



KEYTRUDA® (pembrolizumab), in combination with **KISPLYX®** (lenvatinib), is indicated for the first-line treatment of adult patients with advanced renal cell carcinoma (RCC).

Adverse events should be reported. Reporting forms and information can be found at https://yellowcard.mhra.gov.uk/ (please note that the MHRA Yellow Card link will redirect you to an external website, for which MSD does not review or control the content) or search for MHRA Yellow Card in the Google Play or Apple App Store. Adverse events should also be reported to Merck Sharp & Dohme (UK) Limited (Tel: 020 8154 8000).

Prescribing Information for KEYTRUDA and KISPLYX can be accessed via the 'PI' buttons at the bottom of this page and throughout.

The KEYTRUDA Summary of Product Characteristics can be accessed by clicking the following links: Great Britain; Northern Ireland.

The KISPLYX Summary of Product Characteristics can be accessed by clicking the following links: Great Britain; Northern Ireland.

Please consult the Summary of Product Characteristics and Risk Management Materials for further information before making any prescribing decisions.

Job code: GB-KLR-00237 Date of preparation: April 2024

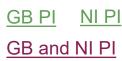








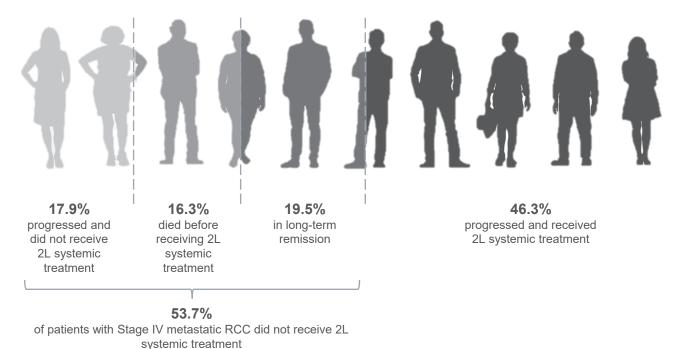






2L systemic treatment in patients with metastatic RCC¹

In a survey of 103 physicians who treated 4509 patients monthly in five European countries in 2020,^a more than 50% of patients with Stage IV metastatic RCC did not receive 2L systemic treatment



Adapted from Kantar Health 20201

^aFrance, Germany, Italy, Spain, UK. 2L, second-line; RCC, renal cell carcinoma







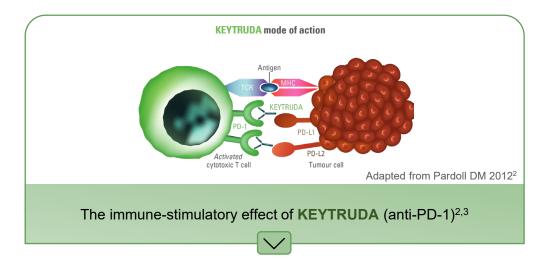


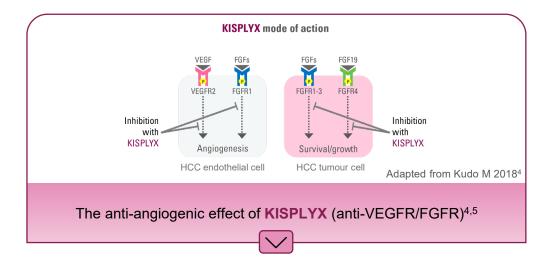












FGF, fibroblast growth factor; FGFR, fibroblast growth factor receptor; KIT, proto-oncogene c-KIT; MHC, major histocompatibility complex; MOA, mode of action; PD-1, programmed death receptor-1; PDGFR, platelet-derived growth factor receptor; PD-L1, programmed death ligand-1; PD-L2, programmed death ligand-2; RET, proto-oncogene RET; RTK, receptor tyrosine kinase; TCR, T-cell receptor; VEGF, vascular endothelial growth factor receptor.



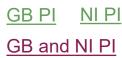




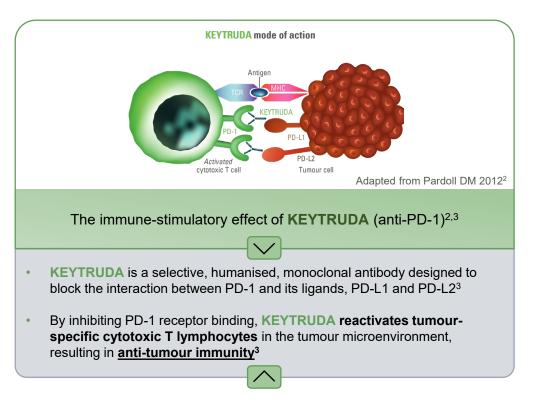


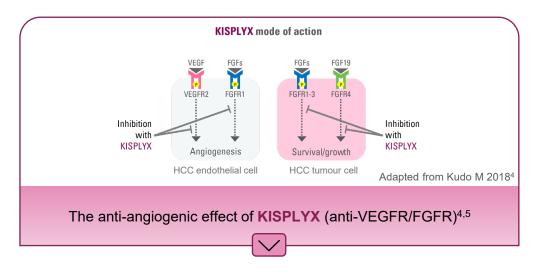












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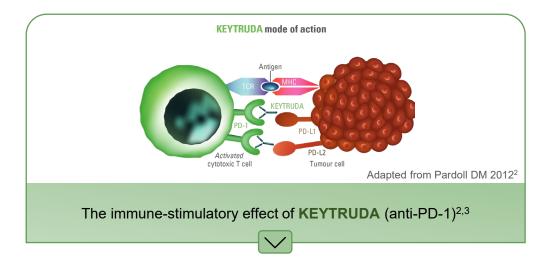


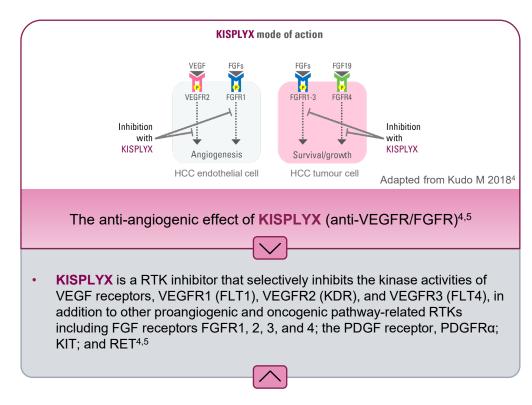












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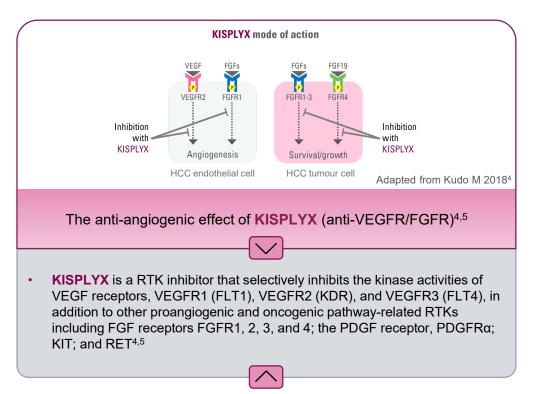








**REYTRUDA mode of action Antigen Adapted from Pardoll DM 2012² The immune-stimulatory effect of KEYTRUDA (anti-PD-1)²,³ **KEYTRUDA is a selective, humanised, monoclonal antibody designed to block the interaction between PD-1 and its ligands, PD-L1 and PD-L2³ **By inhibiting PD-1 receptor binding, KEYTRUDA reactivates tumour-specific cytotoxic T lymphocytes in the tumour microenvironment, resulting in anti-tumour immunity³



FGF, fibroblast growth factor; FGFR, fibroblast growth factor receptor; KIT, proto-oncogene c-KIT; MHC, major histocompatibility complex; MOA, mode of action; PD-1, programmed death receptor-1; PDGFR, platelet-derived growth factor receptor; PD-L1, programmed death ligand-1; PD-L2, programmed death ligand-2; RET, proto-oncogene RET; RTK, receptor tyrosine kinase; TCR, T-cell receptor; VEGF, vascular endothelial growth factor; VEGFR, vascular endothelial growth factor receptor.



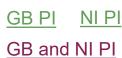














Design

Patient characteristics

The efficacy and safety of **KEYTRUDA** + **KISPLYX** vs sunitinib monotherapy were investigated in the CLEAR trial⁶

A randomised, multicentre, open-label, Phase 3 trial evaluating the efficacy and safety of **KEYTRUDA** + **KISPLYX** in patients with advanced RCC in the 1L setting (N=1069)

Key eligibility criteria

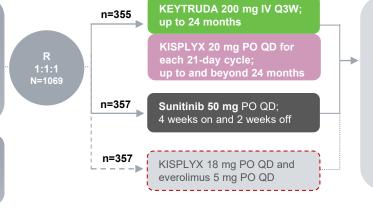
- Previously untreated advanced RCC with a clear cell component in the 1L setting
- At least one measurable lesion according to RECIST v1.1
- Karnofsky performance status of ≥70
- Adequately controlled blood pressure, with or without medications

Key exclusion criteria

- Active autoimmune disease
- A medical condition that required immunosuppression

Stratification factors

- Geographical region
- North America and Western Europe vs rest of the world
- MSKCC Prognostic risk group
- Favourable vs intermediate vs poor



Treatment continued until unacceptable toxicity or disease progression as determined by the investigator and confirmed by an independent review committee using RECIST v1.1

KEYTRUDA with **KISPLYX** was permitted beyond RECIST-defined disease progression

Following discontinuation of the study drug, patients could receive subsequent 2L therapy

Assessment of tumour status was performed at screening and Q8W thereafter

Primary endpoint

PFS per independent review committee

Secondary endpoints

ORR per independent review committee; OS per independent review committee; safety

Adapted from Motzer R et al. 2021⁶

1L use of KISPLYX in combination with everolimus is not approved in the UK in patients with advanced RCC. This treatment arm has been included for transparency. Clinical data shown are from the KEYTRUDA + KISPLYX vs sunitinib arms only.^{3,5}

Full eligibility and exclusion criteria are described in the trial protocol.

