Patrik Palacka

Genitourinárne malignity

Vyhlásenie o konflikte záujmov autora

Deklarujem nasledujúci konflikt záujmov

Forma finančného prepojenia	Spoločnosť
Participácia na klinických štúdiách/firemnom grante	Bayer, Roche, Pfizer
Nepeňažné plnenie (v zmysle zákona)	Janssen, Astellas, Bayer, Pfizer, Roche, Astra Zeneca, Novartis, Teva, Merck
Prednášajúci	Novartis, Janssen, Astellas, Bayer, Pfizer, Roche, Astra Zeneca, Teva, Merck
Akcionár	
Konzultant/odborný poradca	Pierre Fabre
Ostatné príjmy (špecifikovať)	

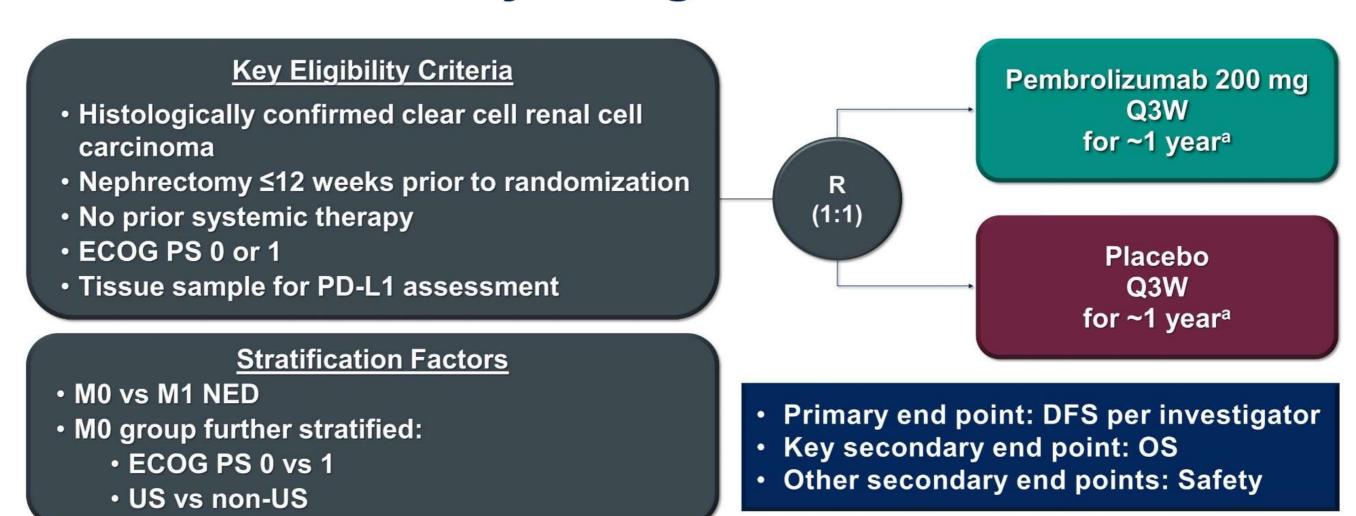
Podľa UEMS (upravené v zmysle slovenskej legislatívy)

Prednáška je podporená agentúrou We Make Media Slovakia, s. r. o.



1. Zhubné nádory obličiek

KEYNOTE-564 Study Design

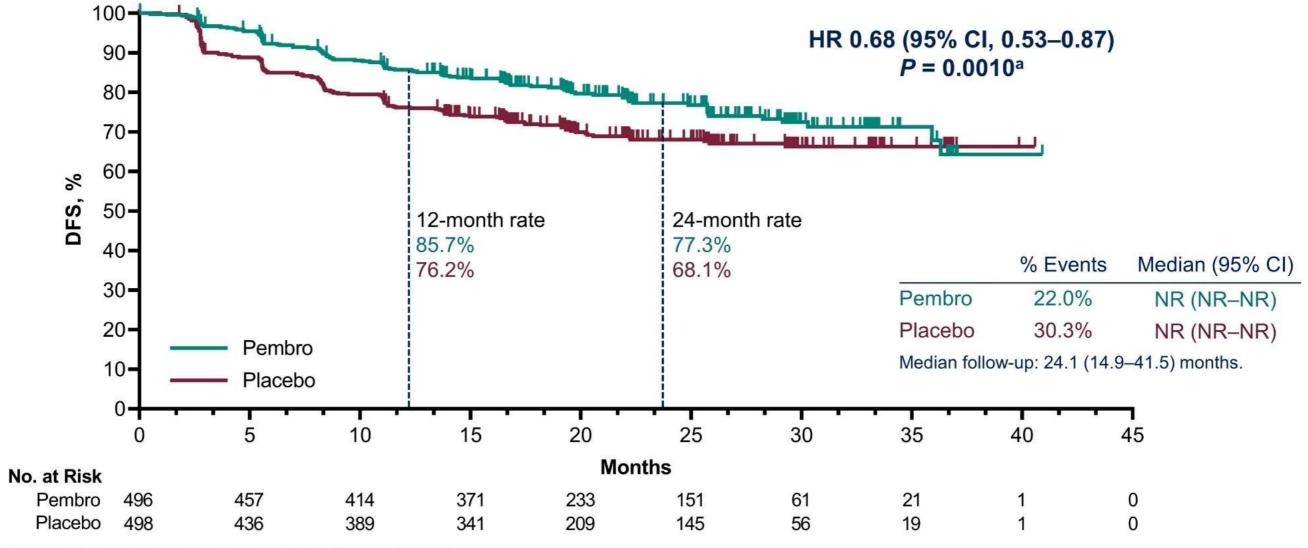


DFS, disease-free survival; Q3W, every 3 weeks. ^a≤17 cycles of treatment were equivalent to ~1 year.

Prespecified Disease Risk Categories

Intermediate-High Risk		High Risk		M1 NED
pT2	рТ3	pT4	Any pT	NED offer
Grade 4 or sarcomatoid	Any grade	Any grade	Any grade	NED after resection of oligometastatic
N0	N0	N0	N+	sites ≤1 year from
MO	MO	MO	MO	nephrectomy

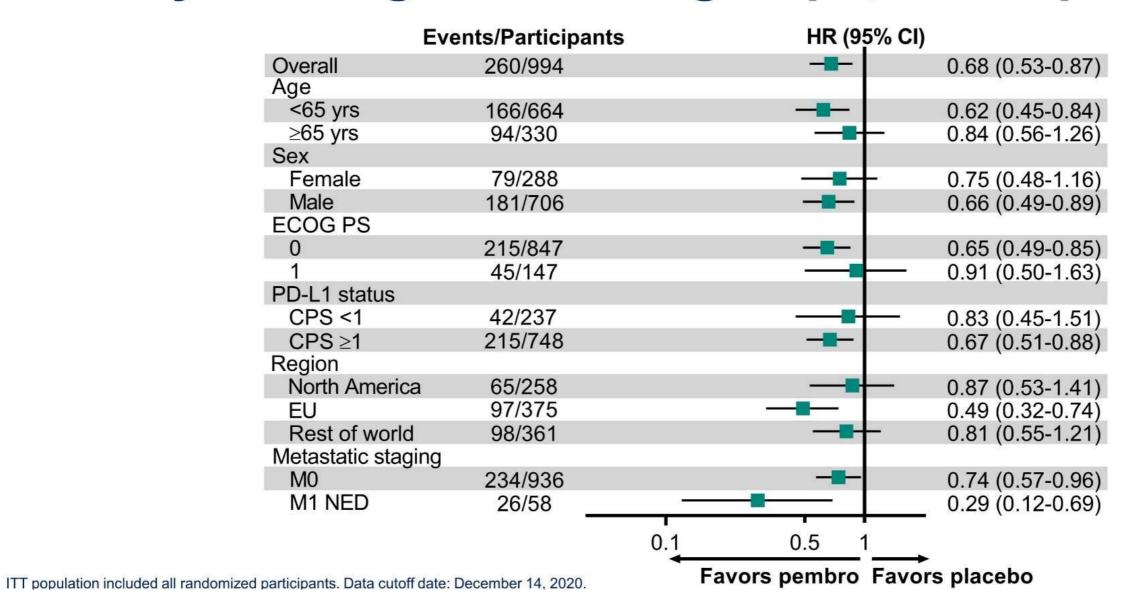
DFS by Investigator, ITT Population



^aCrossed prespecified p-value boundary for statistical significance of 0.0114.

ITT population included all randomized participants. NR, not reached. Data cutoff date: December 14, 2020.

DFS by Investigator in Subgroups, ITT Population

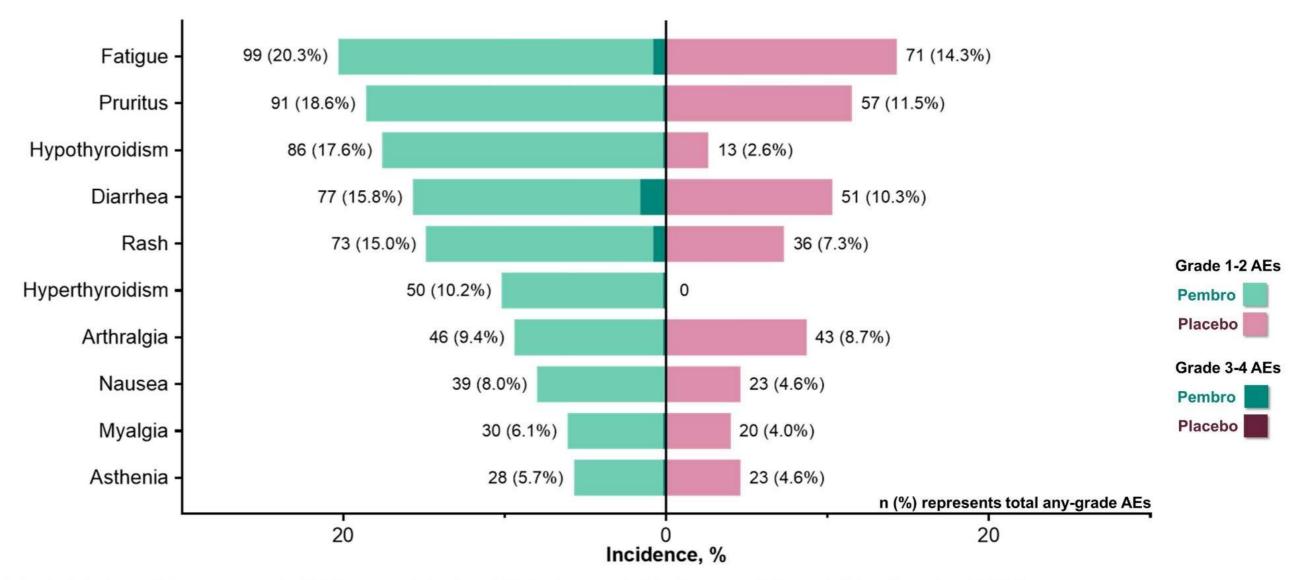


Interim OS Results, ITT Population

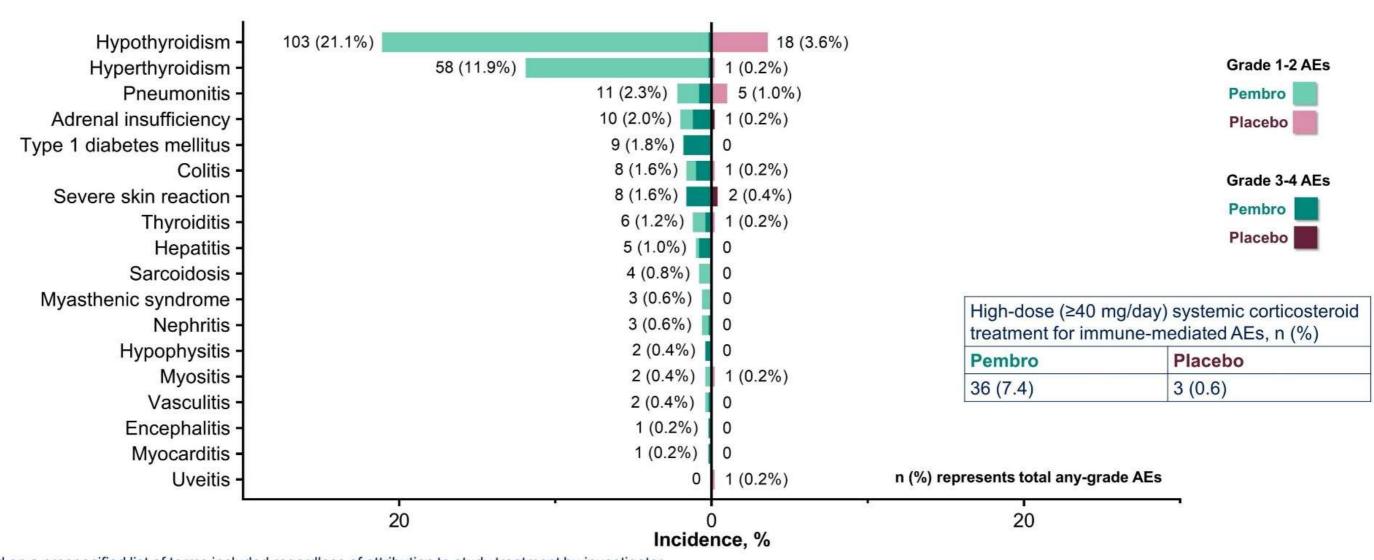


^aDid not cross prespecified p-value boundary for statistical significance of 0.0000093 for 51 events. Final analysis for OS to occur after approximately 200 OS events. ITT population included all randomized participants. NR. not reached. Data cutoff date: December 14, 2020.

