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PD1(PD-L1) Immunotherapy in Advanced NSCLC: Update from WCLC 2024





Presented by D. Gandara. Best of WCLC San Francisco 2024



PD1(PD-L1) Immunotherapy in Advanced NSCLC: Update from WCLC 2024

Abstracts

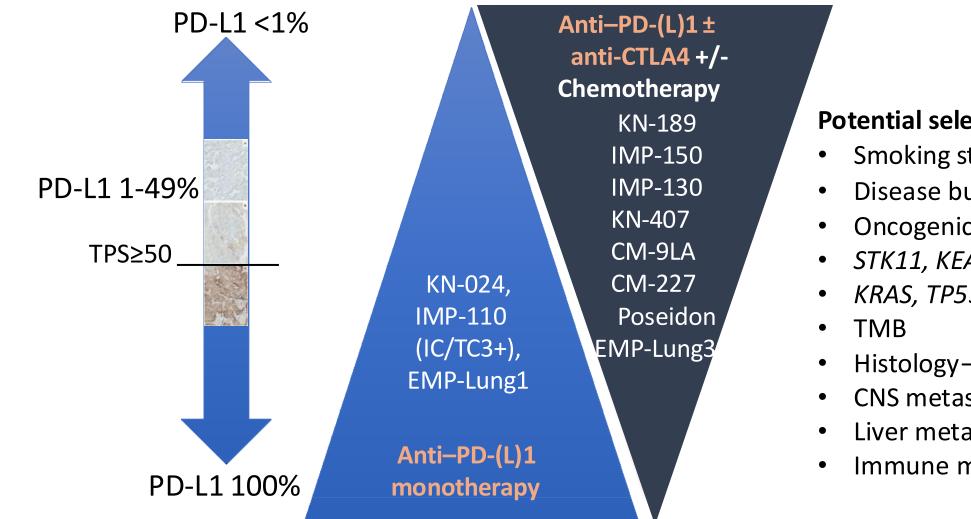
- EMPOWER Lung 1: Cemiplimab monotherapy for 1st line advanced NSCLC patients with PD-L1 expression ≥50%: 5-year outcomes (Klickap et al)
- HARMONI-2: Phase III trial of Ivonescimab (AK112) vs Pembrolizumab as 1st Line Treatment for PD-L1+ advanced NSCLC (Caicun Zhou, et al)
- **Meta-Analysis:** Survival outcomes in single versus double immune checkpoint inhibitor in advanced non-small cell lung cancer (Ponvilawan, et al)
- **KEYLYNX-006:** Phase III trial of PARPi Olaparib maintenance therapy in advanced NSCLC (J. Gray et al)



Immunotherapy therapeutic landscape in advanced NSCLC: Phase III Trials in 1st Line Therapy

	Drug	PD-L1			HR primary			Parameters
Study	(vs CT)	selection	Control	Primary endpoint	endpoint	Result	Publication	
KN-024	Pembro	<u>></u> 50%	Platinum CT	PFS	0.50	Positive	Reck et al. NEJM 2016	Test Regimen
CM026	Nivo	<u>></u> 5%	Platinum CT	PFS	1.15	Negative	Carbone et al. NEJM 2017	ICI Monotherapy
KN-042	Pembro	<u>></u> 1%	Platinum CT	OS	0.81 0.69 (50%)	Positive	Mok et al. <i>Lancet</i> 2019	ICI+CT
IMpower110	Atezo	<u>></u> 1%	Platinum CT	OS in TC3/IC3	0.59	Positive	Herbst et al. NEJM 2020	ICI+CT+Bev
EMPOWER-Lung 1	Cemi	<u>></u> 50%	Platinum CT	PFS, OS	0.54 (PFS) 0.57 (OS)	Positive	Sezer et al. <i>Lancet</i> 2021	ICI + CTLA-4
MYSTIC	Durva or Durva/Tremi	<u>></u> 25%	Platinum CT	PFS, OS	0.87 (PFS) durva 0.76 (OS) durva	Negative	Rizvi et al. JAMA Oncol 2020	Biomarker None
CM227	Nivo or Nivo-Ipi	<1%/≥1% & TMB <u>></u> 10	Platinum CT	PFS, OS	0.58 (PFS) in TMB- H 0.62 (OS) in <1% 0.79 (OS) in ≥1%	Positive	Hellmann et al. <i>NEJM</i> 2018 Hellman et al. <i>NEJM</i> 2019	PD-L1 TMB
CM9LA	Nivo-Ipi-CT	<u>></u> 1%	Platinum CT	OS	0.66	Positive	Paz Ares et al. <i>Lancet Oncol</i> 2021	Histology All
KN-189 (NSQ)	Pembro-CT	<u>></u> 1%	Platinum CT	PFS	0.52	Positive	Ghandi et al. <i>NEJM</i> 2018	SQ NSQ
KN-407 (SQ)	Pembro-CT	None	Platinum-Nab Pac	PFS, OS	0.56 (PFS) 0.64 (OS)	Positive	Paz Ares et al. <i>NEJM</i> 2018	
IMpower150 (NSQ)	Atezo + Bev/Pac/Carbo	None	Bev/Pac/Carbo	PFS, OS	ACBP 0.71 (PFS) ACBP 0.78 (OS)	Positive	Socinski et al. <i>NEJM.</i> 2018	Primary Endpoint PFS
IMpower131 (SQ)	Atezo + nab Pac/Carbo	None	Pac/Carbo	PFS, OS	0.71 (PFS) 0.88 (OS)	Positive (PFS)	Jotte et al. J Thorac Oncol 2020	OS Both
EMPOWER-Lung 3	Cemi-CT	None	Platinum CT	PFS, OS	0.56 (PFS) 0.71 (OS)	Positive	Gogishvili et al. Nat Med 2022	
POSEIDON	Durva+Tremi-CT	None	Platinum CT	PFS, OS	0.77 (OS)	Positive	Johnson et al. JCO 2022	

