



Neoadjuvant and Adjuvant Immunotherapy

Luis E. Raez MD FACP FCCP

Chief Scientific Officer & Medical Director

Memorial Cancer Institute/Memorial Health Care System

Research Professor at the I-Health Institute

Florida Atlantic University (FAU)

Past-President Florida Society of Clinical Oncology (FLASCO)



@LuisRaezMD





Neoadjuvant Immunotherapy in NSCLC

- Checkmate 816
- NADIM II

CheckMate 816 study design^a

Key Eligibility Criteria

- Newly diagnosed, resectable, stage IB (≥ 4 cm)-IIIA NSCLC (per TNM 7th edition)
- ECOG performance status 0-1
- No known sensitizing *EGFR* mutations or *ALK* alterations

Stratified by
Stage (IB-II vs IIIA),
PD-L1^b ($\geq 1\%$ vs $< 1\%$ ^c), and sex

N = 358

R
1:1

Primary analysis population

NIVO 360 mg Q3W
+
chemo^d Q3W (3 cycles)

Chemo^e Q3W (3 cycles)

NIVO 3 mg/kg Q2W (3 cycles)
+ IPI 1 mg/kg (cycle 1 only)^f

FDA approved 3/2022

Radiologic
restaging

Surgery
(within 6
weeks
post-
treatment)

Optional
adjuvant
chemo \pm RT^g

Follow-up

Primary endpoints

- pCR by BIPR
- EFS by BICR

Secondary endpoints

- MPR by BIPR
- OS
- Time to death or distant metastases

Exploratory endpoints

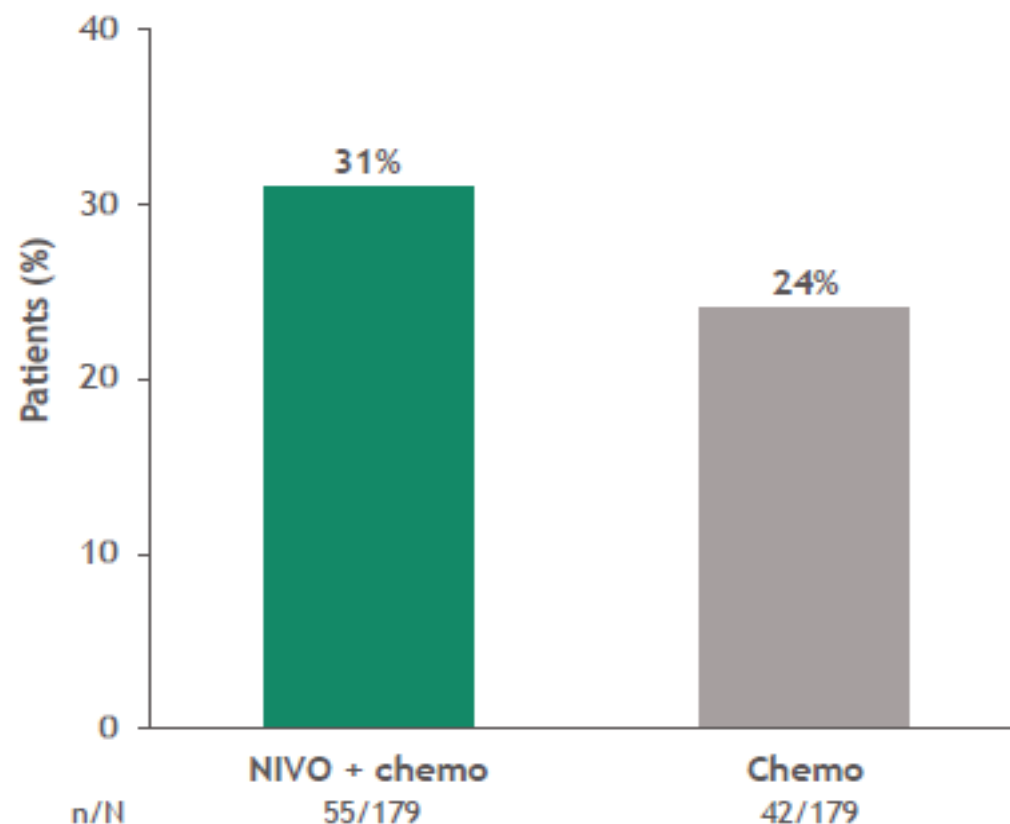
- ORR by BICR
- Predictive biomarkers (PD-L1, TMB, ctDNA^h)

Objective response rate and radiographic down-staging

Objective response rate

Patients, n (%)	NIVO + chemo (n = 179)	Chemo (n = 179)
ORR ^a	96 (54) ^b	67 (37) ^b
Best overall response		
Complete response	1 (1)	3 (2)
Partial response	95 (53)	64 (36)
Stable disease	70 (39)	88 (49)
Progressive disease	8 (4)	11 (6)
Not evaluable	1 (1)	1 (1)
Not reported	4 (2)	12 (7)

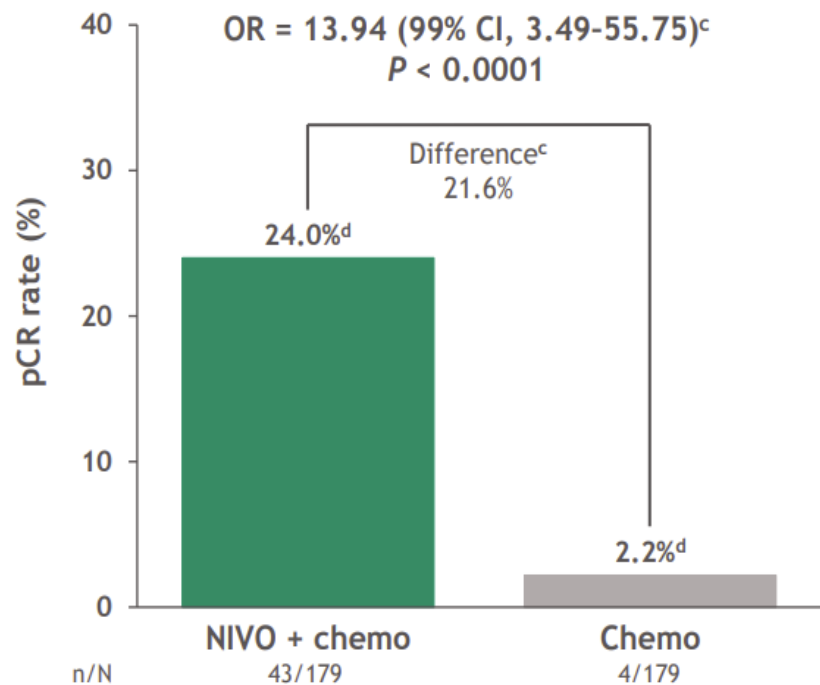
Patients with radiographic down-staging^c



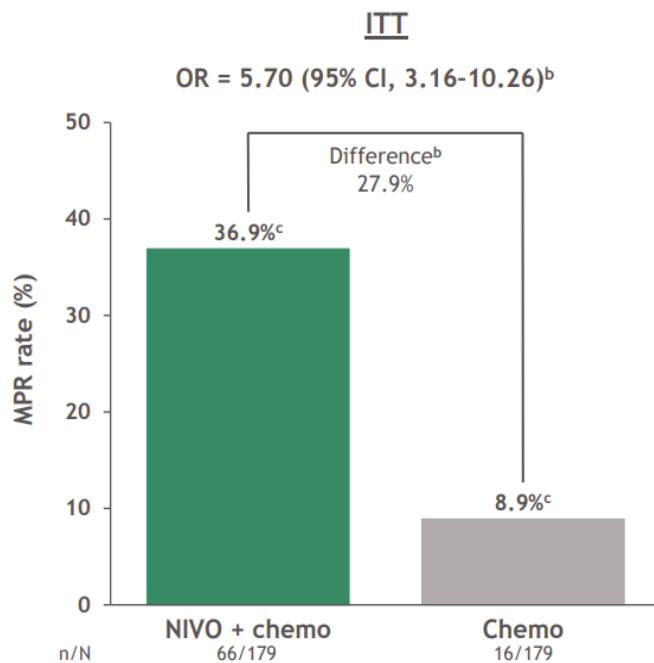
^aObjective response rate was up to the presurgical scan; ^bORR rates 95% CI: NIVO + chemo, 46-61; chemo, 30-45; ^cDecrease in stage from baseline to presurgical scan.

Primary endpoint: pCR^a rate with neoadjuvant NIVO + chemo vs chemo

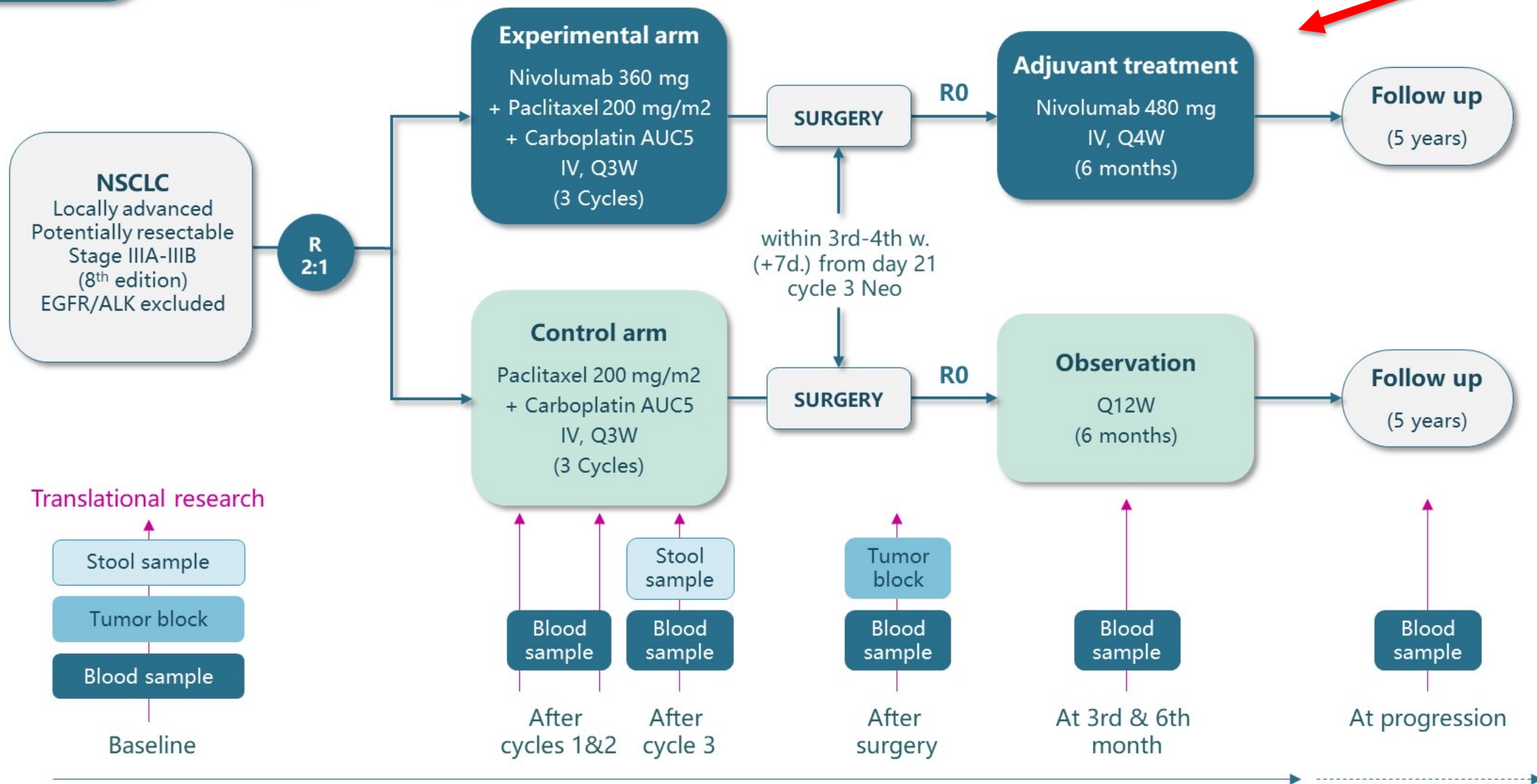
Primary endpoint: ITT (ypTON0)^b



MPR^a rate with neoadjuvant NIVO + chemo vs chemo

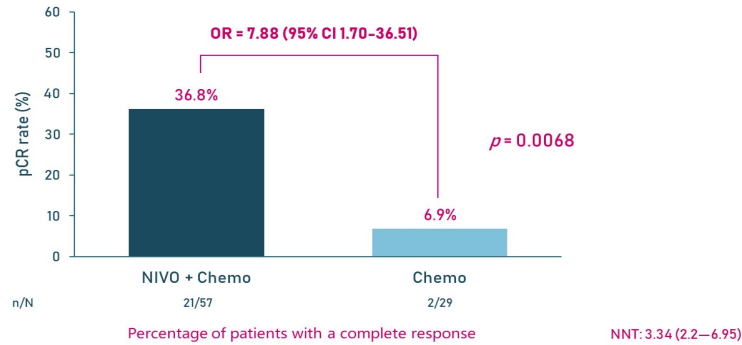


^aPer BIPR; MPR: ≤ 10% residual viable tumor cells in both the primary tumor (lung) and sampled lymph nodes; ^bCalculated by stratified Cochran-Mantel-Haenszel method; ^cMPR rates 95% CI: NIVO + chemo, 29.8-44.4; chemo, 5.2-14.1.