1L, first-line; 2L, second-line; DOR, duration of response; IV, intravenous; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; PO, orally; Q3W, every 8 weeks; Q8W, every 8

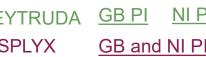














Design

Patient characteristics

Patient baseline demographics and disease characteristics⁶

Characteristic ^a	KEYTRUDA + KISPLYX (n=355)	Sunitinib (n=357)
Median age (range), years	64 (34–88)	61 (29–82)
Aged <65 years, n (%)	194 (54.6)	225 (63.0)
Sex, n (%)		
Male	255 (71.8)	275 (77.0)
Female	100 (28.2)	82 (23.0)
Geographical region, n (%)		
Western Europe or North America	198 (55.8)	199 (55.7)
Rest of the world	157 (44.2)	158 (44.3)
Karnofsky performance status, n (%)b		
100–90	295 (83.1)	294 (82.4)
80–70	60 (16.9)	62 (17.4)
MSKCC prognostic risk group, n (%)		
Favourable	96 (27.0)	97 (27.2)
Intermediate	227 (63.9)	228 (63.9)
Poor	32 (9.0)	32 (9.0)
IMDC prognostic risk group, n (%)		
Favourable	110 (31.0)	124 (34.7)
Intermediate	210 (59.2)	192 (53.8)
Poor	33 (9.3)	37 (10.4)
Could not be evaluated	2 (0.6)	4 (1.1)

Characteristica	KEYTRUDA + KISPLYX (n=355)	Sunitinib (n=357)
Sarcomatoid features, n (%)	28 (7.9)	21 (5.9)
PD-L1 combined positive score, n (%)		
≥1	107 (30.1)	119 (33.3)
<1	112 (31.5)	103 (28.9)
Not available	136 (38.3)	135 (37.8)
Number of metastatic organs or sites, n (%)c		
1	97 (27.3)	108 (30.3)
≥2	254 (71.5)	246 (68.9)
Site of metastasis, n (%) ^d		
Lung	249 (70.1)	239 (66.9)
Lymph node	170 (47.9)	159 (44.5)
Bone	85 (23.9)	97 (27.2)
Liver	60 (16.9)	61 (17.1)
Previous nephrectomy, n (%)	262 (73.8)	275 (77.0)

Adapted from Motzer R et al. 20216

^aOne patient in the KEYTRUDA + KISPLYX group had carcinoma without a clear cell component; ^bKarnofsky performance status was missing for one patient in the sunitinib group; ^cKidney was not included in the number of metastatic organs or sites; ^dFour common sites of metastasis are shown. Patients may have had metastasis at more than one site.

IMDC, International Metastatic Renal Cell Carcinoma Database Consortium; MSKCC, Memorial Sloan Kettering Cancer Center; PD-L1, programmed death ligand-1.

















PFS primary analysis

PFS in IMDC risk groups

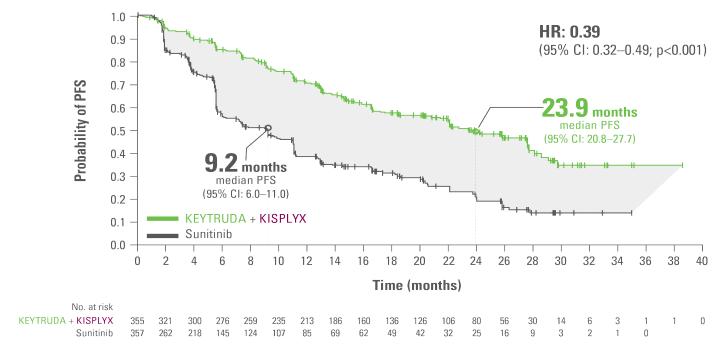
PFS final analysis

CLEAR study primary analysis

Primary endpoint — **KEYTRUDA** + **KISPLYX** more than doubled median PFS vs sunitinib^{a,6}

PFS was significantly longer in the **KEYTRUDA** + **KISPLYX** group compared with the sunitinib group

Kaplan–Meier analysis of PFS



61%
reduction in risk of disease progression with KEYTRUDA + KISPLYX vs sunitinib

Adapted from Motzer R et al. 20216

Analysis cutoff date: 28 August 2020. Median follow-up: 26.6 months.
^aAssessed using RECIST v1.1 by an independent review committee.

CI, confidence interval; HR, hazard ratio; IMDC, International Metastatic Renal Cell Carcinoma Database Consortium; PFS, progression-free survival; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1.

















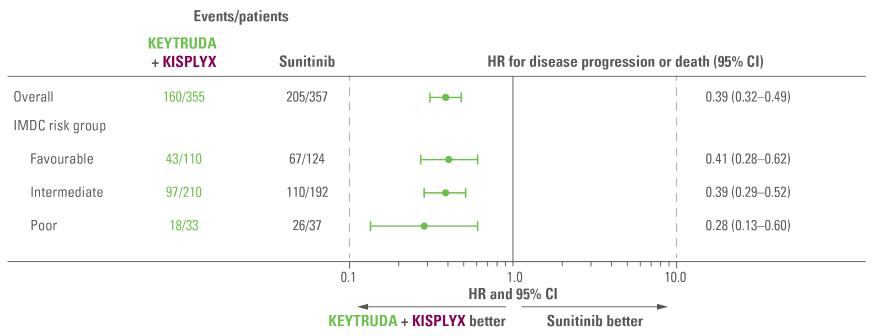
PFS primary analysis

PFS in IMDC risk groups

PFS final analysis

CLEAR study primary analysis

Subgroup analysis — PFS in IMDC risk groups^{a,6}



This study was not powered to detect differences in the treatment effect between these subgroups.

Results from exploratory analyses should be interpreted with caution due to modest patient numbers and potential imbalances in baseline characteristics between subgroups

Adapted from Motzer R et al. 2021⁶

Analysis cutoff date: 28 August 2020. Median follow up: 26.6 months.

^aPatients were stratified by MSKCC risk group but not by IMDC risk group.

CI, confidence interval; HR, hazard ratio; IMDC, International Metastatic Renal Cell Carcinoma Database Consortium; MSKCC, Memorial Sloan Kettering Cancer Center; PFS, progression-free survival.



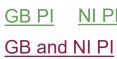














PFS primary analysis

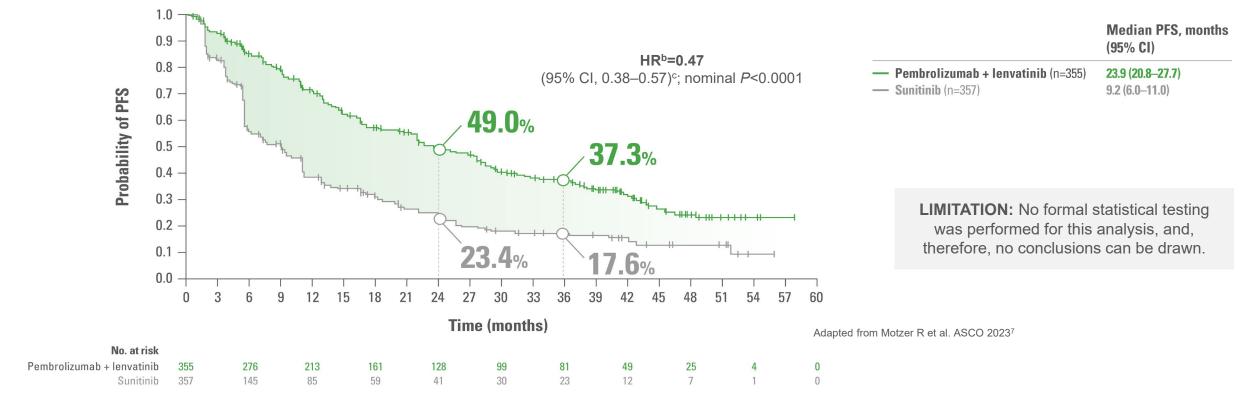
PFS in IMDC risk groups

PFS final analysis

Prespecified final analysis

Exploratory analysis — **KEYTRUDA** + **KISPLYX** PFS consistent with primary analysis at 39.2 months median follow up^{a,7}

Median (IQR) follow-up for PFS: 39.2 (22.1–48.5) months with KEYTRUDA + KISPLYX and 20.6 (5.5–41.2) months with sunitinib



Analysis cutoff date: 31 July 2022.

^aAssessed using RECIST v1.1 by an independent review committee; ^bHR based on a Cox proportional hazards model including treatment group as factor. Efron method used for ties and stratified by geographic region and MSKCC prognostic groups by IxRS factors; ^cThe 95% CIs are estimated with a generalised Brookmeyer and Crowley method. IQR, interquartile range; IxRS, Interactive Voice/Web Response System.

















