

Immunotherapy in Lung Cancer

2024 ASCO and ESMO update

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UCI Health

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Overview

SCLC

ADRIATIC (Durvalumab) – Changed practice

NSCLC

Early Stage: CheckMate 77T (Nivolumab) and others – Changing practice

Advanced: HARMONi-A and HARMONi-2 (Ivonescimab) – Will change practice

Overview

SCLC

ADRIATIC (Durvalumab)

NSCLC

Early Stage: CheckMate 77T (Nivolumab)

Advanced: HARMONi-A and HARMONi-2 (Ivonescimab)

ADRIATIC: durvalumab as consolidation treatment for patients with limited-stage small-cell lung cancer (LS-SCLC)

David R. Spigel, Ying Cheng, Byoung Chul Cho, Konstantin Laktionov, Jian Fang, Yuanbin Chen, Yoshitaka Zenke, Ki Hyeong Lee, Qiming Wang, Alejandro Navarro, Reyes Bernabe, Eva Buchmeier, John Wen-Cheng Chang, Isamu Okamoto, Sema Sezgin Goksu, Andrzej Badzio, Bethany Gill, Hema Gowda, Haiyi Jiang, Suresh Senan

Background

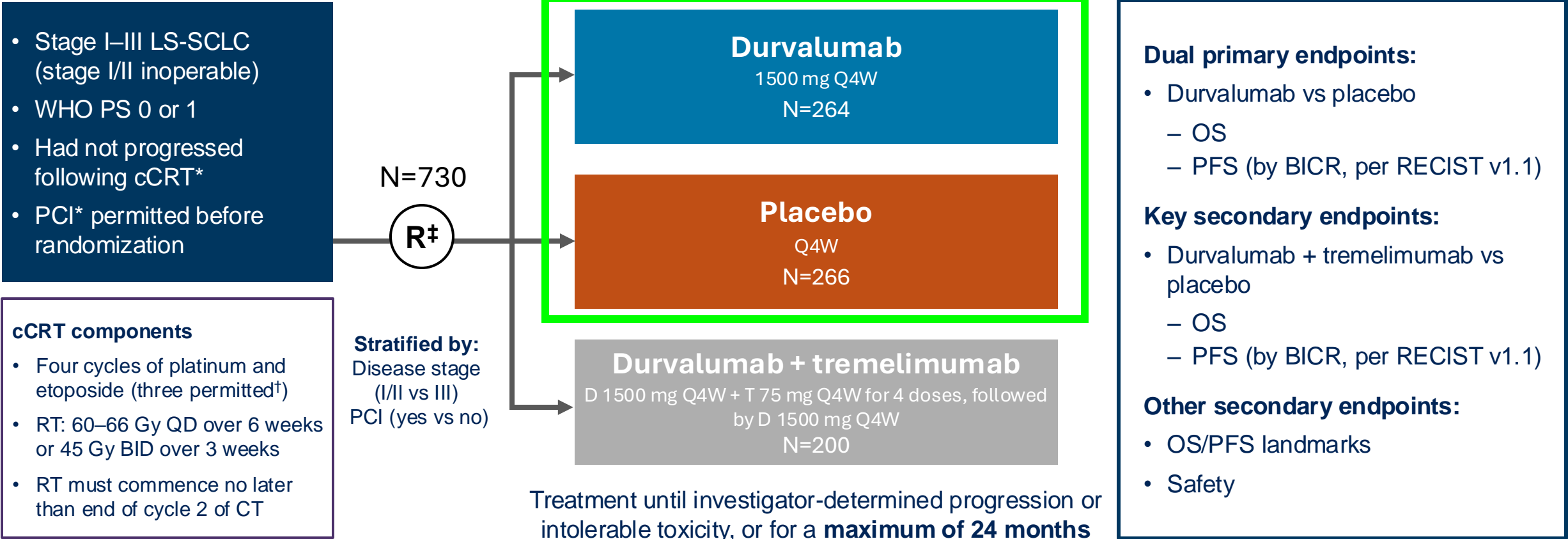
No major advances in systemic treatment for LS-SCLC for several decades

- Current standard of care was concurrent chemoradiotherapy (cCRT): median OS 25–30 months; 5-year survival rate 29–34%^{1,2}
- PACIFIC provided evidence for consolidation durvalumab post-cCRT with PFS and OS benefit in unresectable, stage III NSCLC^{3,4}
- CASPIAN provided evidence for durvalumab plus platinum-etoposide significantly improved OS vs platinum-etoposide alone in first-line ES-SCLC⁵

1. Faivre-Finn C, et al. Lancet Oncol 2017;18:1116–25; 2. Bogart J, et al. J Clin Oncol 2023;41:2394–402;
3. Antonia SJ, et al. N Engl J Med 2017;377:1919–29; 4. Antonia SJ, et al. N Engl J Med 2018;379:2342–50;
5. Paz-Ares L, et al. Lancet 2019;394:1929–39.

ADRIATIC study design

Phase 3, randomized, double-blind, placebo-controlled, multicenter, international study (NCT03703297)

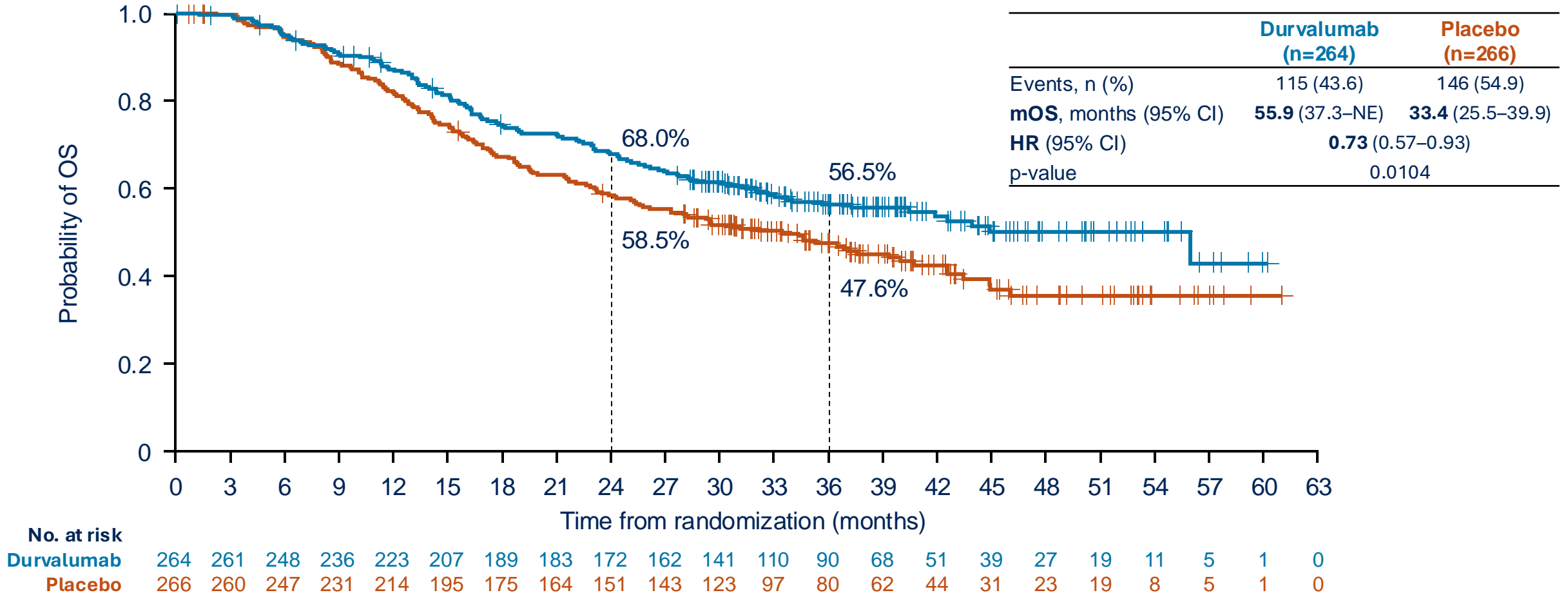


BICR, blinded independent central review; BID, twice daily; CT, chemotherapy; D, durvalumab; PCI, prophylactic cranial irradiation; PS, performance status; Q4W, every 4 weeks; QD, once daily; RECIST, Response Evaluation Criteria in Solid Tumors; RT, radiotherapy; T, tremelimumab; WHO, World Health Organization.

[‡]The first 600 patients were randomized in a 1:1:1 ratio to the 3 treatment arms; subsequent patients were randomized 1:1 to either durvalumab or placebo.

