



Lung Cancer Immunotherapy

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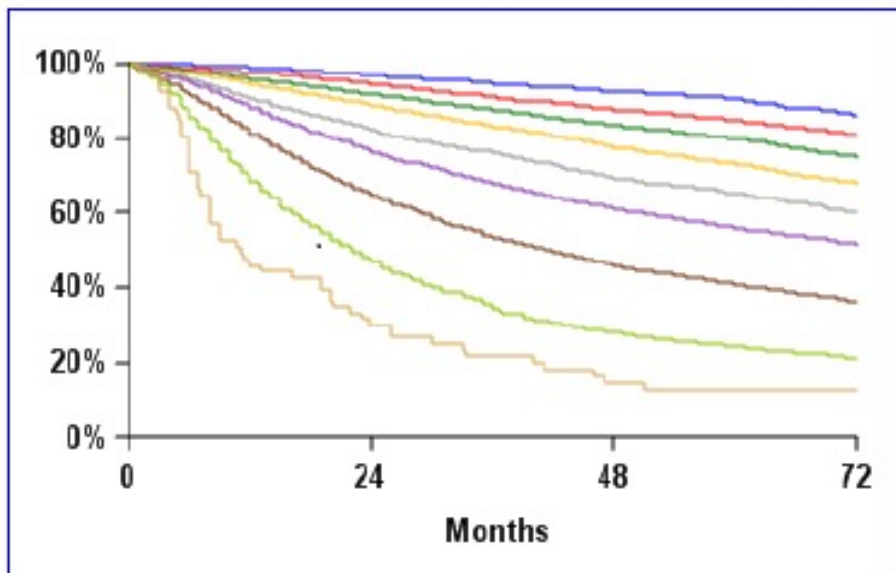
Lung Cancer Immunotherapy

- Neoadjuvant
- Adjuvant
- Locally Advanced



Surgery is still the intervention most likely to cure lung cancer

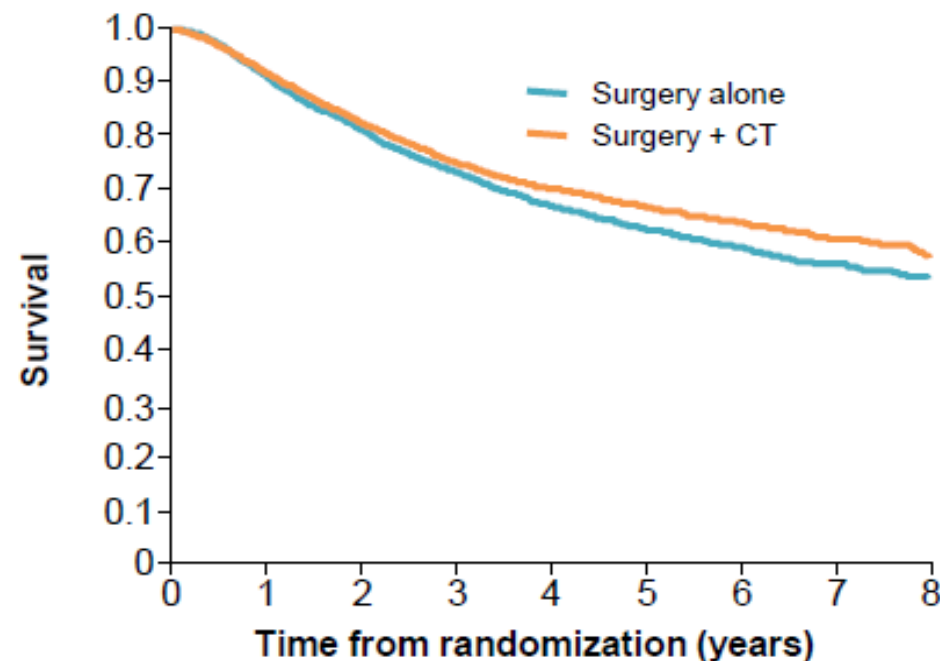
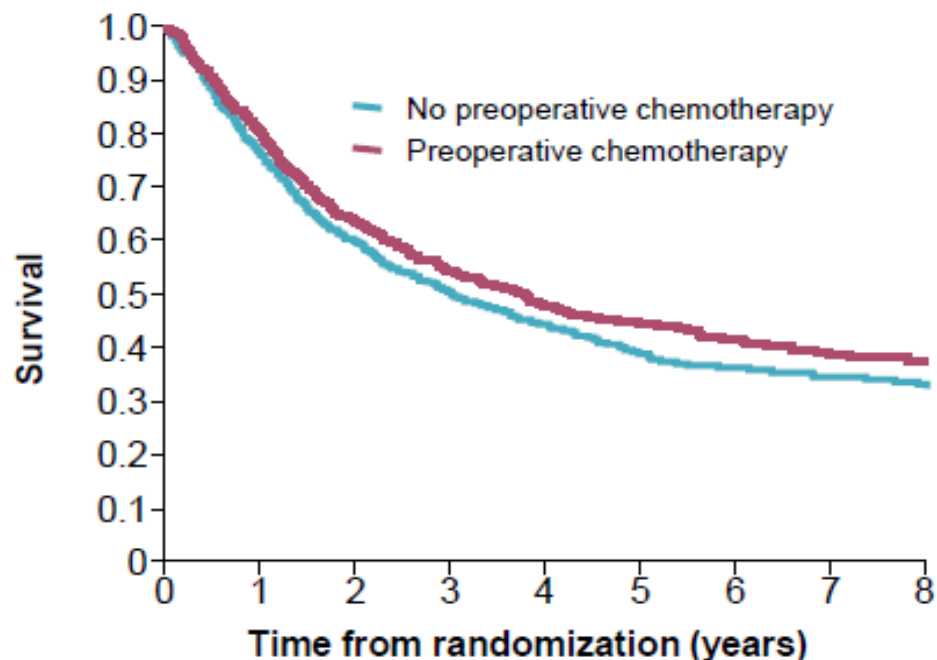
Pathological stage



	Events/N	MST	2 years	5 years
IA1	139/1389	NR	97%	90%
IA2	823/5633	NR	94%	85%
IA3	875/4401	NR	92%	80%
IB	1618/6095	NR	89%	73%
IIA	556/1638	NR	82%	65%
IIB	2175/5226	NR	76%	56%
IIIA	3219/5756	41.9	65%	41%
IIIB	1215/1729	22.0	47%	24%
IIIC	55/69	11.0	30%	12%

But there is a lot of room for improvement!