OS primary analysis

OS in patients continuing KISPLYX monotherapy

OS final analysis

Adjusted OS

Final OS in IMDC groups

CLEAR study primary analysis

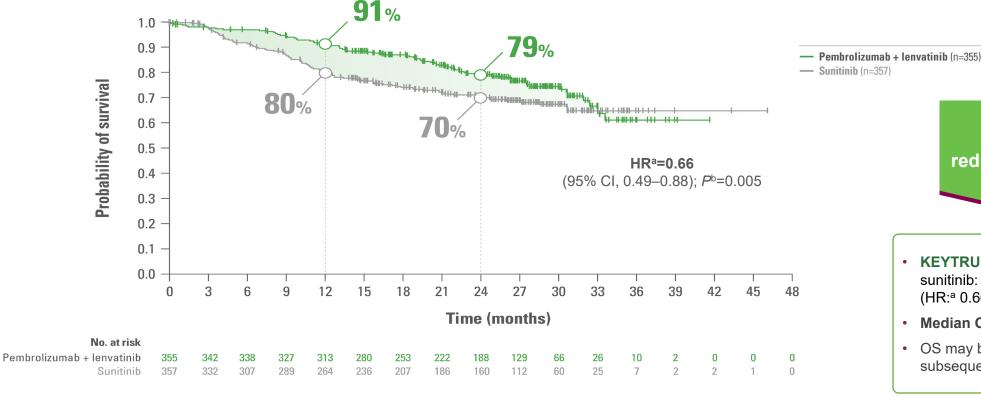
Median OS, months

(95% CI)

NR (33.6-NE)

NR (NE-NE)

Secondary endpoint — Superior OS with **KEYTRUDA** + **KISPLYX** vs sunitinib⁶



Adapted from Motzer R et al. 2021⁶

 KEYTRUDA + KISPLYX superior OS vs sunitinib: Reduced the risk of death by 34% (HR:^a 0.66; 95% CI: 0.49–0.88; p=0.005^b)

• Median OS: NR in both arms

Events

80/355 (23%)

101/357 (28%)

34%

reduced risk of death

vs sunitinib

 OS may be confounded by the difference in subsequent therapies





Analysis cutoff date: 28 August 2020. Median follow up: 26.6 months.

^aBased on the stratified Cox proportional-hazards model; ^bTwo-sided p-value based on stratified log-rank test.

CI. confidence interval: HR. hazard ratio: NE. not estimable: NR. not reached: OS. overall survival.













OS primary analysis

OS in patients continuing KISPLYX monotherapy

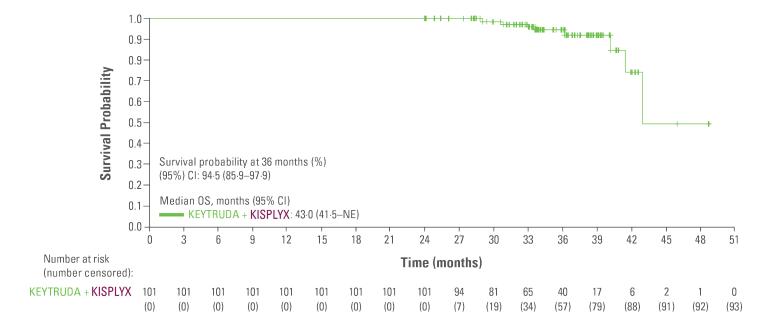
OS final analysis

Adjusted OS

Final OS in IMDC groups

CLEAR study extended follow up

Exploratory analysis - OS in patients who completed 2 years of **KEYTRUDA** and continued on **KISPLYX** monotherapy⁸



- Of patients who completed 2 years of KEYTRUDA and continued with KISPLYX monotherapy (101/355 patients), exploratory OS rate was 94.5% at 36 months based on Kaplan–Meier estimate
 - Of the 101 patients, 65 had IMDC intermediate/poor-risk disease and 36 had favourable-risk disease

Results from exploratory analyses should be interpreted with caution due to modest patient numbers and potential imbalances in baseline characteristics between subgroups

Adapted from Choueiri et al. 20238

Analysis cut-off date: 31 March 2021.

CI, confidence interval; IMDC, International Metastatic Renal Cell Carcinoma Database Consortium; NE, not estimable; OS, overall survival

















OS primary analysis OS in patier

OS in patients continuing KISPLYX monotherapy

OS final analysis

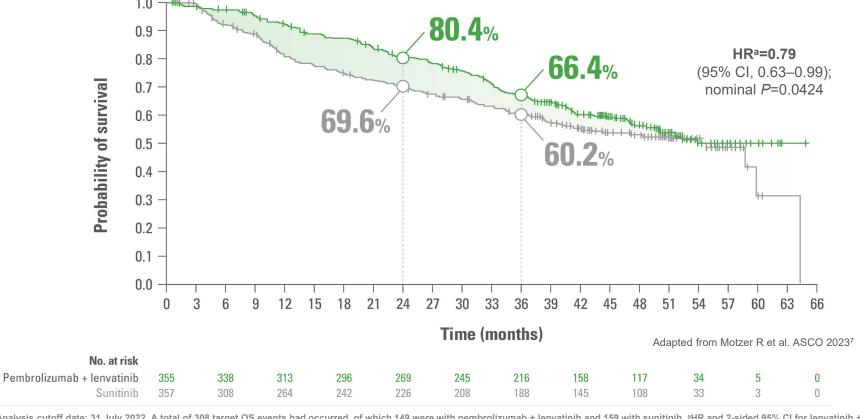
Adjusted OS

Final OS in IMDC groups

Prespecified final analysis

Exploratory analysis — **KEYTRUDA** + **KISPLYX** OS at 49.8 months median follow up⁷

Median (IQR) follow-up for OS: 49.8 (41.4–53.1) months with pembrolizumab + lenvatinib and 49.4 (41.6–52.8) months with sunitinib





The OS analysis was not adjusted to account for subsequent therapies; 54.6% of patients in the sunitinib arm subsequently received a PD-1/PD-L1 checkpoint inhibitor vs 15.8% in the **KEYTRUDA** + **KISPLYX** arm

LIMITATION:

This was a protocol-pre-specified analysis. No formal statistical testing was performed for this analysis, and, therefore, no conclusions can be drawn. OS results after 36 months of follow-up should be interpreted with caution due to the number of censored patients.

Analysis cutoff date: 31 July 2022. A total of 308 target OS events had occurred, of which 149 were with pembrolizumab + lenvatinib and 159 with sunitinib. and 2-sided 95% CI for lenvatinib + pembrolizumab vs sunitinib were estimated by a stratified Cox Proportional Hazards Model with Efron's method for ties, stratified by geographic region and MSKCC prognostic groups.

















OS primary analysis OS in patients continuing KISPLYX monotherapy

OS final analysis

Adjusted OS

Final OS in IMDC groups

Prespecified final analysis

Median OS, months

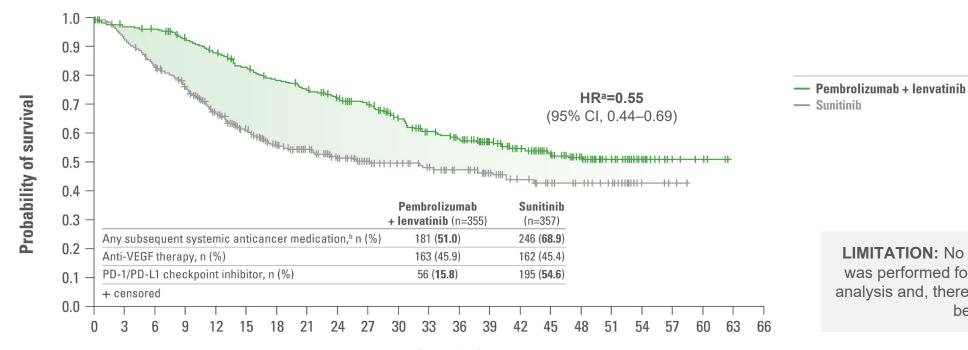
(95% CI)

NR (40.9-NE)

32.0 (18.7-NE)

Exploratory analysis — Final OS analysis adjusted for subsequent anticancer medications⁷

Median (IQR) follow-up for OS: 49.8 (41.4–53.1) months with pembrolizumab + lenvatinib and 49.4 (41.6–52.8) months with sunitinib



LIMITATION: No formal statistical testing was performed for this final pre-specified analysis and, therefore, no conclusions can be drawn.

Time (months)

No. at risk Pembrolizumab + Ienvatinib 355 336 303 193 107 357 282 212 140 100 72 56 37 26 Sunitinib

Analysis cutoff date: 31 July 2022. aA 2-stage estimation method was used for the post-hoc analysis of OS to adjust for the impact of imbalance in subsequent anticancer medications between treatment groups; bDuring survival follow-up.



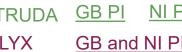








Adapted from Motzer R et al. ASCO 20237





OS primary analysis OS in patients continuing KISPLYX monotherapy

OS final analysis

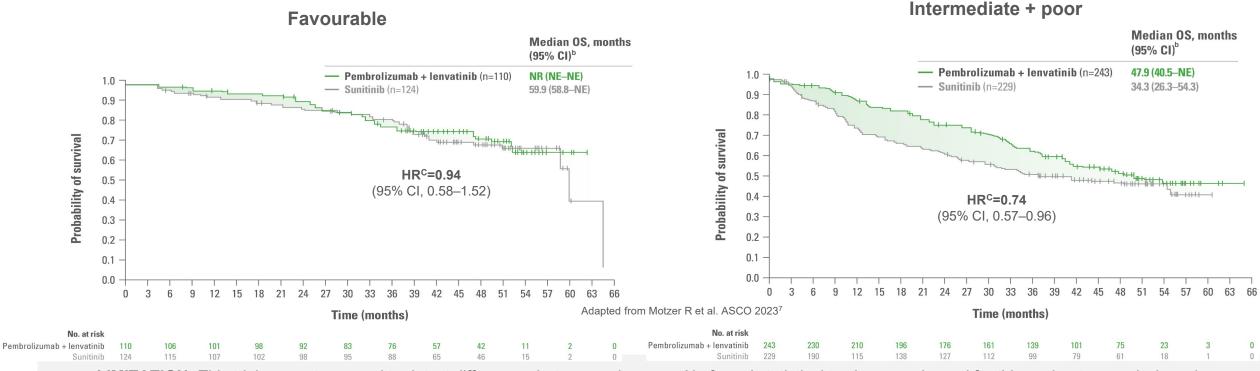
Adjusted OS

Final OS in IMDC groups

Prespecified final analysis

Exploratory analysis — Kaplan-Meier estimates of OS by IMDC risk subgroup^{a,7}

Median (IQR) follow-up for OS: 49.8 (41.4–53.1) months with pembrolizumab + lenvatinib and 49.4 (41.6–52.8) months with sunitinib



LIMITATION: This trial was not powered to detect differences between subgroups. No formal statistical testing was planned for this exploratory analysis and, therefore, no conclusions can be drawn.