NADIM II (NCT03838159) is a randomized, phase 2, open-label, multicentre study evaluating nivolumab + chemotherapy vs chemotherapy as neoadjuvant treatment for potentially resectable NSCLC

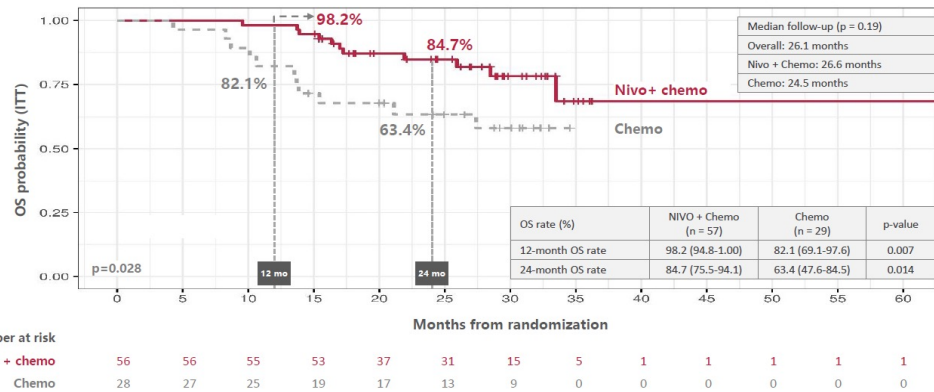
pCR^a rate with neoadjuvant NIVO + CT vs CT in the ITT population^b



^apCR was defined as 0% residual viable tumor cells in both primary tumor (lung) and sampled lymph nodes; ^bPatients who did not undergo surgery were considered as non-responders
Chemo, chemotherapy; ITT, intention-to-treat; Nivo, nivolumab; pCR, pathological complete response; RR, risk ratio

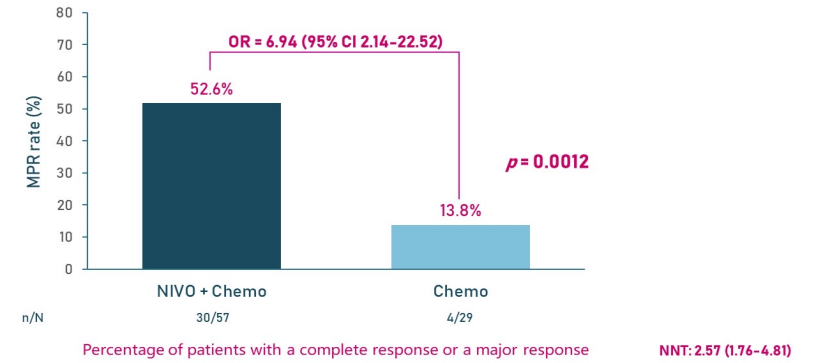


SECONDARY ENDPOINTS – Overall survival



Overall survival was defined as the time from randomization to death. OS was censored on the last date a participant was known to be alive

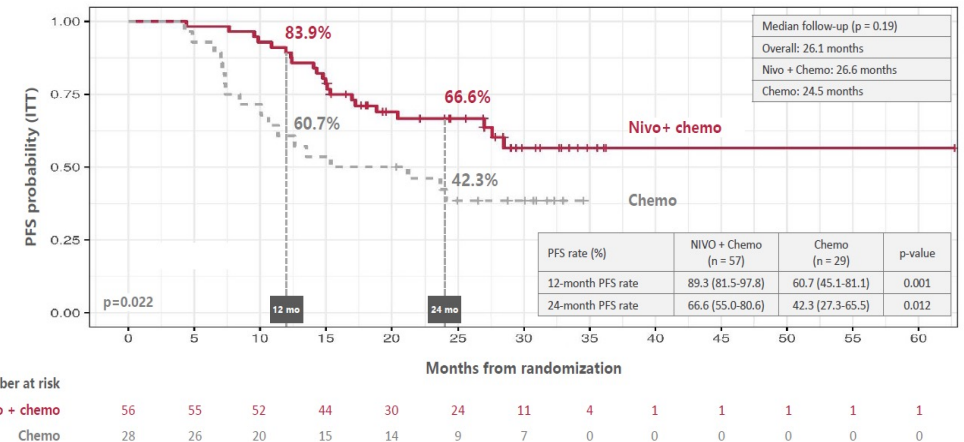
MPR^a rate with neoadjuvant NIVO + CT vs CT in the ITT population^b



^aMPR was defined as ≤10% residual viable tumor cells in both the primary tumor (lung) and sampled lymph nodes; ^bPatients who did not undergo surgery were considered as non-responders
Chemo, chemotherapy; ITT, intention-to-treat; MPR, major pathological response; Nivo, nivolumab; RR, risk ratio



SECONDARY ENDPOINTS – Progression-free survival



Progression-free survival was defined as the time from randomization to any of the following events: progression of disease, recurrence disease, or death due to any cause. Progression/recurrence will have determined by RECIST 1.1

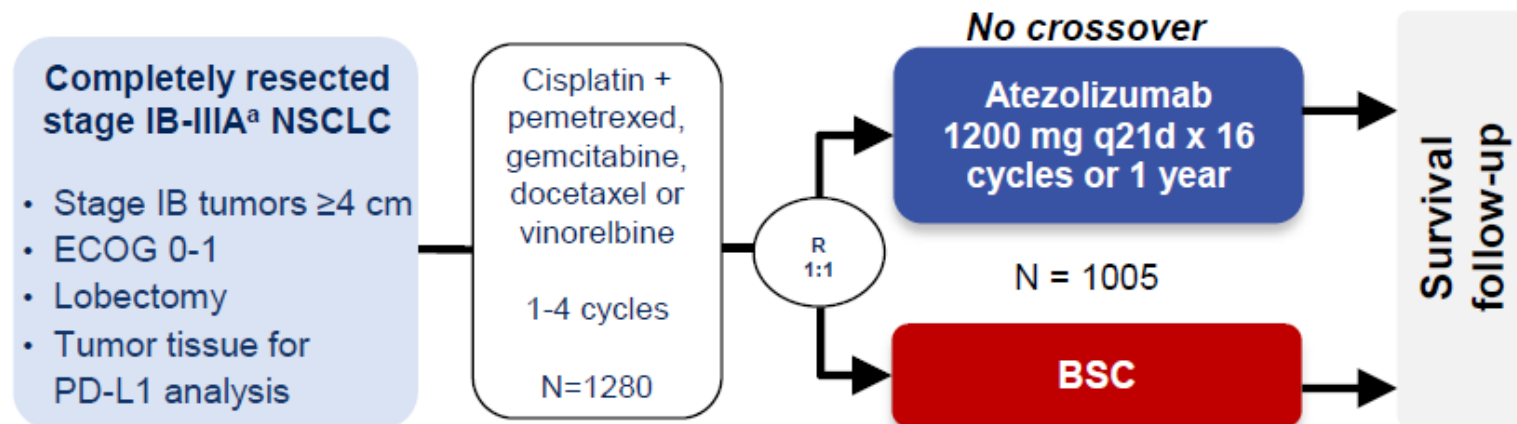


ADJUVANT IMMUNOTHERAPY IN NSCLC

*IMPOWER 010

*Keynote 091

IMpower010: Phase III randomised trial of atezolizumab vs BSC in early-stage NSCLC



Stratification factors

- Sex | Stage | Histology | PD-L1 status

Primary endpoint

- Investigator-assessed DFS tested hierarchically

Key secondary endpoints

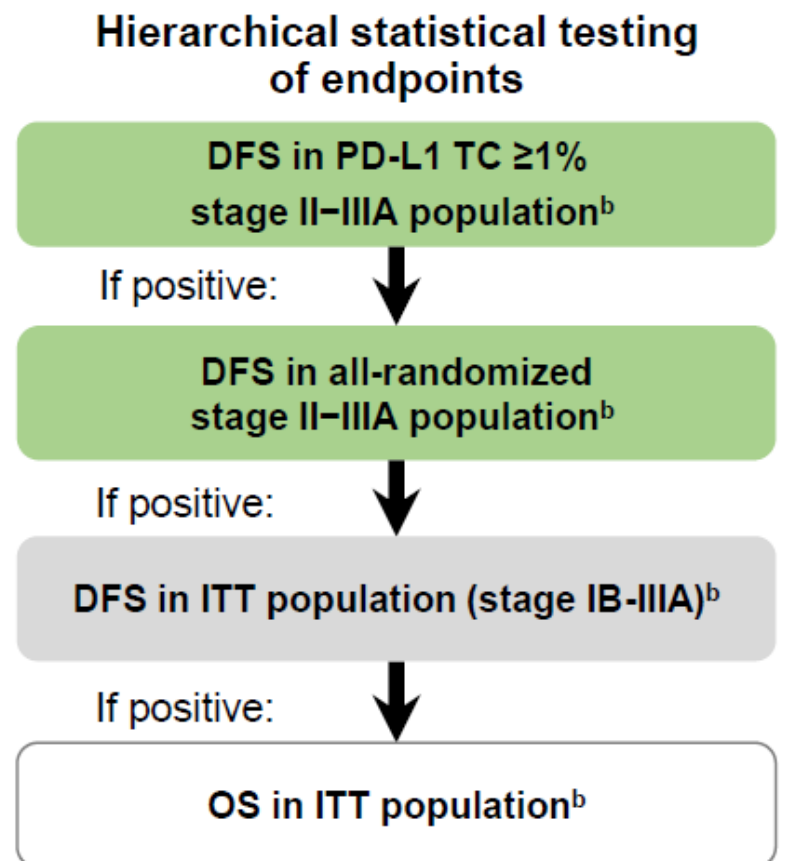
- OS in ITT | DFS in PD-L1 TC $\geq 50\%$ | 3-yr and 5-year DFS

Key exploratory endpoints

- OS biomarker analyses

Clinical cutoff: 18 April 2022. Both arms included observation and regular scans for disease recurrence on the same schedule. ECOG, Eastern Cooperative Oncology Group, q21d, every 21 days.

^a Per UICC/AJCC staging system, 7th edition. ^b Two-sided $\alpha=0.05$.

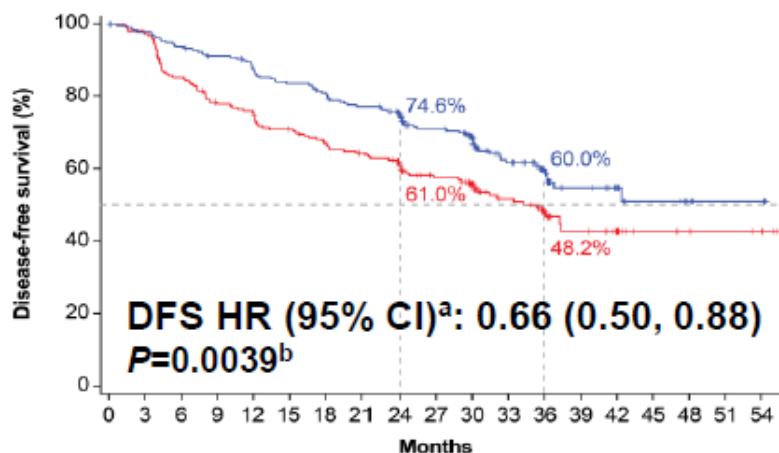


- Endpoint was met at DFS IA
- Endpoint was not met at DFS IA and follow up is ongoing
- Endpoint was not formally tested

Recap of DFS and OS data from the DFS IA^{1,2}

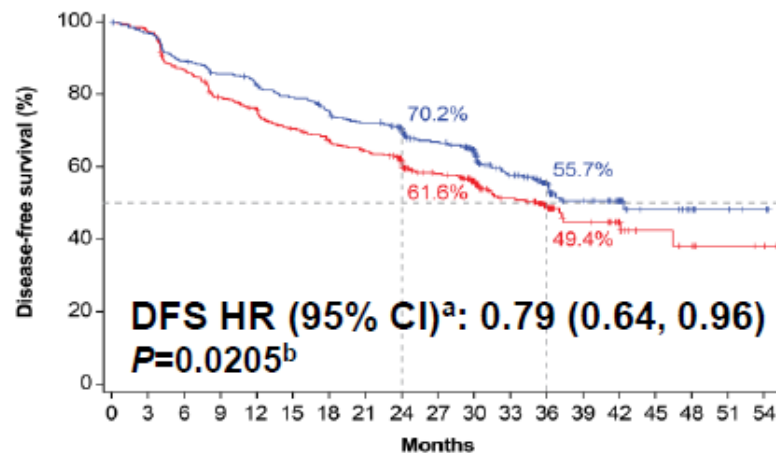
(data cutoff: 21 Jan '21, median follow-up: 32 months)