1st-line Immunotherapy Regimens in Advanced NSCLC based on PD-L1 score



Potential selection factors:

- Smoking status
- Disease burden
- **Oncogenic drivers**
- STK11, KEAP1
- KRAS, TP53
- Histology—squamous/non
- CNS metastases
- Liver metastases
- Immune mediators

Garon EB, et al. N Engl J Med. 2015;372(21):2018-28. Reck M, et al. Presented at: ASCO;2021. Brahmer J, et al. ESMO;2020; Abstract LBA51. Gray JE, et al. WCLC;2020. Paz Arez L, et al. J Thorac Oncol. 2020;15(10):1657-1669. Herbst RS, et al. WCLC;2020. Reck M, et al. ASCO;2020.

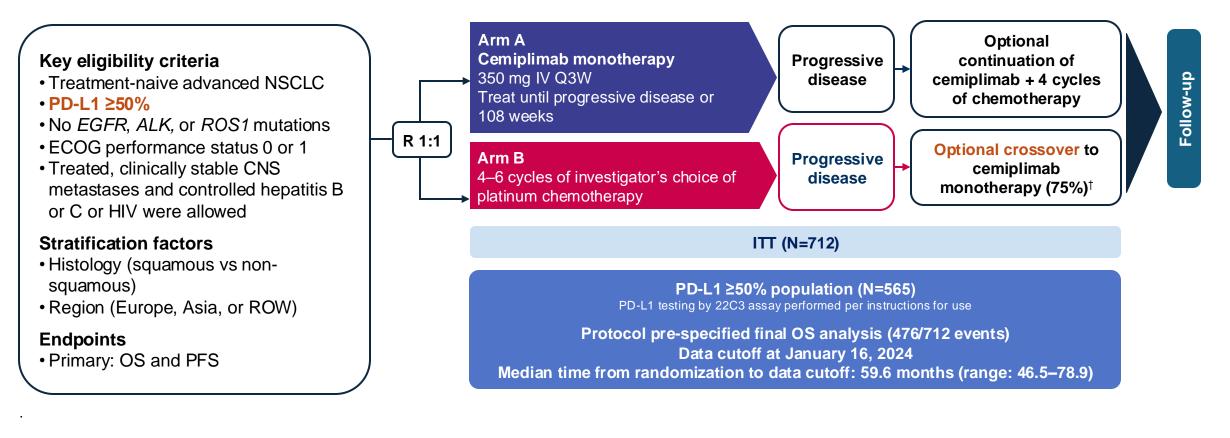
Discussant: Karen Reckamp, MD | OA11 Front-Line Immunotherapy

#WCLC24 wclc2024.iaslc.org

5 years

EMPOWER-Lung 1: Cemiplimab vs Platinum Chemotherapy in 1st Line Therapy

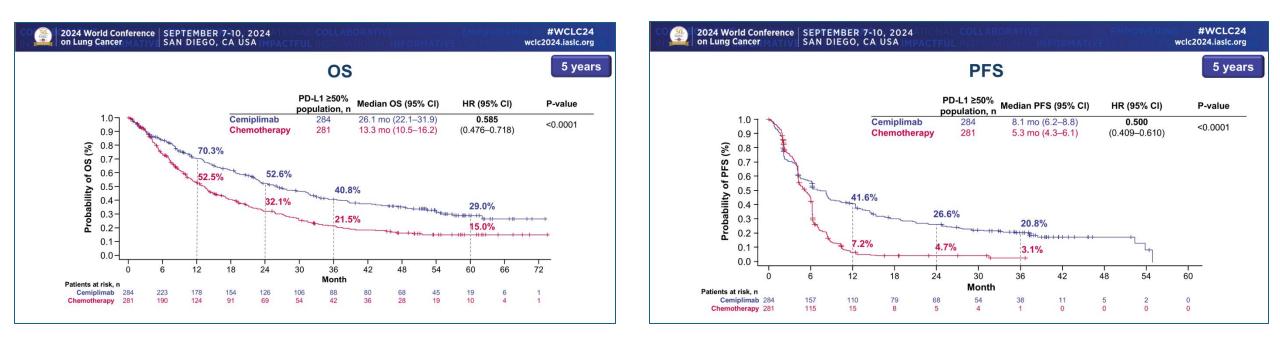
- Previous primary and 3-y update of EMPOWER-Lung 1 trial (NCT03088540) demonstrated survival benefits in patients with advanced NSCLC.¹⁻²
- Here we report the protocol pre-specified final OS analysis with 5-year follow-up.