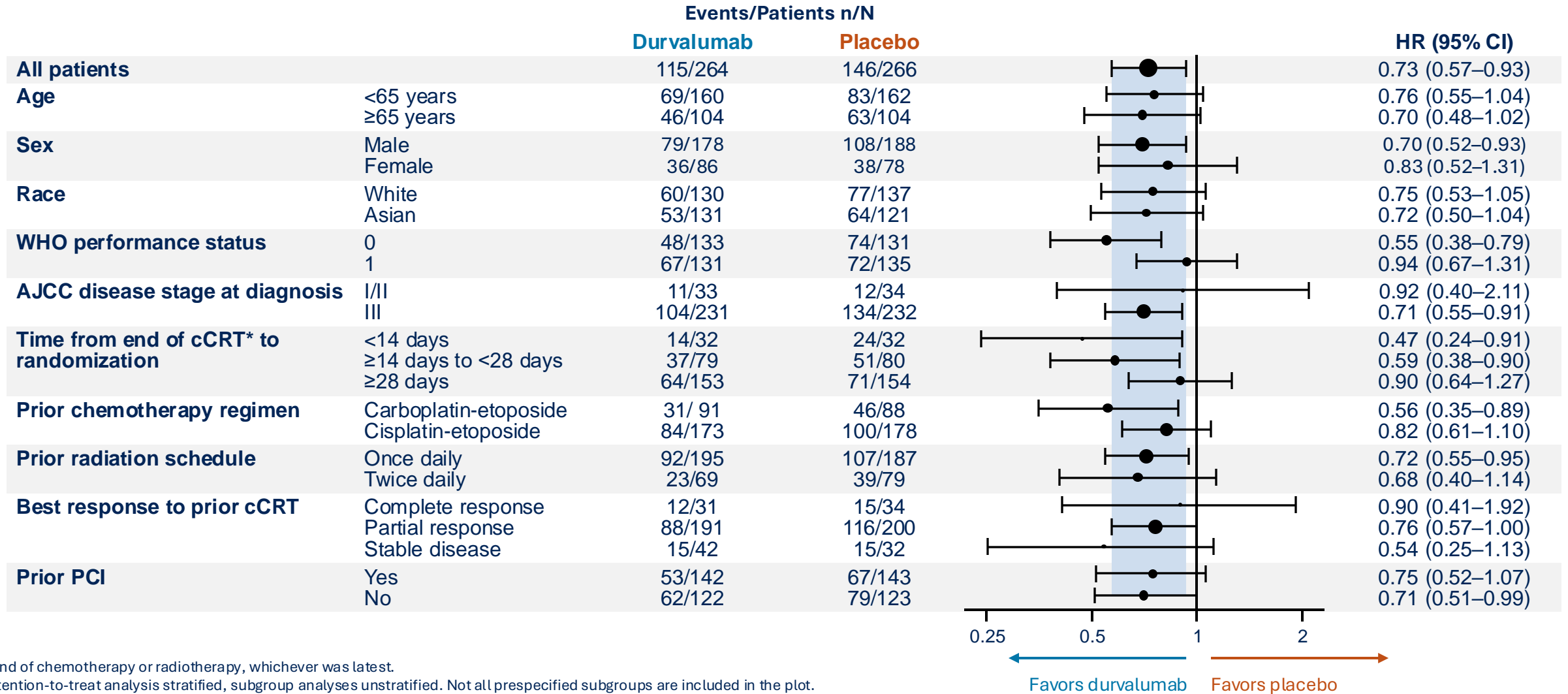
Overall survival

- Median duration of follow up in censored patients: 37.2 months (range 0.1–60.9)



OS was analyzed using a stratified log-rank test adjusted for receipt of PCI (yes vs no). The significance level for testing OS at this interim analysis was 0.01679 (2-sided) at the overall 4.5% level, allowing for strong alpha control across interim and final analysis timepoints.

OS subgroup analysis



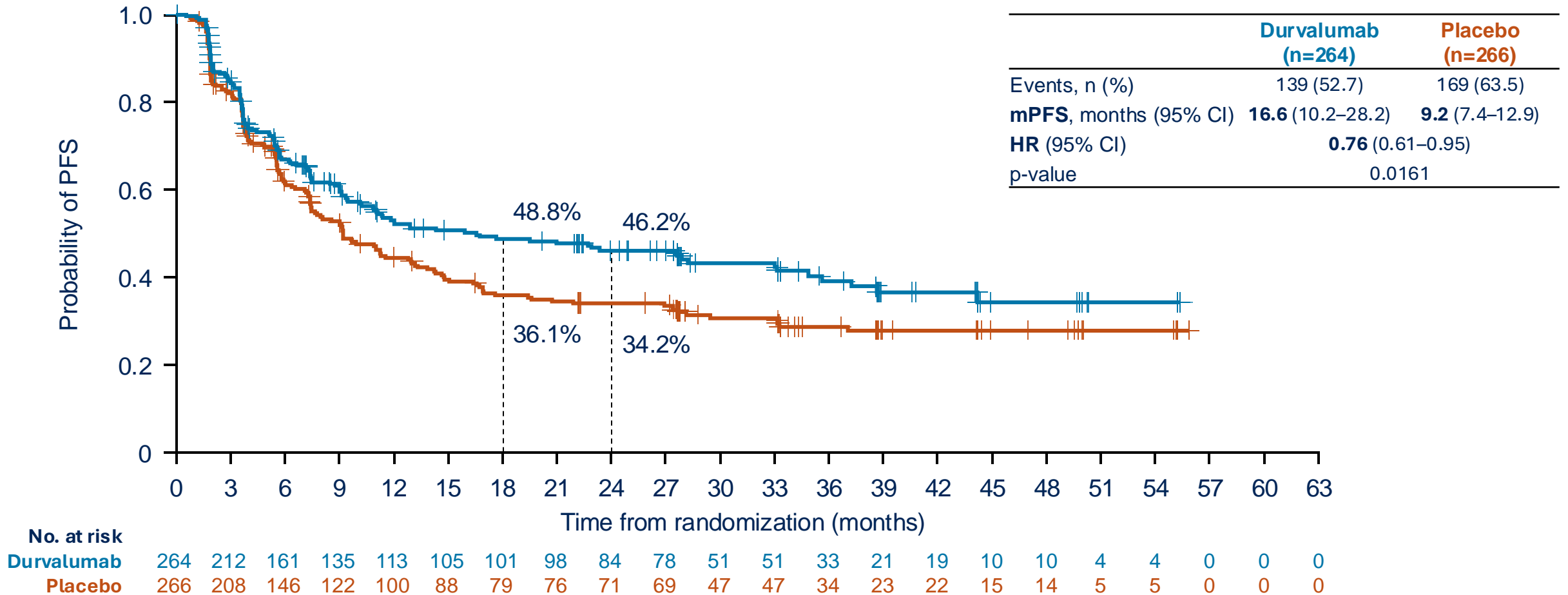
*End of chemotherapy or radiotherapy, whichever was latest.

Intention-to-treat analysis stratified, subgroup analyses unstratified. Not all prespecified subgroups are included in the plot.

Size of circle is proportional to number of events across both arms.

Progression-free survival

- Median duration of follow up in censored patients: 27.6 months (range 0.0–55.8)



*By BICR per RECIST v1.1.

PFS was analyzed using a stratified log-rank test adjusted for disease stage (I/II vs III) and receipt of PCI (yes vs no). The significance level for testing PFS at this interim analysis was 0.00184 (2-sided) at the 0.5% level, and 0.02805 (2-sided) at the overall 5% level. Statistical significance for PFS was achieved through the recycling multiple testing procedure framework and testing at the 5% (2-sided) alpha level (adjusted for an interim and final analysis).

Safety summary

		Durvalumab (n=262)	Placebo (n=265)
Number of durvalumab or placebo doses	Median (range)	9.0 (1–26)	9.0 (1–26)
	Mean (standard deviation)	12.9 (9.6)	11.8 (9.2)
Any-grade all-cause AEs, n (%)		247 (94.3)	234 (88.3)
Maximum grade 3/4 AEs		64 (24.4)	64 (24.2)
Serious AEs		78 (29.8)	64 (24.2)
AEs leading to treatment discontinuation		43 (16.4)	28 (10.6)
AEs leading to death		7 (2.7)	5 (1.9)
Treatment-related* AEs leading to death		2 (0.8) [‡]	0
Any-grade immune-mediated AEs [†]		84 (32.1)	27 (10.2)
Maximum grade 3/4 immune-mediated AEs		14 (5.3)	4 (1.5)

Includes AEs with an onset date following first dose of study treatment, or pre-treatment AEs that increased in severity following first dose of study treatment, through to 90 days after last dose or until start of the first subsequent systemic anticancer therapy (whichever occurred first).

*Assessed by investigator. [†]Defined as an AE of special interest (excluding infusion related/hypersensitivity/anaphylactic reaction) that is consistent with an immune-mediated mechanism that required treatment with systemic corticosteroids, other immunosuppressants, or endocrine therapy. [‡]Causes of death were encephalopathy and pneumonitis.

Conclusions

- Durvalumab as consolidation treatment after cCRT demonstrated statistically significant and clinically meaningful improvement in OS and PFS compared with placebo in patients with LS-SCLC
- Durvalumab consolidation treatment for up to 2 years was well tolerated, and safety findings were consistent with the known safety profile of durvalumab monotherapy in the post-cCRT setting

**ADRIATIC supported consolidation durvalumab as a new standard of care
for patients with LS-SCLC who have not progressed after cCRT**

Updated NCCN Guidelines

PRIMARY OR ADJUVANT THERAPY FOR LIMITED STAGE SCLC:

Four cycles of cytotoxic chemotherapy are recommended.

Planned cycle length should be every 21–28 days during concurrent RT.

During cytotoxic chemotherapy + RT, cisplatin/etoposide is recommended (category 1).