Treatment-Related AEs with Incidence ≥5%, As-Treated Population



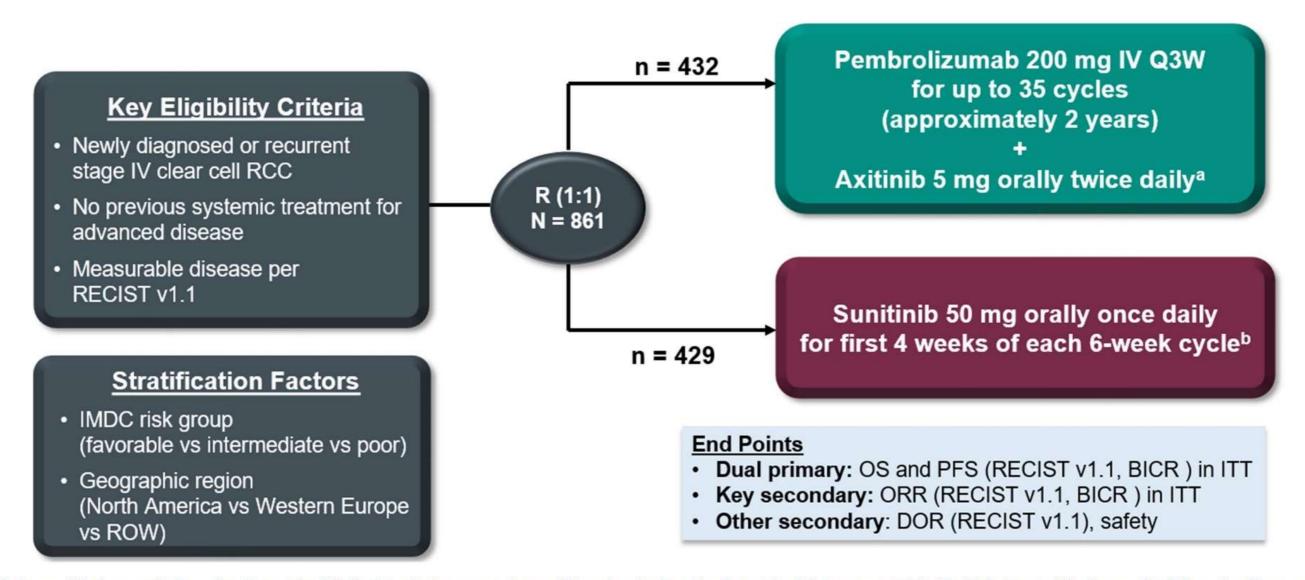
Immune-Mediated AEsa, As-Treated Population



^aBased on a prespecified list of terms included regardless of attribution to study treatment by investigator.

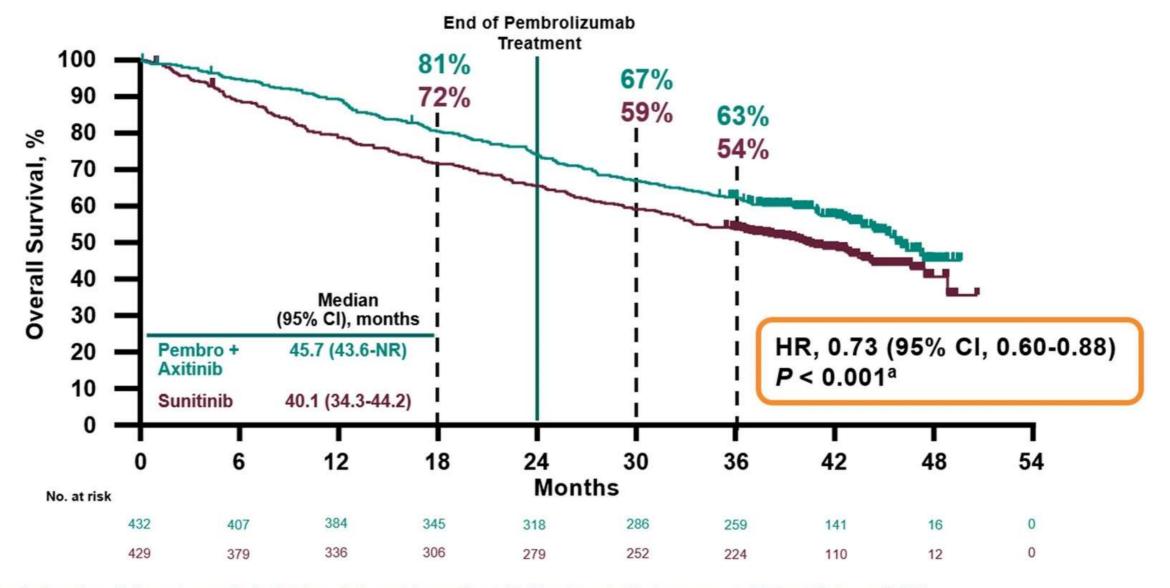
Infusion reactions, pembro: any grade in 7 participants (1.4%), grade 3 in 2 participants (0.4%). Infusion reactions, placebo: any grade in 5 participants (1.0%), grade 3-4 in no participants. No deaths due to immune-mediated events occurred. As-treated population included all participants who received ≥1 dose of study treatment. Data cutoff date: December 14, 2020.

KEYNOTE-426 Study Design



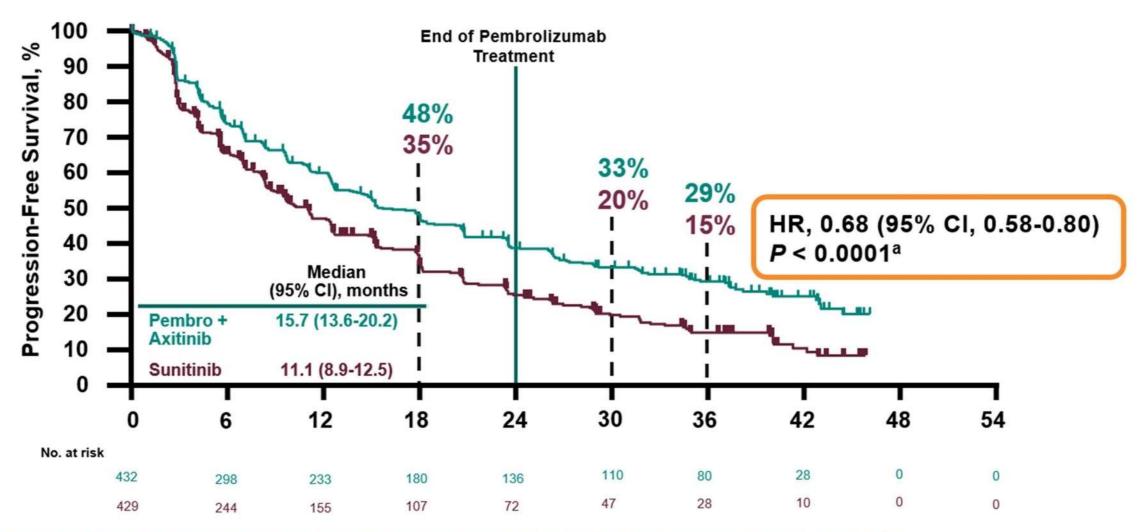
^aAxitinib dose could be increased to 7 mg, then 10 mg, twice daily if safety criteria were met; dose could be reduced to 3 mg, then 2 mg, twice daily to manage toxicity. ^bSunitinib dose could be decreased to 37.5 mg, then 25 mg, once daily for the first 4 weeks of each 6-week cycle to manage toxicity. Data cutoff: January 11, 2021.

OS in the ITT Population



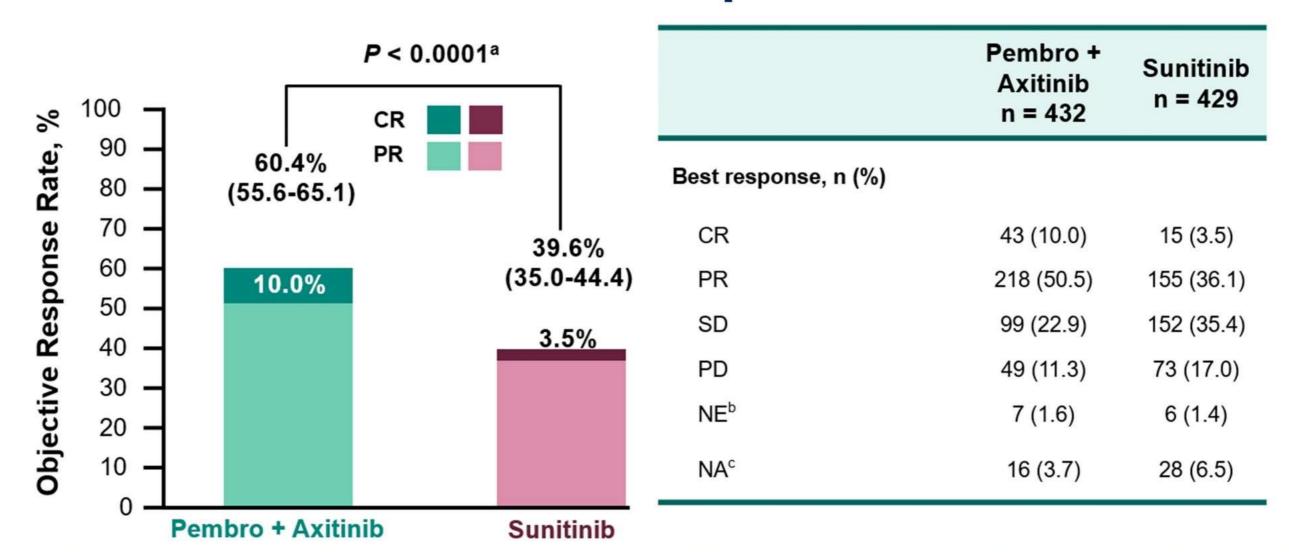
^aBecause superiority of pembrolizumab + axitinib was shown at the first interim analysis, no alpha was allocated to OS; only nominal P values are reported. Data cutoff: January 11, 2021.

PFS in the ITT Population



^aBecause superiority of pembrolizumab + axitinib was shown at the first interim analysis, no alpha was allocated to PFS; only nominal P values are reported. Data cutoff: January 11, 2021.

Confirmed ORR in the ITT Population



^aBecause superiority of pembrolizumab + axitinib was shown at the first interim analysis, no alpha was allocated to confirmed objective response; only nominal *P* values are reported. ^bPostbaseline assessment available but not evaluable (ie, all postbaseline assessments with insufficient data for assessment of response per RECIST v1.1 or CR/PR/SD <6 weeks from randomization).

No postbaseline assessment available for response evaluation; + indicates an ongoing response at time of last disease assessment. Data cutoff: January 11, 2021.

