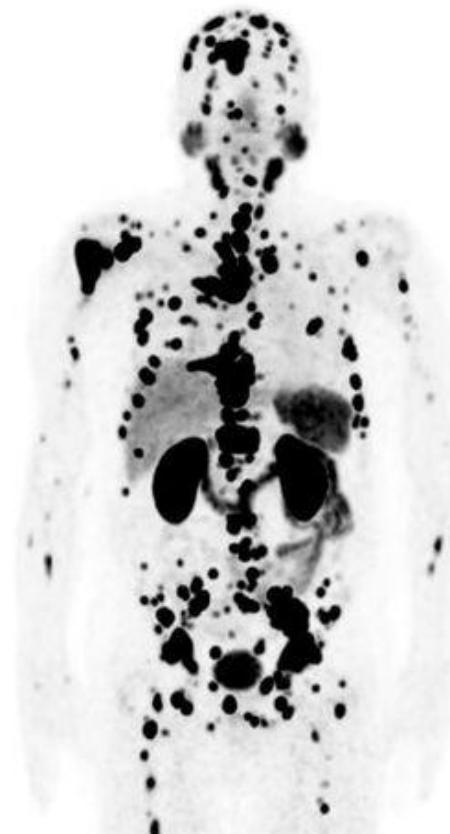


EMA-Zulassungserweiterung für Olaparib

Lynparza is indicated in combination with abiraterone and prednisone or prednisolone for the treatment of adult patients with mCRPC in whom chemotherapy is not clinically indicated.

PSMA-Radioligandentherapie ...

... DIE neue Drittlinientherapie?!



07/2019

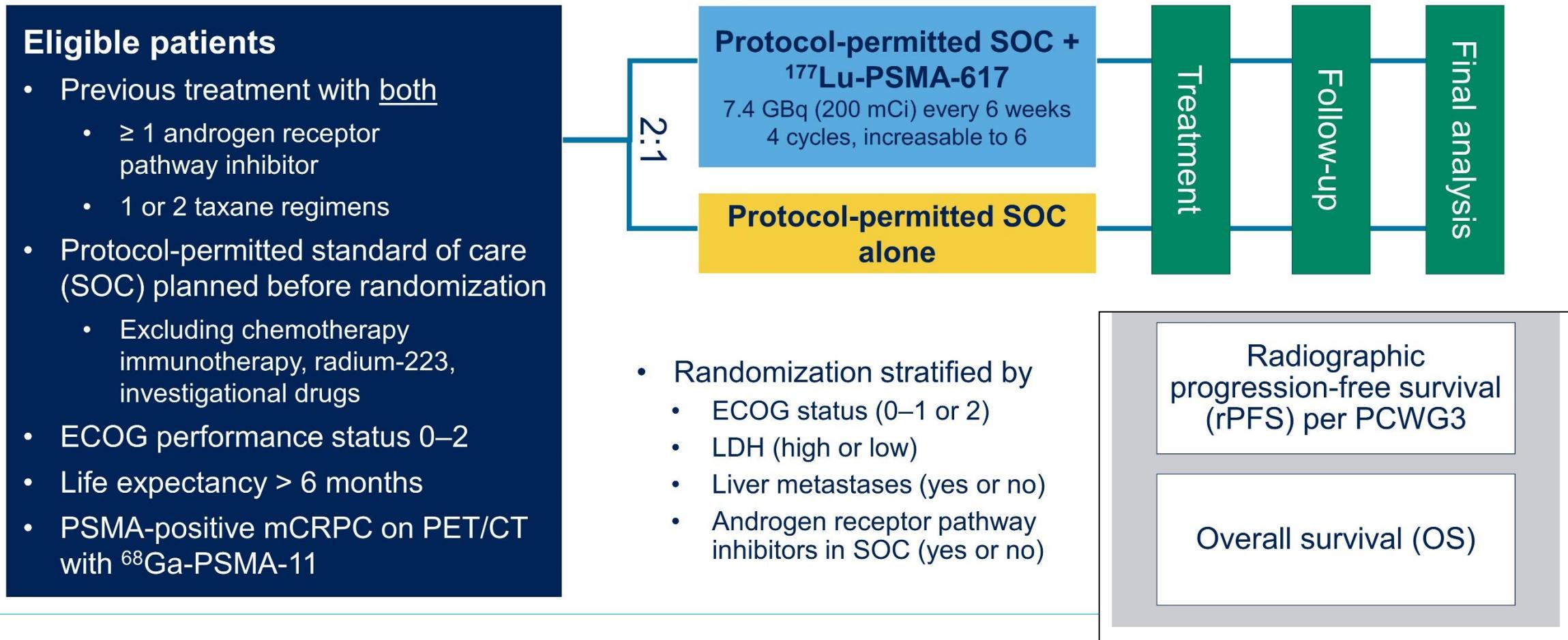
4x Lu-177-PSMA →



05/2020

Open-label study of protocol-permitted standard of care ± ^{177}Lu -PSMA-617 in adults with PSMA-positive mCRPC