ALK, anaplastic lymphoma kinase; CNS, central nervous system; DOR, duration of response; ECOG, Eastern Cooperative Oncology Group; EGFR, epidermal growth factor receptor; HIV, human immunodeficiency virus; IV, intravenous; NSCLC, non-small cell lung cancer; ORR, objective response rate; OS, overall survival; PD-L1, programmed cell death-ligand 1; PFS, progression-free survival; Q3W, every 3 weeks; R, randomized; ROS1, c-ros oncogene 1; ROW, rest of the world.

1. Sezer A et al. Lancet. 2021;397:592-604 2. Ozguroglo M et al. Lancet Oncol. 2023;24: 989-1001.

EMPOWER-Lung 1: Cemiplimab vs Platinum Chemotherapy



Effects of drug cross-over evident in the OS data of the Chemotherapy arm (Cross-over from Chemotherapy to Cemiplimab in 75%)



PFS subgroup analysis

EMPOWER-Lung 1: Cemiplimab vs Platinum Chemotherapy in 1st line therapy of adv NSCLC



OS subgroup analysis

		Chemotherapy (events/total)		HR (95% CI)	Cemiplimab (events/total)	Chemotherapy (events/total)	,	HR (95% CI)
Il patients	173/284	202/281	⊢∙⊣	0.585 (0.476–0.718)	221/284	236/281	⊢∙⊣	0.500 (0.409–0.610)
ge group, years								
<65	90/157	98/148		0.626 (0.468–0.836)	119/157	123/148		0.488 (0.370–0.643)
≥65	83/127	104/133		0.545 (0.407–0.731)	102/127	113/133		0.524 (0.393–0.700)
ex								
Male	152/249	174/231		0.521 (0.417–0.650)	191/249	203/231		0.447 (0.359–0.556)
Female	21/35	28/50		0.918 (0.520–1.620)	30/35	33/50		0.821 (0.483–1.397)
ace								
White	152/244	173/241	⊢⊷⊣	0.612 (0.490–0.763)	193/244	203/241		0.504 (0.407–0.624)
Non-white	21/40	29/40	—	0.431 (0.242–0.767)	28/40	33/40		0.476 (0.277–0.818)
COG								
)	43/77	43/76	⊢∙+₁	0.809 (0.529-1.236)	63/77	58/76	⊢ •−-	0.633 (0.432-0.927)
1	130/207	159/205		0.521 (0.411–0.660)	158/207	178/205	⊢ •-1	0.460 (0.364–0.582)
stology								
Squamous	80/123	95/122		0.509 (0.376-0.689)	100/123	104/122		0.439 (0.323–0.596)
lon-squamous	93/161	107/159	┝╼╼┥│	0.664 (0.502–0.878)	121/161	132/159	⊢⊷⊣	0.549 (0.422–0.715)
rain metastasis								
Yes	15/34	28/35	→	0.402 (0.209-0.772)	23/34	32/35 🛏	→	0.339 (0.182–0.631)
No	158/250	174/246	⊢⊷⊣∣	0.602 (0.483–0.750)	198/250	204/246	⊢•-1	0.533 (0.431–0.658)
ancer stage								
_ocally advanced	27/45	28/42	⊢ •+1	0.683 (0.398–1.173)	36/45	33/42	┝━━━┥	0.564 (0.336-0.946)
Vetastatic	146/239	174/239	⊢∙⊣	0.564 (0.451–0.705)	185/239	203/239	⊢∙⊣	0.493 (0.397–0.612)
							· · · ·	
	Favors cemipli		1 -	→ ¹⁰ Favors chemotherapy	Favors cemiplin	0.1 🔶	1 -	→ 10 Favors chemoth



EMPOWER Lung 1: Cemiplimab OS benefit increases with higher PD-L1 expression



PD-L1 ≥50% Median OS (95%CI) population, n Cemiplimab: PD-L1 ≥90% 38.8 mo (22.9-NE) 99 1.0 Cemiplimab: PD-L1 >60-<90% 89 26.2 mo (22.1-31.6) 0.9 - Cemiplimab: PD-L1 \geq 50- \leq 60% 96 19.5 mo (13.2-25.5) ······ Chemotherapy: PD-L1 ≥90% 95 13.7 mo (8.8–20.6) 0.8 ----- Chemotherapy: PD-L1 >60-<90% 90 11.2 mo (7.6–14.8) Probability of OS (%) 0.7 --- Chemotherapy: PD-L1 \geq 50- \leq 60% 96 14.0 mo (10.1–19.3) 0.6 -0.5 -0.4 -0.3 -0.2 0.1 -0.0 -12 18 24 36 42 72 6 30 48 54 60 66 0 Month

5 years

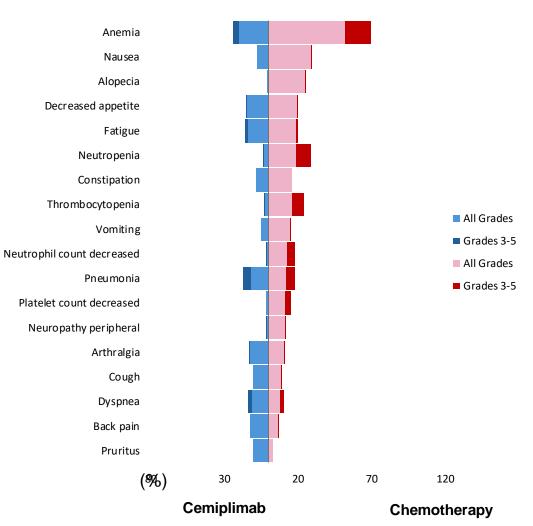
Cemiplimab safety profile remains good at 5 years