Goldstraw P et al. *J Thorac Oncol* 2016; 11: 39-51.

LUNG CANCER EARLY STAGES
Background & Current Situation


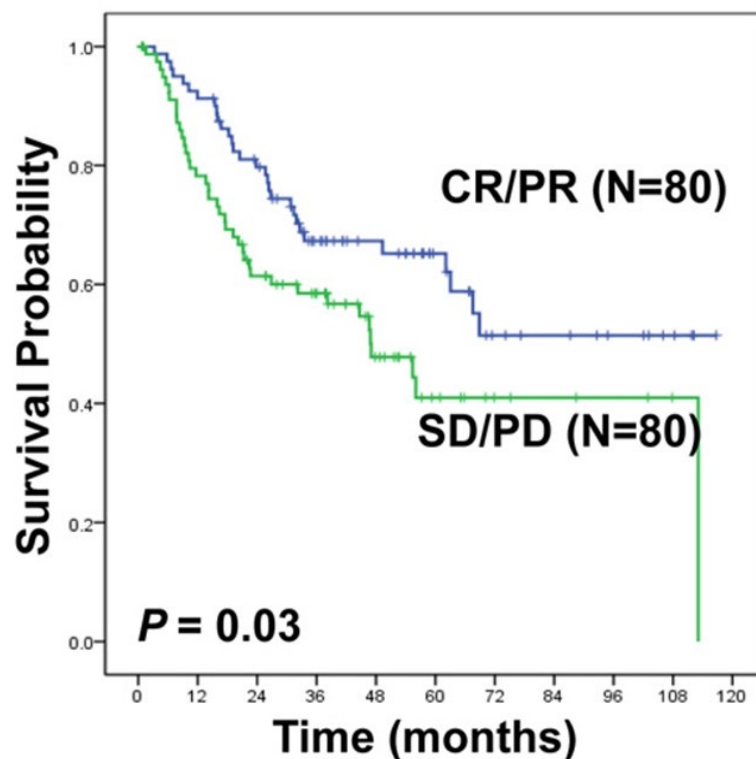
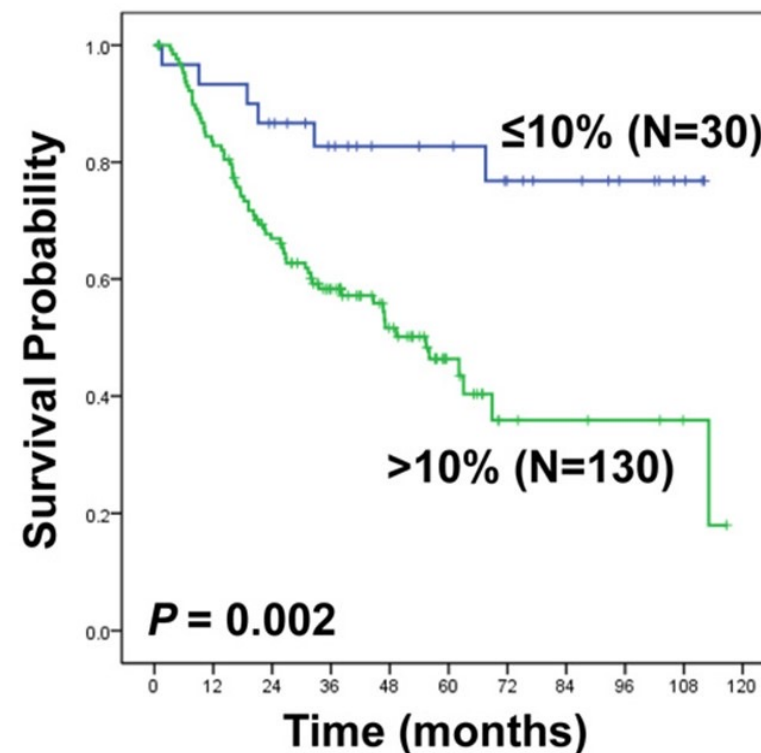
	N	Absolute Δ 5 yr OS	HR	P value
Neoadjuvant Trials	2385	5%	0.87 (95% CI 0.78-0.96)	0.007
Adjuvant Trials	8447	4%	0.86 (95% CI 0.81-0.92)	<0.0001