The use of myeloid growth factors is not recommended during concurrent cytotoxic chemotherapy therapy plus RT (category 1 for not using GM-CSF).¹

Preferred Regimens

- Cisplatin 75 mg/m² day 1 and etoposide 100 mg/m² days 1, 2, 3²
- Cisplatin 60 mg/m² day 1 and etoposide 120 mg/m² days 1, 2, 3³
- Consolidation Therapy
 - ▶ Durvalumab 1500 mg day 1 every 28 days^{a,4}

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Ongoing LS-SCLC phase 3 trials

Delphi-306 (NCT06117774) : chemoRT-> Tarlatamab

NGR-LU005 (NCT03811002): chemoRT +/- Atezolizumab

HLX10-020-SCLC302 (NCT05353257): chemoRT +/- Serplulimab

Keylynk-013 (NCT04624204): (chemoRT+pembro-> pembro+/- Olaparib vs. chemoRT)

Overview

SCLC

ADRIATIC (Durvalumab)

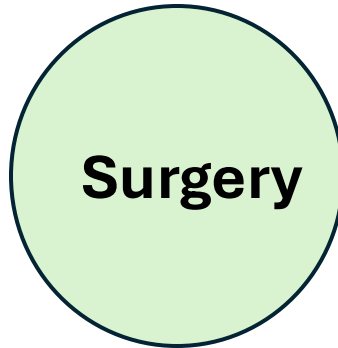
NSCLC

Early Stage: CheckMate 77T and CheckMate 816 (Nivolumab)

Advanced: HARMONi-A and HARMONi-2 (Ivonescimab)

Ongoing phase III clinical trials of perioperative immunotherapy in operable NSCLC

Neoadjuvant
CheckMate 816 (IB-III A):
Nivolumab + chemo



Adjuvant

IMpower010 (IB[>4cm]-III A): Atezolizumab
Keynote091 (IB[>4cm]-III A): Pembrolizumab
BR.31 (IB[>4cm]-III A): MEDI4736 (Durvalumab)
ANVIL (IB[>4cm]-III A): Nivolumab
MERMAID1/2 (II-III): Durvalumab
ALCHEMIST (IB[>4cm]-III A): Pembrolizumab

Perioperative

Keynote 671 (II-III B): Neoadjuvant Pembrolizumab + chemo; Adjuvant Pembrolizumab
CheckMate 77T (II-III B): Neoadjuvant Nivolumab + chemo; Adjuvant Nivolumab
IMpower 030 (II-III B): Neoadjuvant Atezolizumab + chemo; Adjuvant Atezolizumab
AEGEAN (IIA-III B): Neoadjuvant Durvalumab+chemo; Adjuvant Durvalumab
RATIONALE 315 (II-III A): Neoadjuvant Tislelizumab + chemo; Adjuvant Tislelizumab
JS001-029 (III A): Neoadjuvant Toripalimab + chemo; Adjuvant Toripalimab
NCT05157776 (III A): Neoadjuvant Sintilimab + chemo; Adjuvant Sintilimab



2024 World Conference on Lung Cancer

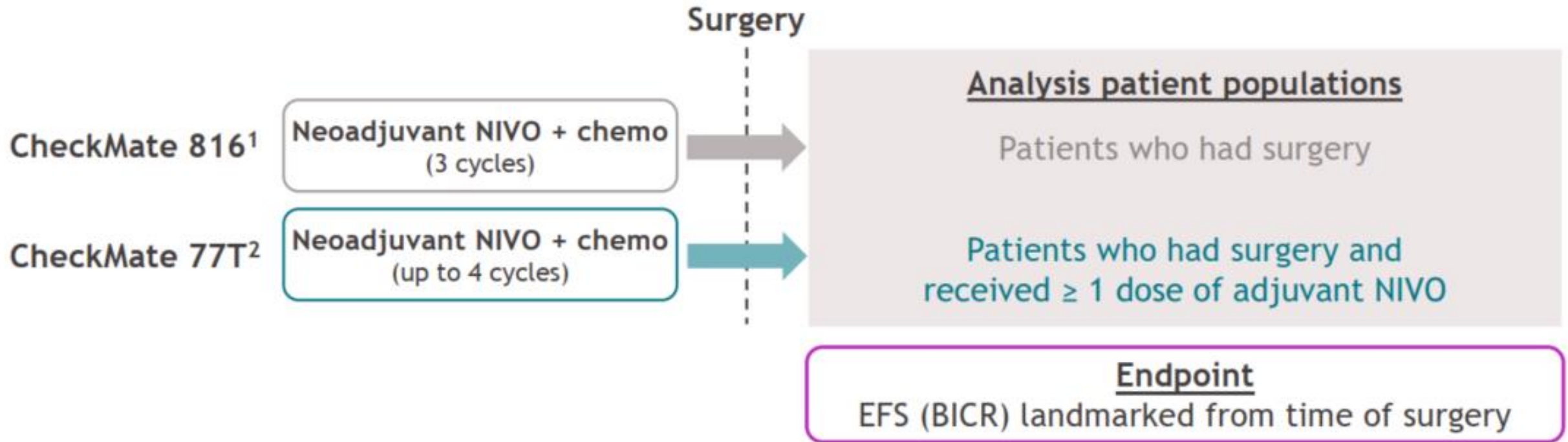
SEPTEMBER 7-10, 2024 | SAN DIEGO, CA USA

Perioperative vs neoadjuvant nivolumab for resectable NSCLC: patient-level data analysis of CheckMate 77T vs CheckMate 816

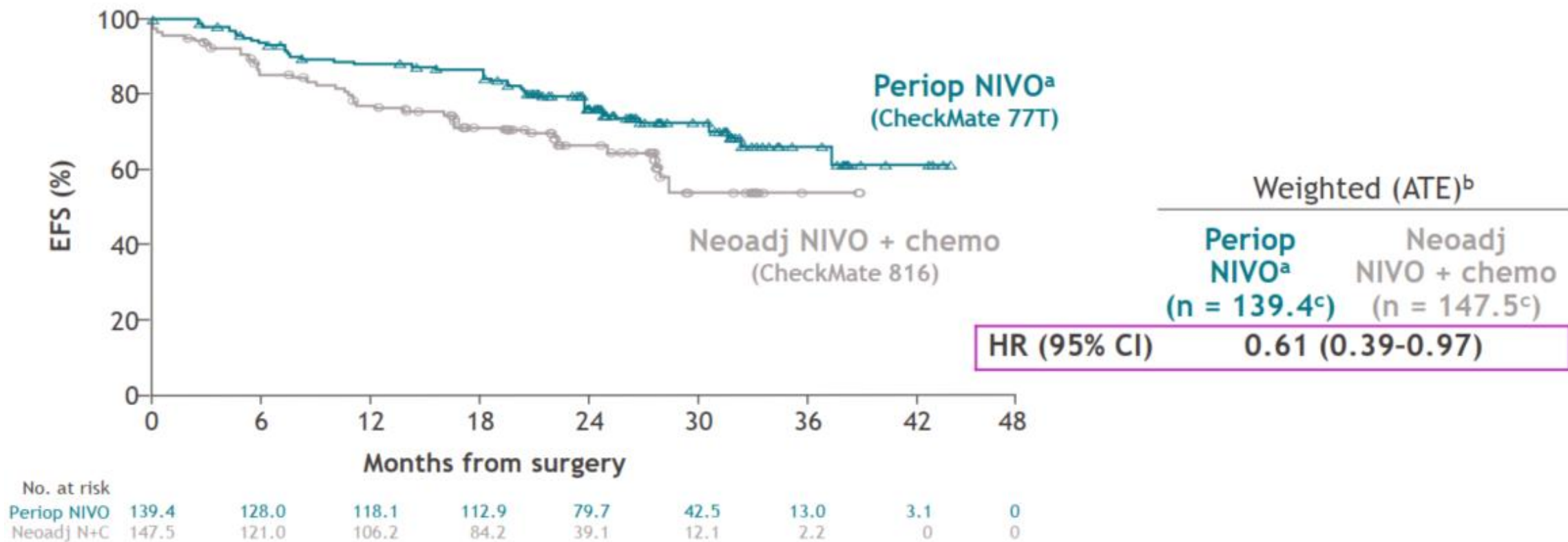
[Patrick M. Forde](#),¹ Solange Peters,² Jessica Donington,³ Stephanie Meadows-Shropshire,⁴ Phuong Tran,⁴ Stefano Lucherini,⁵ Cinthya Coronado Erdmann,⁶ Hong Sun,⁶ Tina Cascone⁷

¹The Bloomberg-Kimmel Institute for Cancer Immunotherapy, The Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins Medicine, Baltimore, MD, USA; ²Lausanne University Hospital, Lausanne, Switzerland; ³The University of Chicago, Chicago, IL, USA; ⁴Bristol Myers Squibb, Princeton, NJ, USA; ⁵Bristol Myers Squibb, Uxbridge, UK; ⁶Bristol Myers Squibb, Boudry, Switzerland; ⁷The University of Texas MD Anderson Cancer Center, Houston, TX, USA