Efficacy in IMDC Subgroups

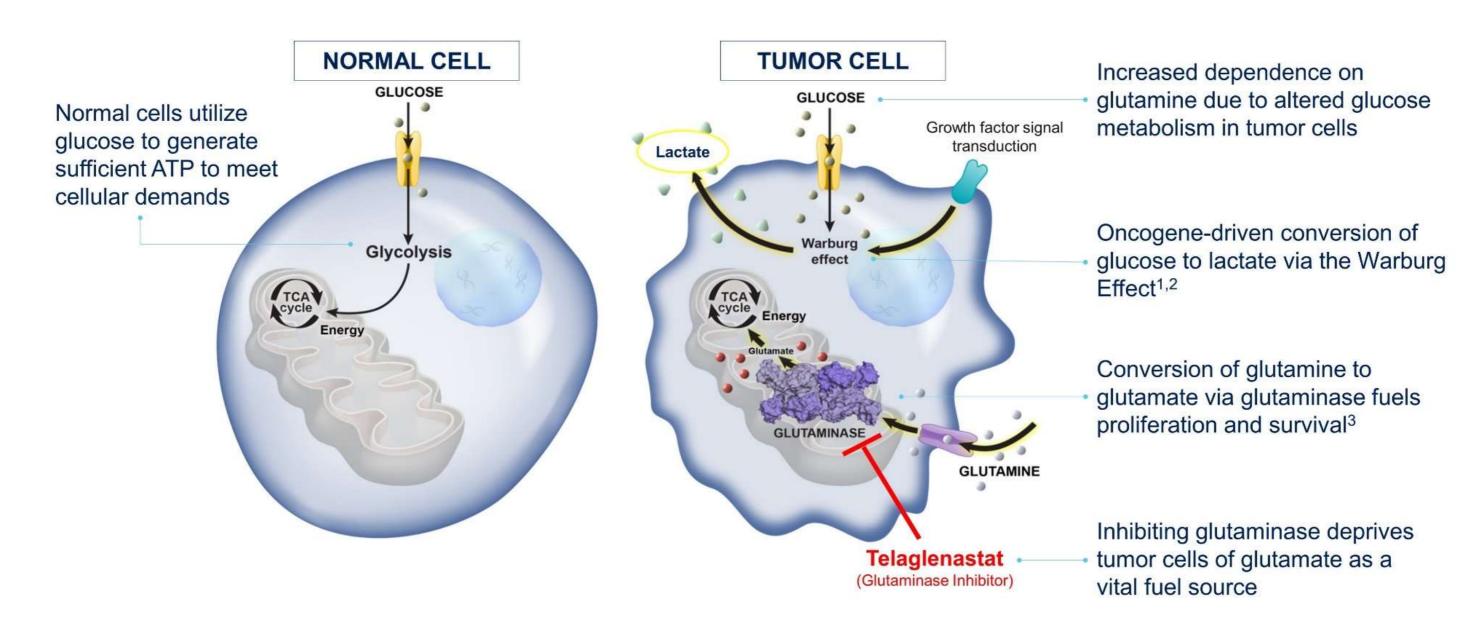
Parameter	ITT		er ITT Favorable Risk	le Risk	Intermediate/Poor Risk	
	Pembro + Axitinib n = 432	Sunitinib n = 429	Pembro + Axitinib n = 138	Sunitinib n = 131	Pembro + Axitinib n = 294	Sunitinib n = 298
OS, HR (95% CI)	0.73 (0.6	0-0.88)	1.17 (0.7	6-1.80)	0.64 (0.5	2-0.80)
42-month rate, %	57.5	48.5	72.3	73.0	50.6	37.6
PFS, HR (95% CI)	0.68 (0.5	8-0.80)	0.76 (0.5	6-1.03)	0.67 (0.5	5-0.81)
Median, months	15.7	11.1	20.7	17.8	13.8	8.2
ORR, %	60.4	39.6	68.8	50.4	56.5	34.9
CR, %	10.0	3.5	11.6	6.1	9.2	2.3
PR, %	50.5	36.1	57.2	44.3	47.3	32.6

Data cutoff: January 11, 2021.

Improved Outcomes with Pembrolizumab + Axitinib

Median Follow-Up	12.8 months	30.6 months	42.8 months
os	NR	NR	45.7
HR (95% CI)	0.53 (0.38-0.74)	0.68 (0.55-0.85)	0.73 (0.60-0.88)
PFS, months	15.1	15.4	15.7
HR (95% CI)	0.69 (0.57-0.84)	0.71 (0.60-0.84)	0.68 (0.58-0.80)
ORR	59%	60%	60%
CR	6%	9%	10%

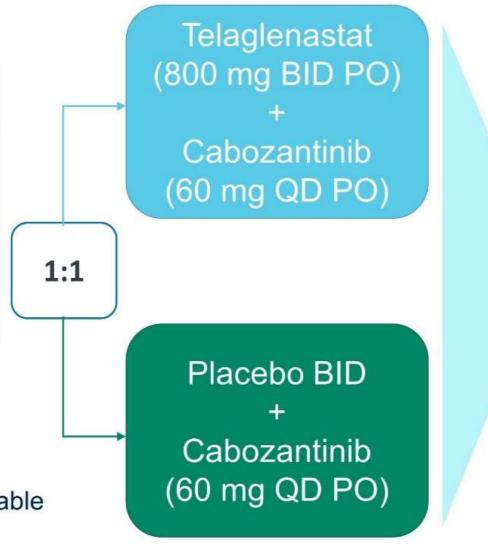
Altered Tumor Metabolism in Tumor Cells



CANTATA Study Design

Key Eligibility Criteria

- Advanced/metastatic clear cell RCC
- KPS ≥ 70%
- 1-2 lines of prior therapy including at least 1 antiangiogenic therapy
 or nivolumab + ipilimumab
- N=444
- Stratification factors:
 - Prior ICI therapy (yes vs. no)
 - IMDC Prognostic Risk Group (favorable vs. intermediate vs. poor)



ENDPOINTS

Primary IRC-adjudicated PFS per RECIST v1.1

Survival Follow-Up

Secondary Overall Survival Investigatorassessed PFS

NCT03428217

Efficacy (IRC-Assessed)

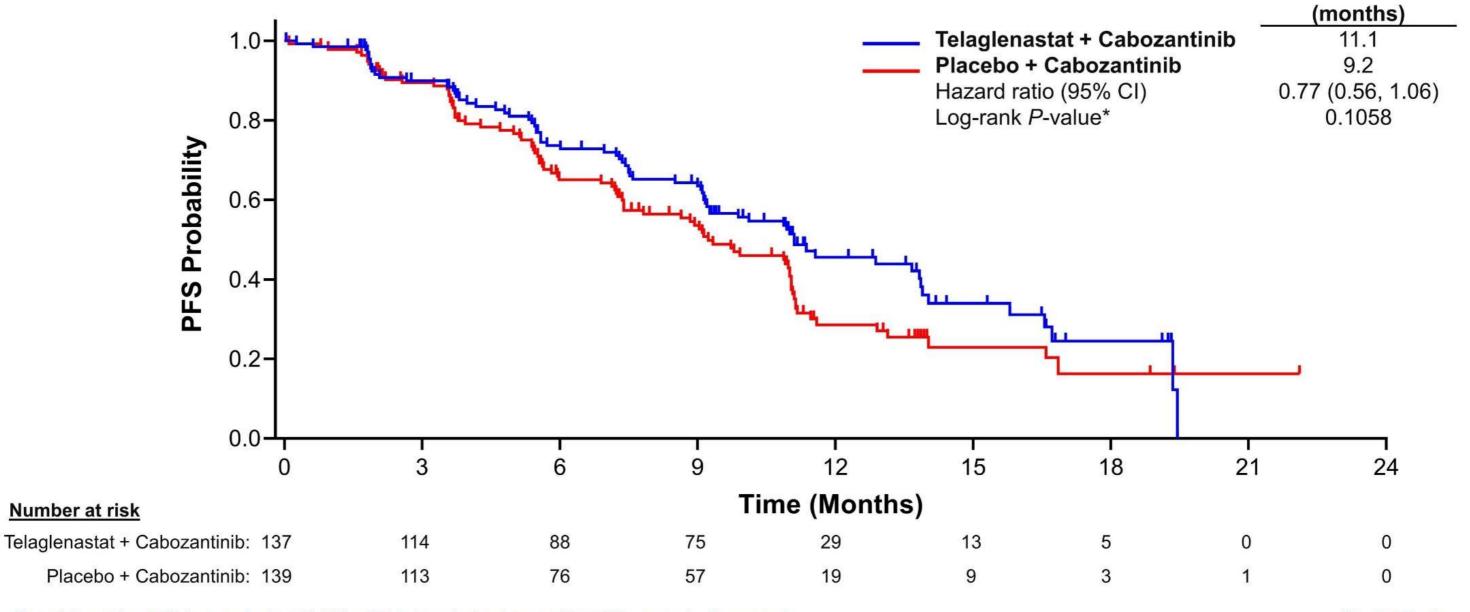
Parameter	Telaglenastat + Cabozantinib (n=221)	Placebo + Cabozantinib (n=223)	
Progression-free survival (IRC)			
Median, months (95% CI)	9.2 (7.6, 11.1)	9.3 (7.6, 11.0)	
Hazard ratio (95% CI) ^a	0.94 (0.7	74, 1.21)	
P-value	0.653		
Confirmed best responses, n (%)			
Complete response	2 (0.9)	2 (0.9)	
Partial response	67 (30.3)	60 (26.9)	
Stable disease	121 (54.8)	134 (60.1)	
Progressive disease	19 (8.6) 19 (8.5)		
Not evaluable/unknown	12 (5.4)	8 (3.6)	
Overall response rate, n (%)	69 (31.2)	62 (27.8)	

CI, confidence interval; CR, complete response; IRC, independent-review committee; PR, partial response.

NOTE: Hazard ratios based on stratified analyses for progression-free survival. Overall survival data not mature at data cutoff for primary analysis (August 31, 2020).

^aBased on stratified analysis according to IMDC prognostic risk group (favorable/intermediate/poor).

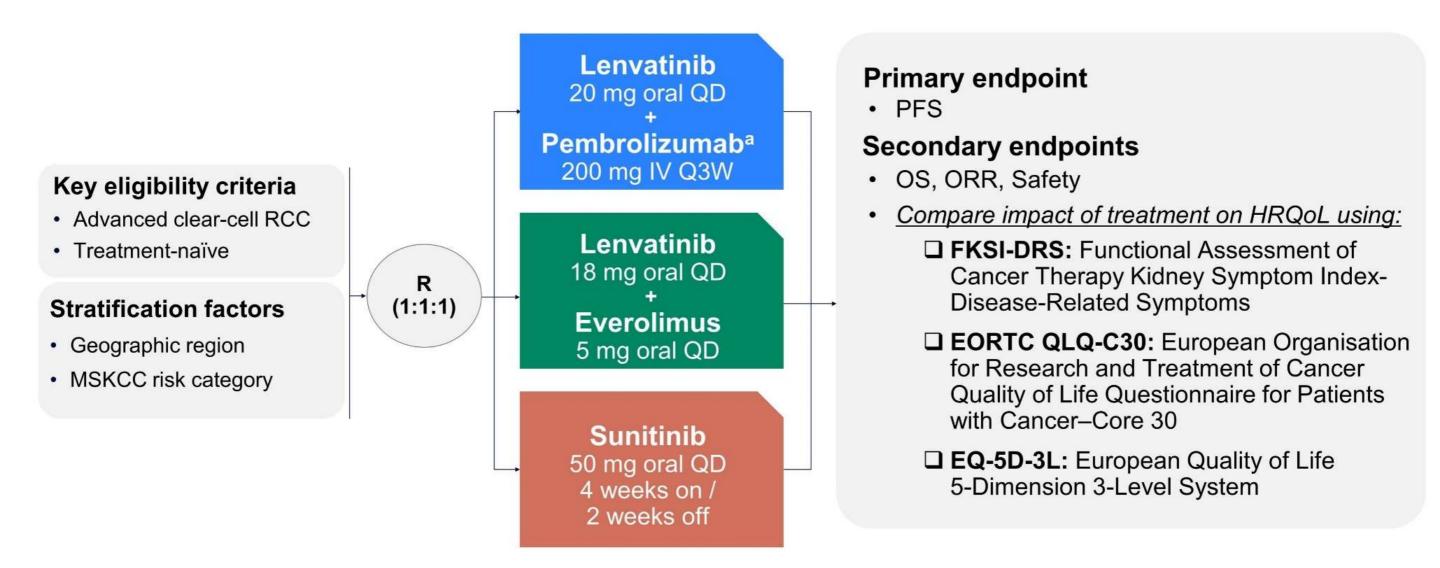
PFS (IRC): Subgroup of Patients With Prior ICI



CI. confidence interval: ICI. immune checkpoint inhibitor; IRC, independent review committee; PFS, progression-free survival

Median PFS

Study Design



^aPatients could receive a maximum of 35 pembrolizumab treatments.
HRQoL, Health-related quality of life; MSKCC, Memorial Sloan Kettering Cancer Center; R, randomization.