	Cemiplimab (n=356)		Chemotherapy (n=343)		
Duration of exposure, weeks, median (range)		2 426 0)	10.0 (0.)		
	36.0 (0.3–136.0)		18.0 (0.6–141.1)		
TEAEs, regardless of attribution, n (%)	Any grade	Grade 3–5	Any grade	Grade 3–5	
Overall	330 (92.7)	163 (45.8)	329 (95.9)	177 (51.6)	
Led to discontinuation	32 (9.0)	20 (5.6)	17 (5.0)	10 (2.9)	
Led to death	36 (10.1)	36 (10.1)	33 (9.6)	33 (9.6)	
Treatment-related TEAEs,					
n (%)					
Overall	224 (62.9)	65 (18.3)	310 (90.4)	137 (39.9)	
Led to discontinuation	26 (7.3)	15 (4.2)	15 (4.4)	10 (2.9)	
Led to death	10 (2.8)	10 (2.8)	7 (2.0)	7 (2.0)	
Sponsor-identified immune-					
related TEAEs, n (%)					
Overall	83 (23.3)	17 (4.8)	12 (3.5)	2 (0.6)	
Led to discontinuation	16 (4.5)	9 (2.5)	0	0	
Led to death [†]	2 (0.6)	2 (0.6)	0	0	

[†]Cause of death due to nephritis and myocarditis.

Adverse events are reported for all patients who received either intervention (safety analysis set). All events are listed as shown in the study safety report; hence, some events might reflect the same condition. TEAEs, treatment-emergent adverse events.





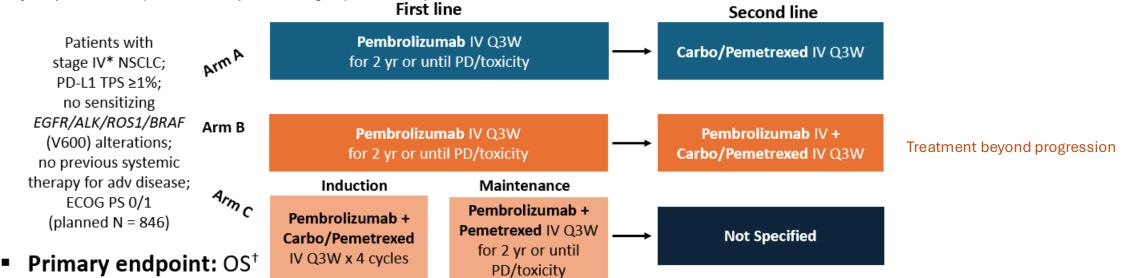


What is optimal sequencing of ICI and Chemotherapy in Advanced NSCLC?

EA5163/S1709 INSIGNA

• Randomized phase III study

Stratified by PD-L1 status (1%-49% vs 50%) and smoking hx (ever or never)



Secondary endpoints: PFS,⁺ ORR,⁺ outcomes by PD-L1 TPS ≥50%, safety

*Stage IIIB/C allowed if patient is not a candidate for cCRT. ⁺Arm A vs arm C and arm B vs arm C.

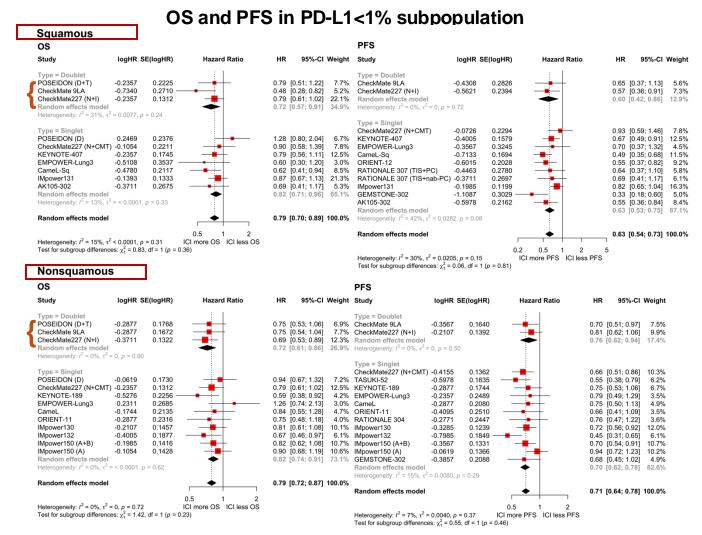
Karen Reckamp, MD | @ReckampK | OA11 Front-Line Immunotherapy

NCT03793179.