Perioperative NIVO vs neoadjuvant NIVO +chemo

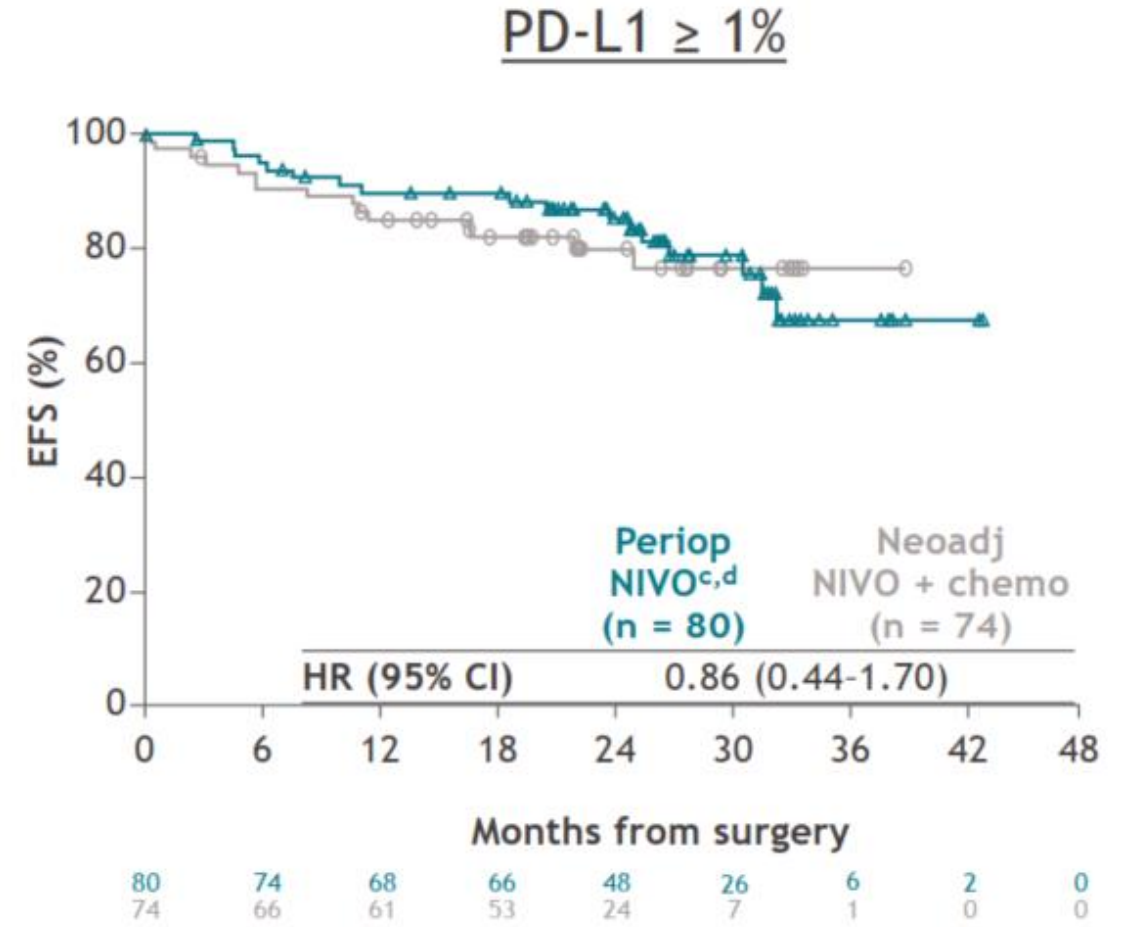
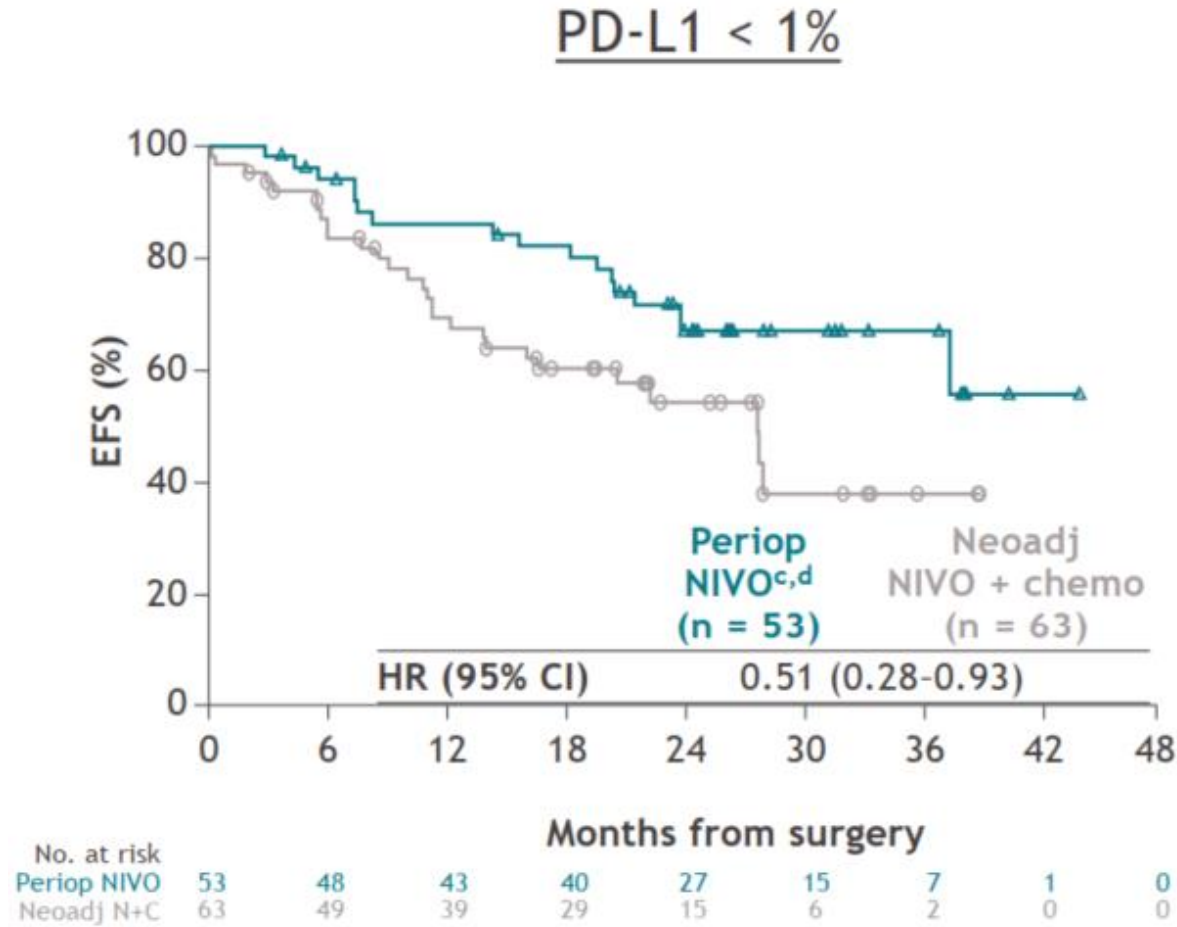


EFS



- HR (95% CI): ATT^d weighted analysis, 0.56 (0.35-0.90); unweighted analysis, 0.59 (0.38-0.92)

EFS by PD-L1 expression



Safety

Patients, n (%)	Perioperative NIVO (n = 139)		Neoadjuvant NIVO + chemo (n = 147)	
	Any grade ^b	Grade 3-4 ^b	Any grade ^c	Grade 3-4 ^c
All AEs	137 (99)	64 (46)	138 (94)	63 (43)
TRAEs	130 (94)	38 (27)	125 (85)	52 (35)
All AEs leading to discontinuation	29 (21)	10 (7)	16 (11)	8 (5)
TRAEs leading to discontinuation	22 (16)	9 (6)	16 (11)	8 (5)
All SAEs	57 (41)	37 (27)	23 (16)	16 (11)
Treatment-related SAEs	23 (16)	14 (10)	17 (12)	13 (9)
Surgery-related AEs ^d	53 (38)	15 (11)	61 (42)	17 (12)
Treatment-related deaths ^e	0		0	

Summary

- In the absence of a randomized-controlled trial, this analysis represents the only comparison of perioperative vs neoadjuvant-only immunotherapy treatments for patients with resectable NSCLC, using individual patient-level data from 2 randomized phase 3 trials
- Approximately 40% reduction in risk of disease recurrence or death after surgery was observed in patients who received ≥ 1 dose of adjuvant NIVO following neoadjuvant NIVO + chemo
- These results further support perioperative NIVO as a treatment option for eligible patients with resectable NSCLC

NCCN guideline update

Neoadjuvant

-**Nivolumab** 360 mg and platinum-based doublet chemotherapy every 3 weeks for 3 cycles

Perioperative

-**Pembrolizumab** 200 mg and cisplatin-based doublet chemotherapy every 3 weeks for 4 cycles and then continued as single-agent pembrolizumab as adjuvant treatment after surgery (category 1)

-**Durvalumab** 1500 mg and platinum-based doublet chemotherapy every 3 weeks for 4 cycles and then continued as single-agent durvalumab as adjuvant treatment after surgery (category 1)

Trial	Stage	Treatment	Control	Primary Endpoint	Primary Outcome
Neoadjuvant CheckMate 816	IB-III A	Nivolumab + chemotherapy x 3 cycles	Chemotherapy	EFS	EFS: 31.6 vs. 20.8 months
Adjuvant IMpower010	IB[>4cm]- IIIA	Chemotherapy -> Atezolizumab 16 cycles	Chemotherapy -> Observation	DFS	DFS: HR=0.81 (0.67-0.99)
Keynote091	IB[>4cm]- IIIA	Chemotherapy (optional)-> Pembrolizumab 18 cycles	Chemotherapy (optional)-> Placebo	DFS	mDFS: 53.6 vs. 42 months (HR =0.76 [95% CI 0.63-0.91])
BR.31	IB[>4cm]- IIIA	Chemotherapy(optional)-> Durvalumab 12 months	Chemotherapy (optional) -> Placebo	DFS	N/A
ANVIL	IB[>4cm]- IIIA	Chemotherapy(optional)-> Nivolumab 16 cycles	Chemotherapy (optional)-> Observation	DFS, OS	N/A
MERMAID 1	II-III	Durvalumab + SoC chemotherapy	Placebo + SoC chemotherapy	DFS	N/A
MERMAID 2	II-III	Durvalumab 1 year	Placebo	DFS	N/A
ALCHEMIST	IB[>4cm]- IIIA	Chemotherapy-> Pembrolizumab 16 cycles; Or chemotherapy+ pembrolizumab 4 cycles-> pembrolizumab 12 cycles	Chemotherapy -> Observation	DFS, OS	N/A
Perioperative Keynote 671	II-III B	Neoadjuvant Pembrolizumab + chemotherapy 4 cycles; Adjuvant Pembrolizumab	Neoadjuvant chemotherapy; Adjuvant Placebo	EFS, OS	EFS at 24 months: 62.4% vs. 40.6% (HR=0.58, [95% CI 0.46-0.72]) OS at 24 months: 80.9% vs. 77.6% (P=0.02)
CheckMate 771	II-III B	Neoadjuvant Nivolumab + chemotherapy 4 cycles; Adjuvant Nivolumab	Neoadjuvant chemotherapy; Adjuvant Placebo	EFS	EFS at 18 months: 70.2% vs. 50.0% (HR=0.58, [97.36% CI 0.42-0.91])
IMpower 030	II-III B	Neoadjuvant Atezolizumab + chemotherapy 4 cycles; Adjuvant Atezolizumab 16 cycles	Neoadjuvant chemotherapy; Adjuvant monitoring	EFS	N/A
AEGEAN	IIA-III B	Neoadjuvant Durvalumab+ chemotherapy 4 cycles; Adjuvant Durvalumab 12 cycles	Neoadjuvant chemotherapy; Adjuvant Placebo	EFS, PCR	EFS at 12 months: 73.4% vs. 64.5% (HR=0.68, [95% CI 0.53-0.88]) PCR: 17.2% vs. 4.3% [95% CI, 8.7 to 17.6]
RATIONALE 315	II-III A	Neoadjuvant Tislelizumab + chemotherapy 3-4 cycles; Adjuvant Tislelizumab up to 8 cycles	Neoadjuvant chemotherapy; Adjuvant Placebo	EFS	Median EFS was not reached at 22 months for either arm; however, a statistically significant difference in EFS (HR [95% CI], 0.56 [0.40-0.79]);
JS001-029	III A	Neoadjuvant Toripalimab + chemotherapy 4 cycles; Adjuvant Toripalimab 13 cycles	Neoadjuvant chemotherapy; Adjuvant Placebo	MPR, EFS	N/A
NCT05157776	III A	Neoadjuvant Sintilimab + chemo 4 cycles;	Neoadjuvant Sintilimab + chemotherapy 2 cycles; Adjuvant: optional Sintilimab + chemotherapy 2 cycles	PCR	N/A