Efficacy Summary for the CLEAR Trial

	LEN + PEMBRO	LEN + EVE	SUN
	n = 355	n = 357	n = 357
Median PFS, mo (95% CI)	23.9 (20.8–27.7)	14.7 (11.1–16.7)	9.2 (6.0–11.0)
Stratified HR (95% CI) vs SUN P-value	0.39 (0.32–0.49) < 0.001	0.65 (0.53–0.80) < 0.001	
Median OS, mo (95% CI)	NR (33.6-NE)	NR (NE)	NR (NE)
Stratified HR (95% CI) vs SUN P-value	0.66 (0.49–0.88) 0.005	1.15 (0.88–1.50) 0.3	
Objective response rate, %	71.0	53.5	36.1
Complete response, %	16.1	9.8	4.2
Median duration of treatment, mo (range)	17.0 (0.1, 39.1)	11.0 (0.1, 40.0)	7.8 (0.1, 37.0)

Motzer R et al. *N Engl J Med*. 2021;384:1289-1300. Cl. confidence interval: HR. hazard ratio: NE. not estimable: NR. not reached.

HRQoL Collection Schedule and Instruments

Study	Pre-randomization		F	Randomization (2	1-day cycles)	
period	Baseline			period		
Day	-3 to -1	Cycle 1 Day 1	Cycle 2 Day 1	Cycle 3 Day 1	Cycle 4 Day 1 to Last Cycle Day 1	Off-treatment
HRQoL	X		Х	Х	X	Х

	FKSI-DRS EORTC QLQ-C30		EQ-5D-3L
9	9 symptoms deemed important for advanced kidney cancer	 9 multiple-item scales (5 functional scales, 3 symptom scales, 1 GHS/QoL scale) 6 single-item symptom scales 	 Descriptive system of 5 items A visual analog scale (VAS)
	Total score ranges from 0 to 36 Higher scores represent better HRQoL	 Scores for all scales range from 0 to 100 For the GHS/QoL and functional scales, a higher score corresponds to better HRQoL For symptom scales, a higher score represents worse symptoms 	 Index scores range from 0 (health state equivalent to death) to 1 (perfect health) Higher VAS scores (0 to 100) represent better current health

GHS, global health status.

Methodology

 The impact of treatment on HRQoL was assessed using the FKSI-DRS, EORTC QLQ-C30, and EQ-5D-3L scales for each of the following analyses:

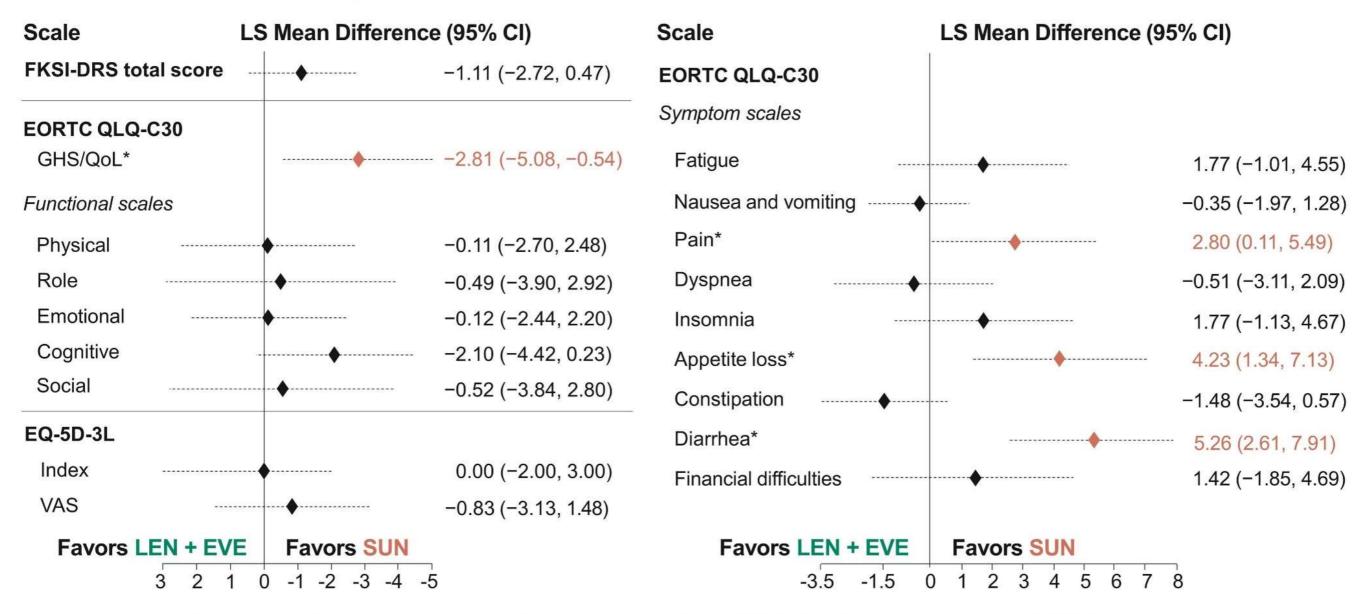
Longitudinal change from baseline	Time to deterioration
	 Time to first deterioration The number of weeks between randomization and the first deterioration event¹
 Assessed by mixed model analysis Least squares (LS) mean changes and 95% CI were calculated from baseline 	 Time until definitive deterioration The number of weeks between randomization and the earliest deterioration event with no subsequent recovery above the deterioration threshold or no subsequent HRQoL assessment data²
	All times to deterioration were calculated and compared using the Kaplan- Meier method, stratified log-rank tests and Cox models

 No adjustments for multiple testing or estimation were used; all P-values (two-sided) and CIs are nominal and descriptive

All randomly assigned patients with any HRQoL data who received ≥ 1 dose of study treatment were included in the HRQoL analyses, unless otherwise specified. Among all patients randomly assigned to treatment, completion and compliance rates for HRQoL instruments were > 90% at baseline across groups. The rates for completion of any instrument declined below 50% at cycle 26 for LEN + PEMBRO, cycle 16 for LEN + EVE, and cycle 12 for SUN as patients discontinued treatment. Compliance was ≥ 80% until cycle 51 across groups; compliance at the off-treatment visit for any instrument was > 78% across groups.

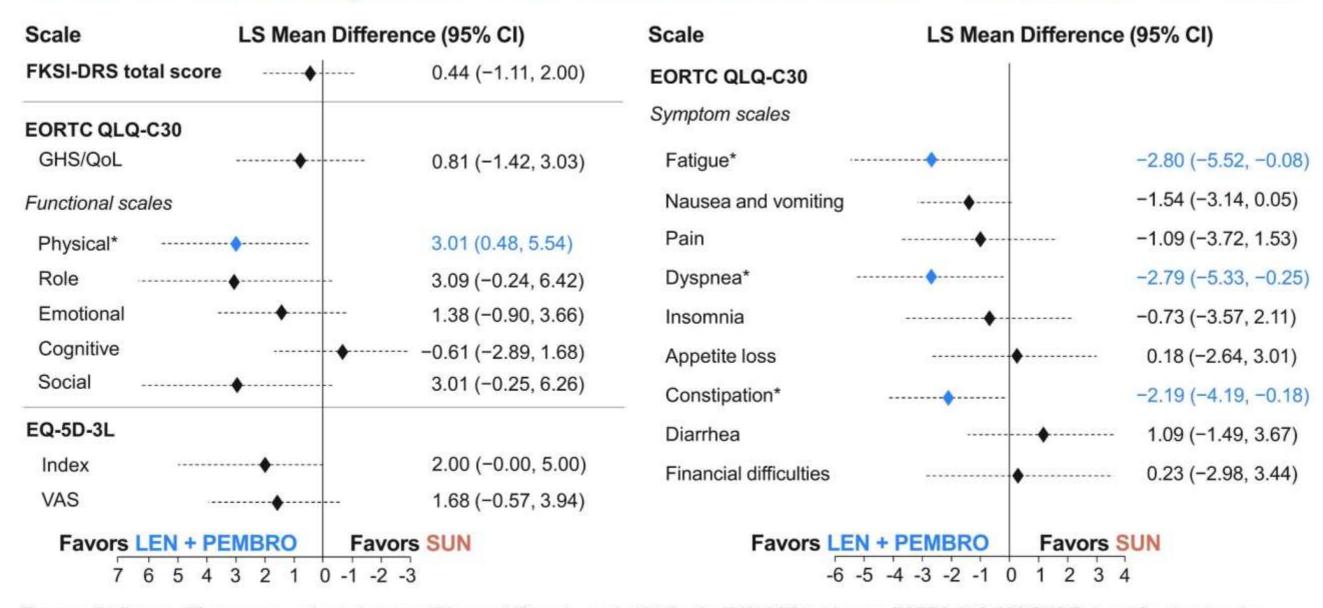
1. Hamidou Z et al. Oncologist. 2011;16(10):1458-1468; 2. Bonnetain F et al. Eur J Cancer. 2010;46(15):2753-2762.

Overall Least Squares Mean Difference: LEN + EVE vs SUN



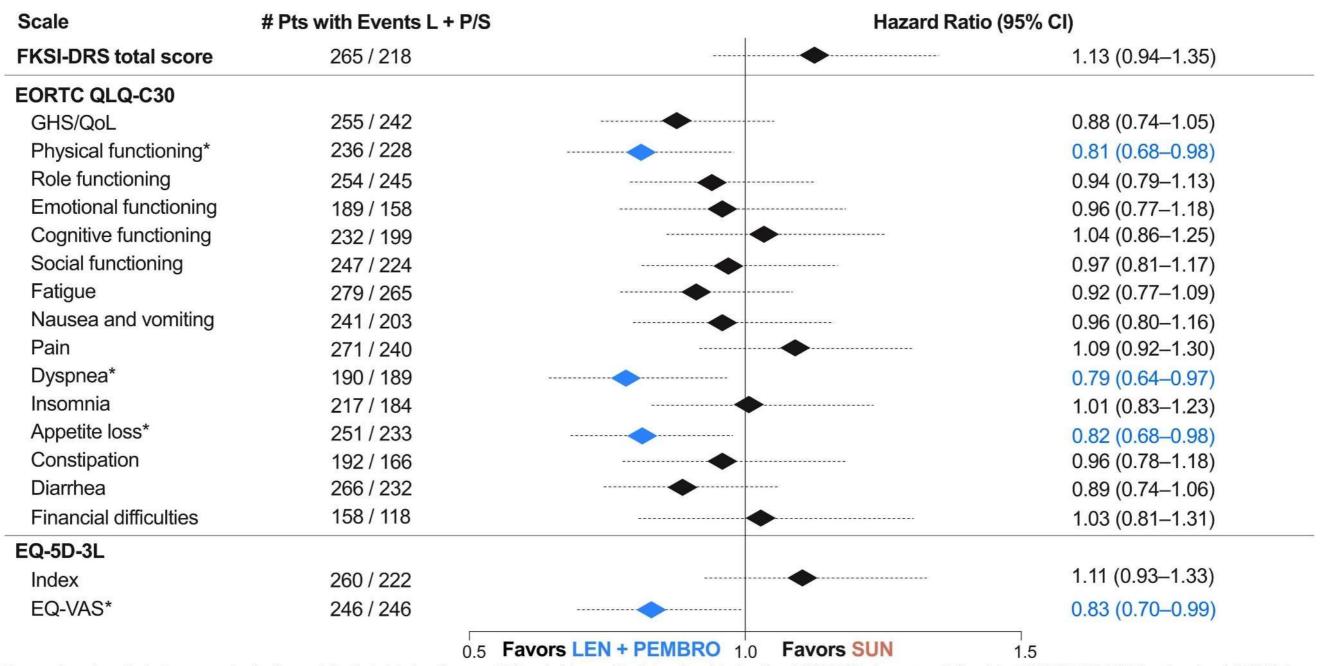
The overall LS mean difference was estimated at mean follow-up (46 weeks, cycle 15). For the FKSI-DRS total score, EORTC QLQ-C30 GHS/QoL and functional scales, and EQ-5D-3L scales, a higher score corresponds to better HRQoL. For EORTC QLQ-C30 symptom scales, a higher score represents worse symptoms *Statistically significant difference (P < 0.05).