Analysis cutoff date: 31 July 2022. alMDC risk group was not a stratification factor and relevant data were derived programmatically; bMedians were estimated by the Kaplan–Meier method, and 95% CIs were estimated with a generalised Brookmeyer and Crowley method; cHR was based on a Cox regression model with treatment as a factor and with Efron's method used for correction of tied events.

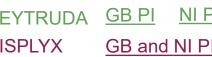














ORR primary analysis

ORR final analysis

Target lesion for responder

DoR final analysis

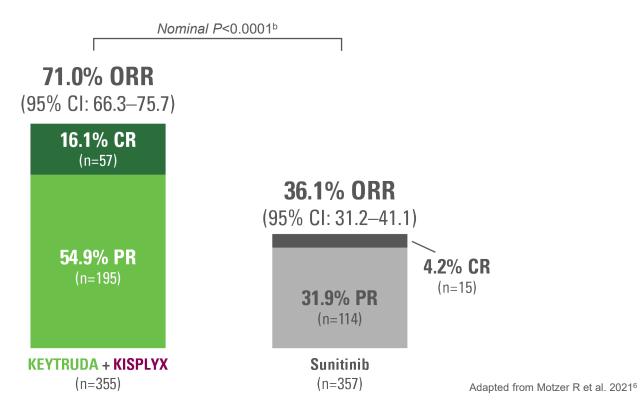
ORR in subgroups of interest

OS by best overall response

CLEAR study primary analysis

Secondary endpoint — ORR^a nearly double with **KEYTRUDA** + **KISPLYX** vs sunitinib^{3,5,6}

Superior ORR vs sunitinib



- Progressive disease was observed in 5.4% of patients who received **KEYTRUDA** + **KISPLYX** vs 14% of patients with sunitinib
- Stable disease was observed in 19.2% of patients who received KEYTRUDA + KISPLYX vs 38.1% of patients with sunitinib
- The median time to first response for KEYTRUDA + KISPLYX compared with sunitinib was 1.94 (1.41–20.14) and 1.99 (1.51–16.56) months, respectively
- The median duration of response for KEYTRUDA + KISPLYX compared with sunitinib was 25.8 (22.1–27.9) and 14.6 (9.4–16.7) months, respectively

Analysis cutoff date: 28 August 2020. Median follow-up: 26.6 months.

^aAssessed using RECIST v1.1; ^bNominal P-value. At the Interim Analysis 2 prespecified final analysis of ORR (median follow-up time of 17.3 months), statistically significant superiority was achieved for ORR comparing KEYTRUDA + KISPLYX with sunitinib (odds ratio: 3.84 [95% CI: 2.81, 5.26], nominal P-value <0.0001);^{7,9} CI, confidence interval; CR, complete response; ORR, objective response rate; PR, partial response; ECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1.



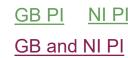












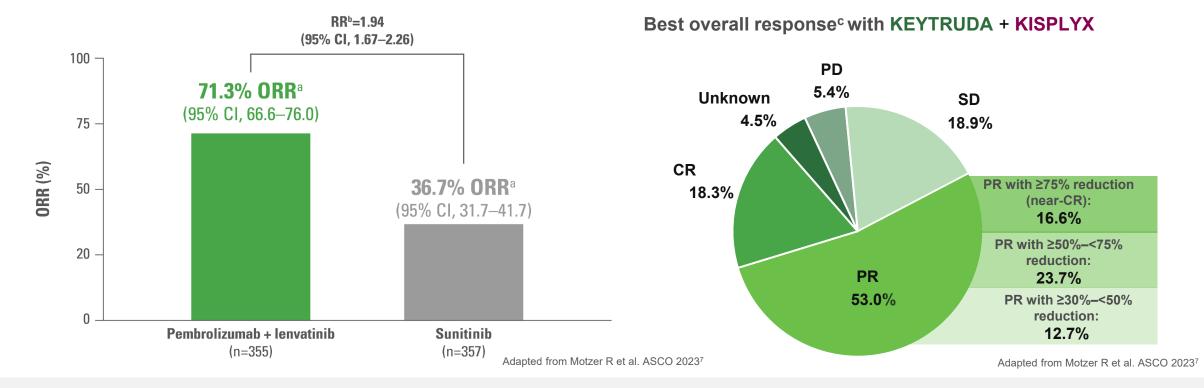


ORR primary analysis ORR final analysis Target lesion for responder DoR final analysis ORR in subgroups of interest OS by best overall response

Prespecified final analysis

Exploratory analysis — ORR consistent with primary analysis at 49.8 months median follow up^{a,7}

Median (IQR) follow-up for OS: 49.8 (41.4–53.1) months with KEYTRUDA + KISPLYX and 49.4 (41.6–52.8) months with sunitinib



LIMITATION: No formal statistical analysis was performed for this analysis; therefore, no conclusions can be drawn.

Analysis cutoff date: 31 July 2022. When median follow-up time was not specified for an endpoint, median follow-up for OS is presented in the slide. ^aAs determined by independent review committee using RECIST v1.1; ^bRR, Relative Risk was calculated using the Cochran-Mantel-Haenzel methods stratified by IxRS factors, and the 95% CIs were calculated using the method of normal approximation; ^cBest overall response categories (SD, PD, CR, PR or unknown) were determined based on RECIST v1.1 at the time of analysis. SD must occur ≥49 days after randomization. If a patient best overall response was non-CR/non-PD, it was grouped with the SD category. ¹⁰ RR, relative risk.















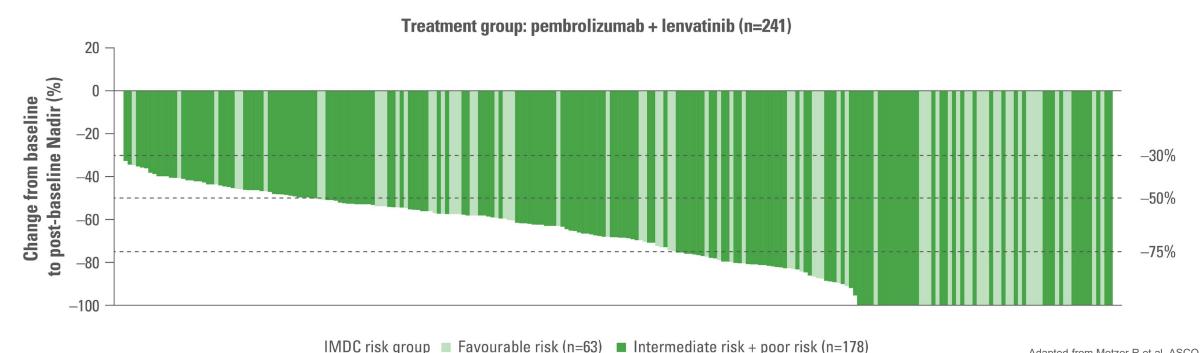


OUTCOME BY OVERVIEW MOA **CLEAR TRIAL PFS** OS **ORR SAFETY DOSING SUMMARY TUMOUR SIZE**

ORR primary analysis **ORR** final analysis DoR final analysis **ORR** in subgroups of interest **Target lesion for responder** OS by best overall response

Prespecified final analysis Exploratory analysis — Change in target lesion size^a in patients who responded to treatment with KEYTRUDA + KISPLYX7

Median (IQR) follow-up for OS: 49.8 (41.4–53.1) months with KEYTRUDA + KISPLYX and 49.4 (41.6–52.8) months with sunitinib



LIMITATION: No formal statistical analysis was performed for this analysis; therefore, no conclusions can be drawn.

Analysis cutoff date: 31 July 2022. When median follow-up time was not specified for an endpoint, median follow-up for OS is presented in the slide. aChanges in size of the target lesion were determined as per independent review. Patients included in the analysis had both baseline and ≥1 post-baseline target lesion assessment.

















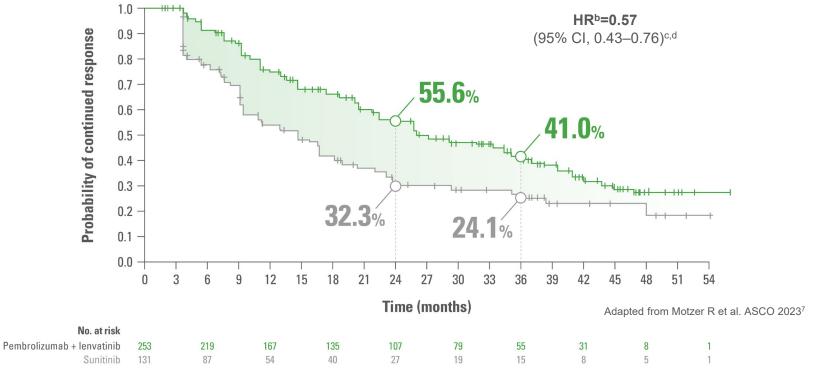
Adapted from Motzer R et al. ASCO 20237

ORR primary analysis ORR final analysis Target lesion for responder DoR final analysis ORR in subgroups of interest OS by best overall response

Prespecified final analysis

Exploratory analysis — Duration of response (DOR)^{a,7}

Median (IQR) follow-up for OS: 49.8 (41.4–53.1) months with KEYTRUDA + KISPLYX and 49.4 (41.6–52.8) months with sunitinib





- In the pembrolizumab + lenvatinib group, median DOR (95% CI) for CR was 43.7 (39.2–NE) months
- Median DOR (95% CI) for near-CR^e with **pembrolizumab** + **lenvatinib** was **30.5** (22.4–NE) months

LIMITATION: This analysis was a protocol pre-specified descriptive analysis. No formal statistical analysis was performed for this analysis; therefore, no conclusions can be drawn.