Overview

SCLC

ADRIATIC (Durvalumab)

NSCLC

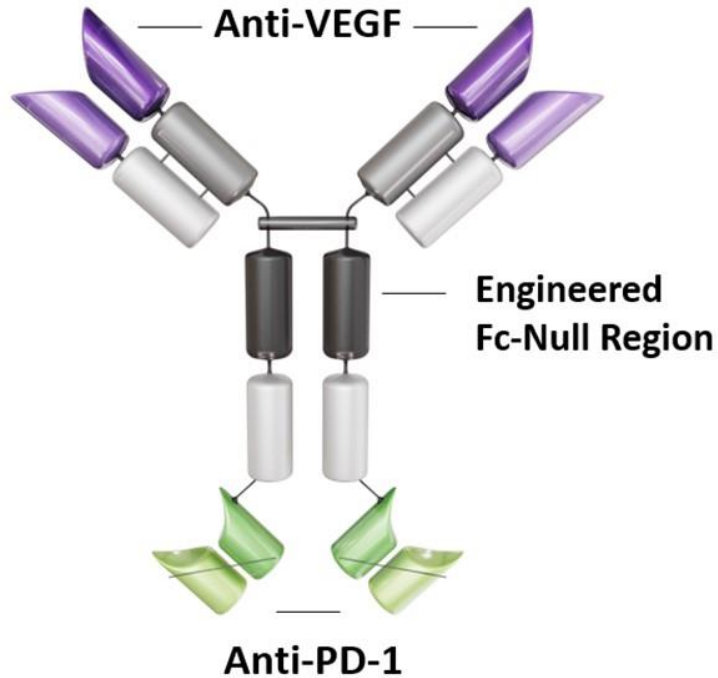
Early Stage: CheckMate 77T (Nivolumab)

Advanced: HARMONi-A and HARMONi-2 (Ivonescimab)

Ivonescimab combined with chemotherapy in patients with EGFR-mutant non-squamous non-small cell lung cancer who progressed on EGFR-TKIs treatment: a randomized, double-blind, multi-center, phase 3 trial (HARMONi-A study)

Li Zhang¹, Wenfeng Fang¹, Yuanyuan Zhao¹, Yongzhong Luo², Runxiang Yang³, Yan Huang¹, Zhiyong He⁴, Hui Zhao⁵, Mingjun Li⁶, Kai Li⁷, Qibing Song⁸, Xiaobo Du⁹, Yulan Sun¹⁰, Wei Li¹¹, Fei Xu¹², Zhiyu Wang¹³, Kunning Yang¹⁴, Yun Fan¹⁵, Wenting Li¹⁶, Michelle Xia¹⁶

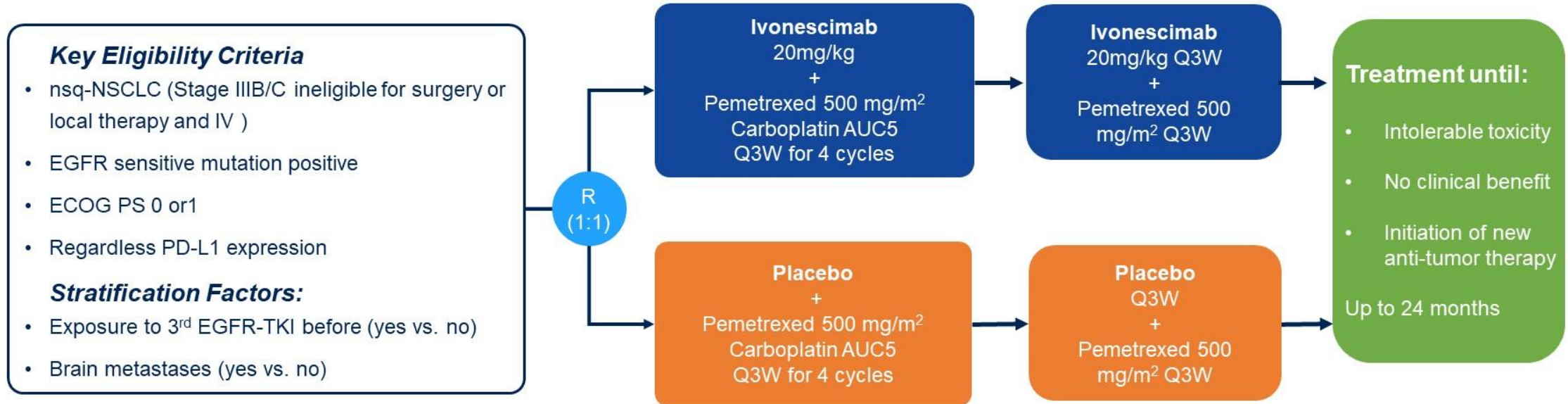
Background



- For patients with EGFR-mutant NSCLC, upfront treatment with tyrosine kinase inhibitors is standard. However, drug resistance remains a challenge, and an effective therapy after progression is needed.
- Iponescimab (AK112/SMT112) is an anti-PD-1/VEGF bispecific antibody displaying cooperative binding characteristics.
- Phase II clinical studies have shown potential efficacy of Iponescimab plus chemotherapy in NSCLC patients with EGFR mutations who progressed on prior EGFR-TKIs therapies¹⁻².
- This phase 3 study aimed to evaluate and confirm the efficacy and safety of Iponescimab combined with chemotherapy compared to chemotherapy alone in this population (NCT05184712).

1. L Zhang et al: ASCO 2023; 2. YY Zhao et al: eClinicalMedicine 2023;62: 102106.

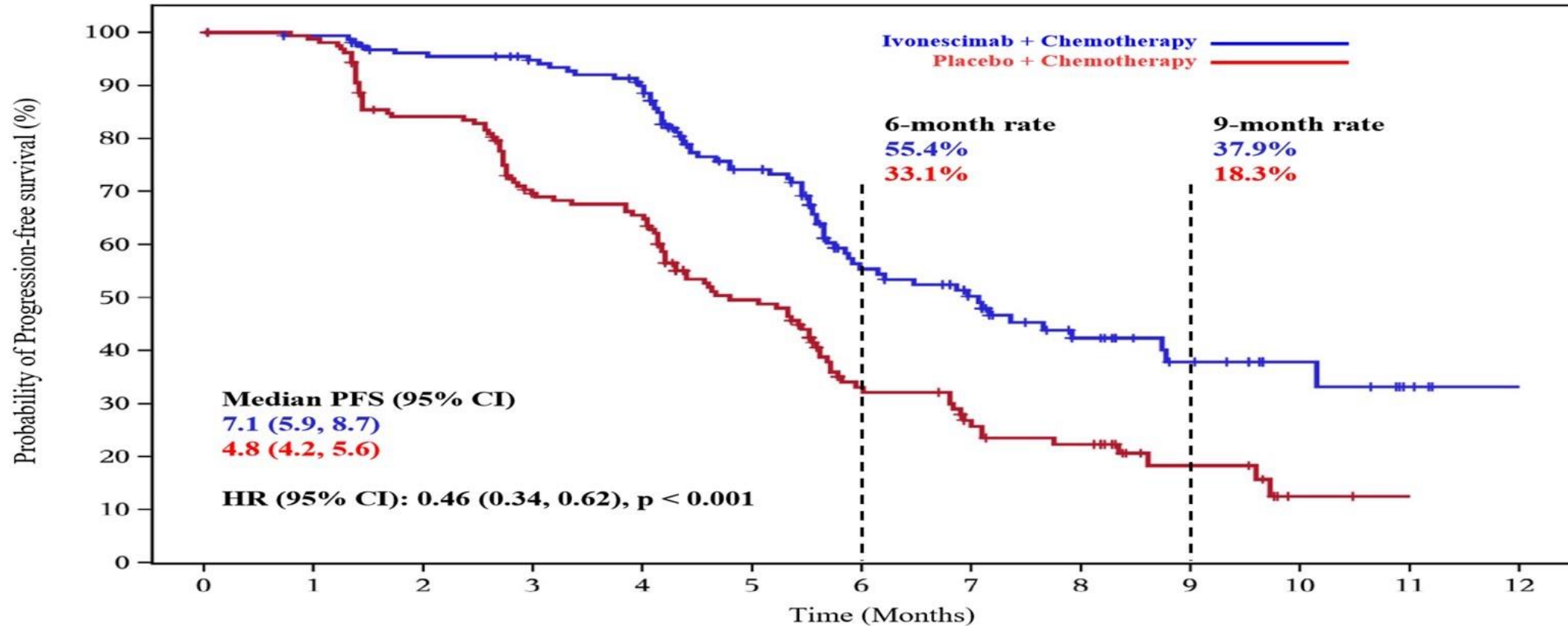
HARMONi-A Study Design



Endpoints

- Primary: Progression-free survival by independent radiologic review committee (IRRC)
- Secondary: Overall survival, Response rate, Duration of response, Time to response and Safety