Survival in Single vs Double immune checkpoint inhibitor (ICI) Regimens in advanced NSCLC: a Meta-Analysis

- Question addressed: When to use Double ICI: Nivo-Ipi or Durva-Treme
- Key subgroups of interest: PD-L1<1%, STK11 & KEAP 1mutated
- 21 trials were included in the meta-analysis.
- <u>No</u> significant differences in OS or PFS benefits were noted in patients with PD-L<1% between **Single vs Double ICI** for both histological subtypes (Figure).
- <u>No</u> differential survival benefits were found in the positive PD-L1 subgroup as well

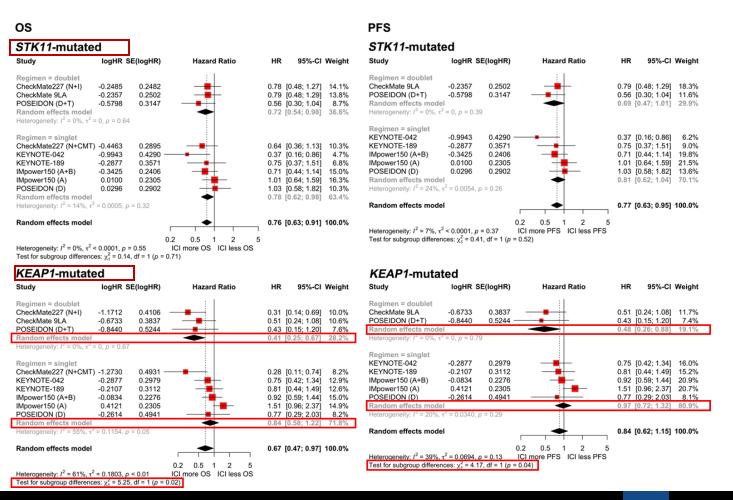


OS and PFS benefit for Double ICI in *KEAP1*-mutated, but not *KRAS*or *STK11*-mutated subgroups

- Patients with *KEAP1* mutation had <u>improved</u> OS and PFS with Double ICI (HR 0.41; 95%CI 0.25-0.67 and PFS (0.48; 95%CI 0.26-0.88) but not single ICI.
- OS and PFS benefits did <u>not</u> differ based on any KRAS, KRAS G12C, or STK11 mutations.

Conclusions:

- Consider Double ICI Regimens for patients with *KEAP1*-mutated NSCLC
- Clinical trials warranted



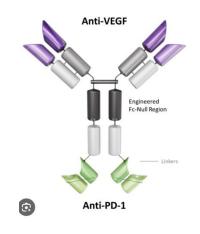
B Ponvilawan, et al | Survival outcomes in single versus double immune checkpoint inhibitor in advanced non-small cell lung cancer: a meta-analysis.



HARMONi-2 (Phase 3), primary analysis: Ivonescimab (AK112) vs Pembrolizumab as 1L treatment for PD-L1 ≥1% advanced NSCLC

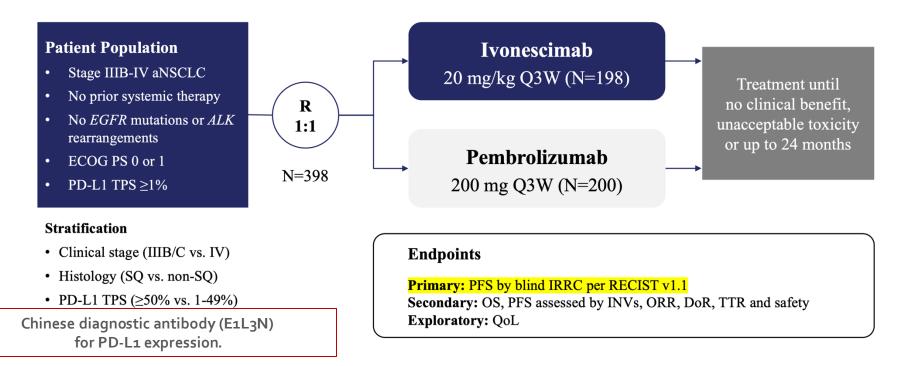
Ivonescimab:

PD-1/VEGF-A targeted bispecific monoclonal antibody



HARMONi-2 (AK112-303) Study Design

A randomized, double-blind, phase 3 study^a





Baseline Characteristics

Characteristics, n (S	%)	Ivonescimab (n = 198)	Pembrolizumab (n = 200)	Total (n = 398)
Age (years)	<65	97 (49.0)	85 (42.5)	182 (45.7)
ABC (years)	≥65	101 (51.0)	115 (57.5)	216 (54.3)
Sex	Male	164 (82.8)	169 (84.5)	333 (83.7)
	Female	34 (17.2)	31 (15.5)	65 (16.3)
ECOG PS	0	25 (12.6)	26 (13.0)	51 (12.8)
	1	173 (87.4)	174 (87.0)	347 (87.2)
	Never	39 (19.7)	38 (19.0)	77 (19.3)
Smoker	Current	39 (19.7)	42 (21.0)	81 (20.4)
	Former	120 (60.6)	120 (60.0)	240 (60.3)
Clinical stage	IIIB/C	14 (7.1)	17 (8.5)	31 (7.8)
ennieu stuge	IV	184 (92.9)	183 (91.5)	367 (92.2)
Pathology	SQ	90 (45.5)	91 (45.5)	181 (45.5)
i utilology	Non-SQ	108 (54.5)	109 (54.5)	217 (54.5)
PD-L1 TPS	≥50%	83 (41.9)	85 (42.5)	168 (42.2)
	1-49%	115 (58.1)	115 (57.5)	230 (57.8)
Liver metastases	Yes	25 (12.6)	28 (14.0)	53 (13.3)
	Νο	173 (87.4)	172 (86.0)	345 (86.7)
Brain metastases	Yes	33 (16.7)	39 (19.5)	72 (18.1)
	Νο	165 (83.3)	161 (80.5)	326 (81.9)

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HARMONi-2 (Phase 3), primary analysis: Ivonescimab (AK112) vs pembrolizumab as 1L treatment for PD-L1+ advanced NSCLC