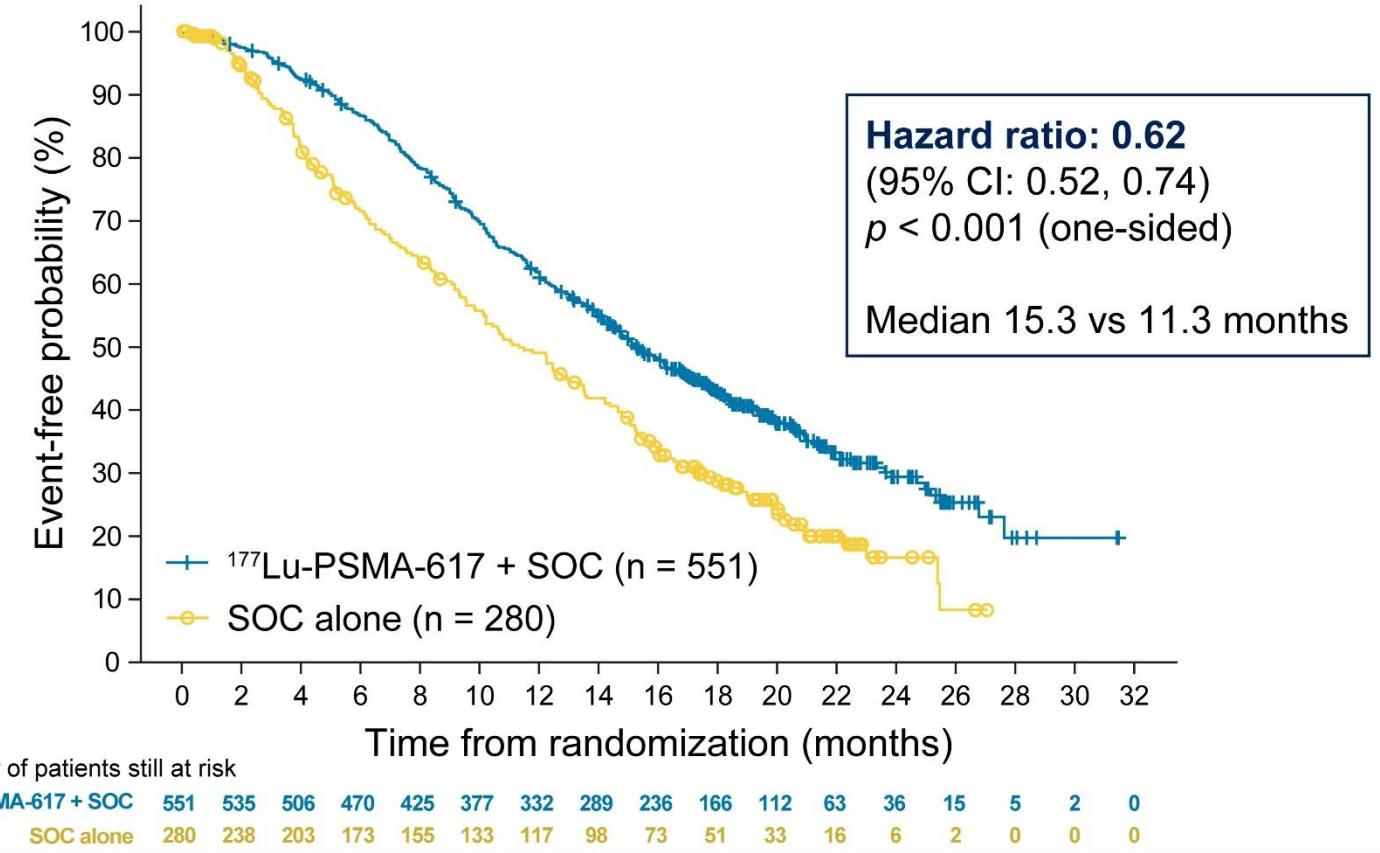
VISION



Primary endpoints: ^{177}Lu -PSMA-617 prolonged OS

Primary analysis

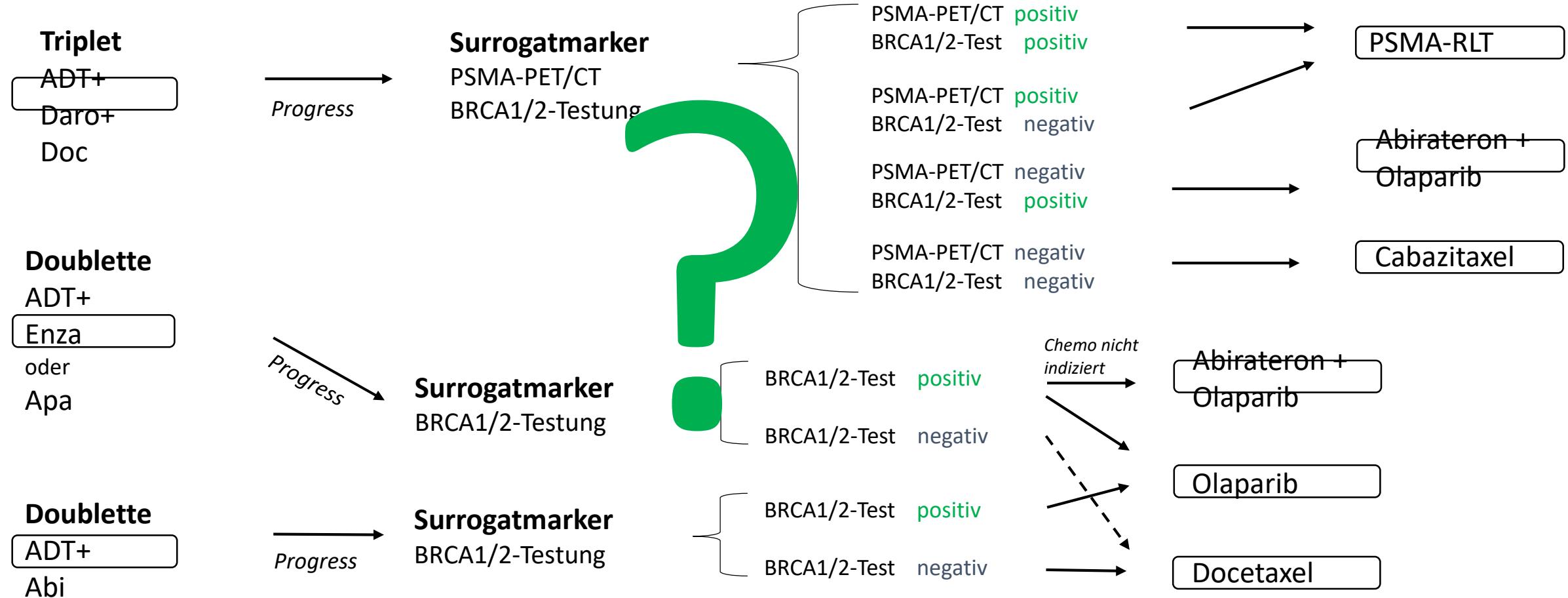
All randomized patients
(N = 831)



EMA-Zulassung für Pluvicto

Pluvicto in combination with androgen deprivation therapy (ADT) with or without androgen receptor (AR) pathway inhibition is indicated for the treatment of adult patients with progressive prostate-specific membrane antigen (PSMA)-positive metastatic castration-resistant prostate cancer (mCRPC) **who have been treated with AR pathway inhibition and taxane based chemotherapy.**

Mögliche Flow Chart für die molekular basierte Sequenztherapie des metastasierten Prostatakarzinoms

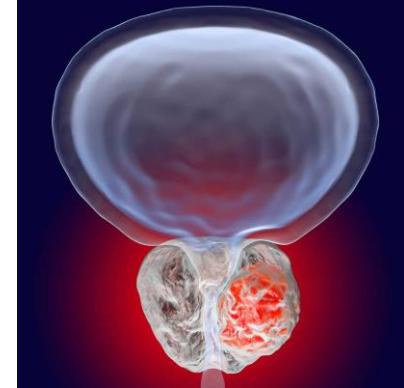


Roadmap



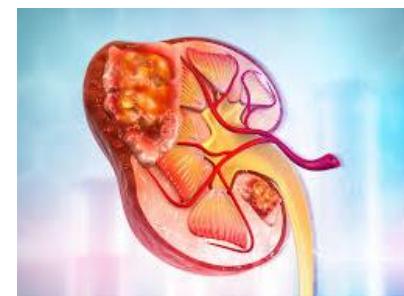
Prostatakarzinom

- mHSPC
- mCRPC



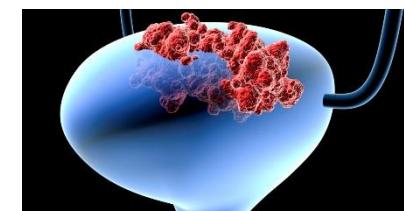
Nierenzellkarzinom

- **Erst-Linie**
- Adjuvantz



Urothelkarzinom

- Adjuvantz
- Dritt-Linie



Metastasiertes RCC ...

... kommt jetzt die Triple-Therapie?



Effektivität aktueller RCC-Erstlinien-Kombinationstherapien

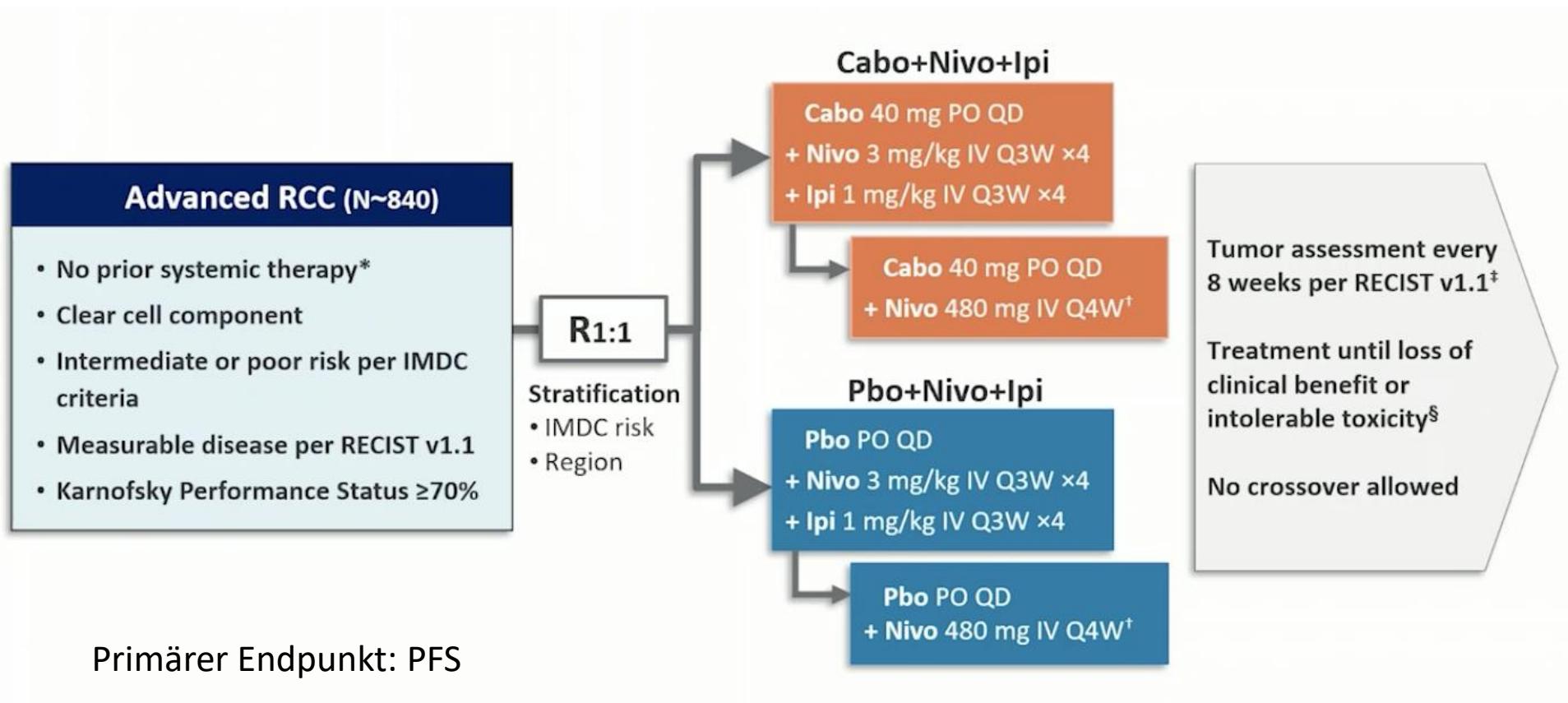
	Checkmate 9ER	Checkmate 214	Keynote-426	CLEAR	Javelin 101 Renal
Cabo + Nivo (n=328) vs. Sun (n=328) FU 33 Monate	Nivo + Ipi (n=550) vs. Sun (n=564) FU 68 Monate	Pem + Axi (n=442) vs. Sun (n=444) FU 42 Monate	Len + Pem (n=335) vs. Sun (n=357) FU 27 Monate	Ave + Axi (n=444) vs. Sun (n=442) FU 13 Monate	
OS					
Median, Monate HR (95% CI)	37.7 vs. 34.3 0.7 (0.55-0.90) p=0.0043	47.0 vs. 26.6 0.68 (0.58-0.81) p<0.0001	45.7 vs. 40.1 0.73 (0.60-0.88) p<0.001	NR vs. NR 0.66 (0.49-0.88) p<0.001	NR vs. NR 0.79 (0.61-1.03) p=0.004
PFS					
Median, Monate HR (95% CI)	16.6 vs. 8.3 HR 0.56 (0.46-0.68) p<0.0001	12.2 vs. 12.3 0.89 (0.76-1.05) n.s.	15.7 vs. 11.1 HR 0.68 (0.58-0.8) p<0.001	23.9 vs. 9.2 0.39 (0.32-0.49) p<0.001	13.8 vs. 7.2 0.61 (0.47-0.79) p<0.001
ORR in %					
	55.7 vs. 28.4 p<0.0001 CR 12.4 vs. 5.2	42.0 vs. 27.0 p<0.0001 CR 11 vs. 2.0	60.2 vs. 39.9 p<0.0001 CR 8.8 vs. 3	71.0 vs. 36.1 p<0.001 CR 16.1 vs. 4.2	52.5 vs. 27.3 p<0.0001 CR 3.8 vs. 2.0