**DFS: PD-L1 TC $\geq 1\%$
stage II-IIIa population**



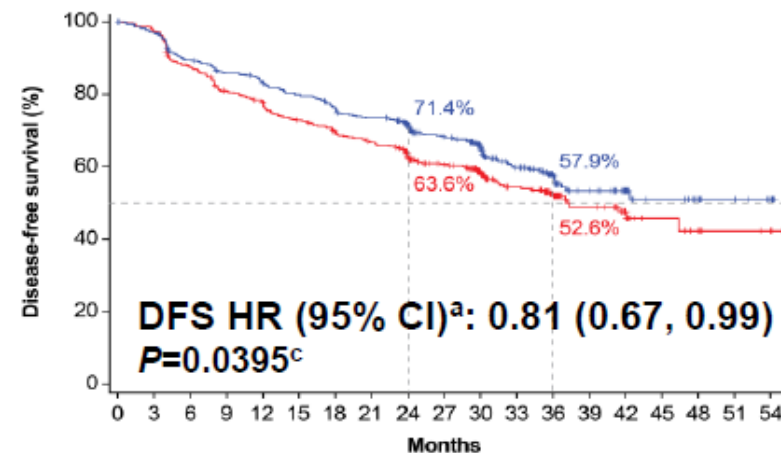
No. at risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54
Atezolizumab	248	235	225	217	206	196	190	181	159	134	111	76	54	31	22	12	8	3	3
BSC	228	212	186	169	160	151	142	135	117	97	80	59	38	21	14	7	6	4	3

**DFS: All-randomised
stage II-IIIa population**



No. at risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54
Atezolizumab	442	418	384	367	352	337	319	305	269	225	185	120	84	48	34	16	11	5	3
BSC	440	412	366	331	314	292	277	263	230	182	148	102	71	35	22	10	8	4	3

**DFS: ITT (randomised
stage IB-IIIa) population**



No. at risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54
Atezolizumab	507	478	437	418	403	387	367	353	306	257	212	139	97	53	38	19	14	8	4
BSC	498	467	418	383	365	342	324	309	269	219	173	122	90	46	30	13	10	5	4

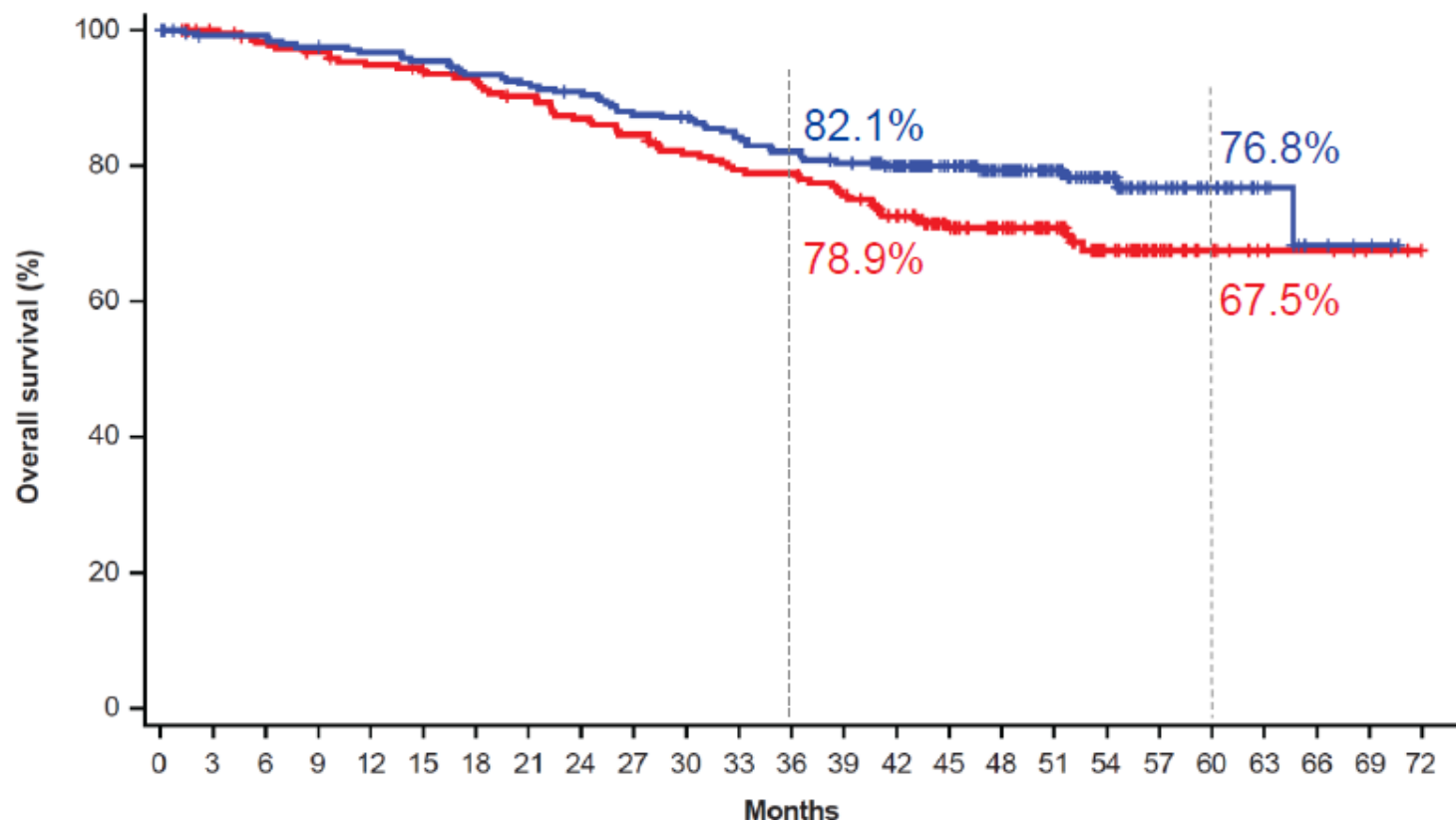
- **OS data** were not mature (event to patient ratio in ITT was 19% in atezolizumab arm, 18% in BSC arm)
 - PD-L1 TC $\geq 1\%$ stage II-IIIa population: OS HR, 0.77 (95% CI: 0.51, 1.17)^a
 - All-randomised stage II-IIIa population: OS HR, 0.99 (95% CI: 0.73, 1.33)^a
 - ITT (randomised stage IB-IIIa) population: OS HR, 1.07 (95% CI: 0.80, 1.42)^a

Clinical cutoff: 21 Jan 2021. ^a Stratified. ^b Statistical significance boundary for DFS crossed. ^c Statistical significance boundary for DFS not crossed.

1. Felip, E et al Lancet 2021; 938; 1344-1357; 2. Wakelee, HA et al ASCO 2021; abs #8500.

Results of OS IA: PD-L1 TC $\geq 1\%$ ^a (stage II-III A)

(data cutoff: 18 Apr '22, median follow-up: 46 months)



No. at risk

Months	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72
Atezolizumab	248	241	241	237	234	231	225	222	218	210	208	200	195	190	172	140	116	83	56	37	23	12	5	3	NE
BSC	228	220	214	210	205	201	198	192	185	180	172	167	166	158	140	110	95	72	49	27	15	8	7	4	NE

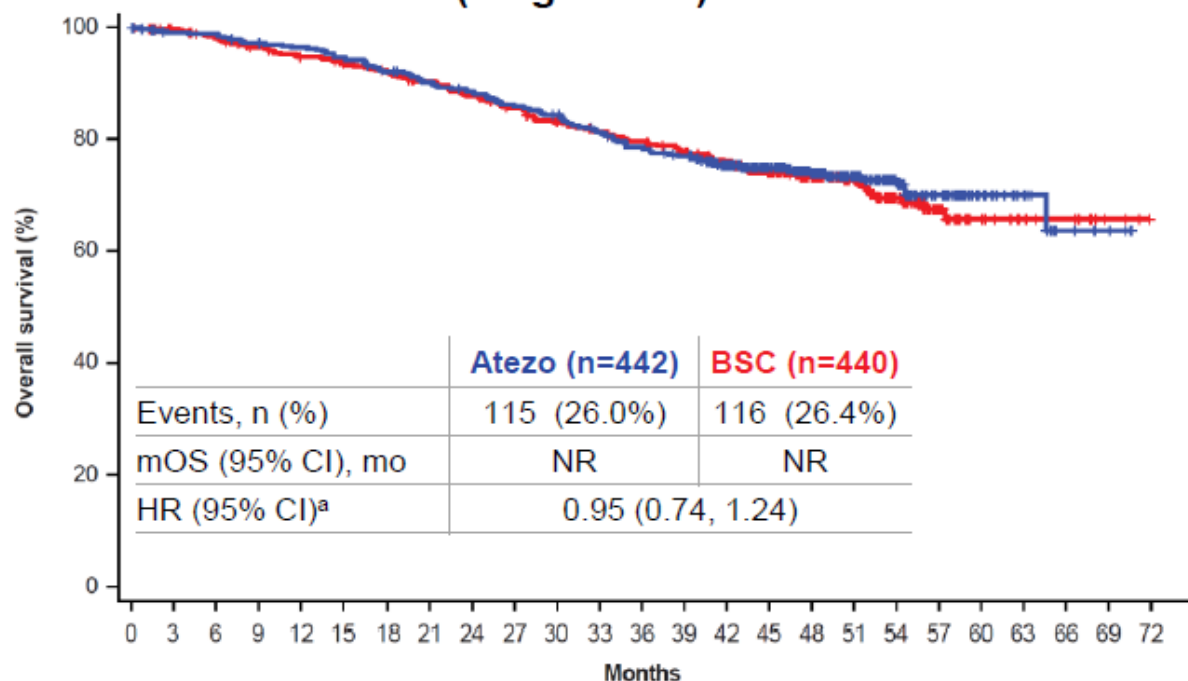
	Atezo (n=248)	BSC (n=228)
Events, n (%)	52 (21.0%)	64 (28.1%)
mOS (95% CI), mo	NR	NR
HR (95% CI) ^b	0.71 (0.49, 1.03)	

mOS, median overall survival; NR, not reached. ^aBy SP263 assay. ^bStratified.

Results of OS IA: other primary populations

(data cutoff: 18 Apr '22, median follow-up: 45 months)

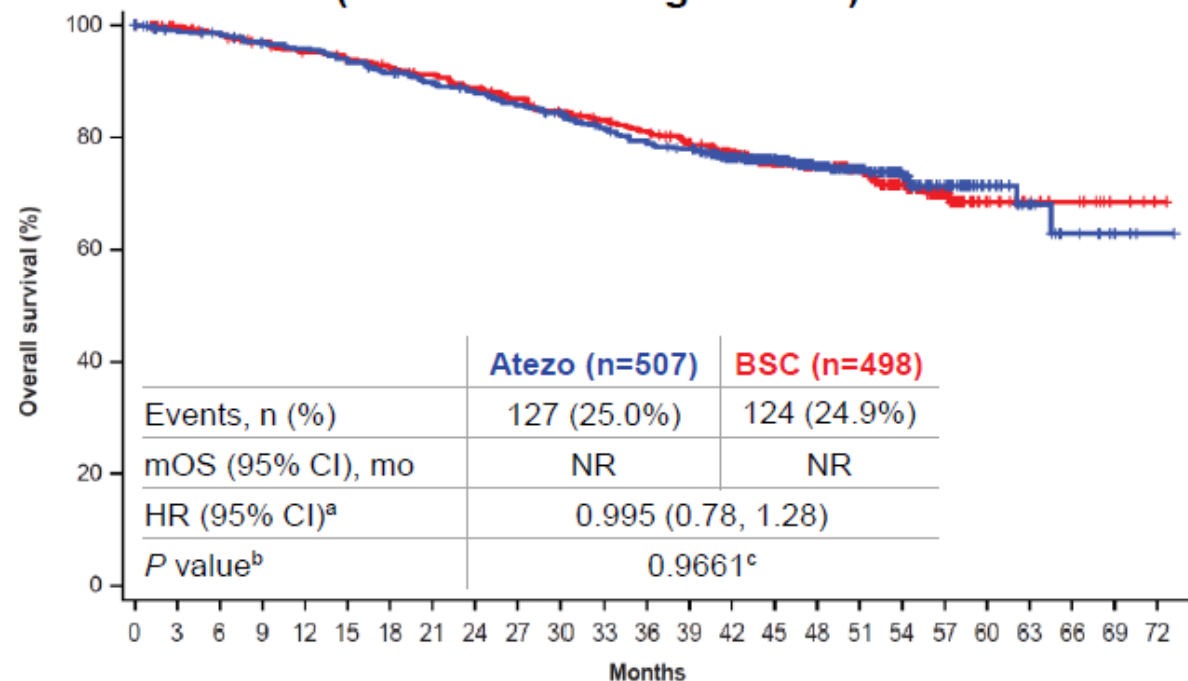
**All randomised
(stage II-III A)**



No. at risk

Months	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72
Atezolizumab	442	429	428	420	416	408	396	386	378	367	359	344	332	323	287	228	179	128	85	56	27	15	6	3	NE
BSC	440	426	416	405	396	389	382	373	362	350	337	328	320	310	279	215	178	125	81	42	20	11	9	4	NE