Overall Least Squares Mean Difference: LEN + PEMBRO vs SUN



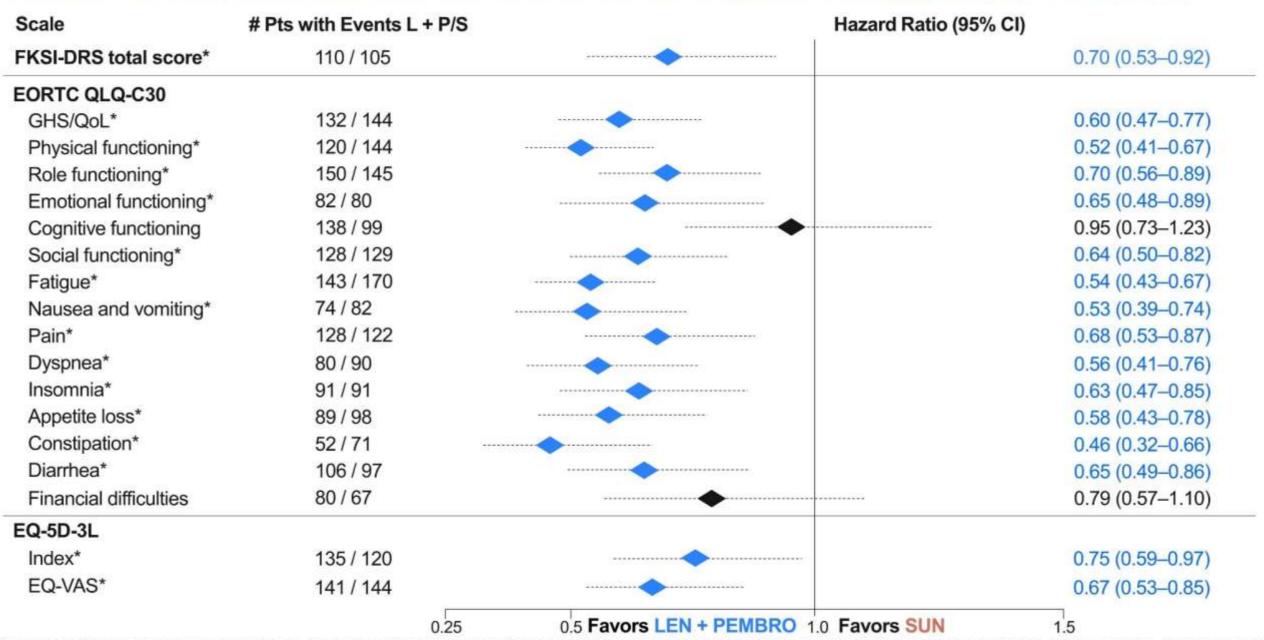
The overall LS mean difference was estimated at mean follow-up (46 weeks, cycle 15). For the FKSI-DRS total score, EORTC QLQ-C30 GHS/QoL and functional scales, and EQ-5D-3L scales, a higher score corresponds to better HRQoL. For EORTC QLQ-C30 symptom scales, a higher score represents worse symptoms *Statistically significant difference (*P* < 0.05).

Time to First Deterioration^a: LEN + PEMBRO vs SUN



aThe number of weeks between randomization and the first deterioration event. Thresholds used to determine deterioration: FKSI-DRS: decrease of ≥3 points; EORTC QLQ-C30 functional and GHS/QoL score decrease of ≥10 points; EORTC QLQ-C30 symptom scores: increase of ≥10 points; EQ-5D-3L Index: decrease of ≥0.08 points, VAS: decrease of ≥7 points. *Statistically significant differences for the hazard of time to first deterioration.

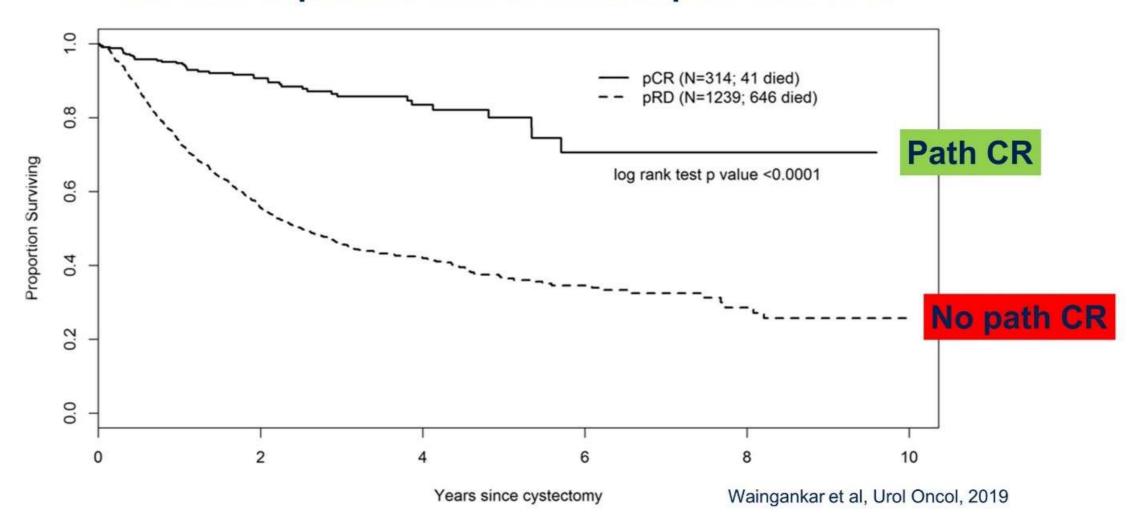
Time Until Definitive Deterioration^a: LEN + PEMBRO vs SUN



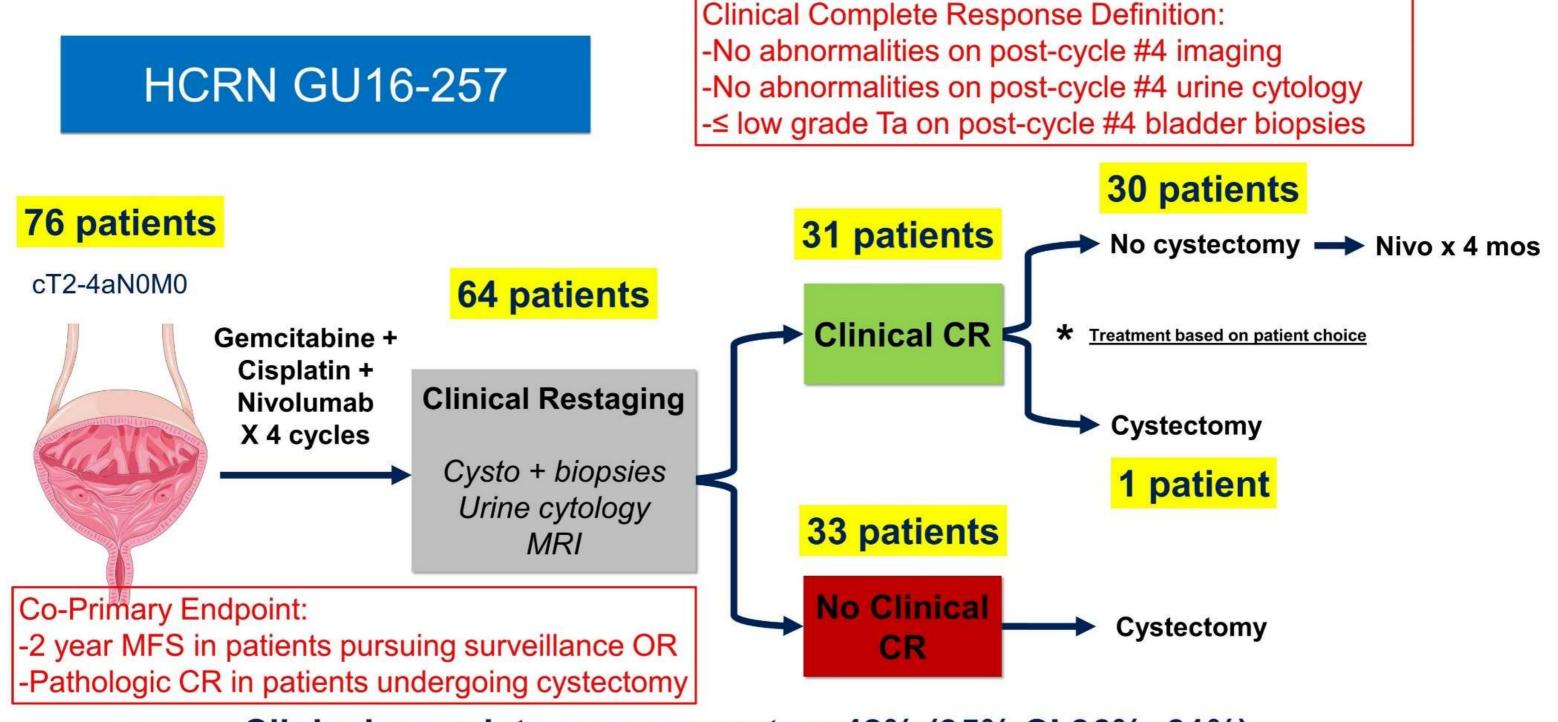
The number of weeks between randomization and the earliest deterioration event with no subsequent recovery above the deterioration threshold or no subsequent HRQoL assessment data. Thresholds used to determine deterioration: FKSI-DRS: decrease of ≥3 points; EORTC QLQ-C30 functional and GHS/QoL score: decrease of ≥10 points; EORTC QLQ-C30 symptom scores: increase of ≥10 points; EQ-5D-3L Index decrease of ≥0.08 points, VAS: decrease of ≥7 points. *Statistically significant differences for the hazard of time to definitive deterioration.