Motzer R, Lancet Oncol 2022
 Powels T, ASCO 2021
 Motzer R, ESMO 2021

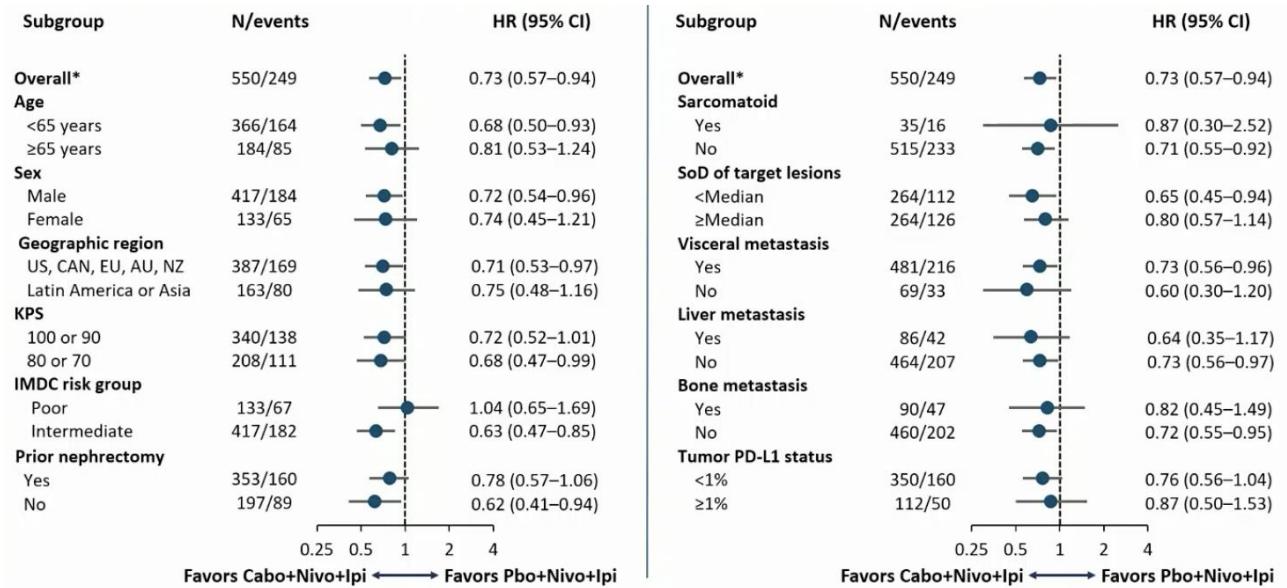
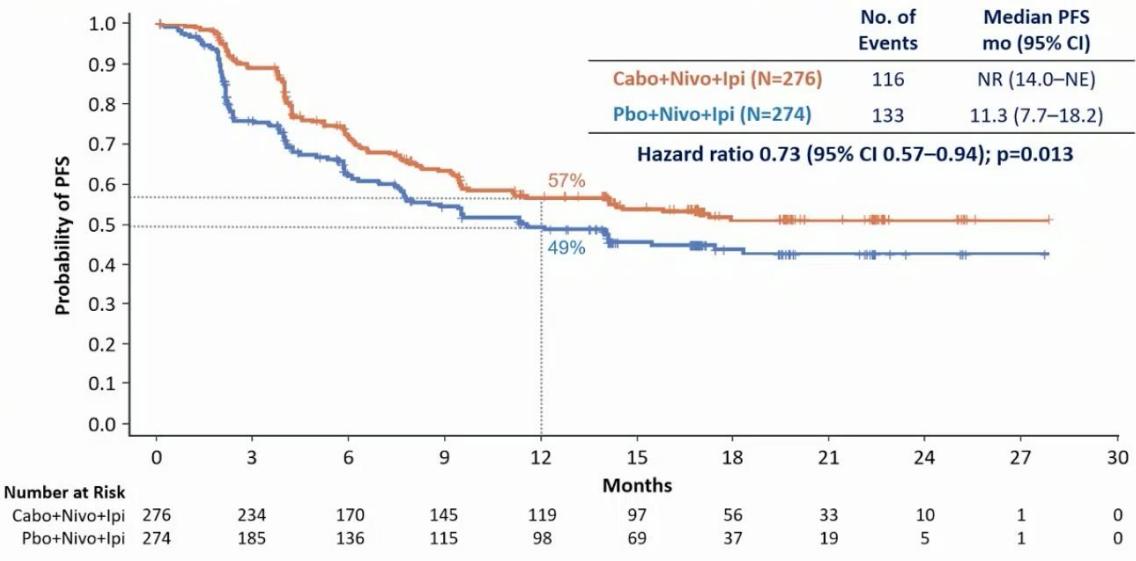
Motzer R, NEJM 2021
 Choueiri TK, Ann Oncol 2020

COSMIC 313:

Nivo + Ipi + Cabozantinib vs. Nivo + Ipi bei karzelligem mRCC



COSMIC 313: Ergebnisse



COSMIC 313: Nebenwirkungen

	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

Triple-Therapie beim mRCC:

Efficacy:

PFS-Verbesserung

Safety:

hohe Toxizität

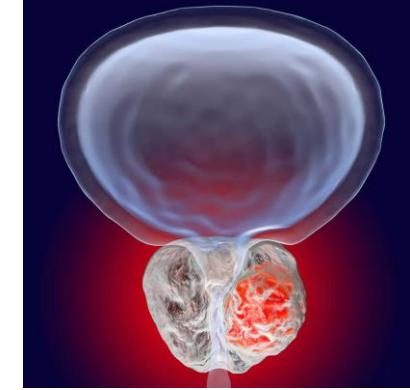


Roadmap



Prostatakarzinom

- mHSPC
- mCRPC



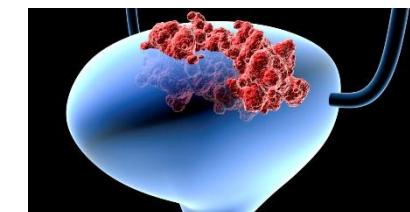
Nierenzellkarzinom

- Erst-Linie
- **Adjuvantz**



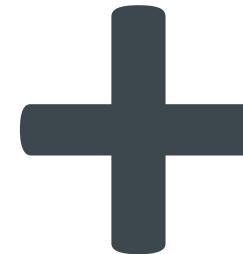
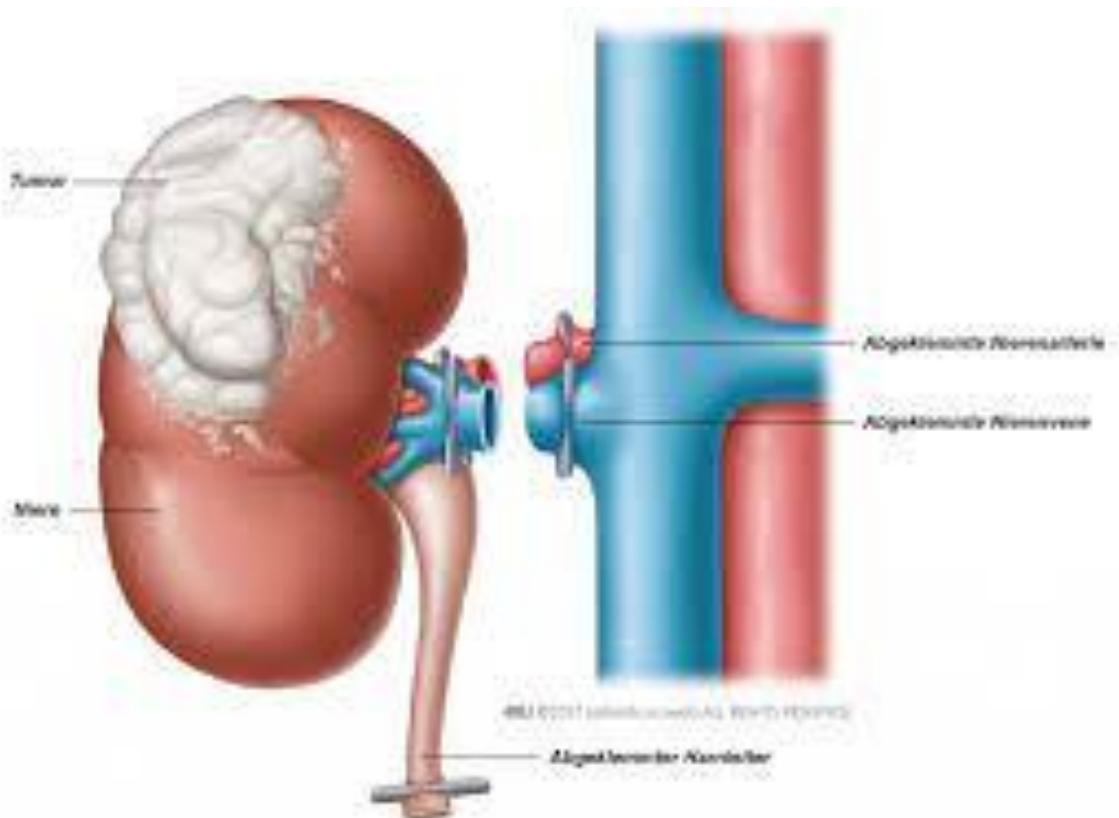
Urothelkarzinom