Analysis cutoff date: 31 July 2022. When median follow-up time was not specified for an endpoint, median follow-up for OS is presented in the slide.

^aAs determined by independent review committee using RECIST v1.1; ^bHR is based on a Cox Proportional Hazards Model including treatment group as a factor. Efron method is used for ties and stratified by geographic region and MSKCC prognostic groups by IxRS; ^cThe 95% CIs were estimated using the method of normal approximation; ^dThe 95% CIs are estimated with a generalised Brookmeyer and Crowley method; ^eNear-CR refers to individuals who presented a PR with a maximum tumour reduction of ≥75%. NE, not estimable.

















ORR primary analysis ORR final analysis Target lesion for responder DoR final analysis ORR in subgroups of interest OS by best overall response

CLEAR study primary analysis

Subgroup analysis — Tumour responses across subgroups of interest⁹

Median follow-up: 26.6 months with KEYTRUDA + KISPLYX and with sunitinib²

	Sarcomatoid features				Bone metastases			
Parameter	Ye	s	No		Yes		No	
	Pembrolizumab + lenvatinib (n=28)	Sunitinib (n=21)	Pembrolizumab + lenvatinib (n=327)	Sunitinib (n=336)	Pembrolizumab + lenvatinib (n=85)	Sunitinib (n=97)	Pembrolizumab + lenvatinib (n=270)	Sunitinib (n=260)
ORR, ^a n (%)	17 (60.7)	5 (23.8)	235 (71.9)	124 (36.9)	55 (64.7)	22 (22.7)	197 (73.0)	107 (41.2)

	Liver metastases			Previous nephrectomy				
_	Yes No		Yes		No			
Parameter	Pembrolizumab + lenvatinib (n=60)	Sunitinib (n=61)	Pembrolizumab + lenvatinib (n=295)	Sunitinib (n=296)	Pembrolizumab + lenvatinib (n=262)	Sunitinib (n=275)	Pembrolizumab + lenvatinib (n=93)	Sunitinib (n=82)
ORR, a n (%)	40 (66.7)	21 (34.4)	212 (71.9)	108 (36.5)	193 (73.7)	110 (40.0)	59 (63.4)	19 (23.2)

	Lung metastases				
	Yes	S	No		
Parameter	Pembrolizumab + lenvatinib (n=249)	Sunitinib (n=239)	Pembrolizumab + lenvatinib (n=106)	Sunitinib (n=118)	
ORR, a n (%)	186 (74.7)	87 (36.4)	66 (62.3)	42 (35.6)	

Adapted from Grünwald V et al 20239

This study was not powered to detect differences in the treatment effect between these subgroups. Results from exploratory analyses should be interpreted with caution due to modest patient numbers and potential imbalances in baseline characteristics between subgroups

Analysis cutoff date: 28 August 2020.ªAssessed using RECIST v1.1. CI, confidence interval; ORR, objective response rate; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1.

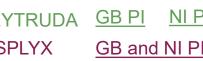














ORR final analysis

ORR primary analysis

Target lesion for responder

DoR final analysis

ORR in subgroups of interest

OS by best overall response

Prespecified final analysis

Median OS, months (95% CI)

NR (NE-NE)

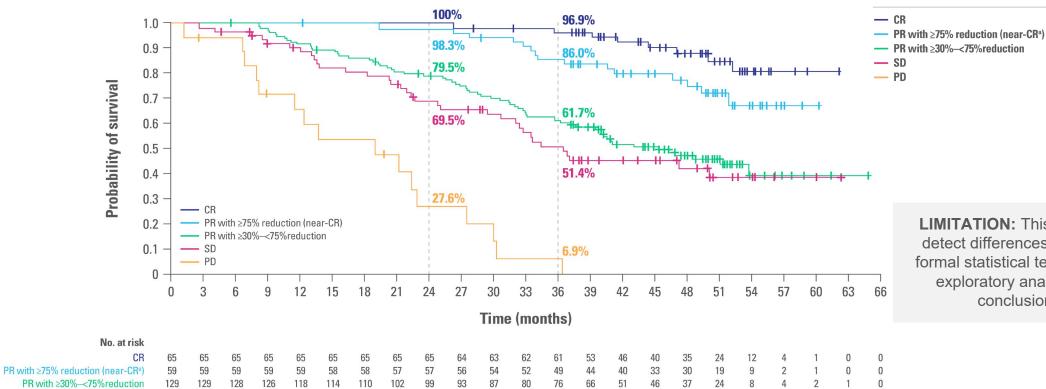
NR (NE-NE)

19.1 (8.2-7.5)

46.3 (39.5–NE) 36.5 (30.7–NE)

Exploratory analysis — Final OS analysis by best overall response in patients treated with **KEYTRUDA** + **KISPLYX**⁷

Median (IQR) follow-up for OS: 49.8 (41.4–53.1) months with KEYTRUDA + KISPLYX and 49.4 (41.6–52.8) months with sunitinib



LIMITATION: This trial was not powered to detect differences between subgroups. No formal statistical testing was planned for this exploratory analysis and, therefore, no conclusions can be drawn.

Analysis cutoff date: 31 July 2022. ªNear-CR refers to individuals who presented a PR with a maximum tumour reduction of ≥75%

Adapted from Motzer R et al. ASCO 20237



SD













AE summary AEs occurring in ≥25% of patients

AEs final analysis

TEAEs

Median time to first onset of common AEs (all grade)

Median time to first onset of AEs (Grade ≥3)

HRQoL

CLEAR study primary analysis

Secondary endpoint — AE summary for **KEYTRUDA** + **KISPLYX** compared with sunitinib^{a,6}

	KEYTRUDA + KISPLYX (n=352)	Sunitinib (n=340)
Median duration of treatment, months (range)	17.0 (0.1–39.1)	7.8 (0.1–37.0)
AEs of any grade, any cause, %	99.7	98.5
Grade ≥3	82.4	71.8
Death during treatment (Grade 5 AE) ^b	4.3	3.2
Patients with any grade TEAEs leading to discontinuation vs sunitinib, %		
Pembrolizumab, lenvatinib, or both drugs	37.2	
Pembrolizumab	28.7	444
Lenvatinib	25.6	14.4
Pembrolizumab + lenvatinib	13.4	
Patients with any grade TEAEs leading to dose interruption (pembrolizumab, lenvatinib, or both drugs) vs sunitinib, %	78.4	53.8
Patients with any grade TEAEs leading to dose reduction (for lenvatinib ONLY) vs sunitinibc, %	68.8	50.3

Analysis cutoff date: 28 August 2020. aSafety assessment was based on an as-treated principle and consisted of monitoring and recording all AEs and serious AEs using the Common Terminology Criteria for AEs, version 4.03, in the group of patients who received at least one dose of the study drug; bOf the 15 patients in the KEYTRUDA + KISPLYX group who had grade 5 AEs during treatment, 11 had fatal AEs not attributed to disease progression (acute renal failure, uncontrolled hypertension, complications from myasthenic syndrome, complications from autoimmune hepatitis, cardiac arrest, and death—cause not specified in 1 patient each; haemorrhagic events in 2 patients; and sepsis in 3 patients). Among the 11 patients in the sunitinib group with grade 5 AEs during treatment, fatal AEs not attributed to disease progression occurred in 2 patients (respiratory failure and acute kidney injury in 1 patient and death—cause not specified in 1 patient); Dose reduction in KISPLYX only. Dose reductions for KEYTRUDA are not recommended. AE, adverse event; TEAE, treatment-emergent adverse event.

















OUTCOME BY OVERVIEW MOA **CLEAR TRIAL PFS** OS **ORR SAFETY DOSING SUMMARY TUMOUR SIZE**

AE summary

AEs occurring in ≥25% of patients

AEs final analysis

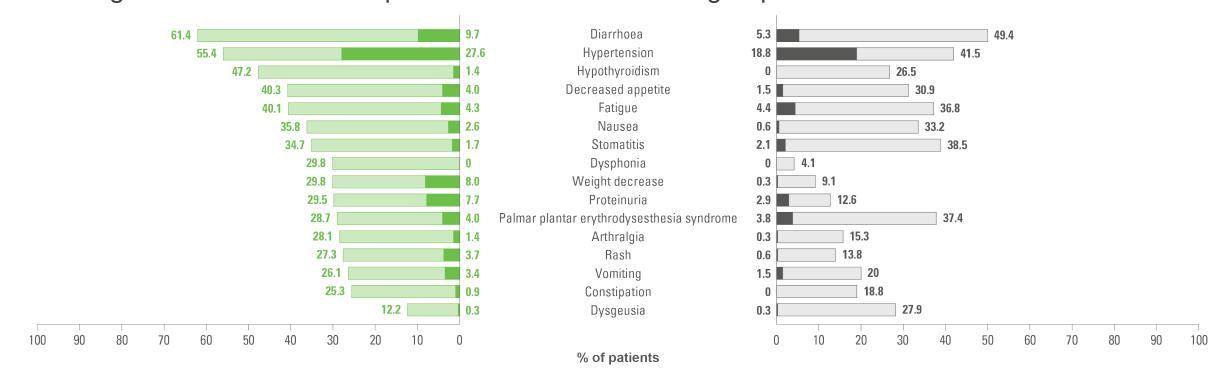
TEAEs

Median time to first onset of common AEs (all grade) Median time to first onset of AEs (Grade ≥3)

HRQoL

Secondary endpoint — AEs of any cause that emerged or worsened during treatment in ≥25% of patients in either treatment group^{a,6}

CLEAR study primary analysis



Analysis cutoff date: 28 August 2020.

aSafety assessment was based on an as-treated principle and consisted of monitoring and recording all AEs and serious AEs using the Common Terminology Criteria for AEs, version 4.03, in the group of patients who received at least one dose of the study drug. Hypothyroidism is an AE of interest associated with KEYTRUDA. AE, adverse event.