**ITT
(randomised stage IB-III A)**



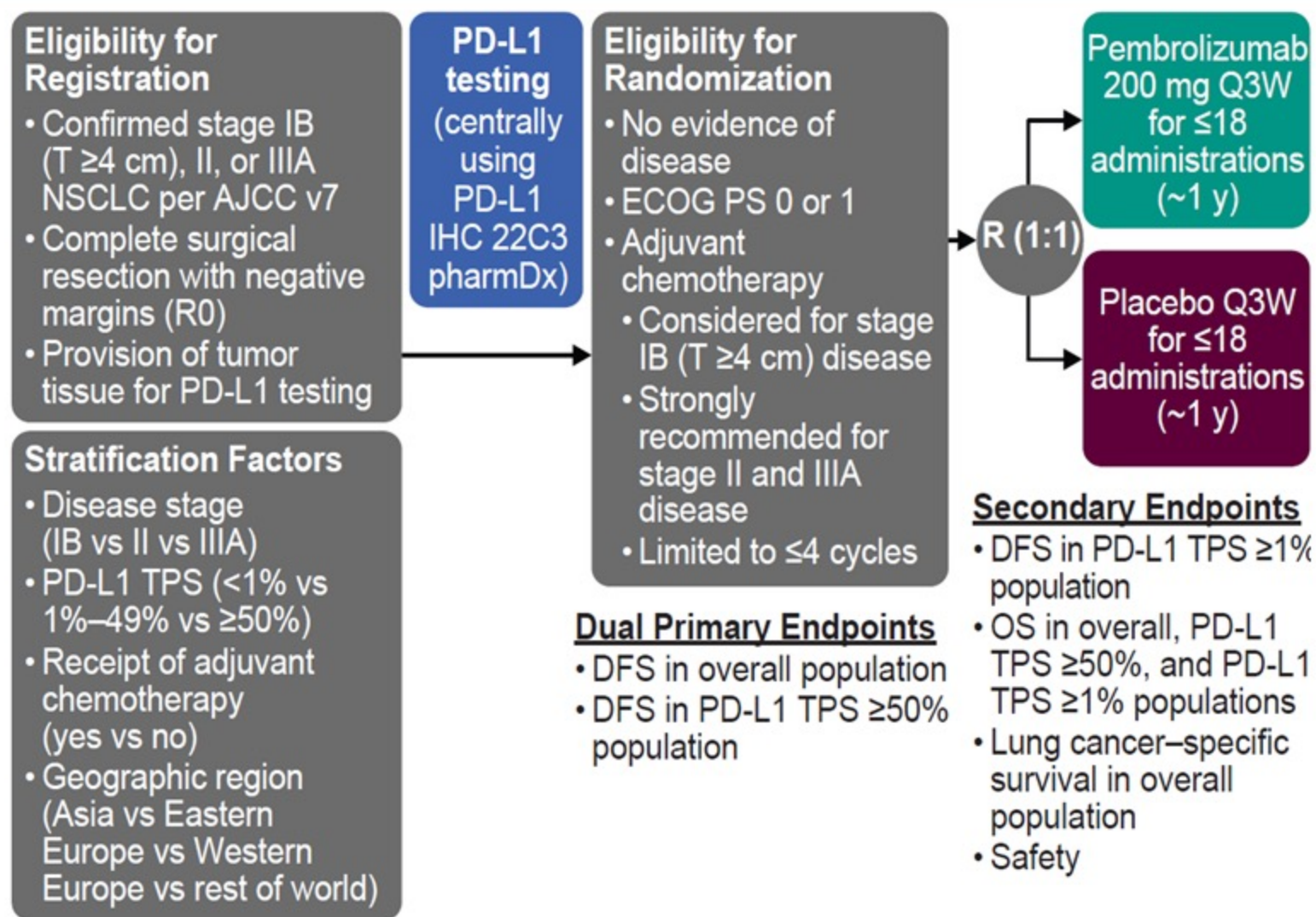
No. at risk

Months	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72
Atezolizumab	507	492	488	478	472	463	450	439	430	419	408	393	381	372	328	262	203	144	96	61	30	17	8	4	1
BSC	498	484	473	462	452	444	437	428	417	405	391	381	371	357	325	253	207	148	101	57	25	14	11	5	1

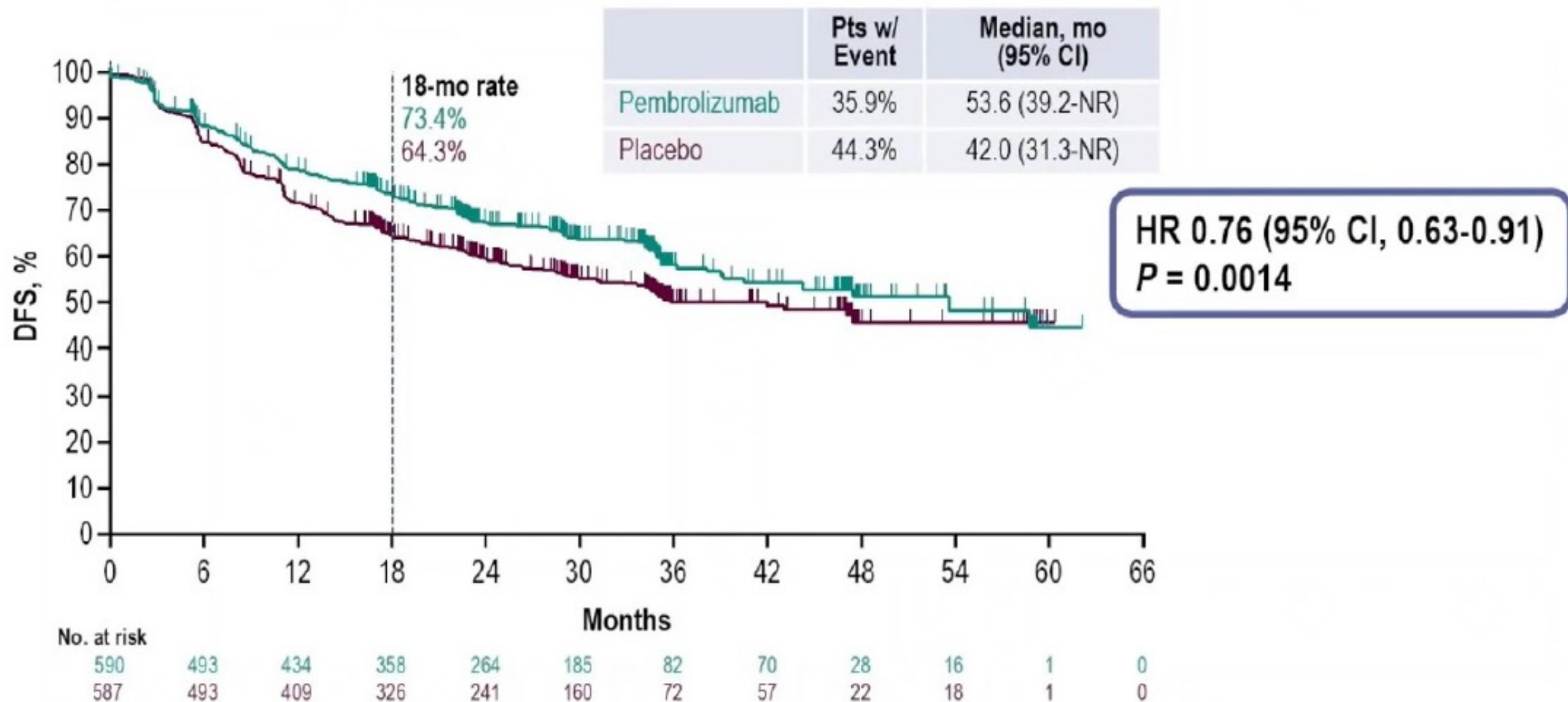
Clinical cutoff: 18 April 2022. ^a Stratified. ^b No formal testing until statistical significance observed for DFS in the ITT population due to the prespecified testing hierarchy.

^c Descriptive purposes only.

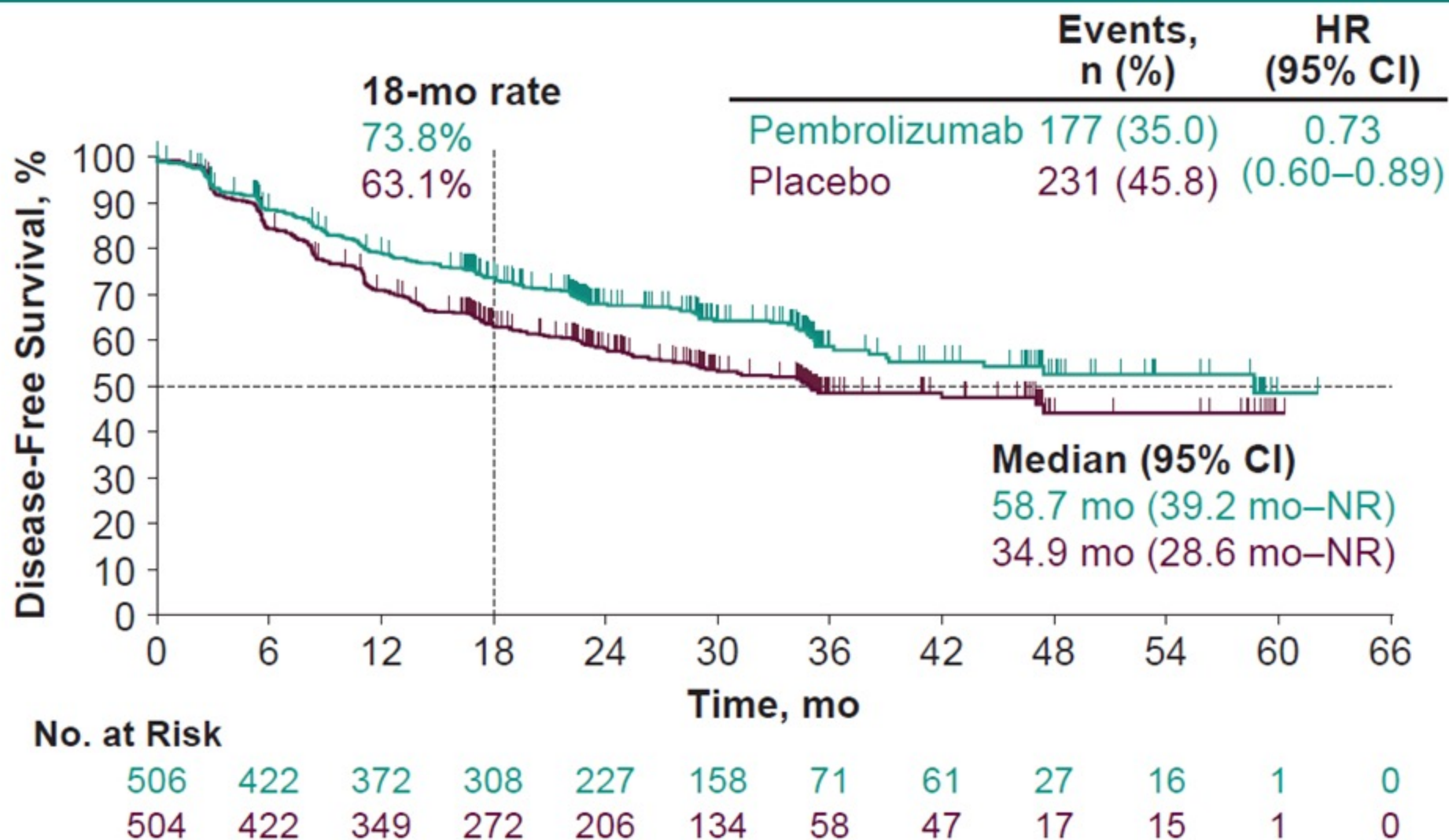
PEARLS/KEYNOTE-091 Study Design



DFS, Overall Population



Disease-Free Survival in Patients Who Received ≥ 1 Cycle of Adjuvant Chemotherapy