- Adjuvantz
- Dritt-Linie

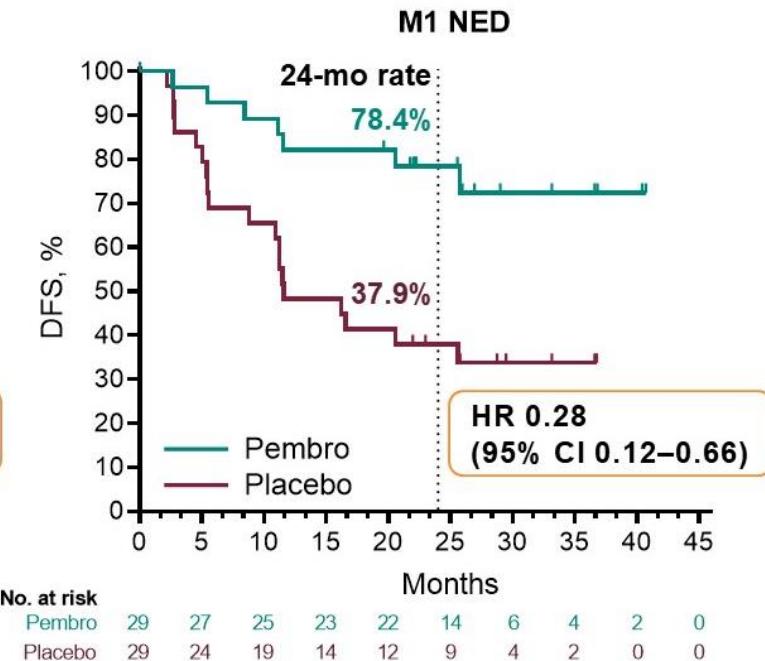
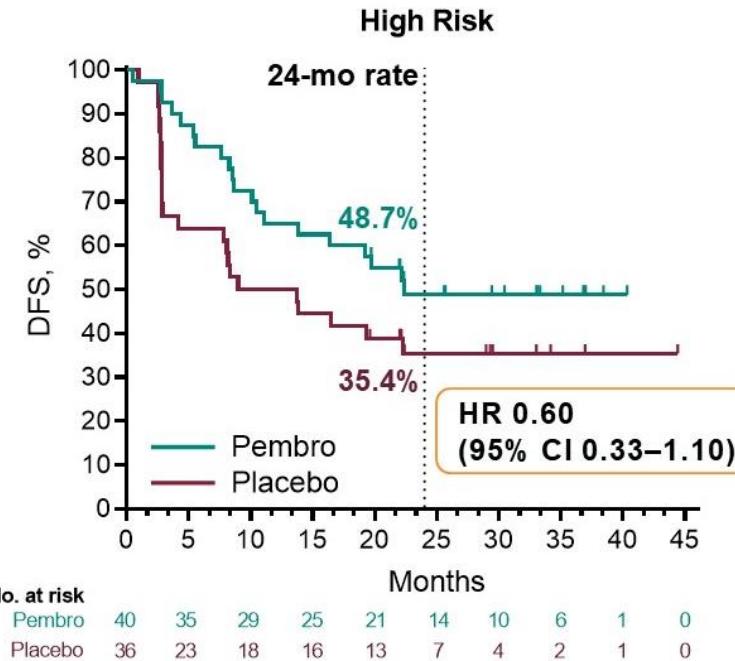
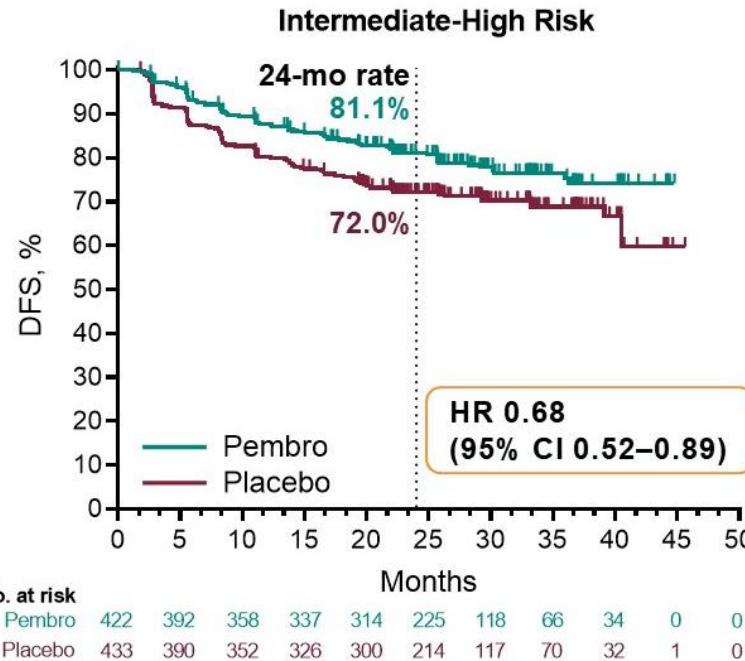


Hochrisiko-RCC nach Nephrektomie/Teilresektion ...

... gibt es ein sinnvolles Adjuvans?



Pembrolizumab adjuvant bei Hochrisiko-RCC (Keynote-564)



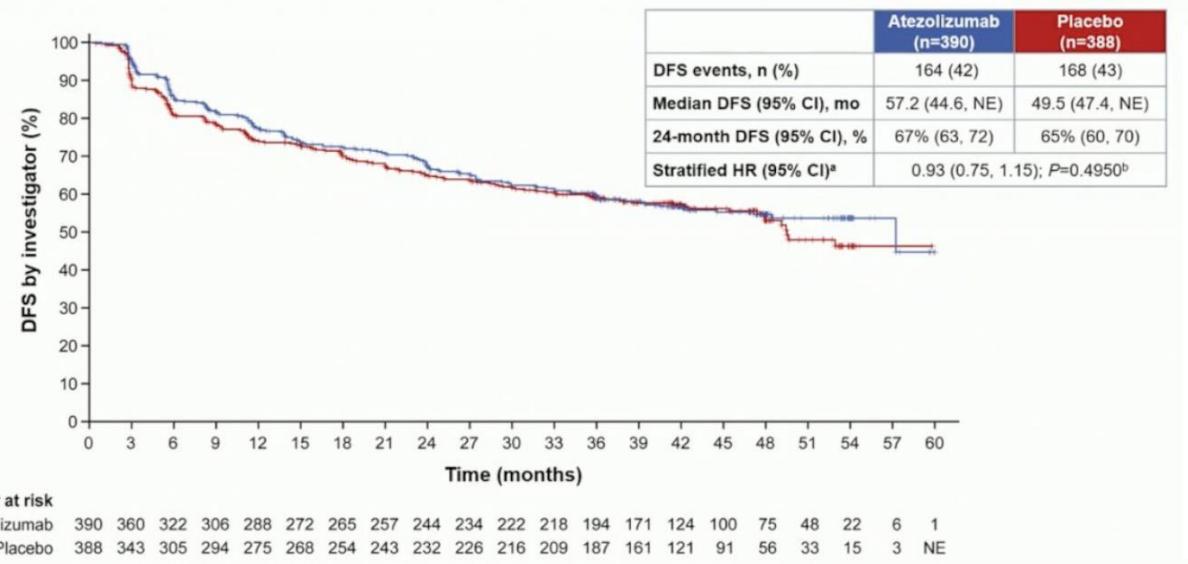
	Pts w/ Event	Median, mo (95% CI)
Pembro	87	NR (NR-NR)
Placebo	127	NR (40.5-NR)

	Pts w/ Event	Median, mo (95% CI)
Pembro	20	22.4 (11.1-NR)
Placebo	23	11.4 (2.9-NR)

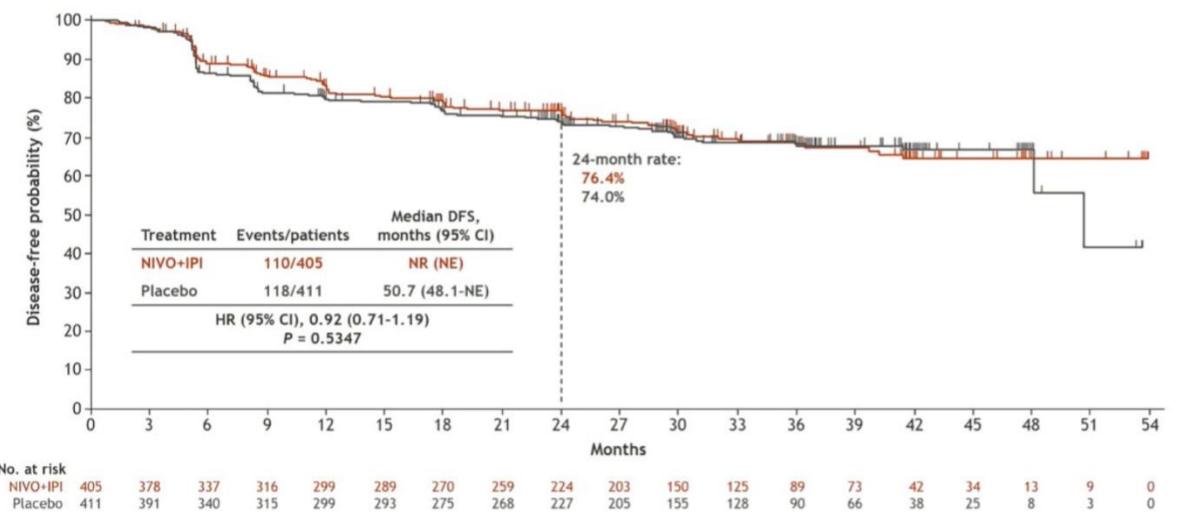
	Pts w/ Event	Median, mo (95% CI)
Pembro	7	NR (25.7-NR)
Placebo	19	11.6 (5.6-NR)