KEYTRUDA + KISPLYX (n=352) ■ Grade ≥3 ■ Any grade









Sunitinib (n=340)



■ Grade ≥3 □ Any grade

Adapted from Motzer R et al. 2021⁶



AE summary AEs occurring in ≥25% of patients

AEs final analysis

TEAEs

Median time to first onset of common AEs (all grade)

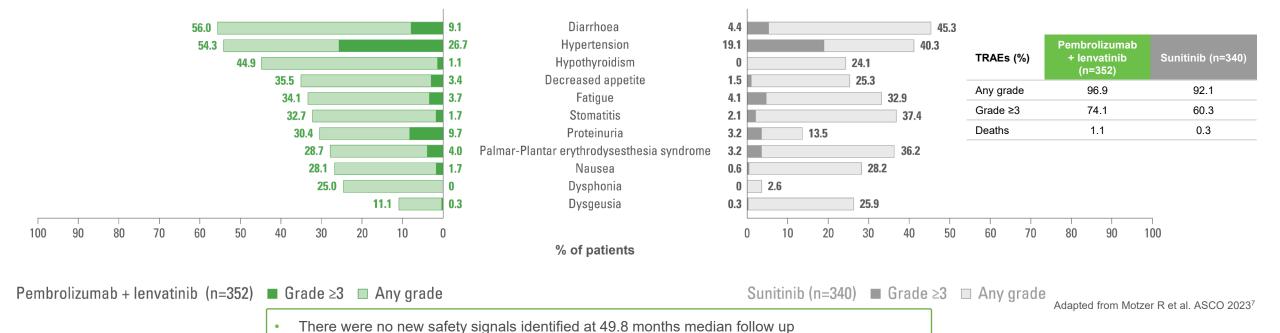
Median time to first onset of AEs (Grade ≥3)

HRQoL

Prespecified final analysis

Exploratory analysis — TRAEs in ≥25% of patients in any treatment group⁷

Median (IQR) follow-up for OS: 49.8 (41.4–53.1) months with KEYTRUDA + KISPLYX and 49.4 (41.6–52.8) months with sunitinib



LIMITATION: This was a protocol-pre-specified analysis. No formal statistical testing was performed for this analysis, and, therefore, no conclusions can be drawn.

Analysis cutoff date: 31 July 2022. When median follow-up time was not specified for an endpoint, median follow-up for OS is presented in the slide. The median duration of treatment (IQR) was 22.6 (9.4–37.1) months with pembrolizumab + lenvatinib and 7.8 (3.7–19.4) months with sunitinib.

















AE summary

AEs occurring in ≥25% of patients

AEs final analysis

TEAEs

Median time to first onset of common AEs (all grade)

Median time to first onset of AEs (Grade ≥3)

HRQoL

CLEAR study primary analysis

Secondary endpoint — summary of TEAEs of interest for **KEYTRUDA**^{a,6}



TEAE		A + KISPLYX :352)	Sunitinib (n=340)		
	Any grade	Grade ≥3	Any grade	Grade ≥3	
Any	214 (60.8)	52 (14.8)	105 (30.9)	4 (1.2)	
Adrenal insufficiency	18 (5.1)	4 (1.1)	0 (0.0)	0 (0.0)	
Colitis	9 (2.6)	4 (1.1)	2 (0.6)	0 (0.0)	
Encephelitis	2 (0.6)	2 (0.6)	0 (0.0)	0 (0.0)	
Hepatitis	7 (2.0)	5 (1.4)	0 (0.0)	0 (0.0)	
Hyperthyroidism	28 (8.0)	0 (0.0)	12 (3.5)	0 (0.0)	
Hypophysitis	3 (0.9)	2 (0.6)	0 (0.0)	0 (0.0)	
Hypothyroidism	166 (47.2)	5 (1.4)	90 (26.5)	0 (0.0)	
Infusion reactions	5 (1.4)	1 (0.3)	2 (0.6)	0 (0.0)	
Myasthenic syndrome	1 (0.3)	1 (0.3)	0 (0.0)	0 (0.0)	

TEAE		A + KISPLYX 352)	Sunitinib (n=340)		
	Any grade	Grade ≥3	Any grade	Grade ≥3	
Myocarditis	4 (1.1)	3 (0.9)	0 (0.0)	0 (0.0)	
Myositis	3 (0.9)	2 (0.6)	0 (0.0)	0 (0.0)	
Nephritis	6 (1.7)	4 (1.1)	0 (0.0)	0 (0.0)	
Pancreatitis	10 (2.8)	6 (1.7)	2 (0.6)	1 (0.3)	
Pneumonitis	19 (5.4)	7 (2.0)	0 (0.0)	0 (0.0)	
Severe skin reactions	18 (5.1)	18 (5.1)	5 (1.5)	3 (0.9)	
Thyroiditis	2 (0.6)	0 (0.0)	2 (0.6)	0 (0.0)	
Type 1 diabetes mellitus	2 (0.6)	1 (0.3)	0 (0.0)	0 (0.0)	
Uveitis	1 (0.3)	1 (0.3)	0 (0.0)	0 (0.0)	

Adapted from Motzer et al. 20216

Analysis cutoff date: 28 August 2020.

^aNo cases of Guillain-Barré syndrome, myelitis, or sarcoidosis were reported in any group.

AE, adverse event, TEAE, treatment-emergent adverse event.

















AE summary

AEs occurring in ≥25% of patients

AEs final analysis

TEAEs

Median time to first onset of common AEs (all grade)

Median time to first onset of AEs (Grade ≥3)

HRQoL

CLEAR study primary analysis

Secondary endpoint — summary of clinically significant TEAEs for **KISPLYX**⁶



TEAE		A + KISPLYX 352)	Sunitinib (n=340)		
	Any grade	Grade ≥3	Any grade	Grade ≥3	
Any	331 (94.0)	188 (53.4)	289 (85.0)	118 (34.7)	
Arterial thromboembolic events	19 (5.4)	13 (3.7)	7 (2.1)	2 (0.6)	
Cardiac dysfunction	9 (2.6)	6 (1.7)	7 (2.1)	4 (1.2)	
Fistula formation	2 (0.6)	0 (0.0)	2 (0.6)	1 (0.3)	
Gastrointestinal perforation	5 (1.4)	4 (1.1)	3 (0.9)	1 (0.3)	
Haemorrhage	96 (27.3)	18 (5.1)	90 (26.5)	13 (3.8)	
Hepatotoxicity	96 (27.3)	35 (9.9)	82 (24.1)	18 (5.3)	
Hypertension	198 (56.3)	101 (28.7)	145 (42.6)	66 (19.4)	
Hypocalcaemia	5 (1.4)	1 (0.3)	9 (2.6)	1 (0.3)	

TEAE		A + KISPLYX :352)	Sunitinib (n=340)		
	Any grade	Grade ≥3	Any grade	Grade ≥3	
Hypothyroidism	200 (56.8)	5 (1.4)	109 (32.1)	0 (0.0)	
Palmar–Plantar erythrodysesthesia syndrome	104 (29.5)	14 (4.0)	129 (37.9)	13 (3.8)	
Posterior reversible encephalopathy syndrome	2 (0.6)	2 (0.6)	1 (0.3)	0 (0.0)	
Proteinuria	104 (29.5)	27 (7.7)	43 (12.6)	10 (2.9)	
QT prolongation	23 (6.5)	10 (2.8)	13 (3.8)	4 (1.2)	
Renal events	78 (22.2)	20 (5.7)	60 (17.6)	8 (2.4)	

Adapted from Motzer et al. 2021⁶

Analysis cutoff date: 28 August 2020.

AE, adverse event, TEAE, treatment-emergent adverse event.



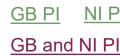














AE summary

AEs occurring in ≥25% of patients

AEs final analysis

TEAEs

Median time to first onset of common AEs (all grade)

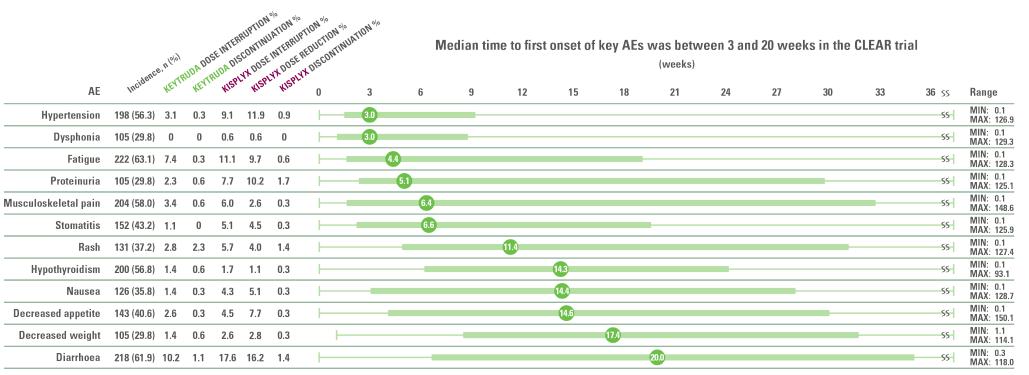
Median time to first onset of AEs (Grade ≥3)

HRQoL

CLEAR study primary analysis

Exploratory analysis — Median time to first onset of key AEs* (all grades) and dose management for **KEYTRUDA** + **KISPLYX**^{a,10}

Median follow-up: 26.6 months with **pembrolizumab** + **lenvatinib** and with sunitinib



LIMITATION:

This was a post-hoc exploratory analysis based on data from the CLEAR trial. No formal statistical testing was planned for this exploratory analysis and, therefore, no conclusions can be drawn.