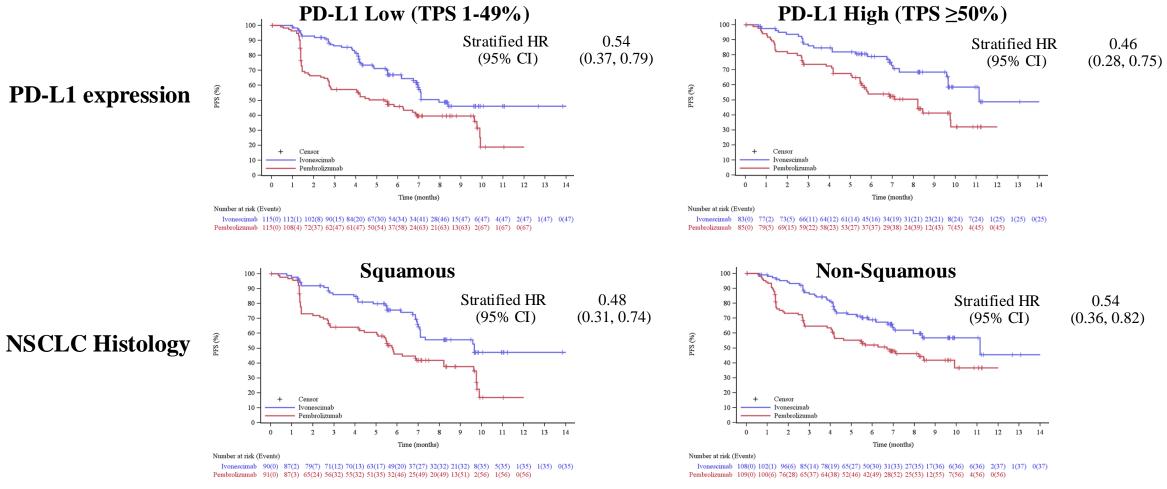


Primary endpoint: PFS per IRRC Ivonescimab (n = 198) Pembrolizumab (n = 200)11.14 5.82 mPFS, mos (95% CI) (7.33, NE) (5.03, 8.21) 100 -**0.51** (0.38, 0.69) Stratified HR 90 (95% CI) <0.0001 p-value 80 70 -60 -mo: 56% (47, 64) PFS (%) 50 9-mo: 40% (32, 48) 30 20 Censo 10 Median Follow-up: 8.67 months Pembrolizuma 2 4 7 8 10 11 12 13 14 3 5 6 9

	Ivonescimab (n = 198)	Pembrolizumab (n = 200)
ORR, %	50.0	38.5
(95% CI)	(42.8, 57.2)	(31.7, 45.6)

Overall	Ivonescimab Events/Patients 72/198	Pembrolizumab Events/Patients 112/200		Unstratified Hazard Ratic (95% CI)
Age	12/190	112/200		0.51 (0.38, 0.69)
<65	37/97	50/85		0.52 (0.24, 0.81)
≥65	35/101	62/115		0.53 (0.34, 0.81)
Sex	55/101	02/115		0.52 (0.34, 0.79)
Male	58/164	94/169		0.52 (0.28, 0.74)
Female	14/34	18/31		0.53 (0.38, 0.74)
ECOG PS	14/34	10/31		0.49 (0.24, 0.99)
0	4/25	19/26	• I	0.10 (0.06, 0.54)
1	68/173	93/174		0.18 (0.06, 0.54)
Smoking Status	06/1/5	95/1/4	⊢ ●	0.60 (0.44, 0.82)
Never	13/39	22/38		
Current smoker	12/39	20/42		0.39 (0.19, 0.77)
Former smoker				0.51 (0.24, 1.07)
	47/120	70/120		0.57 (0.39, 0.74)
Liver metastases	10/05	10/20		
Yes	12/25	18/28		0.47 (0.23, 0.98)
No	60/173	94/172		0.53 (0.39, 0.74)
Brain metastases				
Yes	14/33	25/39		0.55 (0.28, 1.05)
No	58/165	87/161	⊢●┤│	0.53 (0.38, 0.74)
Distant metastatic sites				
<u>≥</u> 3	25/49	33/51	⊢●	0.58 (0.34, 0.97)
<3	47/149	79/149		0.49 (0.34, 0.71)
Clinical stage				
IIIB/C	5/15	5/16	⊢ ⊢	1.01 (0.29, 3.51)
IV	67/183	107/184	· ⊢•	0.49 (0.36, 0.67)
Pathology				
Squamous	35/90	56/91		0.50 (0.33, 0.76)
Non-Squamous	37/108	56/109	' <u> </u>	0.55 (0.36, 0.84)
PD-L1 TPS			1 - 1	
≥50%	25/83	45/85		0.48 (0.29, 0.79)
1-49%	47/115	67/115		0.54 (0.27, 0.79)
			1 - 1	0.54 (0.57, 0.78)
		0.06 0.1	1	10
			Ivonescimab Better	Pembrolizumab Better

HARMONi-2: Key PFS Subgroup Analyses



Ivonescimab showed meaningful improvement in PFS vs. pembrolizumab in patients with both low and high PD-L1, with squamous or non-squamous advanced NSCLC.

Abbreviations: PFS, progression-free survival; HR: hazard ratio; CI, confidence interval; PD-L1, programmed death ligand 1; TPS, tumor proportion score.