Die Daten der Konkurrenz: IMMOTION010 und Checkmate 914

IMMOTION010



Checkmate 914

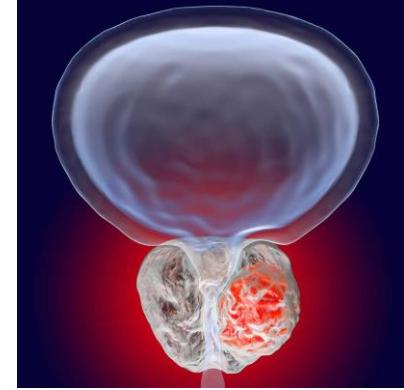


Roadmap



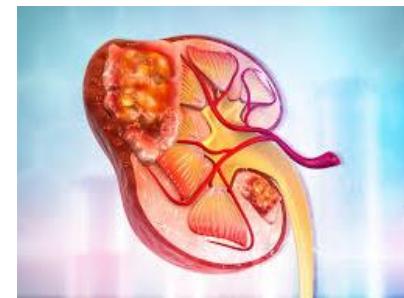
Prostatakarzinom

- mHSPC
- mCRPC



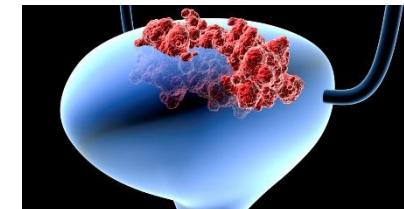
Nierenzellkarzinom

- Erst-Linie
- Adjuvanz



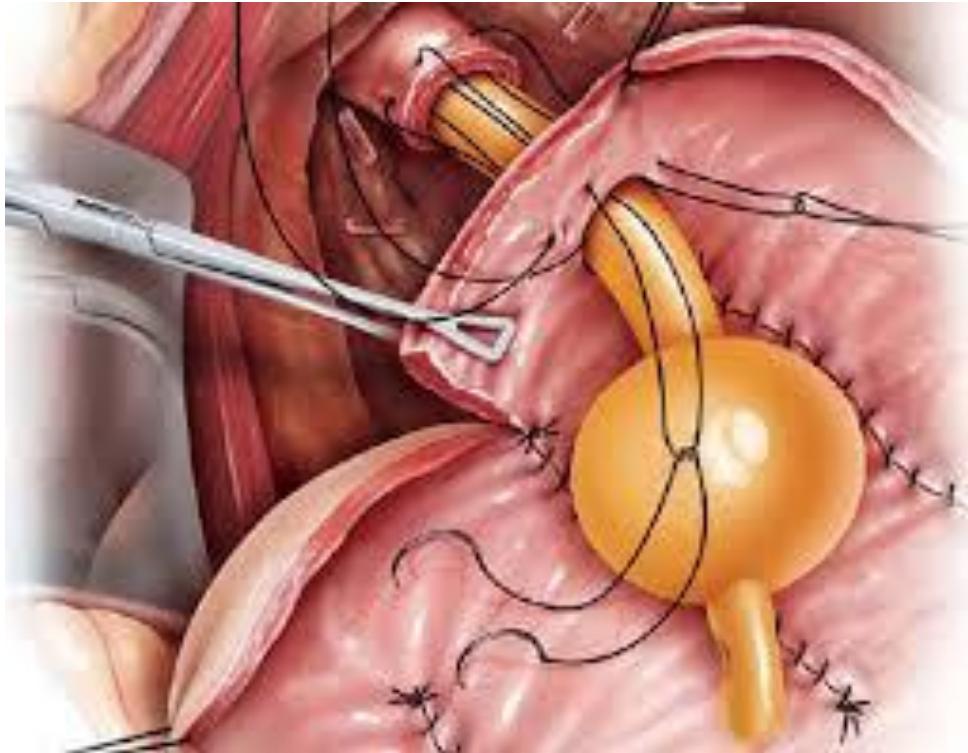
Urothelkarzinom

- **Adjuvanz**
- Dritt-Linie



Hochrisiko-MIBC (pT3/4 oder pN1) nach Zystektomie ...

... gibt es zur Chemotherapie eine Alternative?



CheckMate 274: Phase 3, randomized, double-blind, multicenter study of adjuvant nivolumab versus placebo in patients with high-risk MIUC

N = 709

Key inclusion criteria

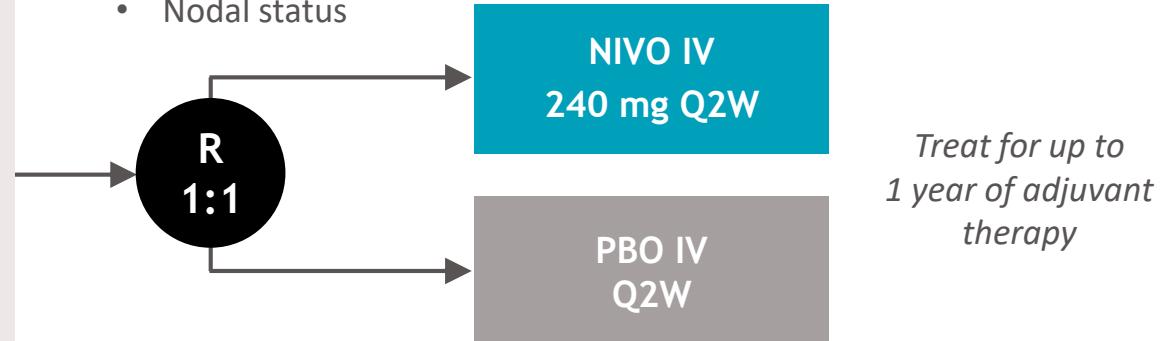
- Patients with ypT2-ypT4a or ypN+ MIUC who had neoadjuvant cisplatin chemotherapy
- Patients with pT3-pT4a or pN+ MIUC without prior neoadjuvant cisplatin chemotherapy and not eligible/refuse adjuvant cisplatin chemotherapy
- Radical surgery within the past 120 days
- Disease-free status within 4 weeks of dosing

Minimum follow-up, 5.9 months

Median follow-up in ITT population, 20.9 months (NIVO) and 19.5 months (PBO)

Stratification factors

- PD-L1 status (<1% vs ≥ 1%)^a
- Prior neoadjuvant cisplatin-based chemotherapy
- Nodal status



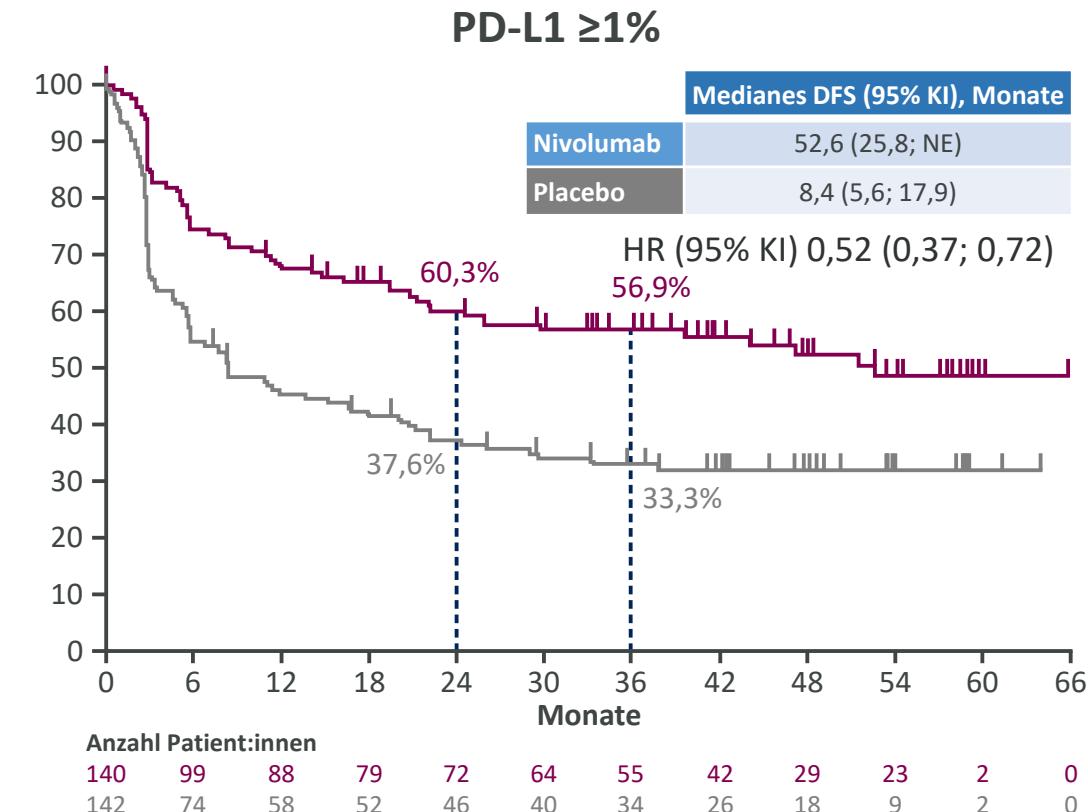
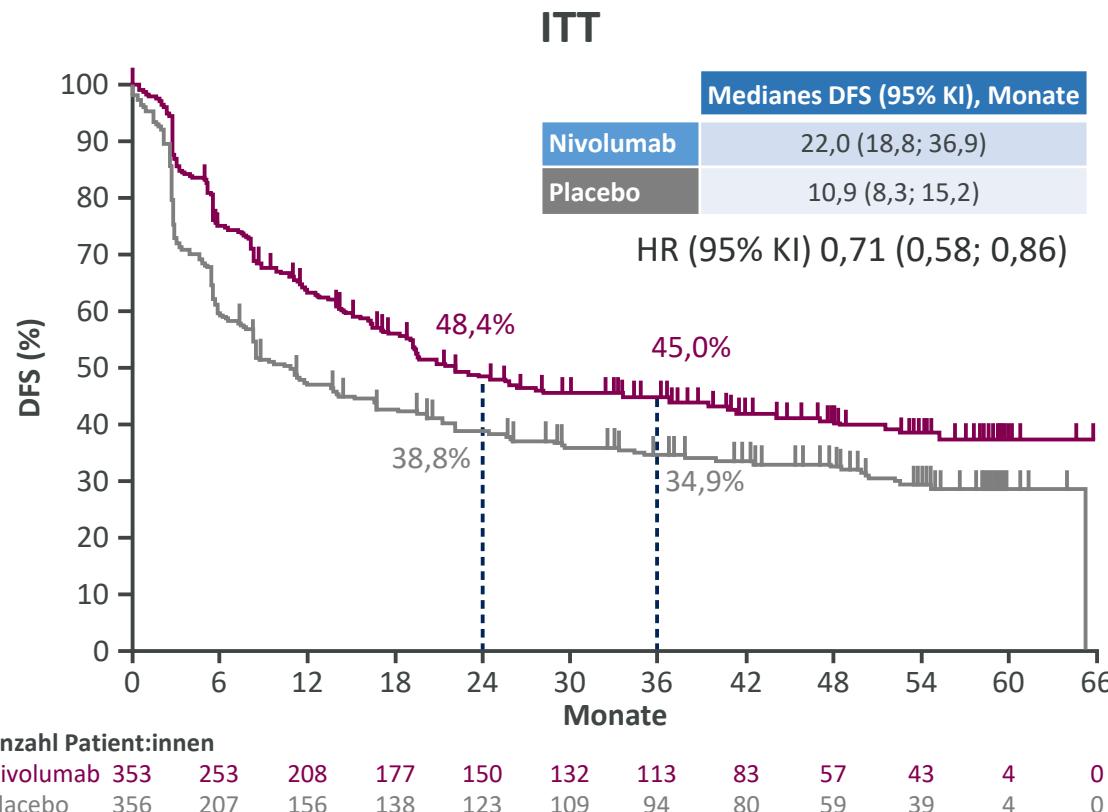
Primary endpoints: DFS in ITT population and DFS in all randomized patients with tumor PD-L1 ≥ 1%