Zhubné nádory močového mechúra

Survival of patients with or without pCR after NAC

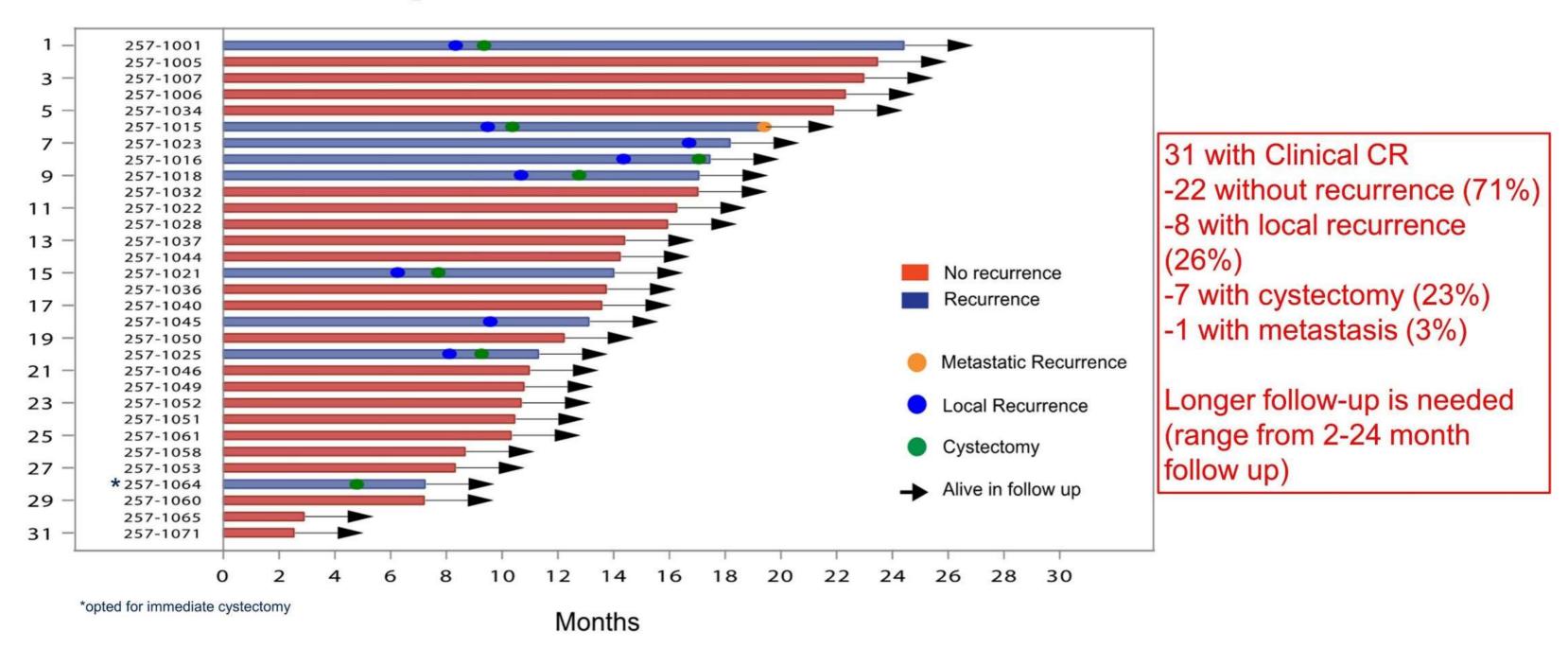


A pathological CR is achieved in ~30-40% of patients with cisplatinbased NAC for MIBC and is associated with favorable outcomes



Clinical complete response rate = 48% (95% CI 36%, 61%)

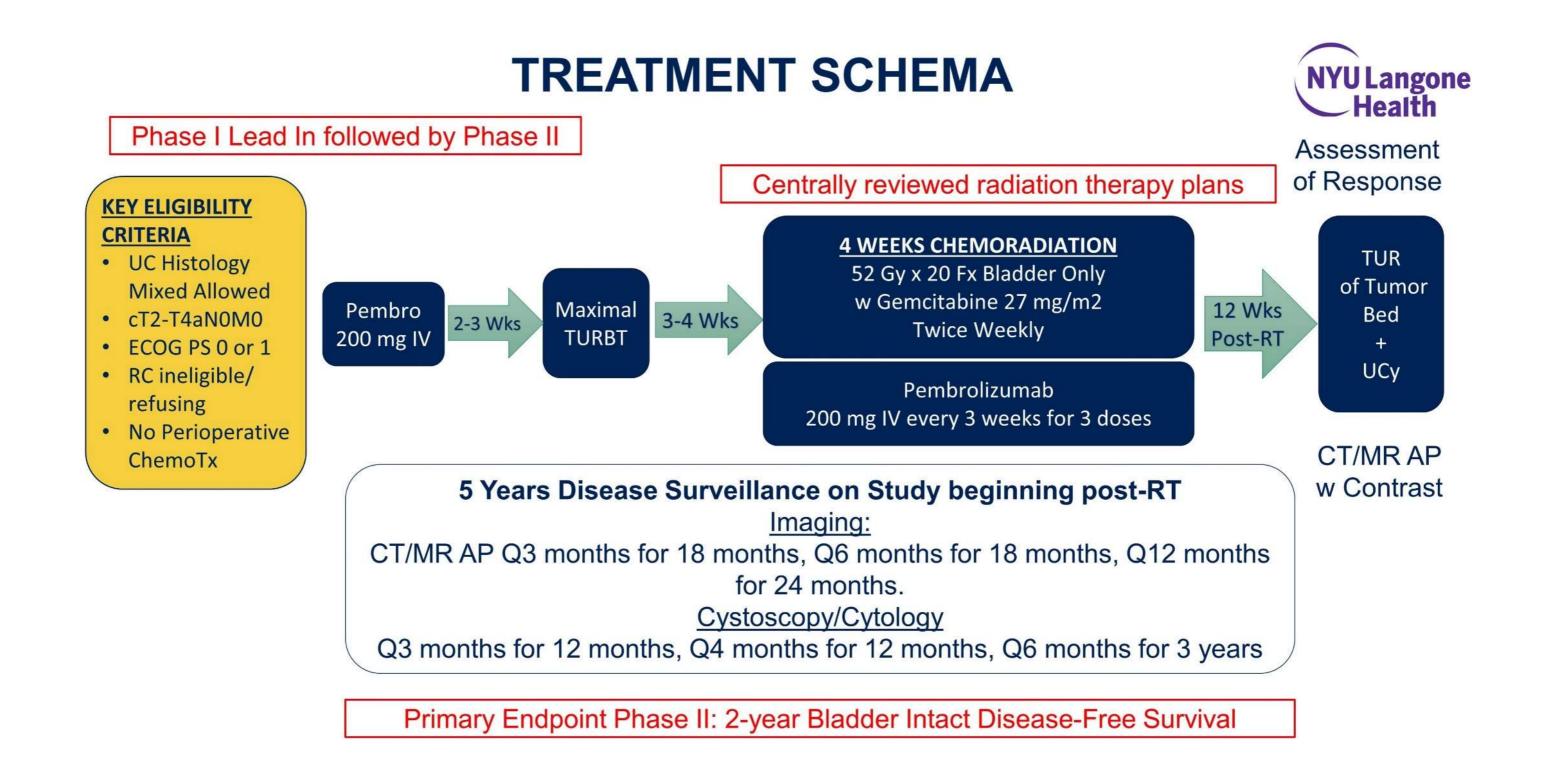
Outcomes of patients with clinical CR



Pathological stage in patients with cCR undergoing delayed cystectomy after local recurrence (n=6)

Pathological stage	N (%)
ypT0N0	1 (17%)
ypTaN0	1 (17%)
ypTisN0	1 (17%)
ypT2N0	2 (32%) 1 (17%) 50%
ypT4N1	1 (17%) 50%

 Abstract 4504: Pembrolizumab in combination with gemcitabine and concurrent hypofractionated radiation therapy as bladder sparing treatment for muscle-invasive urothelial cancer of the bladder: A multicenter phase 2 trial



 Abstract 4504: Pembrolizumab in combination with gemcitabine and concurrent hypofractionated radiation therapy as bladder sparing treatment for muscle-invasive urothelial cancer of the bladder: A multicenter phase 2 trial



Treatment Summary

Phase I Cohort:

- 1 of 3 initial patients had a DLT (Grade 2 irAE (diarrhea) treated with corticosteroids, missed final dose of pembrolizumab)
- 3 additional patients treated with no additional DLT events and all completed protocol therapy

Phase II Cohort:

	N= 48	Comments
Completed All Protocol Therapy	42 (85%)	
Dose Reductions in Gemcitabine	12 (25%)	78% due to hematologic toxicity
Discontinued RT/Gemcitabine	1 (2%)	
Discontinued Gemcitabine only	3 (6%)	2 pts after initial dose reductions (LFTs and diarrhea/fatigue)
Discontinued Pembrolizumab	4 (8%)	immune-related nephritis, protein-losing enteropathy, polyneuropathy, myalgias

2 pts did not start combination therapy due to 1. enrollment in hospice, 2. not meeting treatment parameters on W1D1 of combination therapy

 Abstract 4504: Pembrolizumab in combination with gemcitabine and concurrent hypofractionated radiation therapy as bladder sparing treatment for muscle-invasive urothelial cancer of the bladder: A multicenter phase 2 trial



12 Weeks Post-RT Response – Per Protocol¹

12 weeks post RT Response	N=6	N=48	N=54
CR	5 (83%)	27(56%)	32 (59%)
PR	0	4 (8.3%)	4 (7.4%)
NR	0	0	0
Progression	0	1 (2.4%)	1 (1.8%)
Not-evaluable ²	1(17%)	10 (21%)	11 (20%)
Missed	0	3	3
Off-Study	0	3	3

- 2Not-evaluable for the post-RT response per protocol due to missed cytology or biopsy
- 2 patients who remained on study missed week 12 cystoscopy/biopsy/cytology
- 3 patients were off-study before the 12-weeks post-RT response assessment

¹Assessment of post-treatment response required:

- TUR/biopsy of tumor bed
- Urine cytology
- CT/MRIAP
 - If all 3 not complete, pts were not evaluable per protocol

<u>CR</u>: Negative cysto/TUR path and cytology

PR: Positive cytology or CIS/non-invasive disease

NR: cT1 or greater

Progression: progression to muscle-invasive or

metastatic disease

 Abstract 4504: Pembrolizumab in combination with gemcitabine and concurrent hypofractionated radiation therapy as bladder sparing treatment for muscle-invasive urothelial cancer of the bladder: A multicenter phase 2 trial



12 Weeks Post-RT Response – Per Protocol¹

12 weeks post RT Response	N=6	N=48	N=54
CR	6 (100%)	37(77%)	43 (80%)
PR	0	4 (8.3%)	4 (7.4%)
NR	0	0	0
Progression	0	1 (2.4%)	1 (2.0%)
Missed	0	3	3
Off-Study	0	3	3

11 inevaluable patients
were clinically without
evidence of disease at the
time of the 12-weeks postRT assessment consistent
with clinical CR

How does post RT response augment therapy?

· 3 patients who remained on study missed week 12 cystoscopy/biopsy/cytology

Only Tumor Bed

Evaluated

3 patients were off-study before the 12-weeks post-RT response assessment

Stringently defined criteria for response assessments warranted

¹Assessment of post-treatment response required:

- TUR/biopsy of tumor bed
- Urine cytology
- CT/MRI AP

If all 3 not complete, pts were not evaluable per protocol

<u>CR</u>: Negative cysto/TUR path and cytology

PR: Positive cytology or CIS/non-invasive disease

NR: cT1 or greater

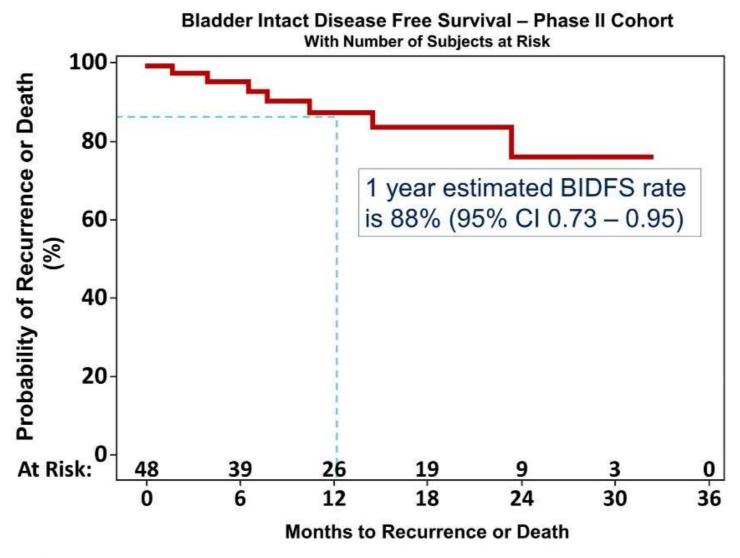
Progression: progression to muscle-invasive or

metastatic disease

 Abstract 4504: Pembrolizumab in combination with gemcitabine and concurrent hypofractionated radiation therapy as bladder sparing treatment for muscle-invasive urothelial cancer of the bladder: A multicenter phase 2 trial

Primary Endpoint: Bladder-Intact Disease-Free Survival - Efficacy Cohort (N=48)





Longer Follow Up
Warranted as
Primary Endpoint is
2 year BIDFS

Median Follow up Efficacy Cohort: 14.6 months (1.6 months - 32.3 months)

JAVELIN Bladder 100 study design (NCT02603432)