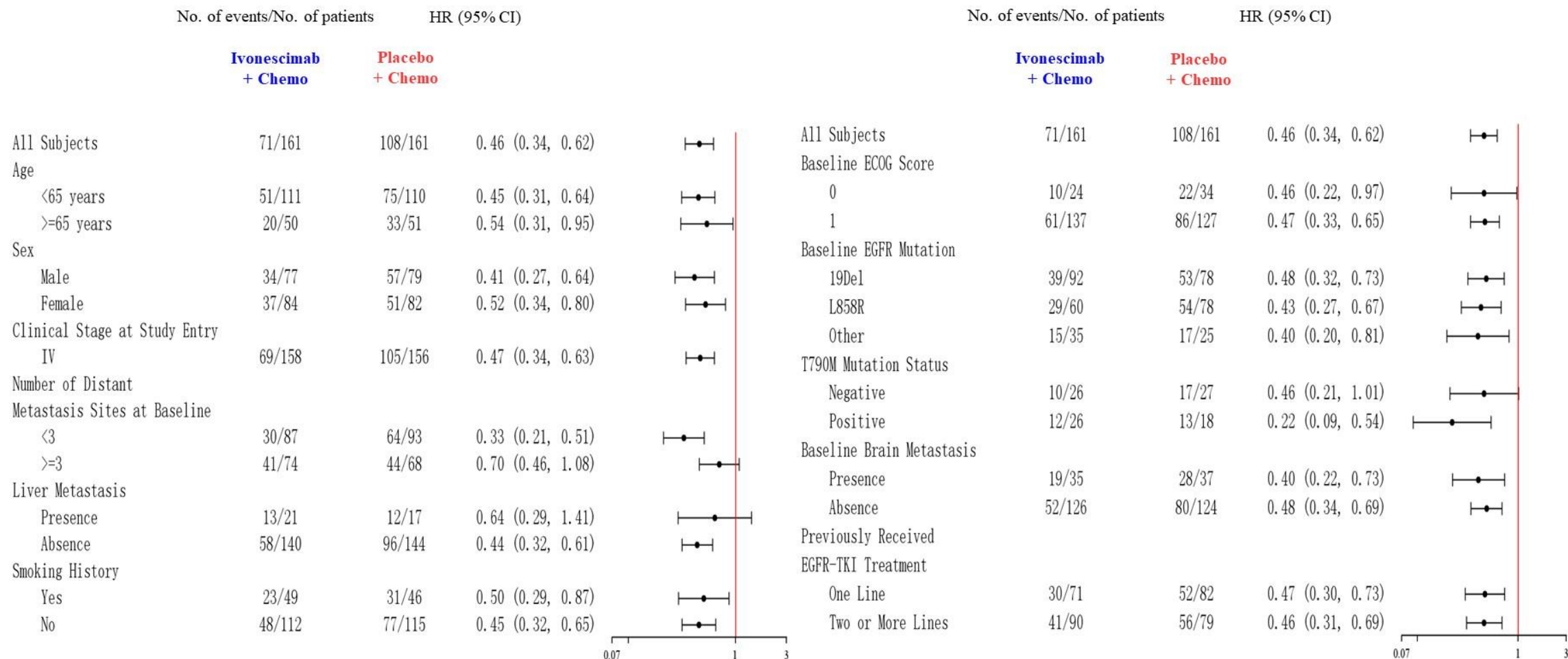
Study Met Primary Endpoint of PFS per IRRC



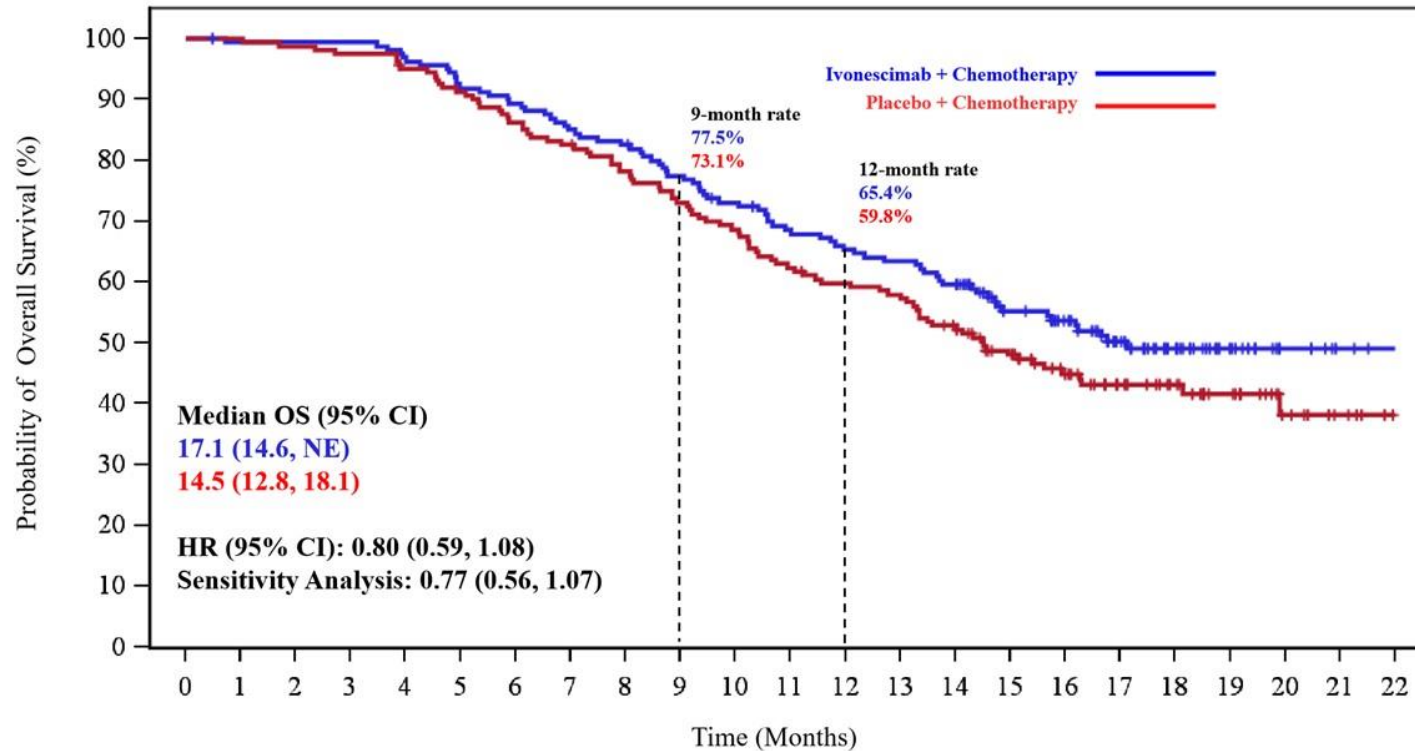
At risk (events)

Time (Months)	0	1	2	3	4	5	6	7	8	9	10	11	12
Ivonescimab + Chemo	161 (0)	155 (1)	144 (6)	138 (8)	129 (15)	92 (36)	56 (57)	44 (62)	27 (68)	16 (70)	8 (70)	3 (71)	0 (71)
Placebo + Chemo	161 (0)	157 (2)	130 (25)	102 (47)	96 (53)	63 (75)	33 (94)	23 (101)	19 (104)	8 (106)	1 (108)	0 (108)	

Subgroup Analysis of PFS per IRRC



Overall Survival (at 52% of Data Maturity)



HR: 0.80 (0.59, 1.08)
 after 52% of data
 maturity

OS is consistent for both
 analysis

Data cutoff date: December 2023
 (median follow-up of 17.6 months)

HR, hazard ratio; CI, confidence interval.

At risk (events)

Iponescimab + Chemo	161(0)	159(1)	159(1)	159(1)	155(5)	147(13)	143(17)	136(24)	132(28)	123(36)	115(43)	107(50)	102(55)	99(58)	93(64)	73(70)	64(72)	48(76)	33(77)	17(77)	7(77)	2(77)	0(77)
Placebo + Chemo	161(0)	161(0)	159(2)	157(4)	152(8)	146(14)	138(22)	132(28)	124(35)	116(43)	109(50)	99(60)	94(64)	91(67)	81(75)	67(82)	54(86)	40(88)	32(88)	22(89)	10(90)	5(90)	0(90)

Safety Summary

TRAE, n(%)	Ivonescimab + Chemotherapy (N=161)	Placebo + Chemotherapy (N=161)
Any grade	158 (98.1)	153 (95.0)
Grade≥3	87 (54.0)	69 (42.9)
Serious*	46 (28.6)	26 (16.1)
Led to discontinuation of ivonescimab/placebo	9 (5.6)	4 (2.5)
Led to death	0 (0.0)	0 (0.0)
Grade≥3 immune-related	10 (6.2)	4 (2.5)
Grade≥3 VEGF-related	5 (3.1)	4 (2.5)

* For any PT (excluding PD) in SAE, the PT with more than 2 cases in the experimental group compared to the control group were platelet count decreased (7.5% vs. 4.3%) and hepatic function abnormal (2.5% vs. 0%).