Secondary endpoints: NUTRFS, DSS, and OS^b

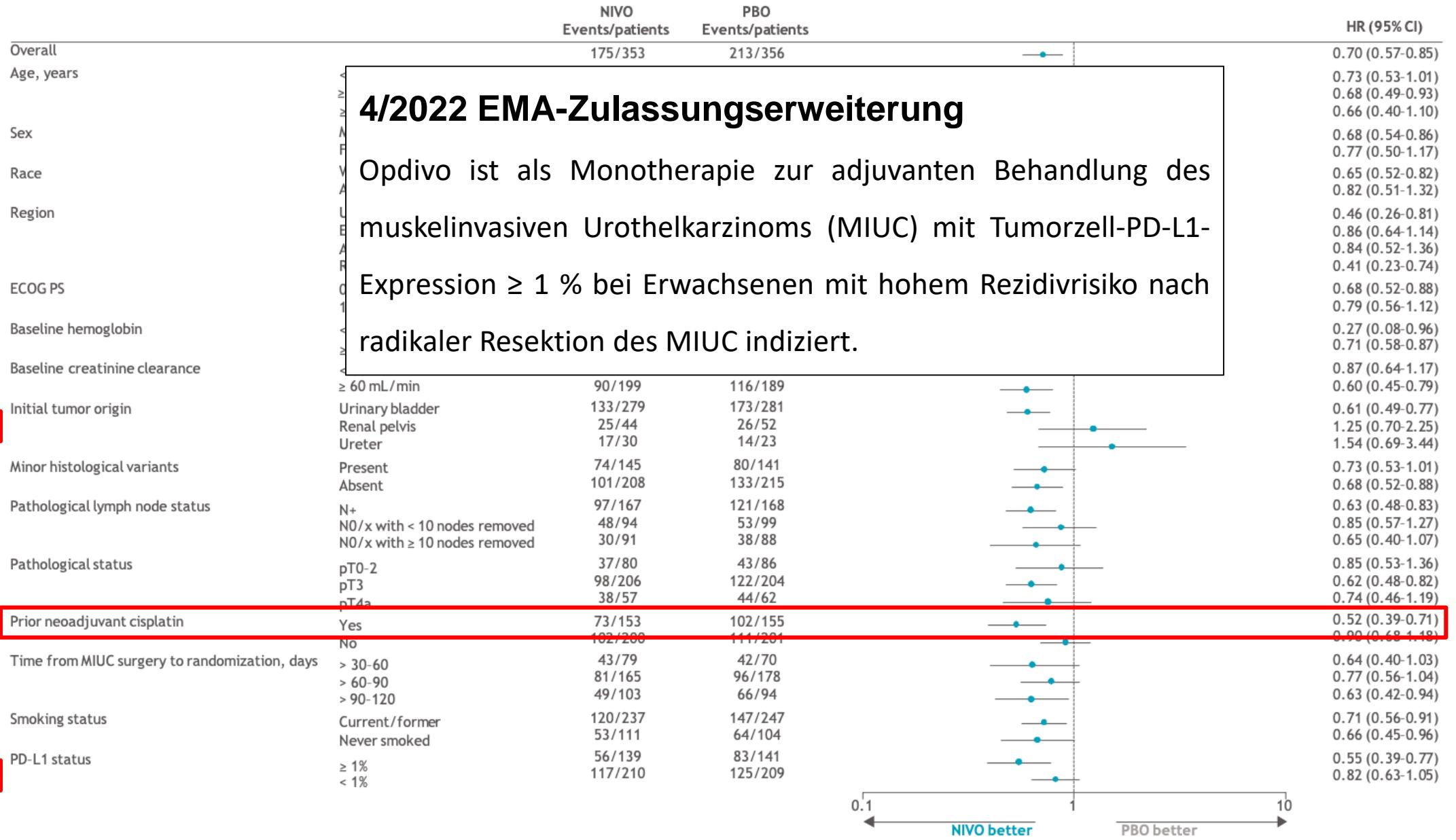
Exploratory endpoints included: DMFS, safety, HRQoL

CheckMate 274 – Erweitertes Follow-Up

- DFS (Primärer Endpunkt)



Sowohl in der ITT- als auch in der Tumor-PD-L1-Expressionspopulation ($\geq 1\%$) wurde mit Nivolumab (vs Placebo) ein anhaltender DFS-Vorteil beobachtet



Nivolumab-Adjuvant: Für wen?

- Hochrisiko-Blasenkarzinom
- Cisplatin-unfit oder –Ablehnung
- Ohne Neoadjuvant: pT3, pT4a, or pN+
- Nach Neoadjuvant: ypT2 to ypT4a or ypN+
- PD-L1 > 1%