1L CHEMOTHERAPY

MAINTENANCE

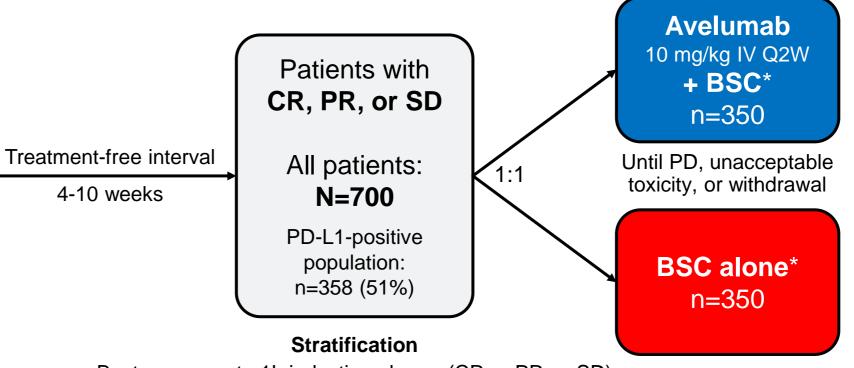
Unresectable locally advanced or metastatic UC with measurable stage IV

disease

Received standard 1L chemotherapy (4-6 cycles):

- Cisplatin + gemcitabine or
- Carboplatin + gemcitabine

All endpoints were measured post randomization (after chemotherapy)



Best response to 1L induction chemo (CR or PR vs SD)

Metastatic site (visceral vs nonvisceral†)

Primary endpoint

- OS in 2 primary analysis populations:
 - All randomized patients
 - PD-L1—positive population

Secondary endpoints

- PFS and objective response per RECIST 1.1 by BICR
- TTR, DOR, and disease control[‡] by BICR
- Safety

^{*} BSC (eg, antibiotics, nutritional support, hydration, and pain management) was administered according to local practice on the basis of the clinical judgment and the patient's condition; other systemic antitumor therapy was not permitted, but palliative local radiotherapy for isolated lesions was acceptable.

[†] Nonvisceral stratum included patients with unresectable locally advanced disease in addition to those with only nonvisceral disease, including bone metastasis.

[‡] Response plus SD for ≥6 weeks.

Avelumab first-line (1L) maintenance for advanced urothelial carcinoma (UC): Analysis of clinical and genomic subgroups from the JAVELIN Bladder 100 trial.

	Pts, n		Median OS (95% CI), months		
Subgroup	Avelumab + BSC	BSC	Avelumab + BSC	BSC	HR (95% CI)
Upper tract	106	81	19.9 (15.3, NE)	17.4 (12.8, 33.0)	0.89 (0.578, 1.373)
Lower tract	244	269	22.5 (19.0, 28.3)	14.1 (11.8, 17.9)	0.62 (0.477, 0.802)
Metastatic disease	216	215	18.2 (13.8, 20.3)	14.1 (11.7, 17.3)	0.88 (0.678, 1.147)
LA and unresectable disease	133	133	NE (25.3, NE)	17.9 (13.5, NE)	0.40 (0.265, 0.617)
Lymph node-only disease*	48	39	NE (23.8, NE)	NE (10.7, NE)	0.55 (0.259, 1.152)
1L gemcitabine + carboplatin, PD-L1+ tumor	74	54	24.0 (18.6, NE)	16.1 (9.4, NE)	0.67 (0.393, 1.137)
TCGA: basal squamous	45	44	24.0 (16.0, NE)	17.9 (12.7, NE)	0.62 (0.326, 1.187)
TCGA: luminal	30	25	23.8 (12.5, NE)	NE (14.3, NE)	1.01 (0.403, 2.509)
TCGA: luminal infiltrated	143	143	19.9 (18.2, NE)	14.3 (12.8, 18.6)	0.68 (0.481, 0.968)
TCGA: luminal papillary	61	63	22.5 (18.2, 26.0)	13.4 (10.1, NE)	0.63 (0.370, 1.079)

NE, not estimable *Post-chemotherapy.

Avelumab first-line (1L) maintenance plus best supportive care (BSC) versus BSC alone for advanced urothelial carcinoma (UC): Analysis of time to end of next-line therapy in JAVELIN Bladder 100.

	Median time to end of next-line				
	Patients, n therapy (95% CI), months				
	Avelumab	500			
	*	BSC			Hazard ratio
	BSC	alone	Avelumab + BSC	BSC alone	(95% CI)
All randomized pts	350	350	14.8 (12.0, 17.0)	9.2 (8.0, 11.5)	0.67 (0.545, 0.815)
Pts with PD-L1+ tumors	189	169	18.1 (12.5, 19.2)	9.0 (7.9, 12.5)	0.61 (0.451, 0.818)
Pts with PD-L1- tumors	139	131	11.9 (9.1, 15.4)	9.3 (7.6, 12.8)	0.76 (0.560, 1.035)

42

Zhubné nádory prostaty

Presenter: Michael J. Morris, Memorial Sloan Kettering Cancer Center

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

Eligible patients

- Previous treatment with both
 - ≥ 1 androgen receptor pathway inhibitor
 - 1 or 2 taxane regimens
- Protocol-permitted standard of care (SOC) planned before randomization
 - Excluding chemotherapy immunotherapy, radium-223, investigational drugs
- ECOG performance status 0–2
- Life expectancy > 6 months
- PSMA-positive mCRPC on PET/CT with ⁶⁸Ga-PSMA-11



- Randomization stratified by
 - ECOG status (0–1 or 2)
 - LDH (high or low)
 - Liver metastases (yes or no)
 - Androgen receptor pathway inhibitors in SOC (yes or no)

- CT/MRI/bone scans
 - Every 8 weeks (treatment)
 - Every 12 weeks (follow-up)
 - Blinded independent central review

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Alternate primary endpoints

Radiographic progression-free survival (rPFS) per PCWG3

Overall survival (OS)

Key secondary endpoints

Time to first symptomatic skeletal event (SSE)

RECIST v1.1 overall response rate

RECIST v1.1 disease control rate

Other secondary endpoints

Safety and tolerability

Biomarkers including PSA

Health-related quality of life and pain

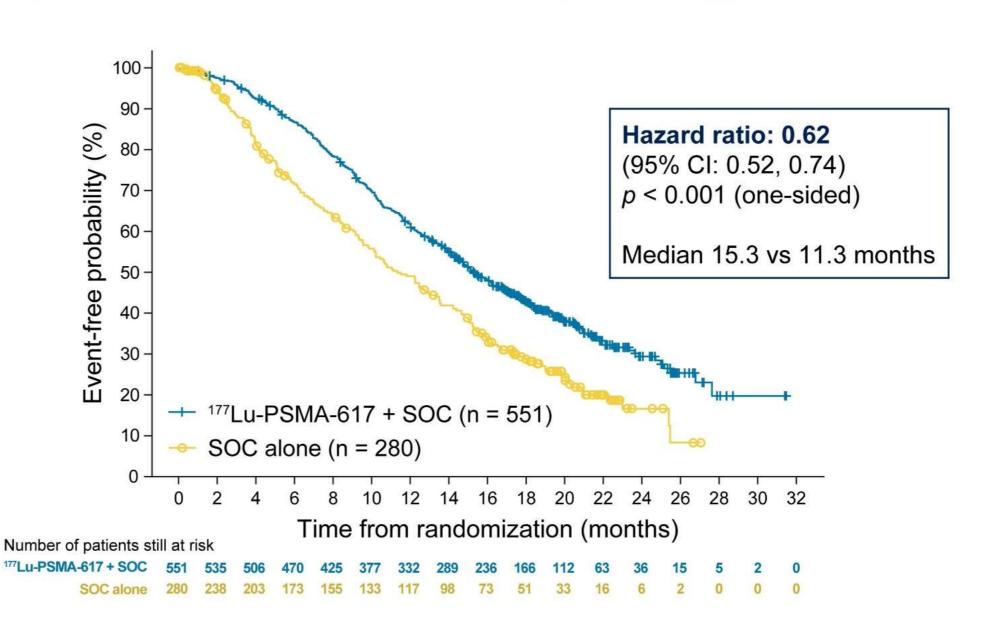
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Primary endpoints: ¹⁷⁷Lu-PSMA-617 prolonged OS

Primary analysis

All randomized patients

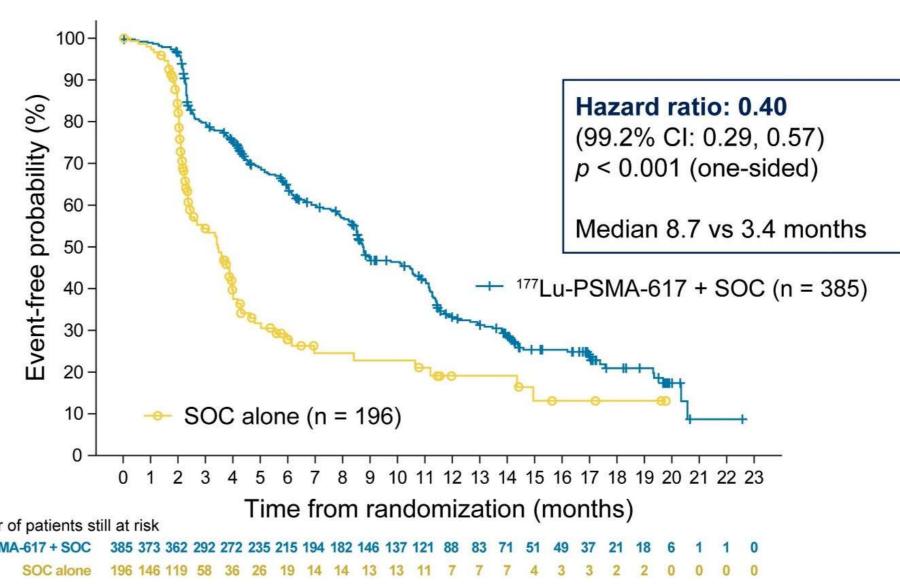
(N = 831)



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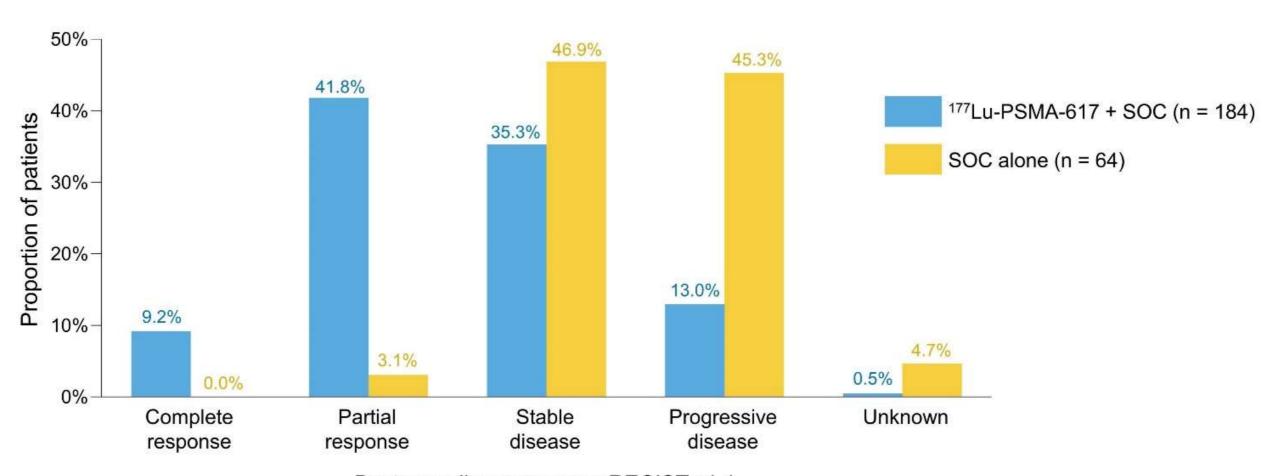
Primary endpoints: ¹⁷⁷Lu-PSMA-617 improved rPFS

Primary analysis rPFS analysis set (n = 581)



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Secondary endpoint: RECIST v1.1 responses favored the ¹⁷⁷Lu-PSMA-617 arm in patients with measurable disease