Adapted from Motzer R et al. 2023¹⁰

aMedian time to first onset in patients who experienced the AE. *Key AEs: AEs with incidence ≥30% in the KEYTRUDA + KISPLYX group that occurred either while receiving treatment or within the protocol-defined follow-up period of 30 days after the patient's last dose. The safety population included all patients who received at least one dose of any study drug and percentages presented in the figure were based on the safety population of the pembrolizumab + lenvatinib group (n=352).

Coloured boxes represent Q1–Q3 and lines represent the range. AE, adverse event; max, maximum; min, minimum; Q, Quartile.

















AE summary

AEs occurring in ≥25% of patients

AEs final analysis

TEAEs

Median time to first onset of common AEs (all grade)

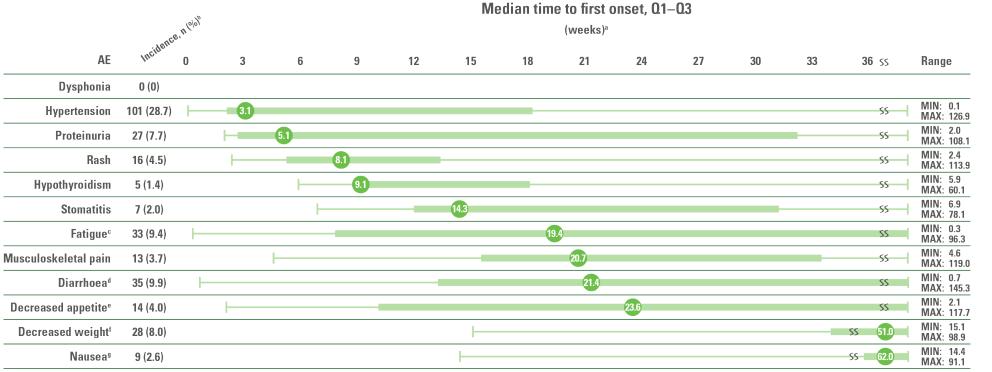
Median time to first onset of AEs (Grade ≥3)

HRQoL

CLEAR study primary analysis

Exploratory analysis — Median time to first onset of Grade ≥3 AEs in patients treated with KEYTRUDA + KISPLYX^{a,10}

Median follow-up: 26.6 months with pembrolizumab + lenvatinib and with sunitinib



LIMITATION:

This was a post-hoc exploratory analysis based on data from the CLEAR trial. No formal statistical testing was planned for this exploratory analysis and, therefore, no conclusions can be drawn.

Adapted from Motzer R et al. 2023¹⁰

^aMedian time to first onset in patients who experienced the Grade ≥3 adverse reaction. Coloured boxes represent Q1–Q3. Lines represent the range; ^bAny grade. Percentages are based on the safety population of the KEYTRUDA + KISPLYX group (n=352). The safety population included all patients who received at least one dose of any study drug; ^cQ1=7.86, Q3=42.29; ^dQ1=13.29, Q3=56.71; ^eQ1=10.14, Q3=69.14; ^fQ1=34.00, Q3=64.71; ^gQ1=42.57, Q3=74.00.

AE, adverse event; max, maximum; min, minimum; Q, Quartile

















AE summary

AEs occurring in ≥25% of patients

AEs final analysis

TEAEs

Median time to first onset of common AEs (all grade)

Median time to first onset of AEs (Grade ≥3)

HRQoL

CLEAR study primary analysis

HRQoL — patient reported outcomes^{a11}

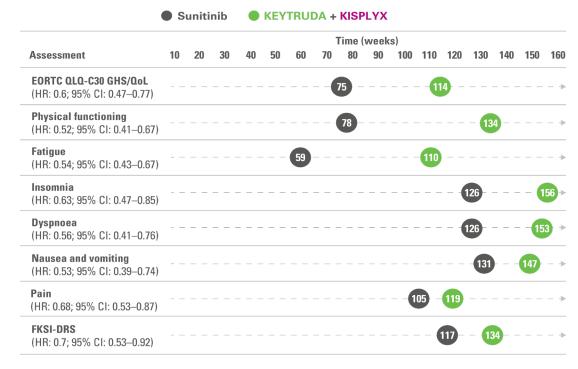
Median (IQR) follow-up: 12.9 (5.6–22.3) months with pembrolizumab + lenvatinib and with sunitinib

KEYTRUDA + KISPLYX showed a **more than 12-week delay** in median time to worsening in GHS, physical functioning, and patient reported symptoms with no subsequent recovery vs sunitinib^b



LIMITATION: These results should be interpreted in the context of the open-label study design and therefore taken cautiously.

Time to definitive deterioration in selected HRQoL scales for KEYTRUDA + KISPLYX vs sunitinib



Adapted from Motzer R et al. 2022¹¹

Analysis cutoff date: 24 July 2019.

^aPatient-reported outcomes (PROs) were assessed using the EORTC QLQ-C30 and the FKSI-DRS; ^bMeasured from baseline to a mean follow-up time of 46 weeks.

AE, adverse event; CI, confidence interval; EQ-5D-3L, European Quality of Life 5 Dimensions 3 Levels; EORTC QLQ-C30, European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire—Core 30; FKSI-DRS, Functional Assessment of Cancer Therapy Kidney Cancer Symptom Index — Disease Related Symptoms; GHS, Global Health Status; HR, hazard ratio; HRQoL, health-related quality of life; QoL, quality of life; VAS, visual analogue scale.

















Dosing

Dose modification

KEYTRUDA and **KISPLYX** are administered via IV infusion and oral capsules, respectively

KEYTRUDA offers flexibility of dosing³



Administered as an IV infusion³



Over 30 minutes³



200 mg Q3W or 400 mg Q6W³

The 200 mg Q3W (once every 3 weeks) regimen has been assessed in Phase 2 and 3 registration studies across a multitude of indications of KEYTRUDA. An exposure-response evaluation, using modelling and simulation, led to the approval of the 400 mg Q6W (once every 6 weeks) dosing for monotherapy and combination therapy³

What does flexibility mean to you and your patients?





same time each day⁵



Swallowed whole with water.
For patients unable to
swallow capsules,
please refer to the SmPC for
alternative methods of
preparation⁵

- Continue treatment with KISPLYX for as long as there is clinical benefit or until unacceptable toxicity occurs
- For AEs thought to be related to KISPLYX, upon resolution/improvement of an AE to Grade 0–1 or baseline, treatment should be resumed at a reduced dose of KISPLYX
 - Please refer to the KISPLYX SmPC for the management of AEs
- Please refer to the following slide for information on dose modifications in combination with KEYTRUDA

AE, adverse event; IV, intravenous; QD, once daily; Q3W, every three weeks; Q6W, every six weeks; RCC, renal cell carcinoma; SmPC, Summary of Product Characteristics.

















Dosing

Dose modification

Dose modification for **KISPLYX** in combination with **KEYTRUDA**



- The recommended starting daily dose of **KISPLYX** is 20 mg. Dose modification can be used to manage adverse reactions as appropriate⁵
- When administering KISPLYX in combination with KEYTRUDA, interrupt, reduce or discontinue KISPLYX as appropriate. Withhold or discontinue KEYTRUDA in accordance with the instructions in the SmPC for KEYTRUDA. No dose reductions are recommended for KEYTRUDA^{3,5}

Recommended dose modification for KISPLYX in advanced RCC⁵ Recommended starting dose 20 mg orally once daily 1st dose reduction to 14 mg orally once daily 2nd dose reduction to 10 mg orally once daily 3rd dose reduction to 8 mg orally once daily

- If a KISPLYX dose is missed and cannot be administered within 12 hours, skip that dose and take the next dose at the usual time of administration⁵
- Continue treatment with KEYTRUDA + KISPLYX until disease progression, unacceptable toxicity or, for KEYTRUDA, up to 24 months^{3,5}
- The recommended starting dose of KISPLYX for patients with advanced RCC and severe renal impairment is 10 mg administered orally QD⁵
- The recommended starting dose of KISPLYX for patients with advanced RCC and severe hepatic impairment (Child–Pugh C) is 10 mg administered orally QD⁵

QD, once daily; RCC, renal cell carcinoma.