Neoadjuvant Immunotherapy in NSCLC



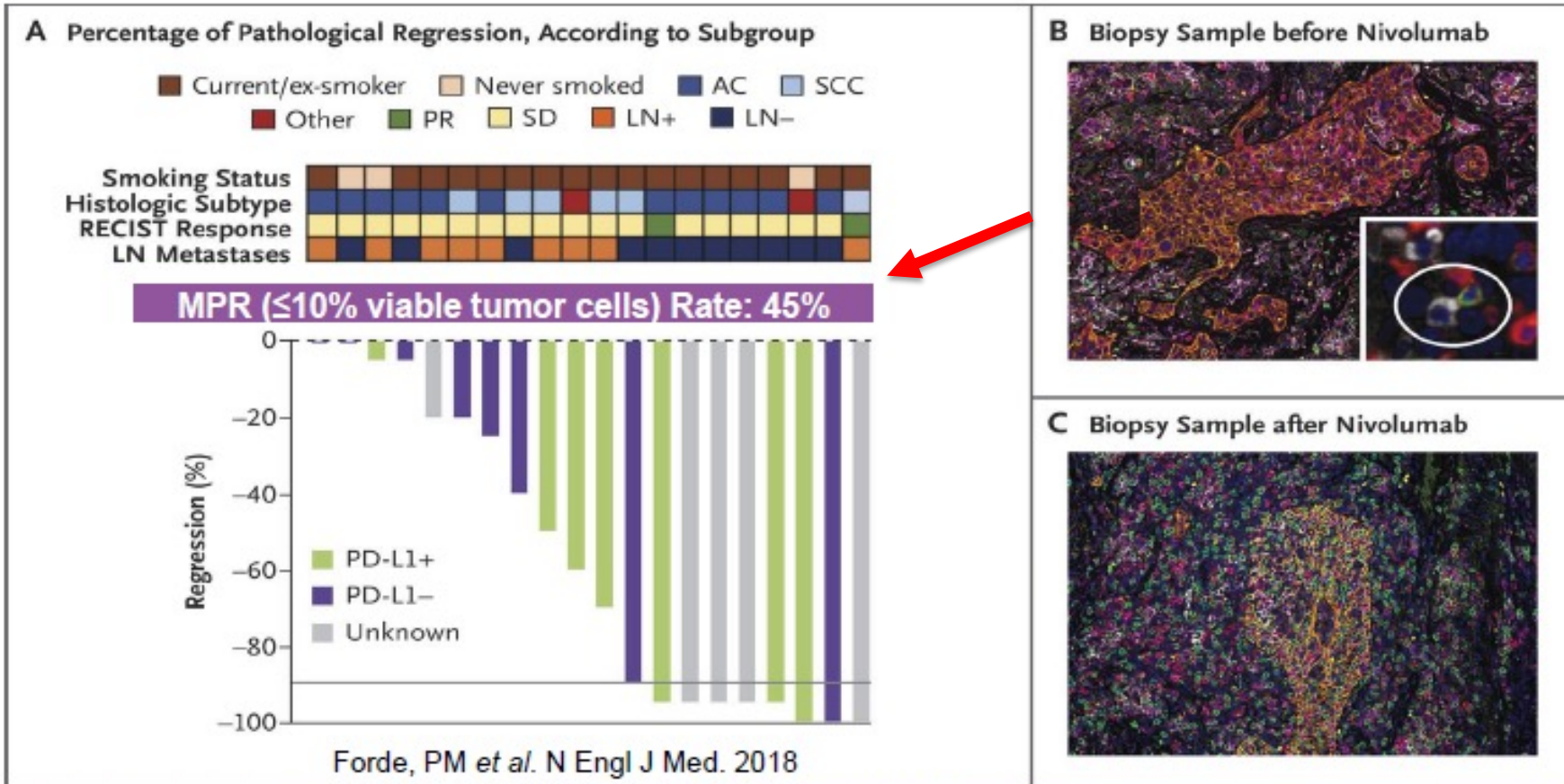
CT RECIST vs. MPR and prediction of OS after neoadjuvant chemotherapy in resectable NSCLC

A
CT RECIST Criteria

B
% Viable tumor


41% discordance rate between CT RECIST response and histopathologic response.



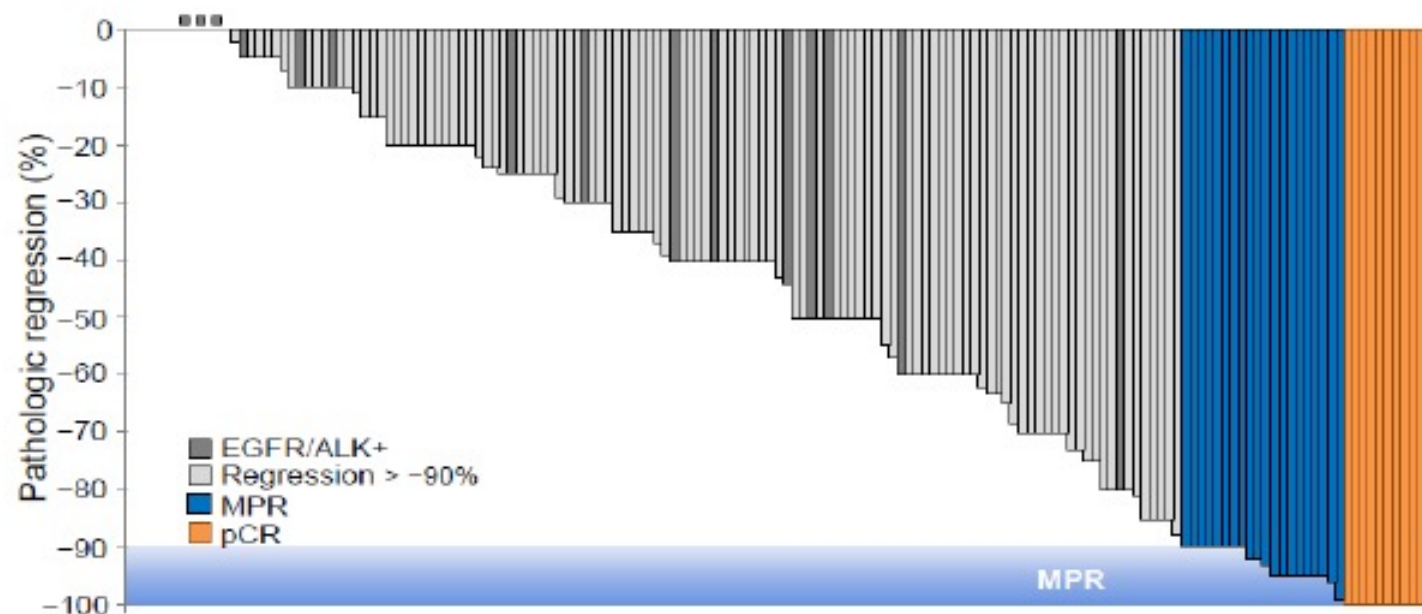
Neoadjuvant nivolumab is feasible, safe and active in operable NSCLC