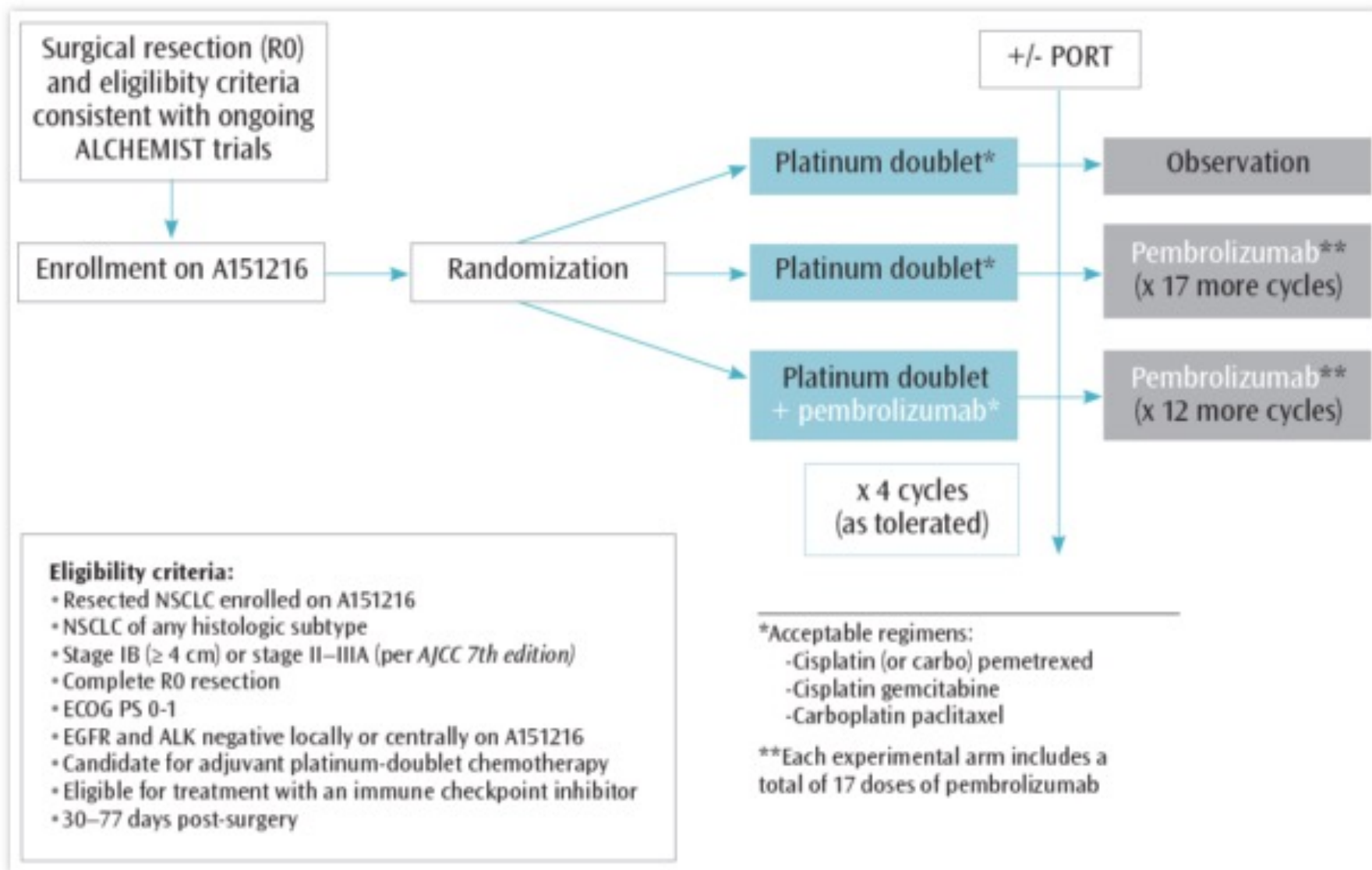


Summary and Conclusions

- Pembrolizumab provided statistically significant, clinically meaningful DFS improvement versus placebo in the overall population
 - Median DFS of 53.6 months with pembrolizumab vs 42.0 months with placebo (HR, 0.76)
 - Generally consistent DFS benefit in participants with PD-L1 TPS <1%, 1-49%, and ≥50%
 - OS data are immature
 - DFS in the PD-L1-defined populations and OS will be tested at future analyses according to the analysis plan
- Pembrolizumab safety profile as expected
- **Data suggest pembrolizumab has the potential to be a new adjuvant treatment option for patients with stage IB (T ≥4 cm) to IIIA NSCLC following complete resection and adjuvant chemotherapy when recommended, regardless of PD-L1 expression**

On January 26, 2023, the Food and Drug Administration (FDA) approved pembrolizumab for adjuvant treatment following resection and platinum-based chemotherapy for stage IB (T_{2a} ≥4 cm), II, or IIIA non-small cell lung cancer (NSCLC), regardless PDL1

Figure 1. Schema: ALCHEMIST CHEMO-IO

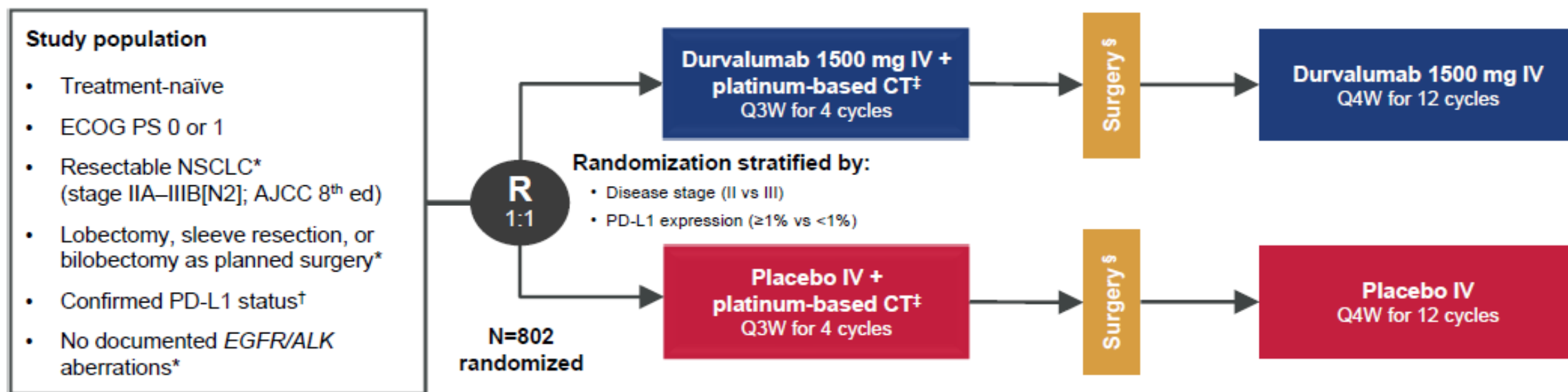




NEOADJUVANT PLUS ADJUVANT (PERIOPERATIVE) IMMUNOTHERAPY IN NSCLC

- *AEGEAN
- *Keynote 671
- *Neotorch
- *Checkmate 77T

AEGEAN: a phase 3, global, randomized, double-blind, placebo-controlled study



Endpoints: All efficacy analyses performed on a modified population that excludes patients with documented *EGFR/ALK* aberrations[¶]

Primary:

- pCR by central lab (per IASLC 2020¹)
- EFS using BICR (per RECIST v1.1)

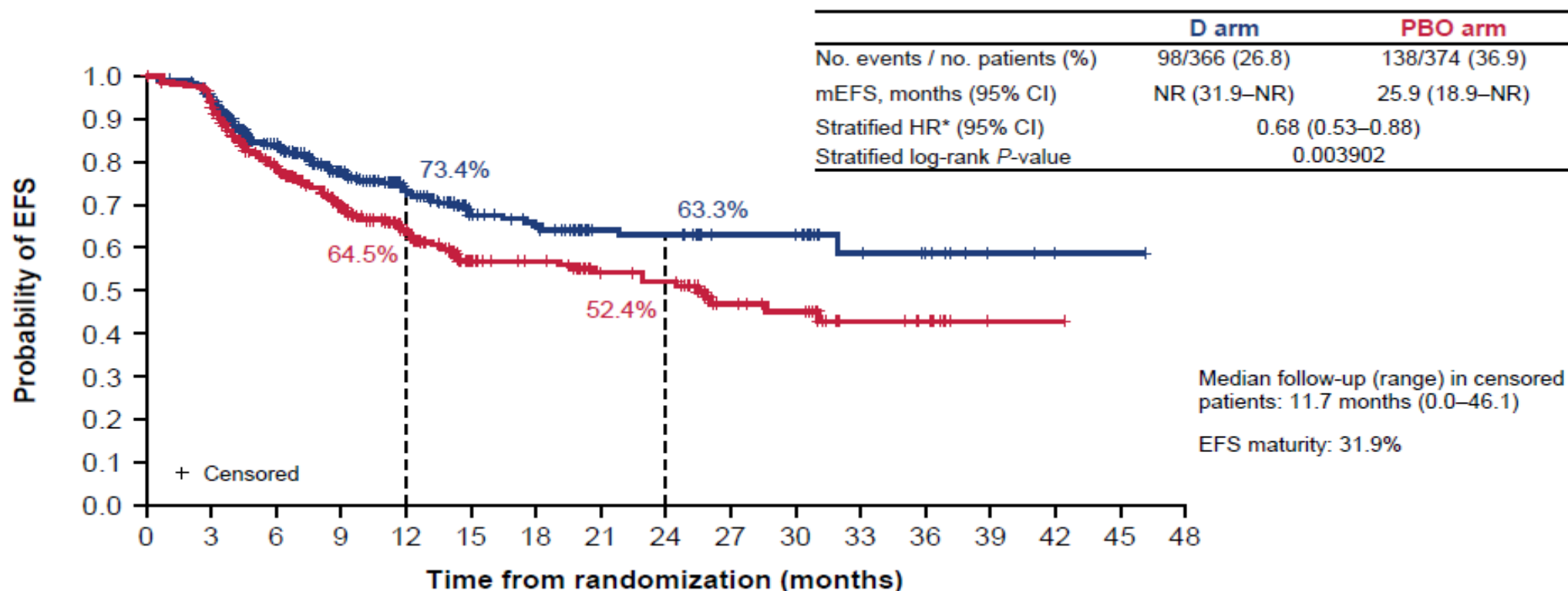
Key secondary:

- MPR by central lab (per IASLC 2020¹)
- DFS using BICR (per RECIST v1.1)
- OS

*The protocol was amended while enrollment was ongoing to exclude (1) patients with tumors classified as T4 for any reason other than size; (2) patients with planned pneumonectomies; and (3) patients with documented *EGFR/ALK* aberrations. [†]Ventana SP263 immunohistochemistry assay. [‡]Choice of CT regimen determined by histology and at the investigator's discretion. For non-squamous: cisplatin + pemetrexed or carboplatin + pemetrexed. For squamous: carboplatin + paclitaxel or cisplatin + gemcitabine (or carboplatin + gemcitabine for patients who have comorbidities or who are unable to tolerate cisplatin per the investigator's judgment). [§]Post-operative radiotherapy (PORT) was permitted where indicated per local guidance. [¶]All efficacy analyses reported in this presentation were performed on the mITT population, which includes all randomized patients who did not have documented *EGFR/ALK* aberrations. AJCC, American Joint Committee on Cancer; BICR, blinded independent central review; DFS, disease-free survival; EFS, event-free survival; mITT, modified intent-to-treat; MPR, major pathologic response; pCR, pathologic complete response.

EFS using RECIST v1.1 (BICR) (mITT)

First planned interim analysis of EFS



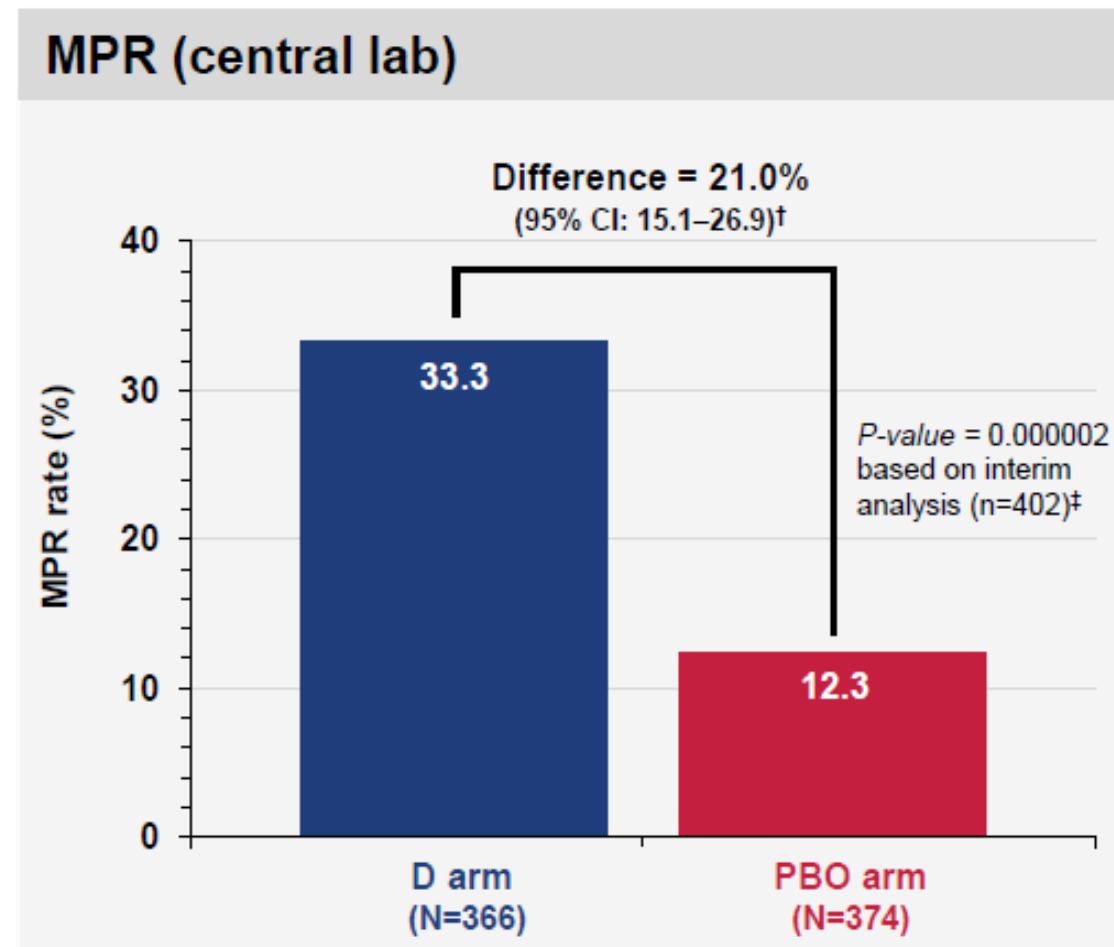
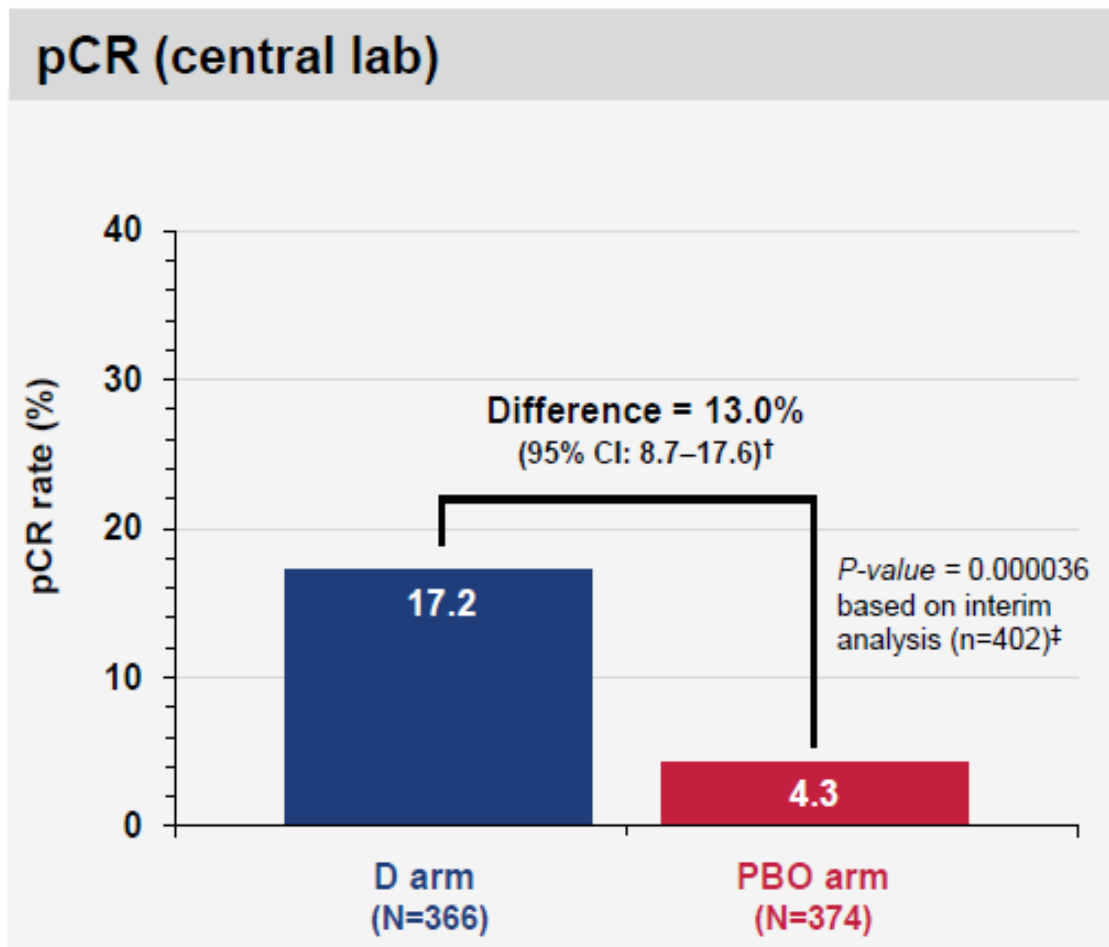
No. at risk:

D arm	366	336	271	194	140	90	78	50	49	31	30	14	11	3	1	1	0
PBO arm	374	339	257	184	136	82	74	53	50	30	25	16	13	1	1	0	0

DCO = Nov 10, 2022. EFS is defined as time from randomization to the earliest of: (A) progressive disease (PD) that precludes surgery; (B) PD discovered and reported by the investigator upon attempting surgery that prevents completion of surgery; (C) local/distant recurrence using BICR per RECIST v1.1; or (D) death from any cause. *HR <1 favors the D arm versus the PBO arm. Median and landmark estimates calculated using the Kaplan–Meier method; HR calculated using a stratified Cox proportional hazards model; and P-value calculated using a stratified log rank test. Stratification factors: disease stage (II vs III) and PD-L1 expression status (<1% vs ≥1%). Significance boundary = 0.009899 (based on total 5% alpha), calculated using a Lan-DeMets alpha spending function with O'Brien Fleming boundary. mEFS, median EFS; NR, not reached.

Pathologic response per IASLC 2020 methodology* (mITT)

Final analysis



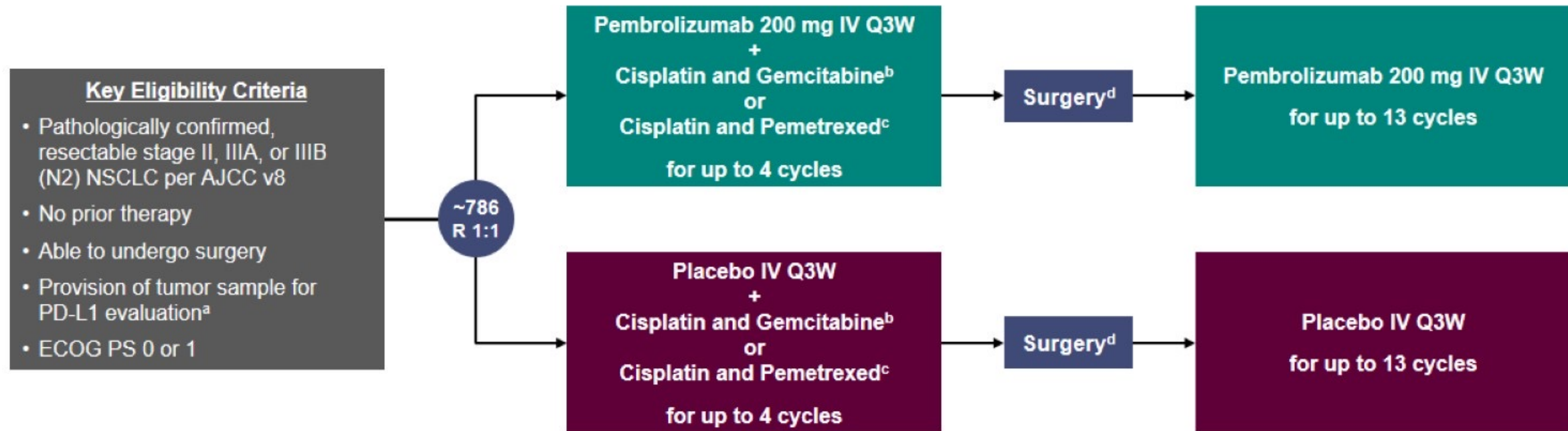
*Using IASLC recommendations for pathologic assessment of response to therapy, including gross assessment and processing of tumor bed (Travis WD, et al. *J Thorac Oncol* 2020;15:709-40). pCR = a lack of any viable tumor cells after complete evaluation of the resected lung cancer specimen and all sampled regional lymph nodes. MPR = less than or equal to 10% viable tumor cells in lung primary tumor after complete evaluation of the resected lung cancer specimen. To be eligible for pathologic assessment, patients needed to have received three cycles of neoadjuvant study Tx per protocol. Patients who were not evaluable were classified as non-responders. [†]CI: calculated by stratified Miettinen and Nurminen method. [‡]No formal statistical testing was performed at the pCR final analysis (DCO: Nov 10, 2022; n=740 [data shown]). Statistical significance was achieved at the interim pCR analysis (DCO: Jan 14, 2022; n=402; *P*-value for pCR/MPR calculated using a stratified Cochran-Mantel-Haenszel test with a significance boundary = 0.000082 calculated using a Lan-DeMets alpha spending function with O'Brien Fleming boundary).

Conclusions

- Perioperative durvalumab + neoadjuvant CT significantly improved both pCR and EFS among patients with resectable NSCLC versus neoadjuvant CT alone
 - Difference in pCR rate = 13.0% (95% CI: 8.7–17.6)
 - EFS HR = 0.68 (95% CI: 0.53–0.88); $P = 0.003902$; median follow-up of 11.7 months and 31.9% maturity
 - The AEGEAN study continues for assessment of longer-term EFS, as well as DFS and OS
- Improvements in both pCR and EFS were largely consistent across predefined subgroups
 - EFS benefit was observed regardless of the planned neoadjuvant platinum agent: the HR was 0.59 (95% CI: 0.35–1.00) for cisplatin and 0.73 (95% CI: 0.54–0.98) for carboplatin
- Perioperative durvalumab + neoadjuvant CT was associated with a manageable safety profile that was consistent with the known safety profiles of durvalumab and CT
 - The addition of durvalumab did not impact completion of neoadjuvant CT (4 cycles) or surgery
- AEGEAN is the first phase 3 study to describe the benefit of perioperative immunotherapy + neoadjuvant CT
- Perioperative durvalumab + neoadjuvant CT is a potential new treatment for patients with resectable NSCLC

KEYNOTE-671 Study Design

Randomized, Double-Blind, Phase 3 Trial



Stratification Factors

- Disease stage (II vs III)
- PD-L1 TPS^a (<50% vs ≥50%)
- Histology (squamous vs nonsquamous)
- Geographic region (east Asia vs not east Asia)

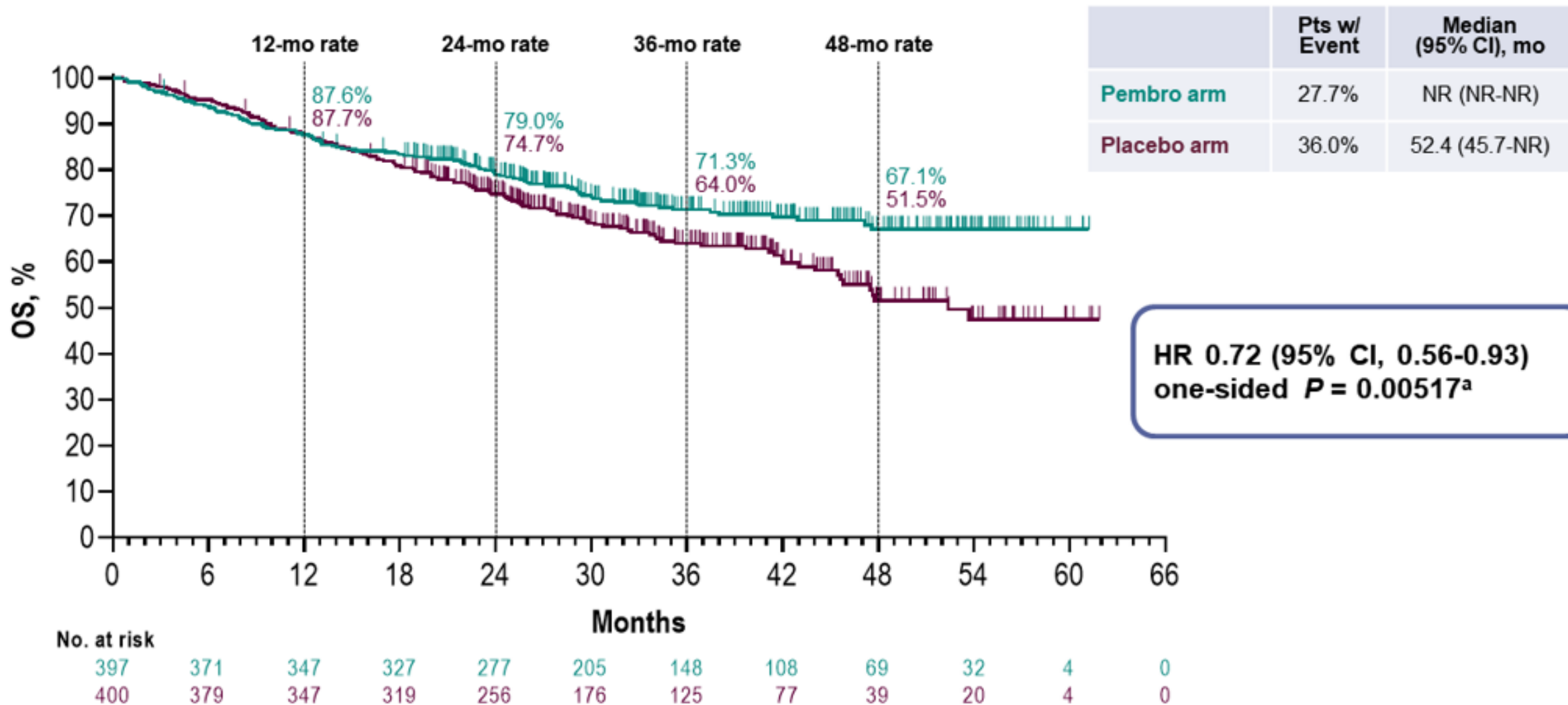
Dual primary end points: EFS per investigator review and OS

Key secondary end points: mPR and pCR per blinded, independent pathology review, and safety

^a Assessed at a central laboratory using PD-L1 IHC 22C3 pharmDx. ^b Cisplatin 75 mg/m² IV Q3W + gemcitabine 1000 mg/m² IV on days 1 and 8 Q3W was permitted for squamous histology only. ^c Cisplatin 75 mg/m² IV Q3W + pemetrexed 500 mg/m² IV Q3W was permitted for nonsquamous histology only. ^d Radiotherapy was to be administered to participants with microscopic positive margins, gross residual disease, or extracapsular nodal extension following surgery and to participants who did not undergo planned surgery for any reason other than local progression or metastatic disease. ClinicalTrials.gov identifier: NCT03425643.