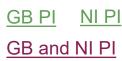














Patient characteristics

OS and PFS by tumour size

ORR by tumour size

Exploratory subgroup analysis of efficacy outcomes by baseline tumour size¹²

Patient characteristics

	Baseline sums of diameters of target lesions ^a (N=355)					
Characteristic	Q1 81 patients (22.8%)	Q2 80 patients (22.5%)	Q3 81 patients (22.8%)	Q4 80 patients (22.5%)		
	Defined as ≤34.72 mm	Defined as >34.72 mm to ≤60.06 mm	Defined as >60.06 mm to ≤108.56 mm	Defined as >108.56 mm		
Age, median (range), years	63.0 (34–78)	64.0 (36–84)	64.0 (39–80)	64.5 (38–88)		
IMDC risk group, ^b % Favourable / Intermediate + Poor / Not evaluable	40.7/ 58.0 / 1.2	30.0/ 68.8 / 1.3	34.6 / 65.4 / 0	6.3 / 93.8 / 0		
Sarcomatoid features, %	9.9	8.8	4.9	6.3		
PD-L1 expression, ^c % ≥1 / <1 / Not available	25.9 / 32.1 / 42.0	37.5 / 28.8 / 33.8	37.0 / 34.6 / 28.4	23.8 / 33.8 / 42.5		
Prior nephrectomy, %	87.7	88.8	76.5	38.8		

Adapted from Grünwald V et al. ASCO GU 2024¹²

Percentages may not total 100 due to rounding. One patient in the KEYTRUDA + KISPLYX group had carcinoma without a clear-cell component.

alnotudes patients in the full analysis set within the KEYTRUDA + KISPLYX group with baseline target lesion assessments by independent imaging review per RECIST v1.1; bIMDC scores: 0 indicates favourable risk, 1 or 2 intermediate risk, and 3 to 6 poor risk. IMDC risk group was not a stratification factor and relevant data were derived programmatically; cPD-L1 expression was assessed with the PD-L1 immunohistochemistry 22C3 pharmDx assay (Agilent Technologies) and reported as the combined positive score (number of PD-L1-staining cells, [tumour cells, lymphocytes and macrophages] divided by the total number of viable tumour cells), then multiplied by 100.

IMDC, International Metastatic Renal Cell Carcinoma Database Consortium; PD-L1, programmed death ligand-1; Q, Quartile; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1.



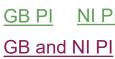














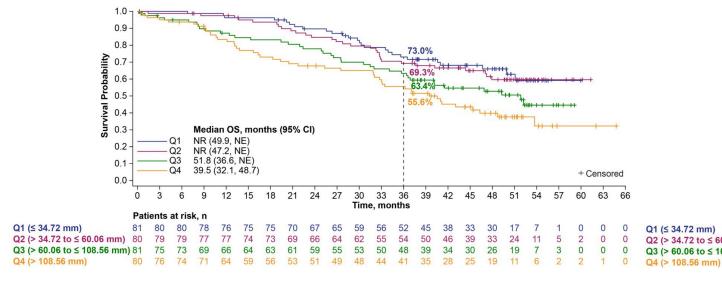
Patient characteristics

OS and PFS by tumour size

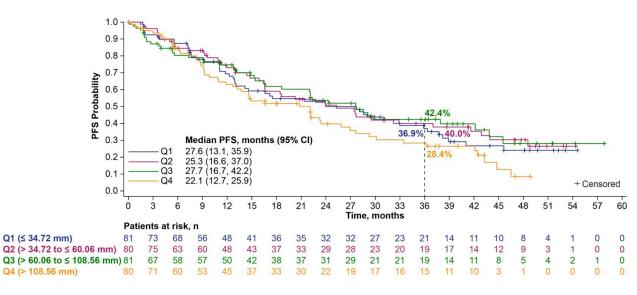
ORR by tumour size

Exploratory subgroup analysis¹²

OS by baseline tumour size^a



PFS by baseline tumour size^b



Adapted from Grünwald V et al. ASCO GU 202412

LIMITATION: This study was not powered to detect differences in the treatment effect between these subgroups. Results from exploratory analyses should be interpreted with caution due to modest patient numbers and potential imbalances in baseline characteristics between subgroups.

Medians were estimated by the Kaplan–Meier method, and 95% CIs were estimated with a generalised Brookmeyer and Crowley method. Survival rate at 36 months was calculated using the Kaplan–Meier product-limit method.

a The number of patients with OS events (deaths) were: Q1=26, Q2=30, Q3=38, Q4=46; bIndependent imaging review by RECIST v1.1. The number of patients with PFS events (death or progressive disease) were: Q1=50, Q2=45, Q3=42, Q4=54. CI, confidence interval; NE, not estimable; NR, not reached; OS, overall survival; PFS, progression-free survival; Q, Quartile; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1.



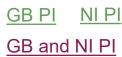














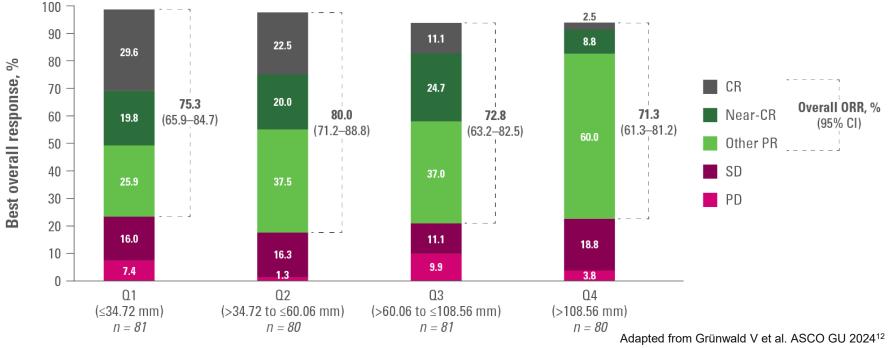
Patient characteristics

OS and PFS by tumour size

ORR by tumour size

Exploratory subgroup analysis¹²

Best overall response by baseline tumour size^a



LIMITATION: This study was not powered to detect differences in the treatment effect between these subgroups. Results from exploratory analyses should be interpreted with caution due to modest patient numbers and potential imbalances in baseline characteristics between subgroups.

Includes patients with baseline target lesion assessments, 95% CIs were calculated using asymptotic normal distribution. 'Near-CR' refers to individuals who presented a PR with a maximum tumour reduction of ≥75%. 'Other PR' refers to PRs with maximum tumour shrinkage <75%. The proportion of patients with unknown/not evaluable responses were: Q1=1.2%, Q2=2.5%, Q3=6.3%. Percentages are based on the total number of patients in the full analysis set within the KEYTRUDA + KISPLYX group. Percentages may not total 100 due to rounding.

















alncludes patients with baseline target lesion assessments by independent imaging review per RECIST v1.1.

CI, confidence interval; CR, complete response; ORR, objective response rate; PD, progressive disease; PR, partial response; Q, Quartile; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1; SD, stable disease.

Summary of primary analysis

Summary of pre-specified final analysis

CLEAR study primary analysis

Pembrolizumab + lenvatinib: Outcomes in 1L advanced RCC6



Superior PFS:

• A 61% reduction in the risk of progression or death for KEYTRUDA + KISPLYX vs sunitinib (HR=0.39 [95% CI, 0.32–0.49]; P<0.0001)^a



Superior OS:

• A **34% reduction** in risk of death for **KEYTRUDA** + **KISPLYX** vs sunitinib (HR=0.66 [95% CI, 0.49–0.88]; *P*=0.005)^a



Superior ORR:

- ORR was 71.0% with KEYTRUDA + KISPLYX vs 36.1% with sunitinib (P<0.0001)b
 - CR: 16.1% with KEYTRUDA + KISPLYX vs 4.2% with sunitinib



Safety:

The safety profile of KEYTRUDA + KISPLYX was consistent with the profiles for the individual drugs

^aAnalysis cutoff date: 28 August 2020 and median follow-up: 26.6 months for pembrolizumab + lenvatinib and sunitinib¹⁰; ^bAt the Interim Analysis 2, prespecified final analysis of ORR (median follow-up time of 17.3 months), statistically significant superiority was achieved for ORR comparing pembrolizumab + lenvatinib with sunitinib (odds ratio: 3.84 [95% CI: 2.81, 5.26], *P*<0.0001).^{7,9}

11. first-line: CI: confidence interval: CR: complete response: HR: bazard ratio: ORR objective response rate: OR overall survival: PCC repairs and call carcinoma.

1L, first-line; CI, confidence interval; CR, complete response; HR, hazard ratio; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; RCC, renal cell carcinoma.

















Summary of primary analysis

Summary of pre-specified final analysis

Prespecified final analysis

Pembrolizumab + lenvatinib: Outcomes in 1L advanced RCC^{7,12}



Prespecified final analysis (exploratory data; no conclusions can be drawn):

• The pre-specified final OS analysis continues to support **KEYTRUDA** + **KISPLYX** as a standard of care in 1L advanced RCC



PFS:

 Median PFS was 23.9 months with KEYTRUDA + KISPLYX and 9.2 months with sunitinib (HR [95% CI]=0.47 [0.38–0.57]; nominal P<0.0001)



OS:

 Median OS was 53.7 months with KEYTRUDA + KISPLYX and 54.3 months with sunitinib (HR [95% CI]=0.79 [0.63–0.99); nominal P=0.0424)



ORR and DOR:

- ORR was 71.3% with **KEYTRUDA** + **KISPLYX** and 36.7% with sunitinib (RR [95% CI]=1.94 [1.67–2.26])
 - CR was 18.3% with KEYTRUDA + KISPLYX and 4.8% with sunitinib
- Median DOR was 26.7 months with KEYTRUDA + KISPLYX and 14.7 months with sunitinib (HR [95% CI]=0.57 [0.43–0.76])



Safety:

• No new safety signals were identified at the final prespecified analysis



Outcome by baseline tumour size:

• With extended follow-up (median ~4 years) of the CLEAR study, PFS, OS and ORR outcomes with **KEYTRUDA** + **KISPLYX** were observed across patients with advanced RCC, irrespective of baseline tumour size

Analysis cutoff date: 31 July 2022.

1L, first-line; CI, confidence interval; CR, complete response; DOR, duration of response; HR, hazard ratio; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; RCC, renal cell carcinoma; RR, relative risk.

















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