Best overall response per RECIST v1.1

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Higher rate of drug-related treatment-emergent adverse events with addition of ¹⁷⁷Lu-PSMA-617 to SOC

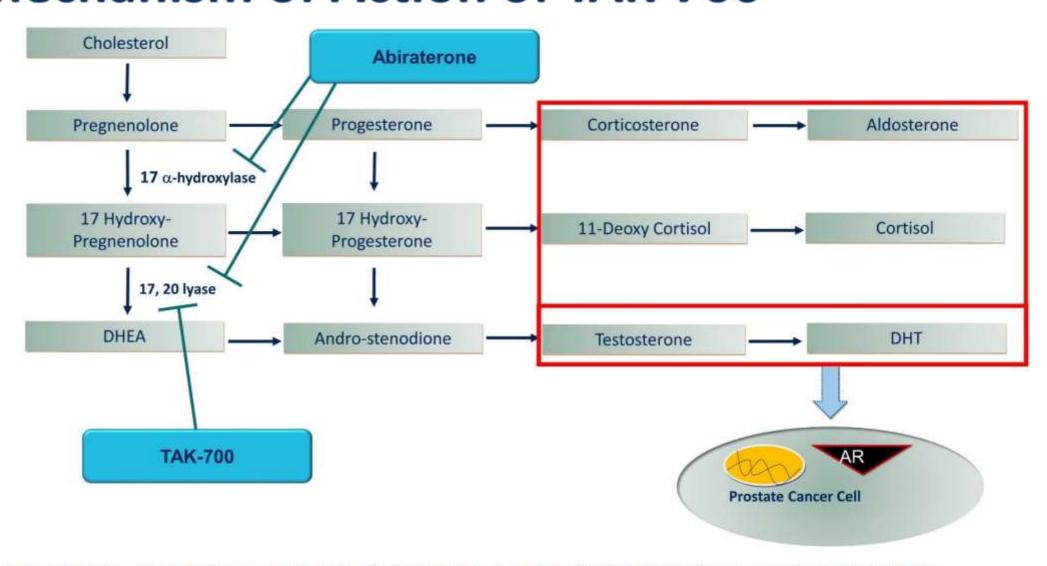
	All gr	ades	Grade 3–5		
Patients, n (%)	¹⁷⁷ Lu-PSMA-617 + SOC (n = 529)	SOC alone (n = 205)	¹⁷⁷ Lu-PSMA-617 + SOC (n = 529)	SOC alone (n = 205)	
Any TEAE	451 (85.3)	59 (28.8)	150 (28.4)	8 (3.9)	
Serious	49 (9.3)	5 (2.4)	43 (8.1)	5 (2.4)	
Grade 5	-	_	5 (0.9)	0 (0.0)	

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Treatment-emergent adverse events grouped as topics of interest: no unexpected or concerning safety signals

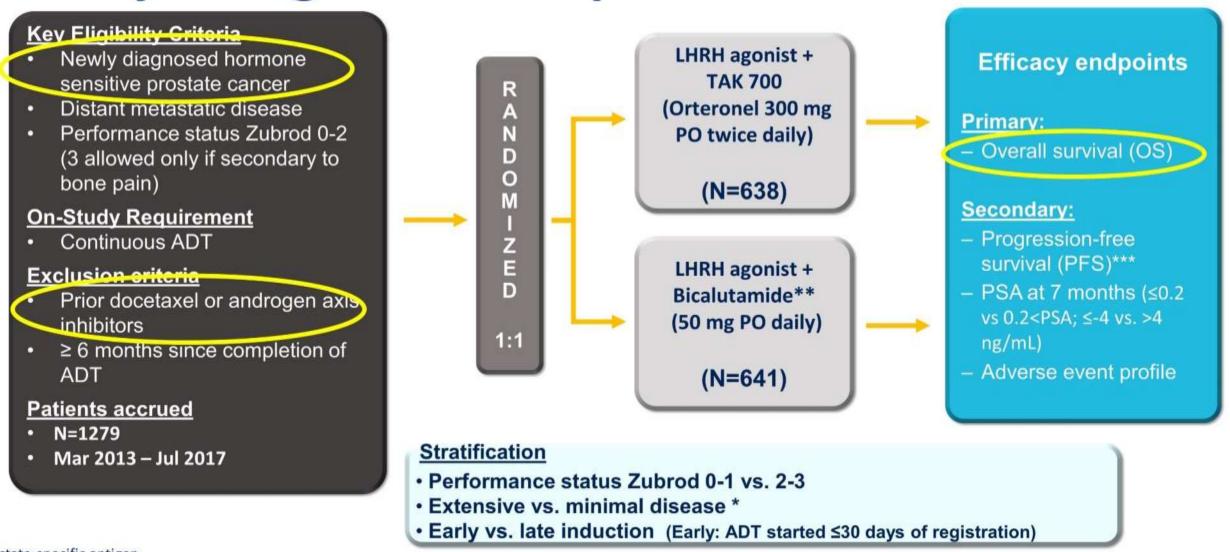
	All gr	ades	Grade 3–5		
Patients, n (%)	¹⁷⁷ Lu-PSMA-617 + SOC (n = 529)	SOC alone (n = 205)	¹⁷⁷ Lu-PSMA-617 + SOC (n = 529)	SOC alone (n = 205)	
Fatigue	260 (49.1)	60 (29.3)	37 (7.0)	5 (2.4)	
Bone marrow suppression	251 (47.4)	36 (17.6)	124 (23.4)	14 (6.8)	
Leukopenia Lymphopenia Anemia Thrombocytopenia	66 (12.5) 75 (14.2) 168 (31.8) 91 (17.2)	4 (2.0) 8 (3.9) 27 (13.2) 9 (4.4)	13 (2.5) 41 (7.8) 68 (12.9) 42 (7.9)	1 (0.5) 1 (0.5) 10 (4.9) 2 (1.0)	
Dry mouth	208 (39.3)	2 (1.0)	0 (0.0)	0 (0.0)	
Nausea and vomiting	208 (39.3)	35 (17.1)	8 (1.5)	1 (0.5)	
Renal effects	46 (8.7)	12 (5.9)	18 (3.4)	6 (2.9)	
Second primary malignancies	11 (2.1)	2 (1.0)	4 (0.8)	1 (0.5)	
Intracranial hemorrhage	7 (1.3)	3 (1.5)	5 (0.9)	2 (1.0)	

Mechanism of Action of TAK-700



Stanbrough, et al. Cancer Res, 66:2815–2825, 2006. Montgomery, et al. Cancer Res, 68:4447–4454, 2008. Attard, et al. Cancer Cell, 16:458–462, 2008. Potter, et al. J Med Chem, 38:2463–2471, 1995.

Study Design and Endpoints



PSA, prostate-specific antigen

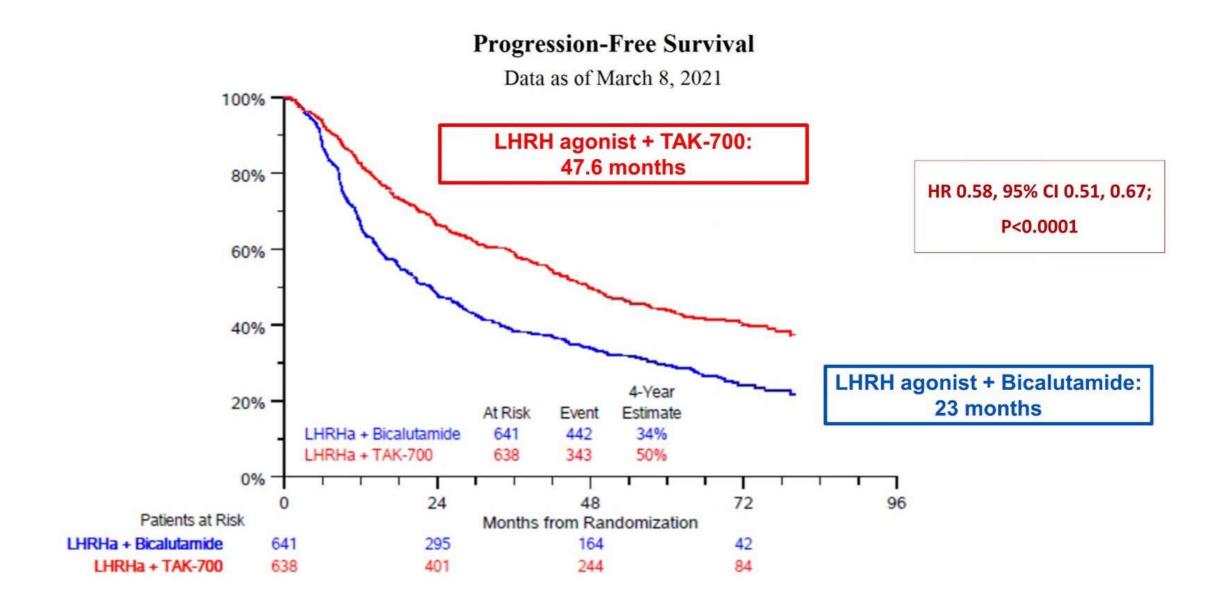
www.ClinicalTrials.gov (NCT01809691)

^{*} Minimal: Patients with involvement of vertebrae and/or pelvic bones and/or lymph nodes. Extensive: All patients with greater than minimal involvement.

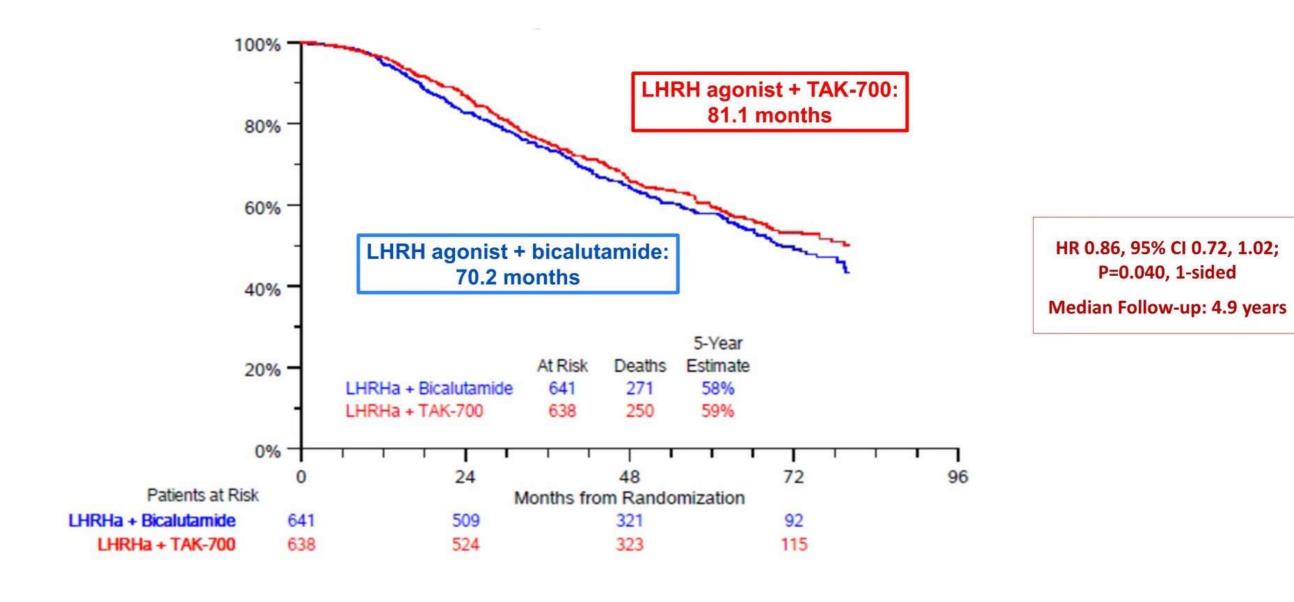
^{**} Combined androgen blockade was used to provide a more rigorous comparator (Prostate Cancer Trialists Collaborative Group. The Lancet 2000, 9214:1491-8)

^{***} From date of randomization to first occurrence of PSA or radiographic progression, symptomatic deterioration, or death due to any cause

PFS: TAK-700 significantly reduced the risk of progression by 42%



Primary Analysis ITT Comparison of OS By Arm



Ďakujem za pozornosť.

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