Overall Survival, IA2

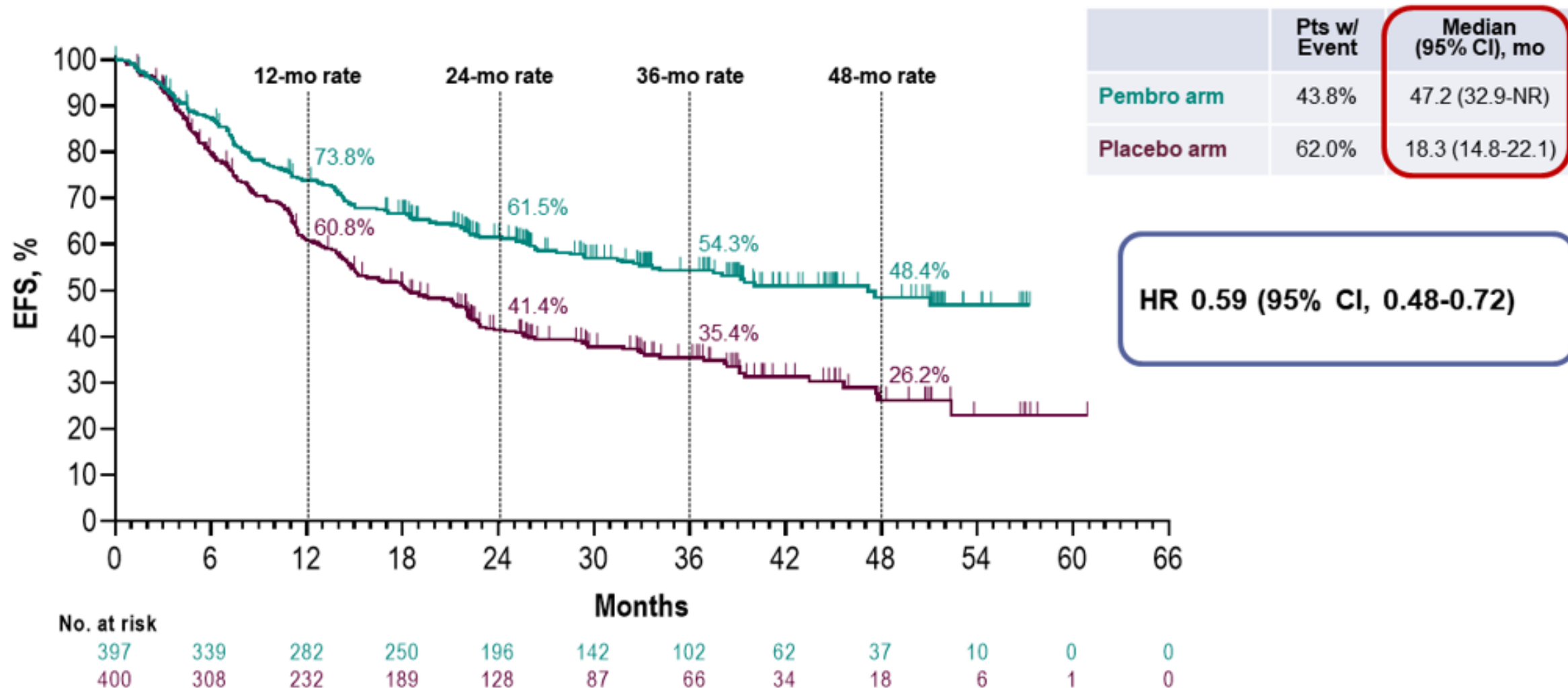
Median Follow-Up: 36.6 months (range, 18.8-62.0)



OS defined as time from randomization to death from any cause. ^a Significance boundary at IA2, one-sided P = 0.00543. Data cutoff date for IA2: July 10, 2023.

Event-Free Survival, IA2

Median Follow-Up: 36.6 months (range, 18.8-62.0)

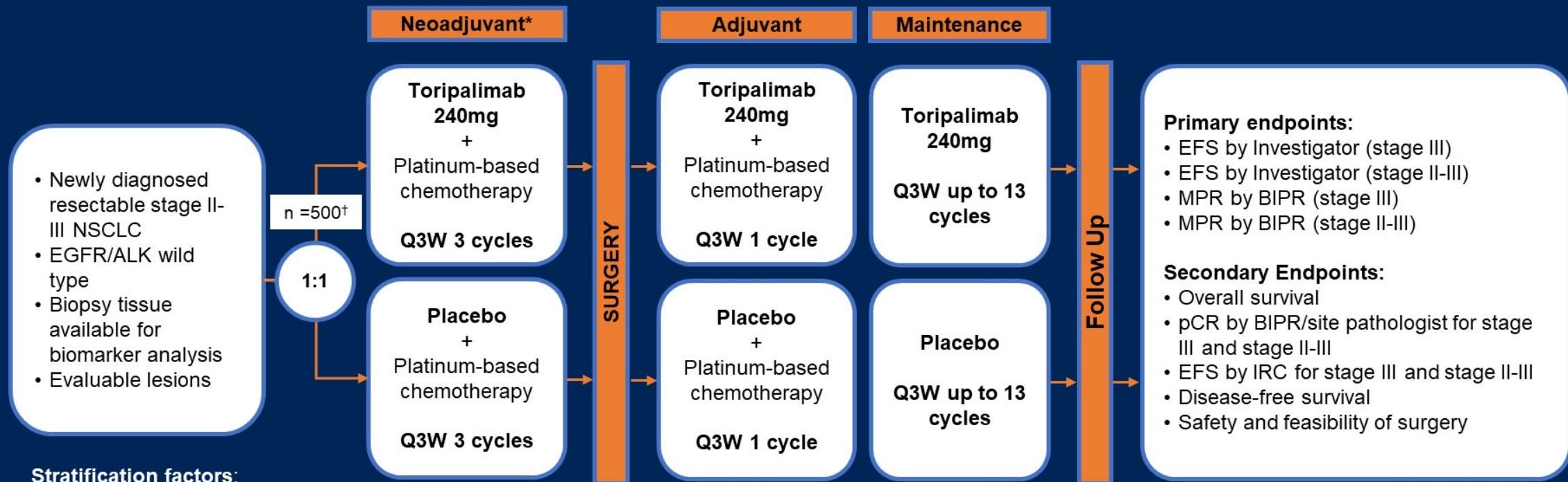


EFS defined as time from randomization to first occurrence of local progression precluding planned surgery, unresectable tumor, progression or recurrence per RECIST v1.1 by investigator assessment, or death from any cause. Data cutoff date for IA2: July 10, 2023.

Summary and Conclusions

- A statistically significant, clinically important OS improvement was seen for neoadjuvant pembrolizumab plus chemotherapy followed by surgery and adjuvant pembrolizumab versus neoadjuvant chemotherapy and surgery alone
 - With median follow-up of 3 years, the HR for death was 0.72 (95% CI, 0.56-0.93)
 - Median OS was not reached in the pembrolizumab arm vs 52.4 months in the placebo arm
 - OS benefit was generally consistent across the majority of subgroups analyzed
- EFS benefit observed at IA1 was maintained at IA2
 - At IA2, median EFS was almost 2.5 years longer in the pembrolizumab arm compared with the placebo arm
- AE profile was consistent with IA1 with no new safety signals and no new treatment-related deaths
 - Any increases in incidence of individual treatment-related AE rates were mostly by 1-2 participants each
 - Most immune-mediated AEs were due to hypothyroidism
- **The significant OS improvement in the absence of new safety signals establishes the perioperative pembrolizumab regimen as a new standard of care for resectable stage II, IIIA, or IIIB (N2) NSCLC**
 - **On October 16, 2023, the US FDA granted pembrolizumab approval for the treatment of resectable (tumors ≥ 4 cm or node positive) NSCLC in combination with platinum-containing chemotherapy as neoadjuvant treatment, and then continued as a single agent as adjuvant treatment after surgery**

Neotorch Study Design



Primary endpoints:

- EFS by Investigator (stage III)
- EFS by Investigator (stage II-III)
- MPR by BIPR (stage III)
- MPR by BIPR (stage II-III)

Secondary Endpoints:

- Overall survival
- pCR by BIPR/site pathologist for stage III and stage II-III
- EFS by IRC for stage III and stage II-III
- Disease-free survival
- Safety and feasibility of surgery

Stratification factors:

- II vs IIIA vs IIIB
- Lobectomy vs pneumonectomy
- Non-squamous vs squamous
- PD-L1 TC expression: $\geq 1\%$ vs $< 1\%$ or non-evaluable

*3 cycles of neoadjuvant chemotherapy with 4 cycles of peri-operative chemotherapy in total were required with in Neotorch study, meanwhile, surgeons were allowed to determine the most appropriate timing for surgery based on the patient's condition

[†]About 400 patients with Stage III NSCLC and ~100 patients with Stage II NSCLC patients would be enrolled

EFS: Event-Free Survival
MPR: Major Pathologic Response
BIPR: Blinded Independent Pathologic Review
pCR: Pathological Complete Response
IRC: Independent Review Committee

Event-Free Survival Analysis

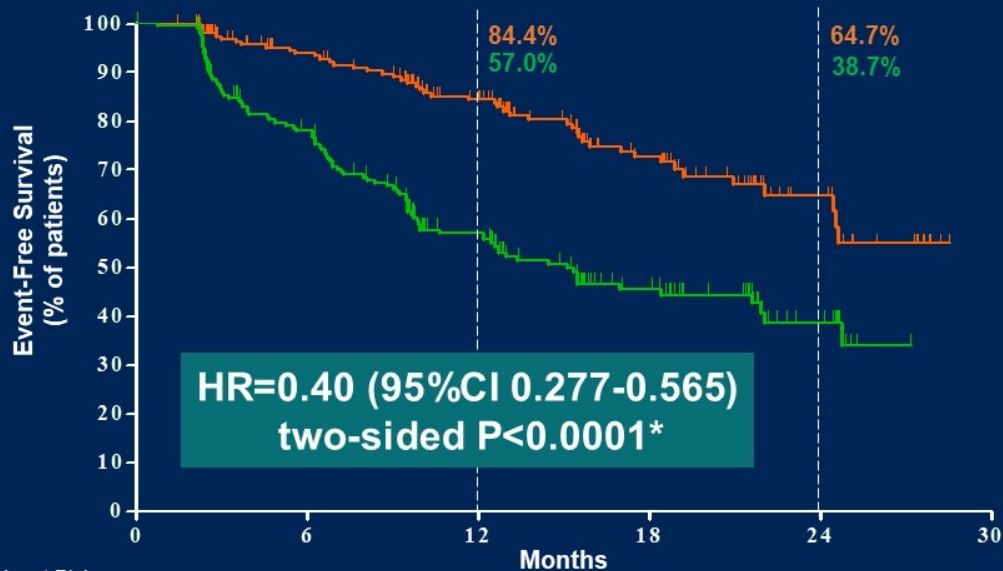
Intent-to-treat Stage III patients assessed by investigator per RECIST v1.1

EFS by investigator

No. of Events/No. of Patients Median EFS mos. (95% CI)

Toripalimab + chemo 47/202 NE (24.4, NE)
 Placebo + chemo 97/202 15.1 (10.6, 21.9)

Median follow-up: 18.25 months



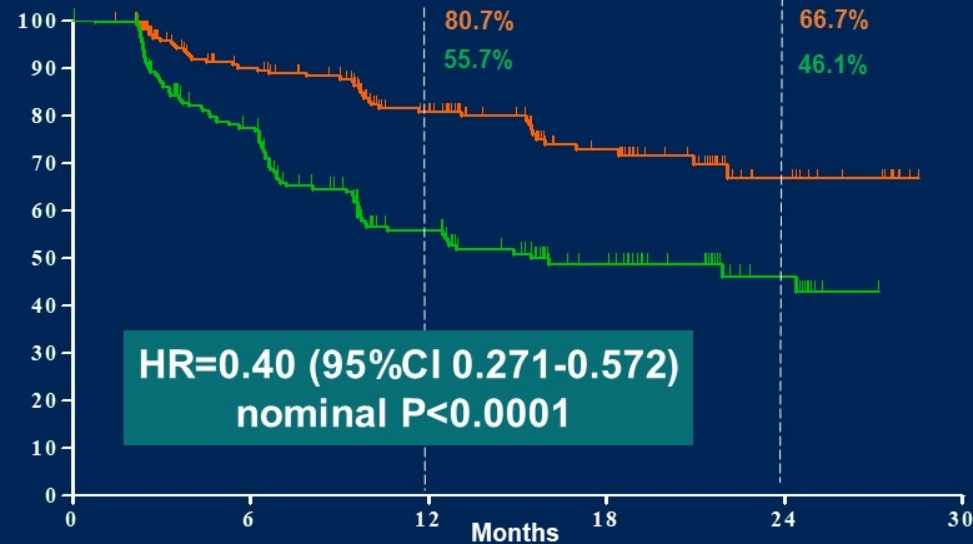
No. at Risk	0	6	12	18	24	30
Toripalimab + chemo	202	156	116	66	23	0
Placebo + chemo	202	139	86	43	15	0

EFS by IRC

No. of Events/No. of Patients Median EFS mos. (95% CI)

Toripalimab + chemo 43/202 NE (NE, NE)
 Placebo + chemo 87/202 15.5 (9.9, NE)

Median follow-up: 18.25 months



No. at Risk	0	6	12	18	24	30
Toripalimab + chemo	202	150	107	60	17	0
Placebo + chemo	202	134	74	38	14	0

NE: not evaluable
 HR; Hazard ratio
 CI: confidence interval
 Data cutoff date: Nov. 30, 2022