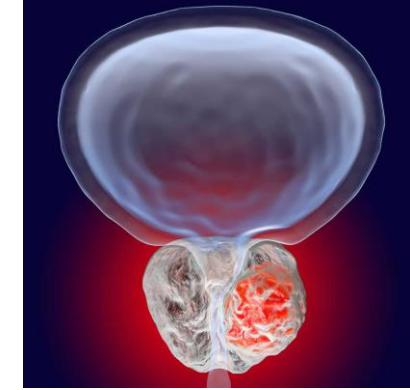


Roadmap



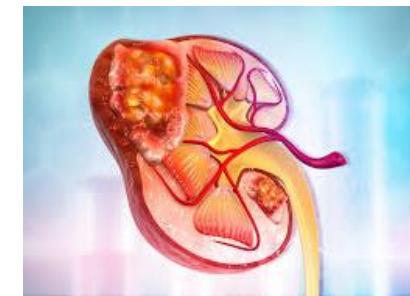
Prostatakarzinom

- mHSPC
- mCRPC



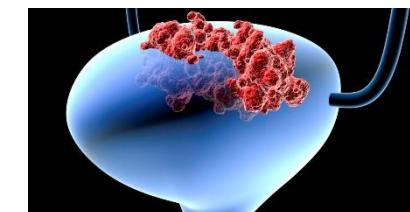
Nierenzellkarzinom

- Erst-Linie
- Adjuvant



Urothelkarzinom

- Adjuvant
- **Dritt-Linie**

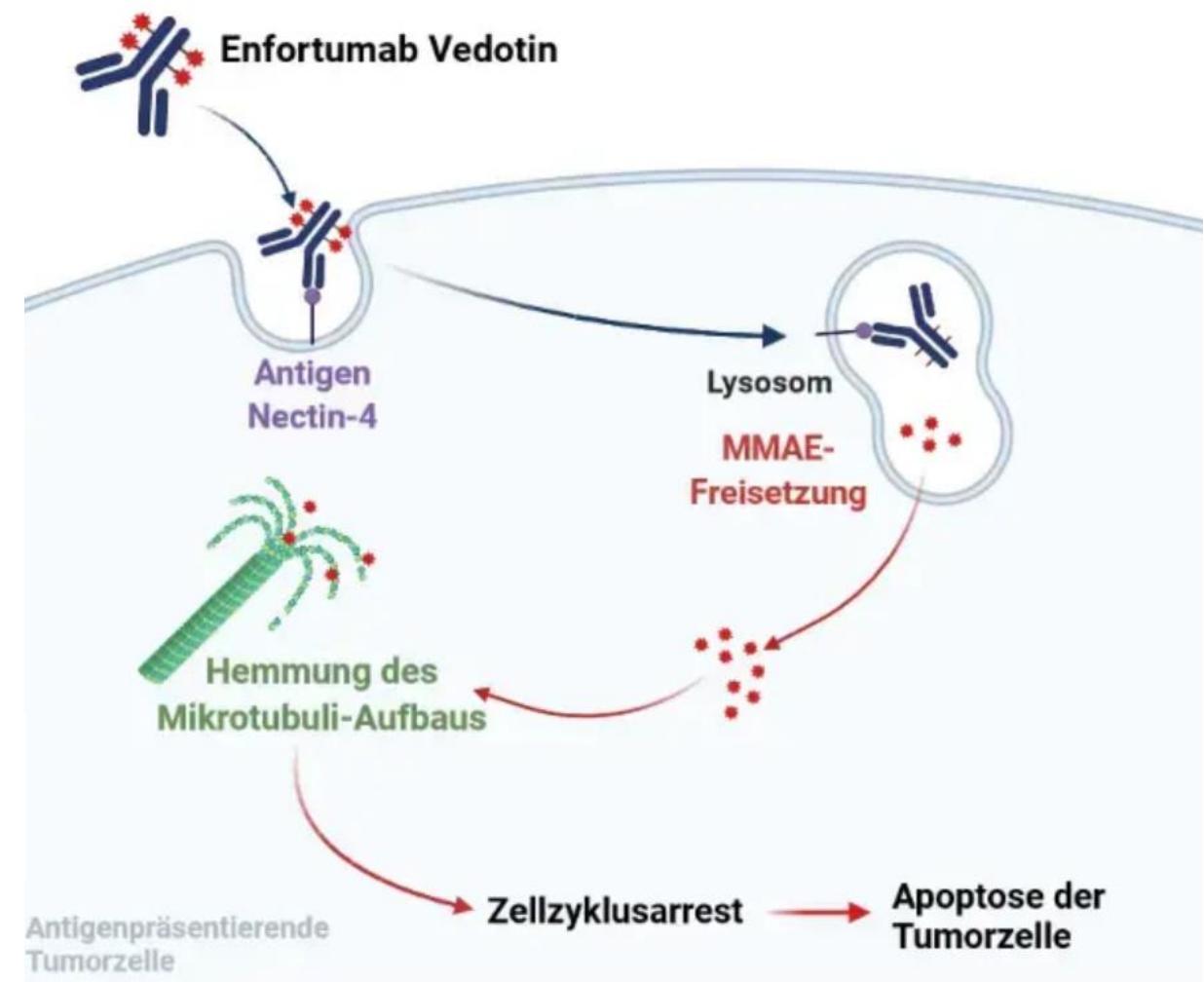
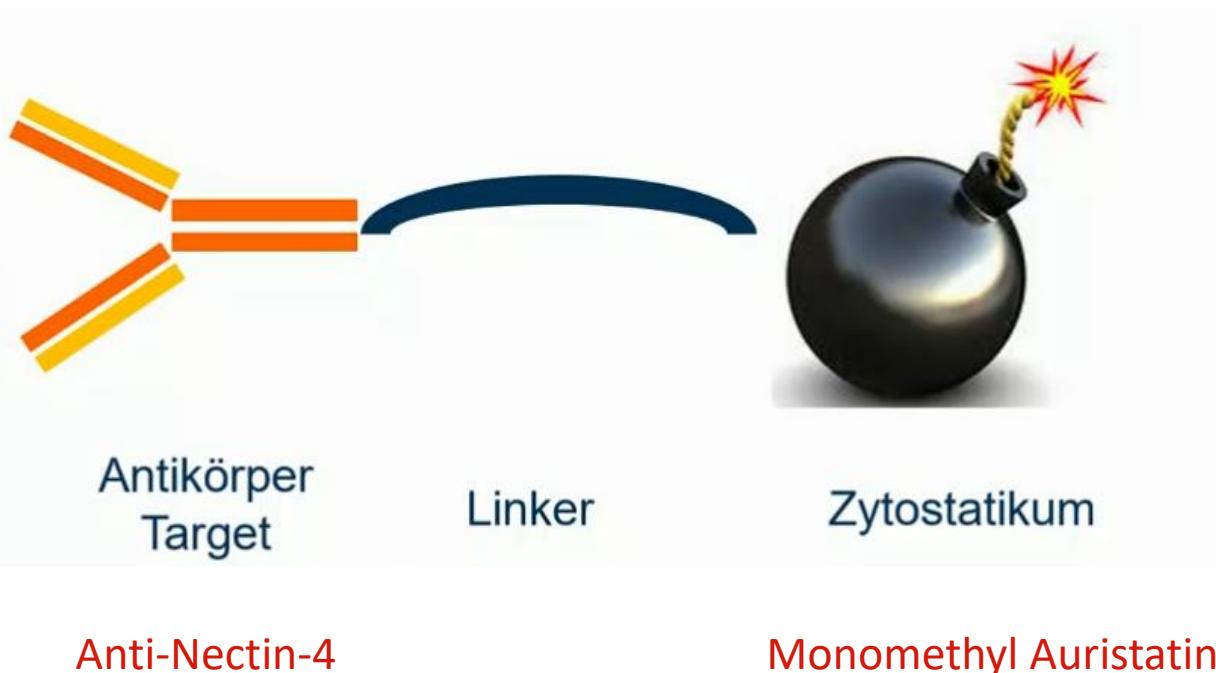


Versagen der Immuntherapie bei metastasiertem Urothelkarzinom ...

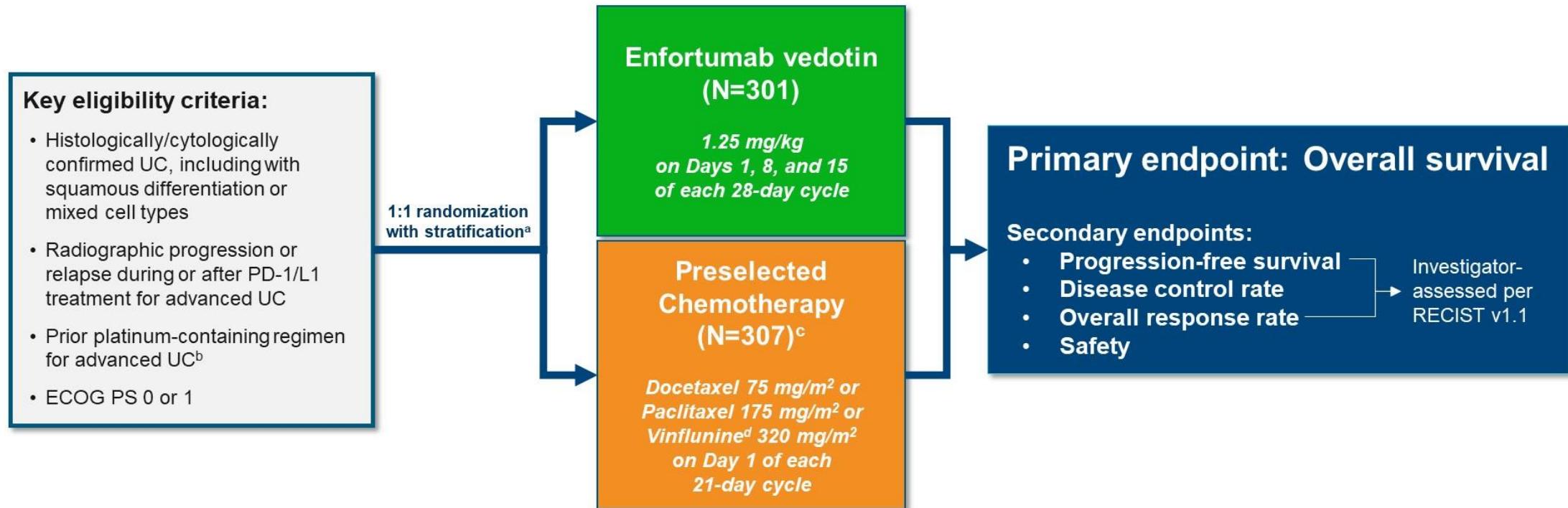
... was nun?



Enfortumab-Vedotin nach Platin- und Immuntherapie



EV-301 – Therapie in der Drittlinie nach Cisplatin und CPI



^aStratification variables were ECOG performance status (0 or 1), regions of the world (United States, western Europe, or rest of world), liver metastasis (yes or no).

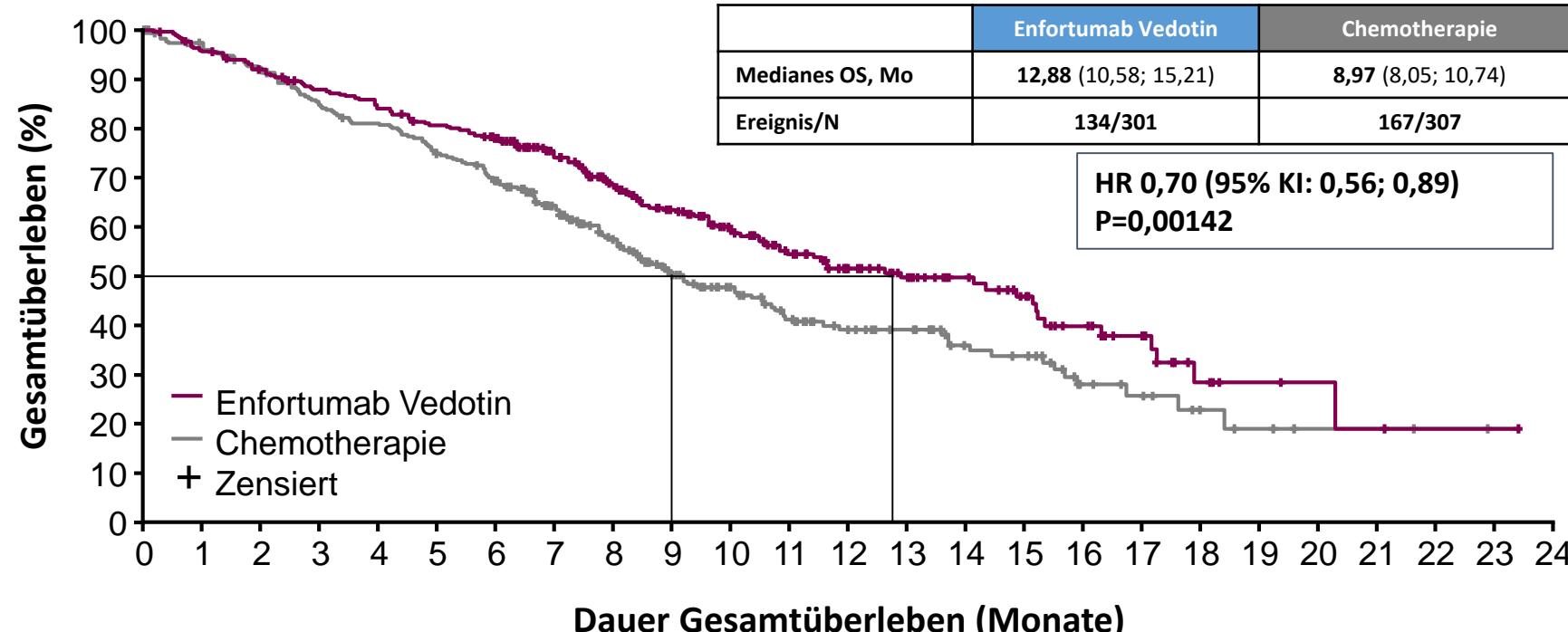
^bIf used in the adjuvant/neoadjuvant setting, progression must be within 12 months of completion.