TRAE, treatment-related adverse event (related to any drug); PT, preferred term; PD, disease progression; SAE, serious adverse event.

Conclusions

- Ivonescimab plus chemotherapy significantly improved PFS in patients who progressed on prior EGFR-TKIs treatments: **PFS HR 0.46 (95% CI: 0.34, 0.62), P<0.001**
- The prespecified subgroup analysis showed PFS benefit favoring patients receiving ivonescimab over those receiving the placebo across all subgroups.
- OS analyses show a favorable trend for prolonged OS for ivonescimab-chemotherapy
- The safety profile was generally manageable, without any unexpected adverse events and a low rate of treatment discontinuation.
- This study is being expanded globally, HARMONi (NCT06396065), to include patients from North America and Europe.

With the recent approval in China, ivonescimab plus chemotherapy is a new standard treatment option for NSCLC patients who progress after EGFR-TKI treatment

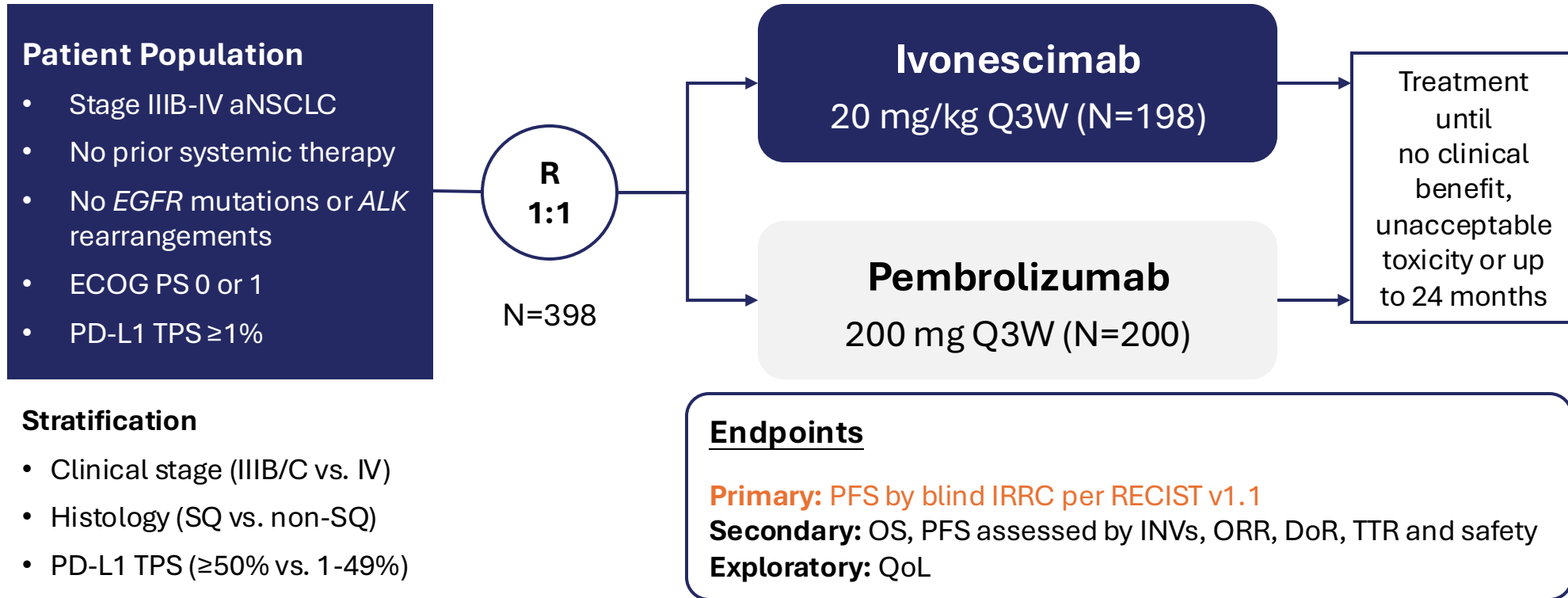


Phase 3 Study of Ivonescimab (AK112) vs. Pembrolizumab as First-line Treatment for PD-L1-positive Advanced NSCLC: Analysis of HARMONi-2

C. Zhou^{1,2}, J. Chen³, L. Wu³, L. Wang¹, A. Xiong¹, B. Liu⁴, J. Yao⁵, H. Zhong⁶, J. Li⁷, Y. Cheng⁸, Y. Sun⁹, H. Ge¹⁰, Q. Shi¹¹, M. Zhou¹², Z. Han¹³, J. Wang¹⁴, Q. Bu¹⁵, Y. Zhao¹⁶, J. Chen¹⁷, J. Yang¹⁸, M. Xia¹⁸