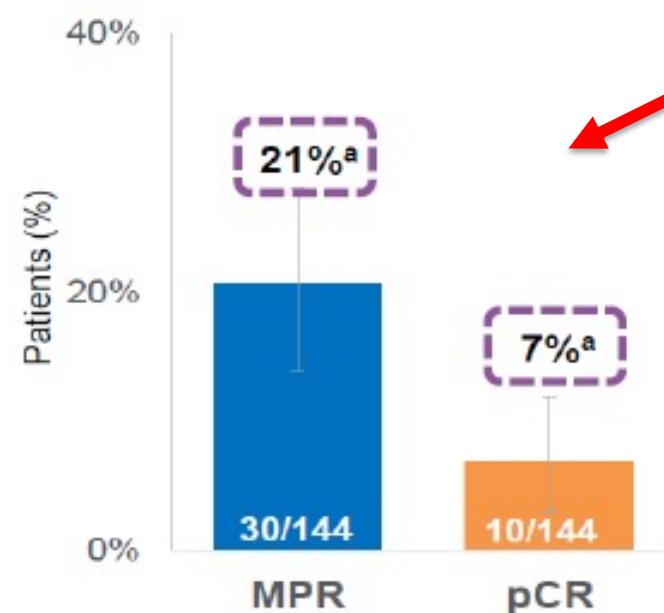
MPR to neoadjuvant atezolizumab in the LCMC3 study

Pathologic response in surgery population (n=159)



Pathologic regression defined as % viable tumor cells - 100%.
MPR, major pathologic response; pCR, pathologic complete response.
^aError bars indicate 95% CI.

Major pathologic response in
primary efficacy population (n=144)



Lee JM, *et al.* WCLC 2021

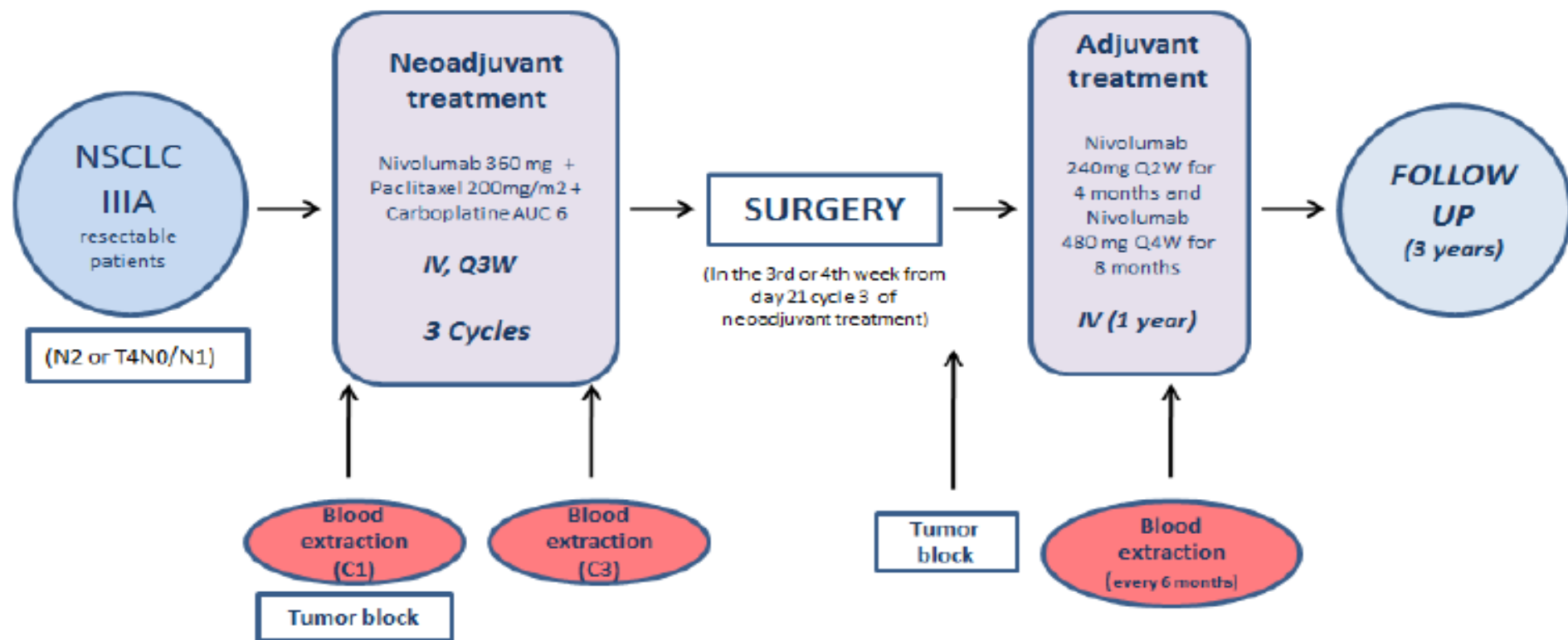
Neoadjuvant Chemo-Immunotherapy NADIM: Study Design & Endpoints

Primary Endpoint:

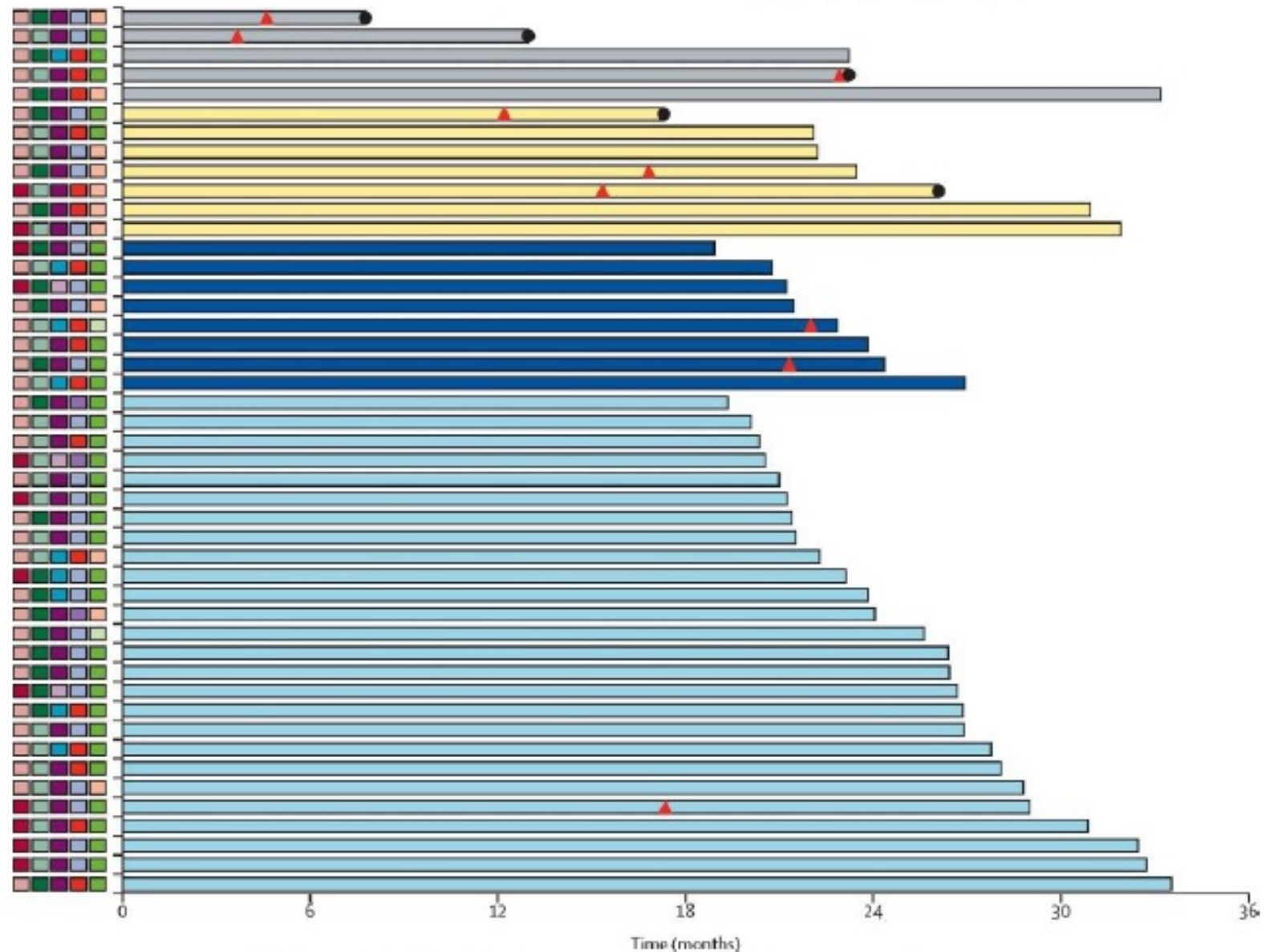
PFS at 24 months

Secondary Endpoints:

Down-staging rate,
complete resection rate,
ORR, safety, TTP, OS at 3
years



Key Results - NADIM

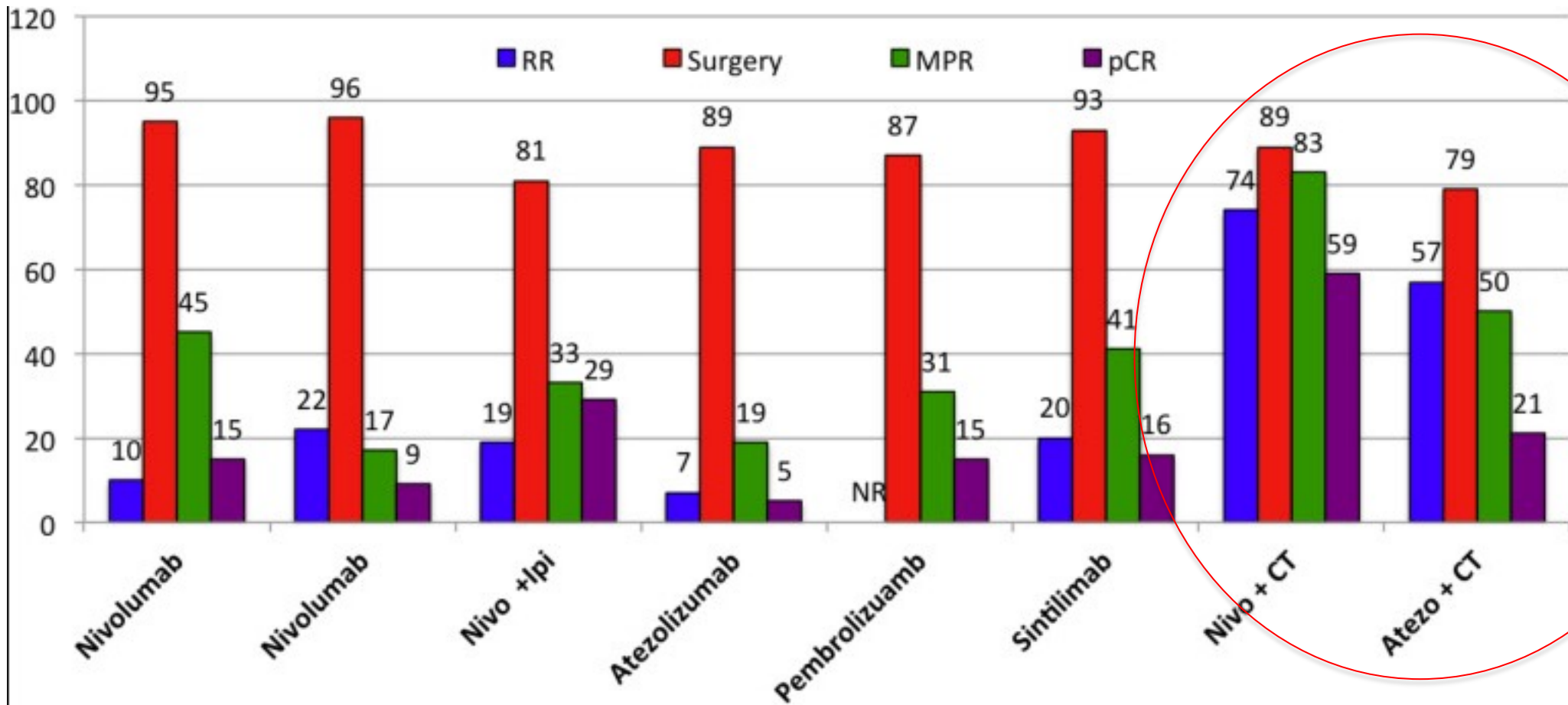


*2 pts elected not to have surgery, 3 pts had progressive disease

- 46 patients with clinical stage IIIA enrolled, 74% N2 including 54% multi-station N2
- 30% of pts had \geq G3 toxicity, no delays to surgery due to toxicity
- ORR 76%** 41 of 46 patients underwent R0 resection*. 37/46 (80%) downstaged at resection.
- 24 month PFS – 77% (59.9-87.7)
- 74%** (34/46) had MPR and **57%** (26/46) pts had pCR



Efficacy of neoadjuvant immune checkpoint inhibitors (ICIs) with or without chemotherapy (CT)



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

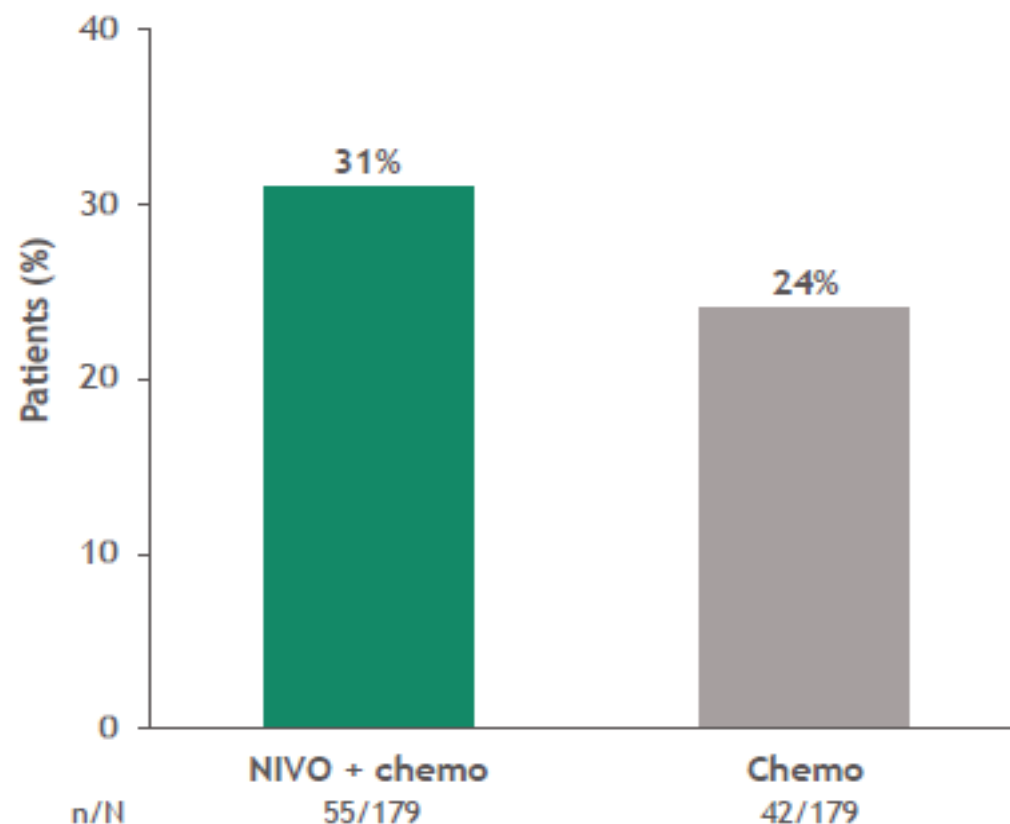
- ORR by BICR
- Predictive biomarkers (PD-L1, TMB, ctDNA^h)

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)