^cInvestigator selected prior to randomization.

^dIn countries where approved; overall proportion of patients receiving vinflunine capped at 35%.

Abbreviations: ECOG PS, Eastern Cooperative Oncology Group performance status; PD-1/L1, programmed cell death protein-1/programmed death-ligand 1; RECIST, Response Evaluation Criteria in Solid Tumors; UC, advanced urothelial carcinoma.

Enfortumab-Vedotin nach Platin- und Immuntherapie

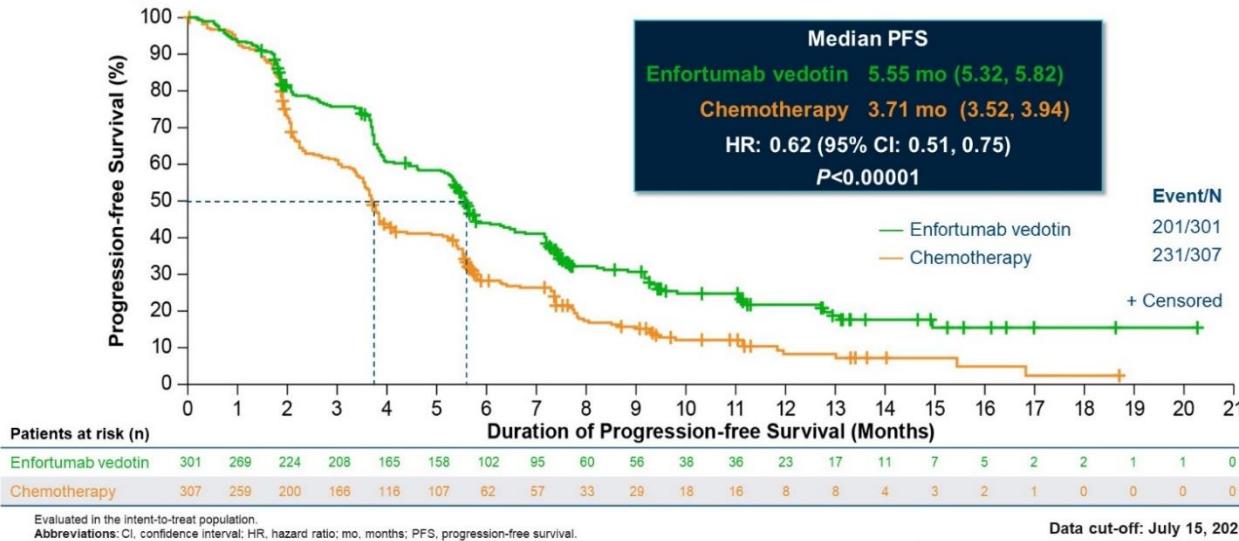


Anzahl Patienten

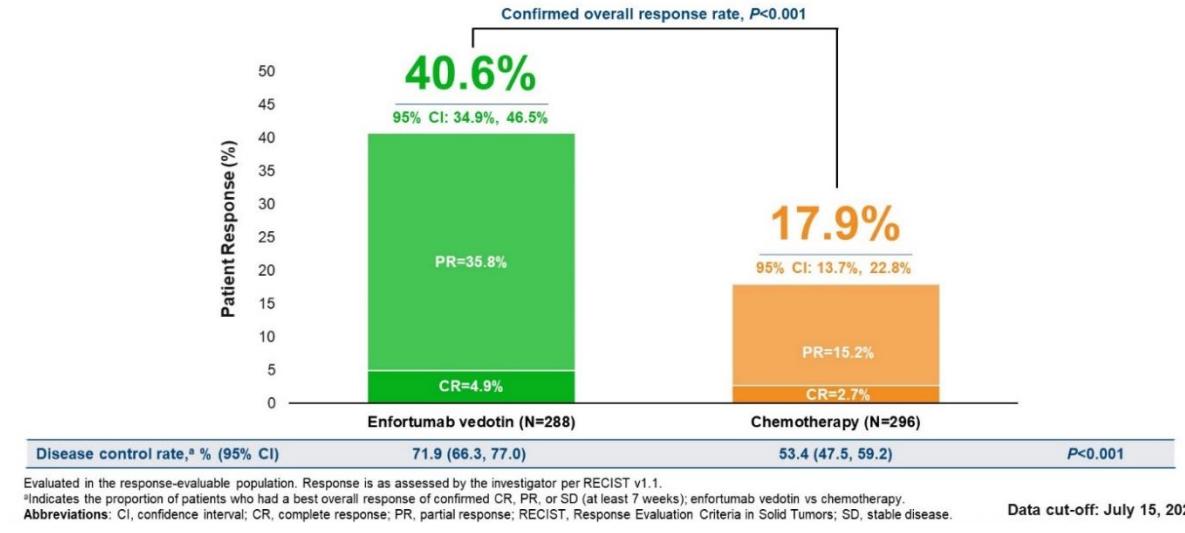
Enfortumab Vedotin	301	286	272	257	246	234	222	190	158	130	105	85	63	52	42	33	23	15	7	4	3	2	1	1	0
Chemotherapie	307	288	274	250	238	219	198	163	131	101	84	66	51	44	32	29	16	11	6	4	2	2	1	0	0

EV-301: Effektivität (PFS und ORR)

Progression-free Survival



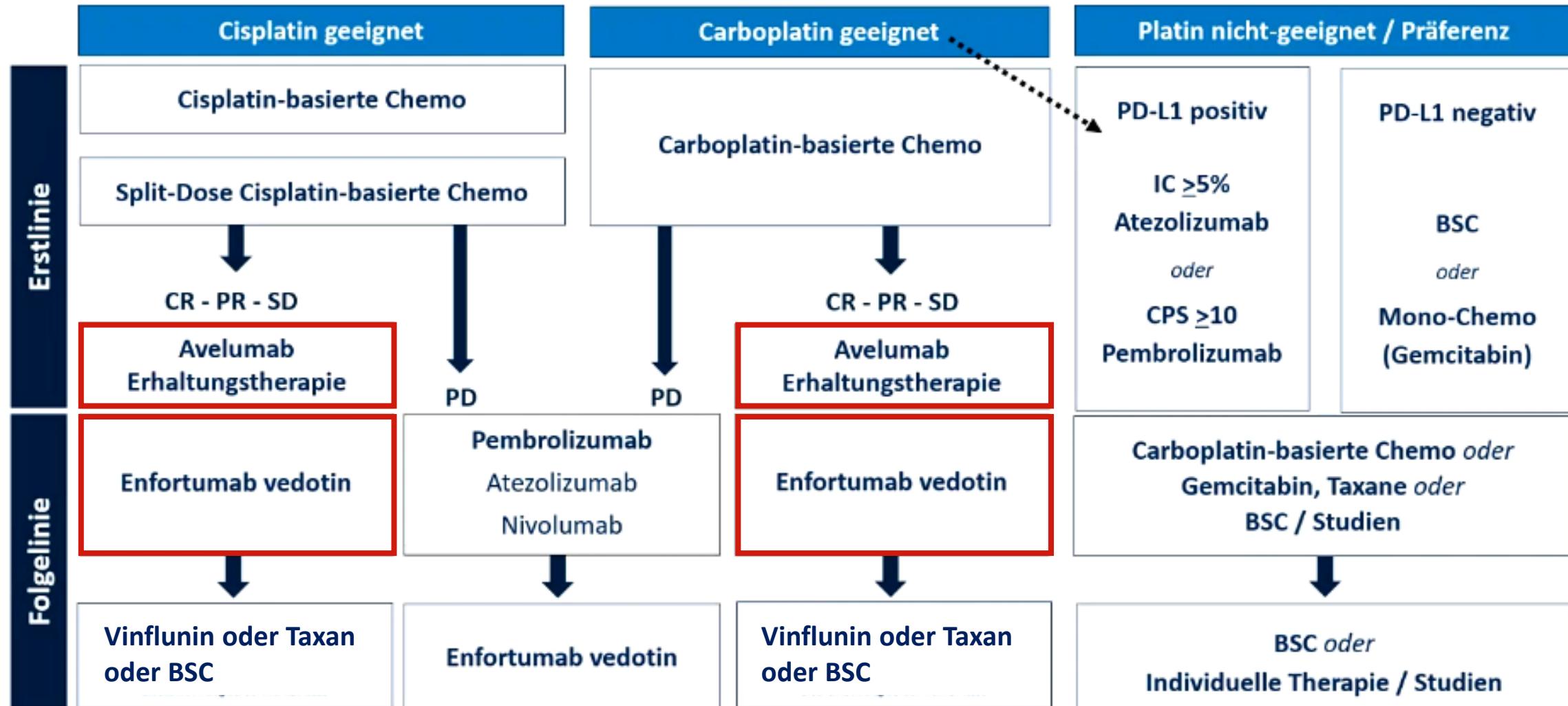
Investigator-Assessed Overall Response



4/2022 EMA-Zulassungserweiterung

Ende Dezember 2021 positives Votum des Committee for Medicinal Products for Human Use (CHMP). Am 13.04.2022 ist die Zulassung durch die Europäische Kommission erfolgt.

Therapie-Algorithmus metastasiertes Urothelkarzinom



Vielen Dank!