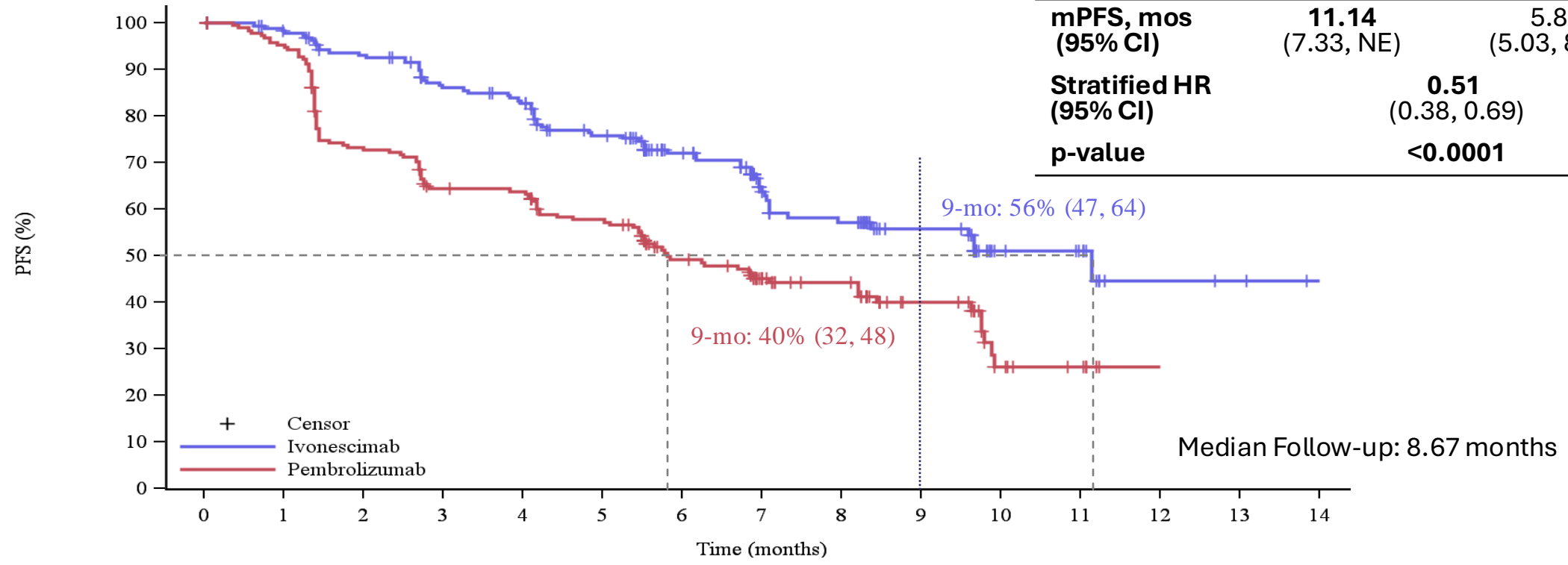
HARMONi-2 Study Design

A randomized, double-blind, phase 3 study



PFS

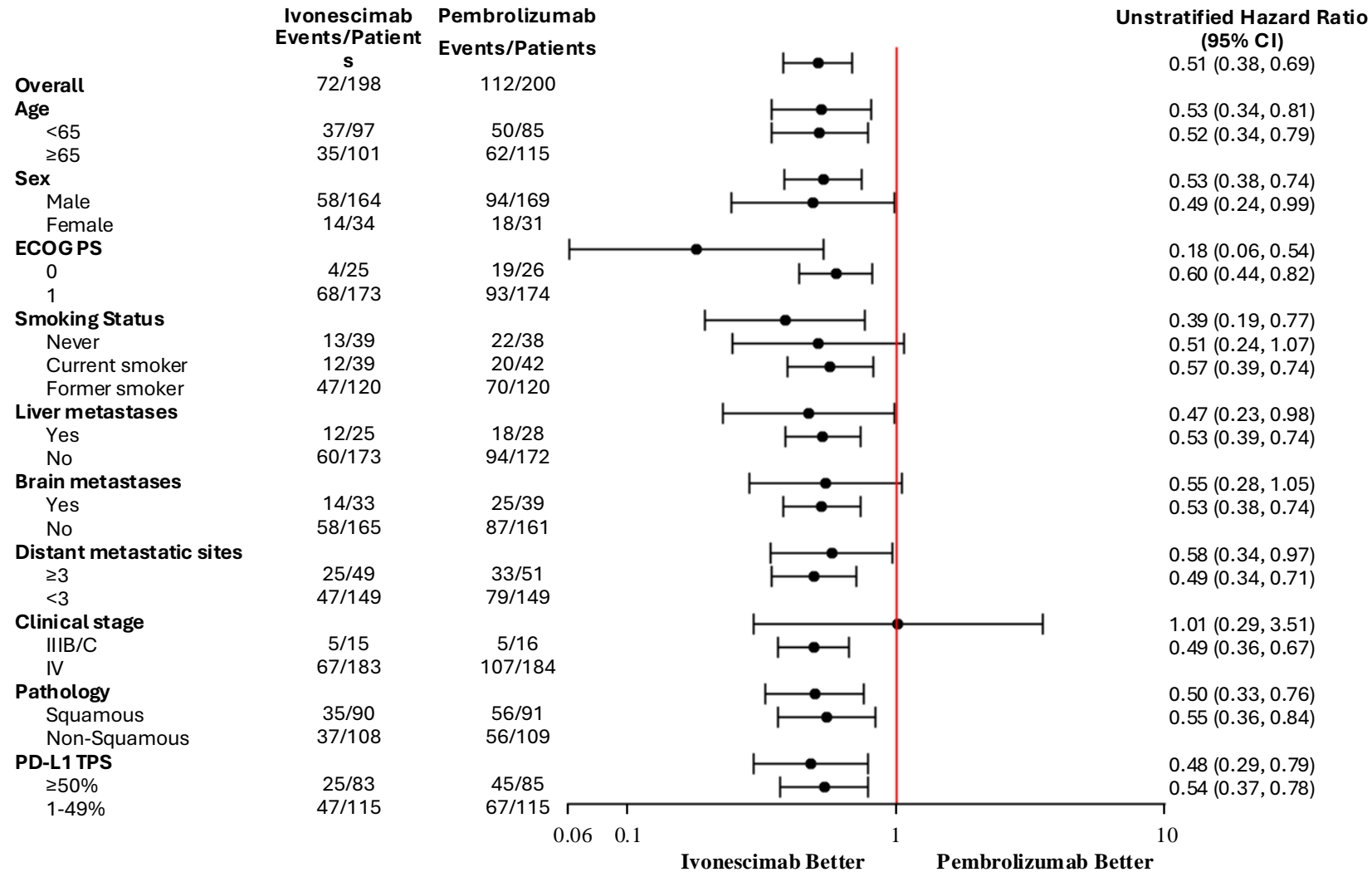
	Ivonescimab (n = 198)	Pembrolizumab (n = 200)
mPFS, mos (95% CI)	11.14 (7.33, NE)	5.82 (5.03, 8.21)
Stratified HR (95% CI)		0.51 (0.38, 0.69)
p-value		<0.0001



Number at risk (Events)

Ivonescimab	198(0)	189(3)	175(13)	156(26)	148(32)	128(44)	99(50)	68(60)	59(67)	38(68)	14(71)	11(71)	3(72)	2(72)	0(72)
Pembrolizumab	200(0)	187(9)	141(52)	121(69)	119(70)	103(81)	74(95)	53(101)	45(102)	25(106)	9(112)	5(112)	0(112)		

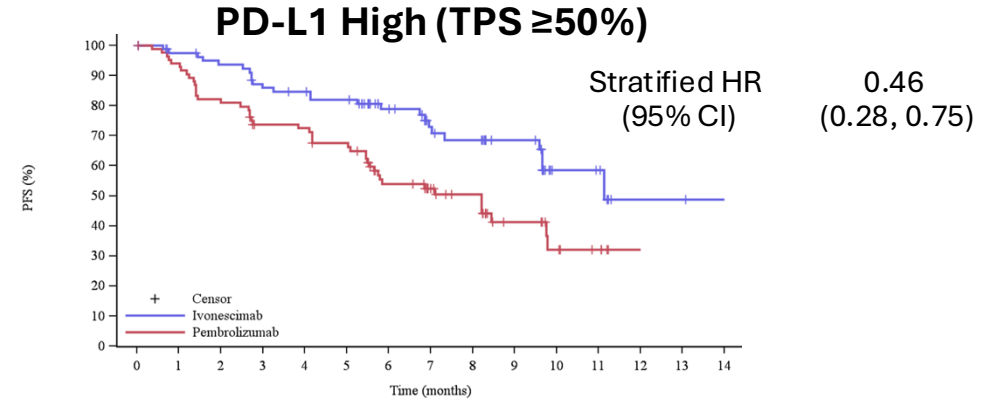
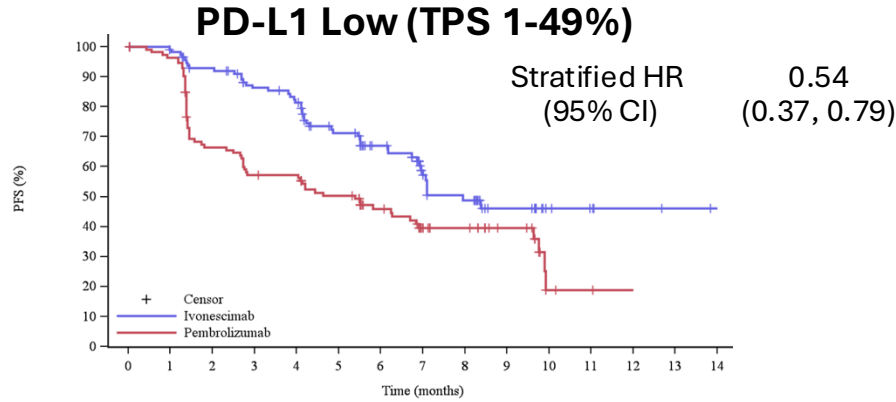
PFS Subgroup



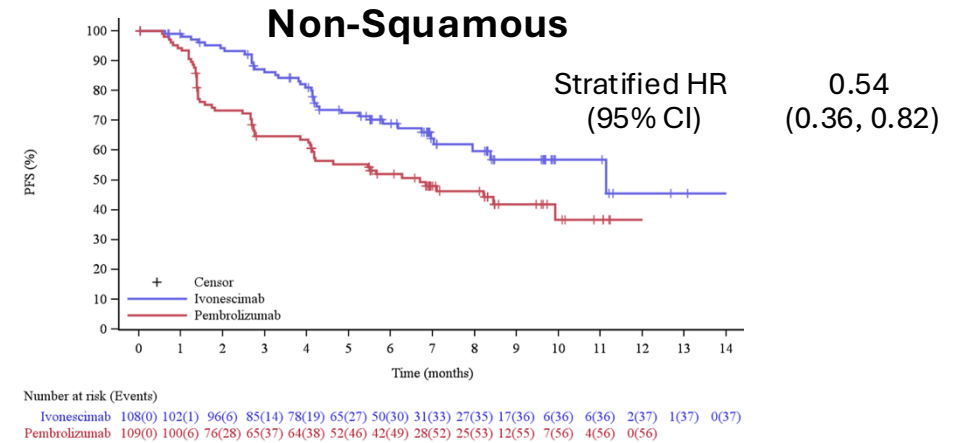
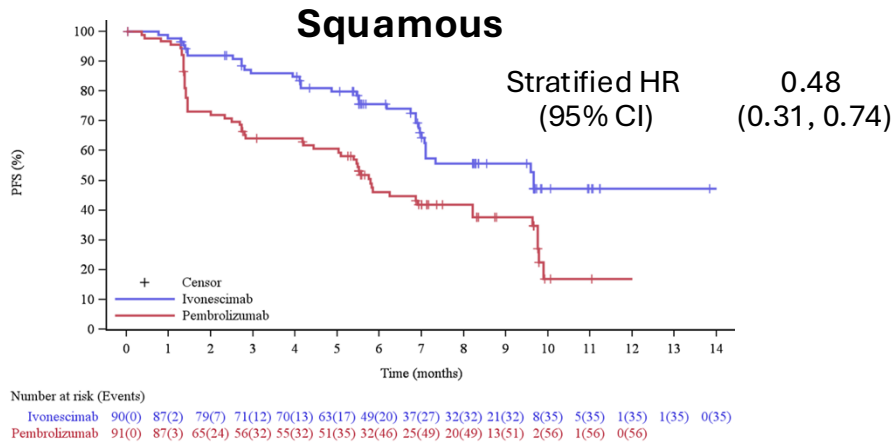
SQ, squamous cell carcinoma;

Key PFS Subgroup

PD-L1 expression



NSCLC Histology



Safety Summary

Safety Summary, n (%)	Ivonescimab (n = 197 ^a)	Pembrolizumab (n = 199 ^a)
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)

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

^a Patients who received ≥1 dose of study treatment.

Conclusions

- First-line ivonescimab significantly improve IRRC-assessed PFS in aNSCLC patients with PD-L1 TPS $\geq 1\%$, compared with pembrolizumab
- PFS benefit with ivonescimab were consistent across major clinical subgroups:
- OS was not matured at this time; the OS analysis is event-driven and will be reported in the future.
- The safety profile of ivonescimab was consistent with prior studies and well tolerated in patients with squamous cell carcinoma.

This was the first randomized phase 3 study to demonstrate a clinically significant improvement in efficacy with a novel drug compared to pembrolizumab in aNSCLC.

Ivonescimab is a novel 1st line treatment for aNSCLC patients with positive PD-L1(TPS $\geq 1\%$).

Take home points

SCLC

-Durvalumab has emerged as the new standard consolidation therapy following cCRT in patients with LS-SCLC base on ADRIATIC.

NSCLC

Early Stage:

- Perioperative IO (nivo) demonstrates superior outcomes compared to neoadjuvant nivo alone.
- Current perioperative therapeutic options include nivo, pembro, and durva, with additional data anticipated.

Advanced:

-Awaiting additional U.S. data, but ivonescimab is anticipated to potentially replace traditional IO and become the new standard of care for first-line advanced NSCLC treatment in patients with positive PD-L1 (TPS \geq 1%).

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