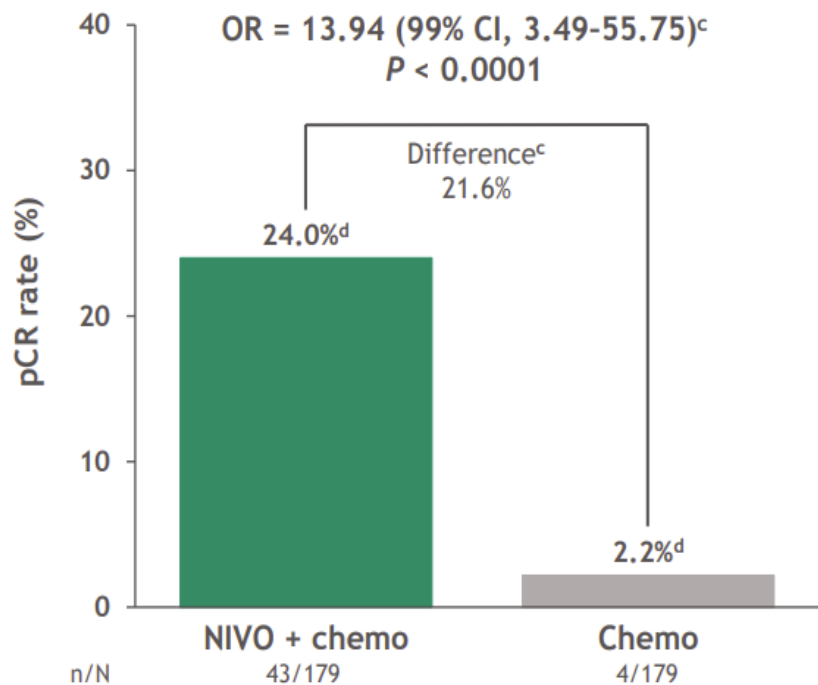
Patients with radiographic down-staging^c



^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.

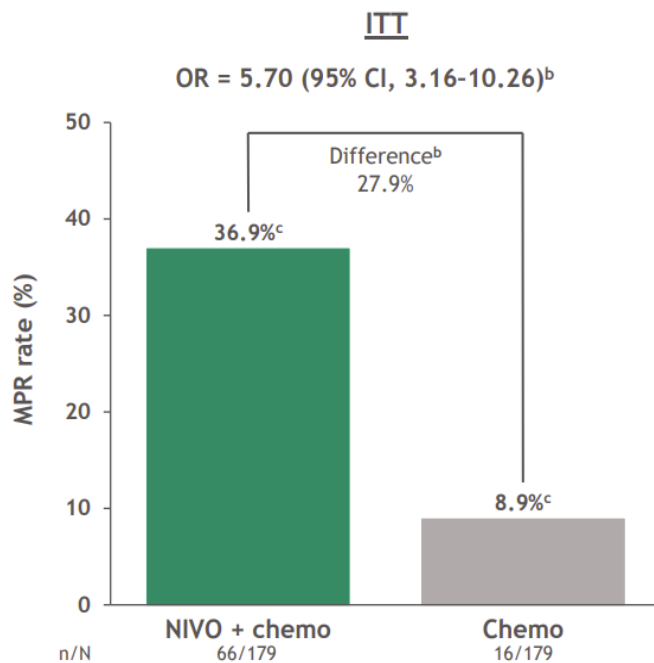
Primary endpoint: pCR^a rate with neoadjuvant NIVO + chemo vs chemo

Primary endpoint: ITT (ypT0N0)^b



CheckMate 816: pCR with neoadjuvant NIVO + chemo in resectable NSCLC

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.

CheckMate 816 Summary—Neoadjuvant Nivolumab Plus Chemotherapy vs Chemotherapy for Resectable NSCLC