Caicun Zhou C, et al. WCLC 2024. Abstract PL02.04.

Safety Summary

TRAEs

Safety Summary, n (%)	Ivonescimab (n = 197 ^a)	Pembrolizumab (n = 199ª)	
TRAEs (all grades)	177 (89.8)	163 (81.9)	
Grade≥3	58 (29.4)	31 (15.6)	
Serious TRAEs	41 (20.8)	32 (16.1)	
Leading to discontinuation	3 (1.5)	6 (3.0)	
Leading to death	1 (0.5)	2 (1.0)	

TRAEs in SQ Subgroup

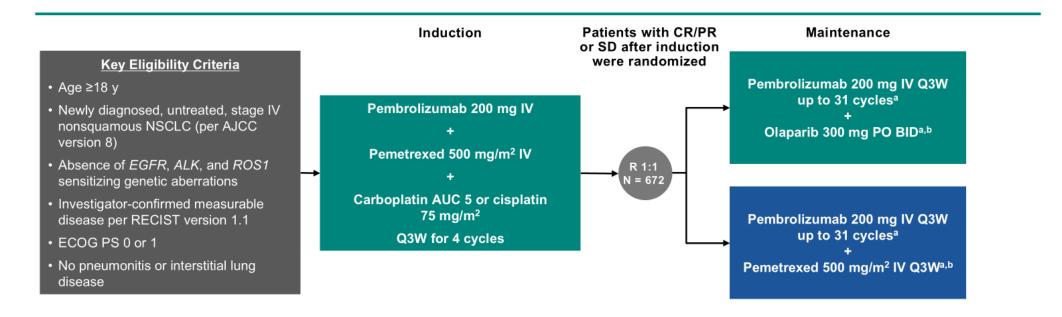
Safety Summary, n (%)	Ivonescimab (n = 90ª)	Pembrolizumab (n = 91ª)
TRAEs (all grades)	77 (85.6)	73 (80.2)
Grade≥3	20 (22.2)	17 (18.7)
Serious TRAEs	17 (18.9)	17 (18.7)
Leading to discontinuation	2 (2.2)	3 (3.3)
Leading to death	0	1 (1.1)

Ivonescimab showed manageable safety profile, which was consistent with previous studies.

Ivonescimab also demonstrated tolerable safety profile in SQ patients.

^a Patients who received ≥1 dose of study treatment. Abbreviations: AEs, adverse events; TRAEs, treatment-related adverse events; SQ, squamous cell carcinoma.

KEYLYNK-006: Maintenance PARPi Olaparib in Advanced NSCLC



Stratification Factors

- ECOG PS before randomization (0 vs 1)
- PD-L1 TPS^c at randomization (<50% vs ≥50%)
- Response at randomization (CR/PR vs SD)

Dual Primary Endpoints (calculated from the time of randomization)

- PFS per RECIST version 1.1 by BICR
- OS

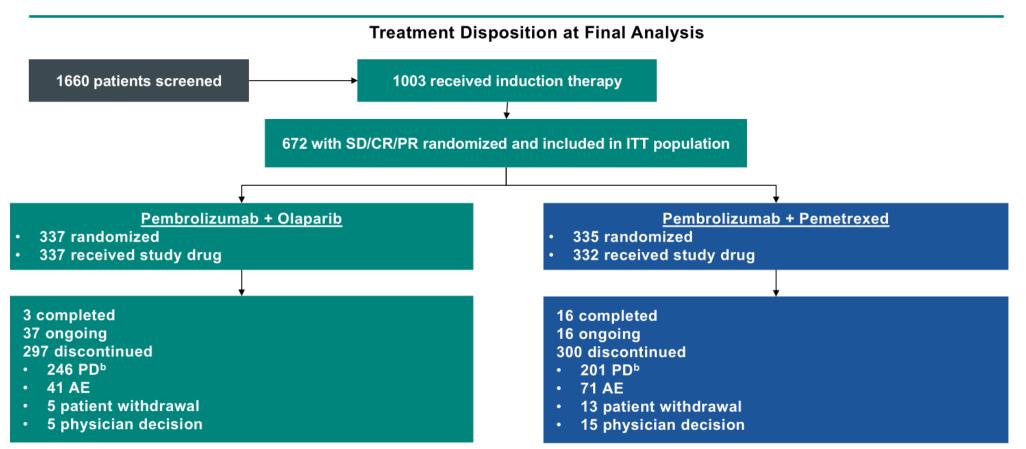
Statistical Analysis Plan

 Final PFS testing completed at interim analysis 2 (IA2); OS was evaluated at the final analysis (FA)

^aTreatment continued until maximum treatment cycles or confirmed PD, unacceptable toxicity, intercurrent illness, or physician decision. ^bThere was no maximum duration of exposure to olaparib or pemetrexed. ^cAssessed at a central laboratory using PD-L1 IHC 22C3 pharmDx (Agilent Technologies, Carpinteria, CA).



KEYLYNX-006: Phase III trial of the PARPi Olaparib maintenance therapy in advanced NSCLC



^aITT population includes patients who had CR, PR, or SD after induction and were randomized to receive either pembrolizumab plus olaparib or pembrolizumab plus pemetrexed. ^bIncludes clinical progression and radiographic progressive disease. Data cutoff date for FA: February 7, 2024.