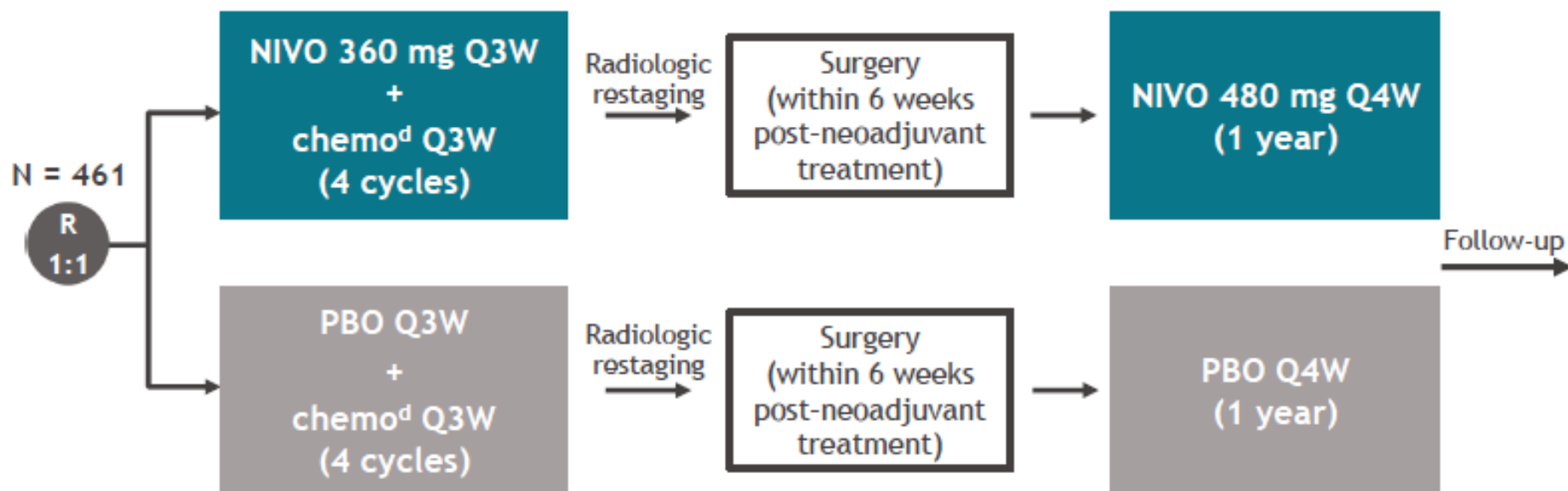
*2-sided efficacy boundary: 0.01683

CheckMate 77T^a study design

Key eligibility criteria

- Resectable, stage IIA (> 4 cm)-IIIB (N2) NSCLC (per AJCC 8th edition)
- No prior systemic anti-cancer treatment
- ECOG PS 0-1
- No *EGFR* mutation/known *ALK* alterations^b

Stratified by
histology (NSQ vs SQ)
disease stage (II vs III),
and tumor PD-L1^c ($\geq 1\%$ vs $< 1\%$ vs
not evaluable/indeterminate)



Follow-up, median (range): 25.4 (15.7-44.2) months

Primary endpoint

- EFS by BICR

Secondary endpoints

- pCR^e by BIPR
- MPR^e by BIPR
- OS
- Safety

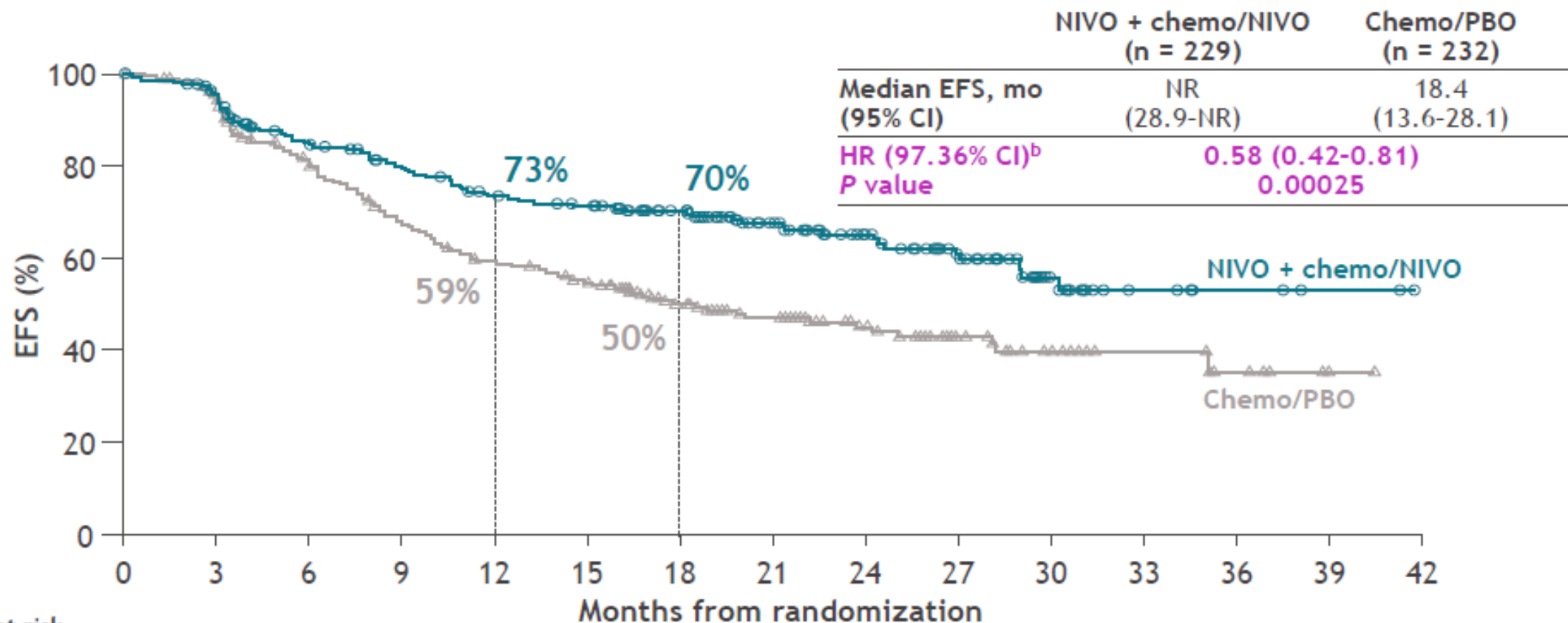
Exploratory analyses

- EFS by pCR/MPR
- EFS by adjuvant treatment

Database lock date: September 6, 2023.

^aNCT04025879. ^b*EGFR* testing was mandatory in all patients with NSQ histology. *ALK* testing was done in patients with a history of *ALK* alterations. *EGFR/ALK* testing done using US FDA/local health authority-approved assays. ^cDetermined by the PD-L1 IHC 28-8 pharmDx assay (Dako). ^dNSQ: cisplatin + pemetrexed, carboplatin + pemetrexed, or carboplatin + paclitaxel; SQ: cisplatin + docetaxel or carboplatin + paclitaxel. ^eAssessed per immune-related pathologic response criteria. ^fBICR, blinded independent central review; BIPR, blinded independent pathological review. 1. Cottrell TR, et al. *Ann Oncol* 2018;29:1853-1860.

Primary endpoint: EFS^a per BICR with neoadjuvant NIVO + chemo/adjuvant NIVO vs chemo/PBO



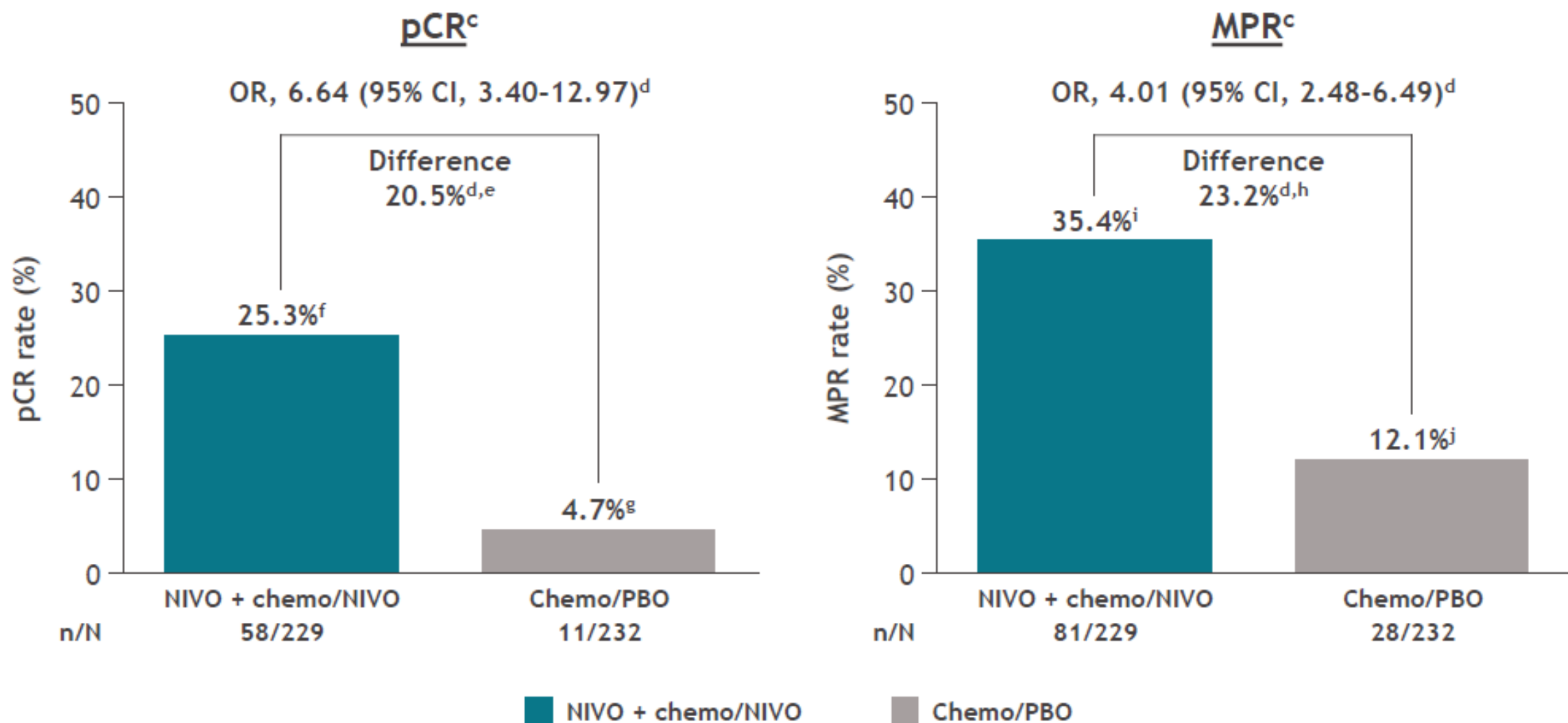
No. at risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42
NIVO + chemo/NIVO	229	208	173	157	141	134	115	89	69	46	20	7	4	2	0
Chemo/PBO	232	204	165	138	118	106	78	59	44	29	19	10	6	1	0

- EFS per investigator assessment, NIVO + chemo/NIVO vs chemo/PBO: HR, 0.56; 95% CI, 0.41-0.76

Median follow-up (range): 25.4 months (15.7-44.2).

^aTime from randomization to any disease progression precluding surgery, abandoned surgery due to unresectability or disease progression, disease progression/recurrence after surgery, progression in patients without surgery, or death due to any cause. Patients who received subsequent therapy were censored at the last evaluable tumor assessment on or prior to the date of subsequent therapy. ^bUnstratified HR (95% CI), 0.59 (0.44-0.79).

pCR^a and MPR^b per BIPR



^a0% residual viable tumor cells post-surgery in both primary tumor (lung) and sampled lymph nodes per immune-related pathologic response criteria. ^b≤ 10% residual viable tumor cells post-surgery in both primary tumor (lung) and sampled lymph nodes per immune-related pathologic response criteria. ^cPatients who did not undergo surgery or received alternative anti-cancer treatment prior to surgery were classified as non-responders. ^dCalculated using the stratified Cochran-Mantel-Haenszel method. ^e95% CI: ^f14.3-26.6; ^g19.8-31.5; ^h2.4-8.3; ⁱ15.8-30.6; ^j9.2-41.9; ^k8.2-17.0. BIPR, blinded independent pathological review.

Summary

- Neoadjuvant NIVO + chemo followed by surgery and adjuvant NIVO demonstrated statistically significant and clinically meaningful EFS improvement vs chemo/PBO in patients with resectable NSCLC (HR, 0.58; $P = 0.00025$)
 - EFS benefit was seen across most key subgroups
- pCR and MPR rates were also improved: 25.3% vs 4.7% and 35.4% vs 12.1%, respectively
- In an exploratory analysis, perioperative NIVO favored EFS in patients with a pCR following neoadjuvant therapy, with a trend toward improved EFS in patients without a pCR
- Among patients eligible for adjuvant therapy, perioperative NIVO improved EFS vs chemo/PBO, regardless of pCR status
 - Neoadjuvant NIVO + chemo continued to provide benefit over chemo in patients who were unable to receive adjuvant therapy
- Perioperative NIVO-based regimen showed no new safety signals. Surgical feasibility was similar between treatment arms
- CheckMate 77T is the first phase 3 perioperative study to build on the SOC neoadjuvant NIVO + chemo and supports perioperative NIVO as a potential new treatment option for patients with resectable NSCLC



@LuisRaezMD