J Gray, et al. WCLC 2024

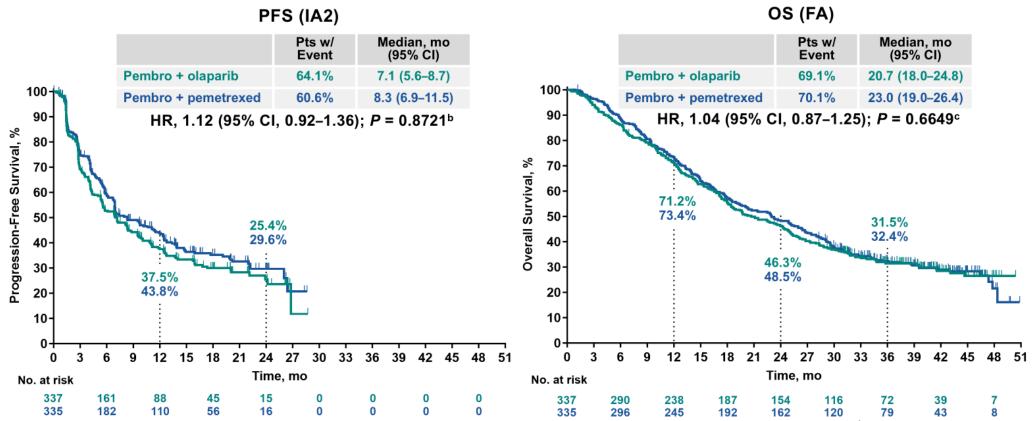


KEYLYNX-006: Phase III trial of PARPi Olaparib maintenance therapy in advanced NSCLC

Baseline Characteristics	Pembro + Olaparib (n = 337)	Pembro + Pemetrexed (n = 335)		Pembro + Olaparib (n = 337)	Pembro + Pemetrexed (n = 335)
Age, median (range), y	63.0 (25–83)	62.0 (28-85)	PD-L1 TPS		
Male	227 (67.4)	226 (67.5)	<50%	228 (67.7)	223 (66.6)
Race			≥50%	109 (32.3)	110 (32.8)
American Indian or Alaska Native	4 (1.2)	1 (0.3)	Not evaluable/missing	0	2 (0.6)
Asian	91 (27.0)	72 (21.5)	Brain metastasis at screening	70 (20.8)	60 (17.9)
Black or African American	4 (1.2)	8 (2.4)	Liver metastasis at screening	43 (12.8)	41 (12.2)
Native Hawaiian or other Pacific	2 (0.6)	2 (0.6)	2 (0.6) Overall tumor stage		
Islander	. ,	. ,	III	0	2 (0.6)
White	218 (64.7)	234 (69.9)	IIIB	0	1 (0.3)
Other ^b	18 (5.3)	18 (5.4)	IVA	160 (47.5)	170 (50.7)
ECOG PS 1 at start of induction	199 (59.1)	219 (65.4)	IVВ	177 (52.5)	162 (48.4)
ECOG PS 1 at randomization	195 (57.9)	200 (59.7)	Tumor response at randomization p	. ,	
Smoking status			assessment		
Former or current	280 (83.1)	284 (84.8)	CR or PR	189 (56.1)	192 (57.3)
Never	57 (16.9)	51 (15.2)	SD	148 (43.9)	143 (42.7)

^aITT population includes patients who had CR, PR, or SD after induction and were randomized to receive either pembrolizumab plus olaparib or pembrolizumab plus pemetrexed. ^bOther includes: American Indian or Alaska Native and White (olaparib arm, n = 4; pemetrexed arm, n = 7); Black or African American and Native Hawaiian or other Pacific Islander (olaparib arm, n = 1); Black or African American and White (olaparib arm, n = 2; pemetrexed arm, n = 1); White and Asian (pemetrexed arm, n = 1); missing (olaparib arm, n = 11; pemetrexed arm, n = 9). Data cutoff date for FA: February 7, 2024.

KEYLYNX-006: Phase III trial of PARPi Olaparib maintenance therapy in advanced NSCLC



^aITT population includes patients who had CR, PR, or SD after induction and were randomized to receive either pembrolizumab plus olaparib or pembrolizumab plus pemetrexed. ^bThe boundary for statistical significance for PFS was 0.00485. ^cThe boundary for statistical significance of OS was 0.014584.

Median time from randomization to IA2 data cutoff (May 18, 2022) was 19.2 (range, 7.4–30.8) months. Median time from randomization to FA data cutoff (February 7, 2024) was 39.9 (range, 28.1–51.5) months. Data cutoff date: IA2, May 18, 2022; FA, February 7, 2024.



KEYLYNX-006: Phase III trial of PARPi Olaparib maintenance therapy in advanced NSCLC

Summary and Conclusions

- In patients with CR/PR or SD following induction with pembrolizumab plus pemetrexed and chemotherapy, pembrolizumab plus maintenance olaparib did not improve PFS or OS versus pembrolizumab plus maintenance pemetrexed in previously untreated metastatic nonsquamous NSCLC without targetable genetic alterations
- No new safety signals were identified in either treatment group
- Future biomarker analysis is needed to help identify subpopulations who may benefit from PARPi treatment for NSCLC
- Pembrolizumab plus chemotherapy continues to be a standard of care for patients with previously untreated metastatic nonsquamous NSCLC without targetable genetic alterations