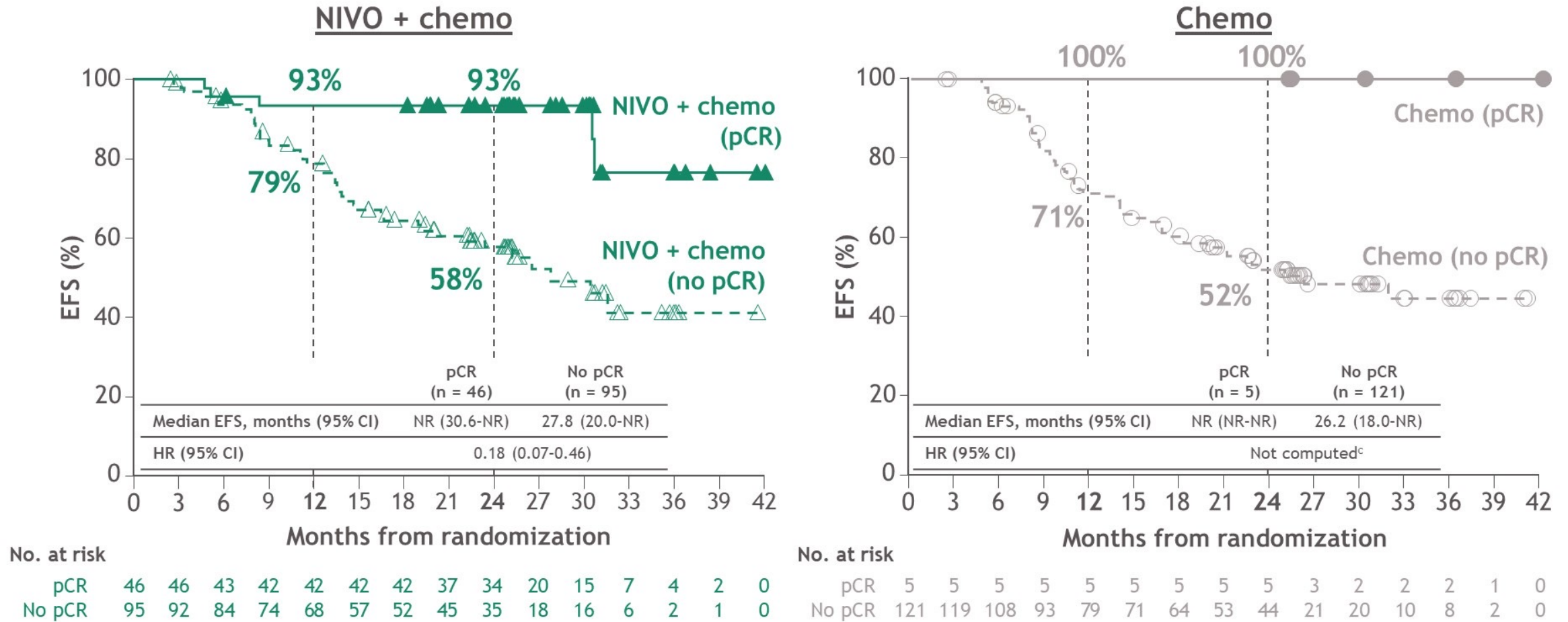


- CheckMate 816 showed a statistically significant improvement in the primary endpoint of pCR (OR = 13.94 [99% CI, 3.49–55.75]; $P < .0001$), and benefit was consistent across disease stages, histologies, TMB, and PD-L1 expression levels
 - MPR and ORR were also improved
 - The study reportedly also now positive for EFS
- The addition of neoadjuvant nivolumab to chemotherapy maintained a tolerable safety profile and did not impede the feasibility of surgery
- In an exploratory subset analysis, ctDNA clearance was more frequent with nivolumab plus chemotherapy vs chemotherapy alone and appeared to be associated with pCR
- CheckMate 816 is the first phase III study to show the benefit of neoadjuvant immunotherapy plus chemotherapy combination for resectable NSCLC

Abbreviations: ctDNA, circulating tumor DNA; EFS, event-free survival; MPR, major pathologic response; NSCLC, non-small cell lung cancer; ORR, objective response rate; pCR, pathologic complete response; TMB, tumor mutational burden.

Forde PM, et al. Abstract CT003. Presented at: 2021 AACR; April 10–15, 2021.

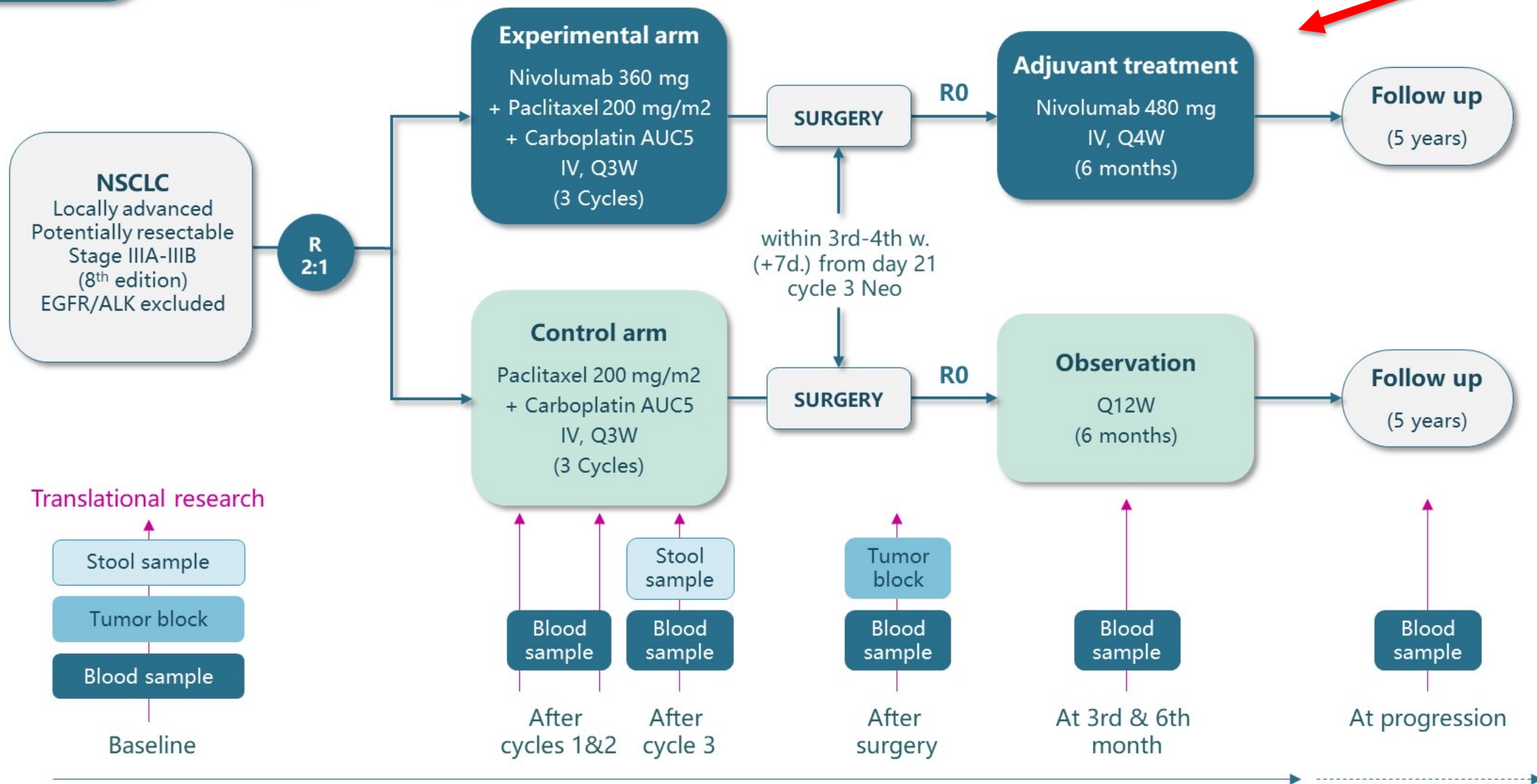
EFS by pCR status^a (primary tumor) in the path-evaluable patient population



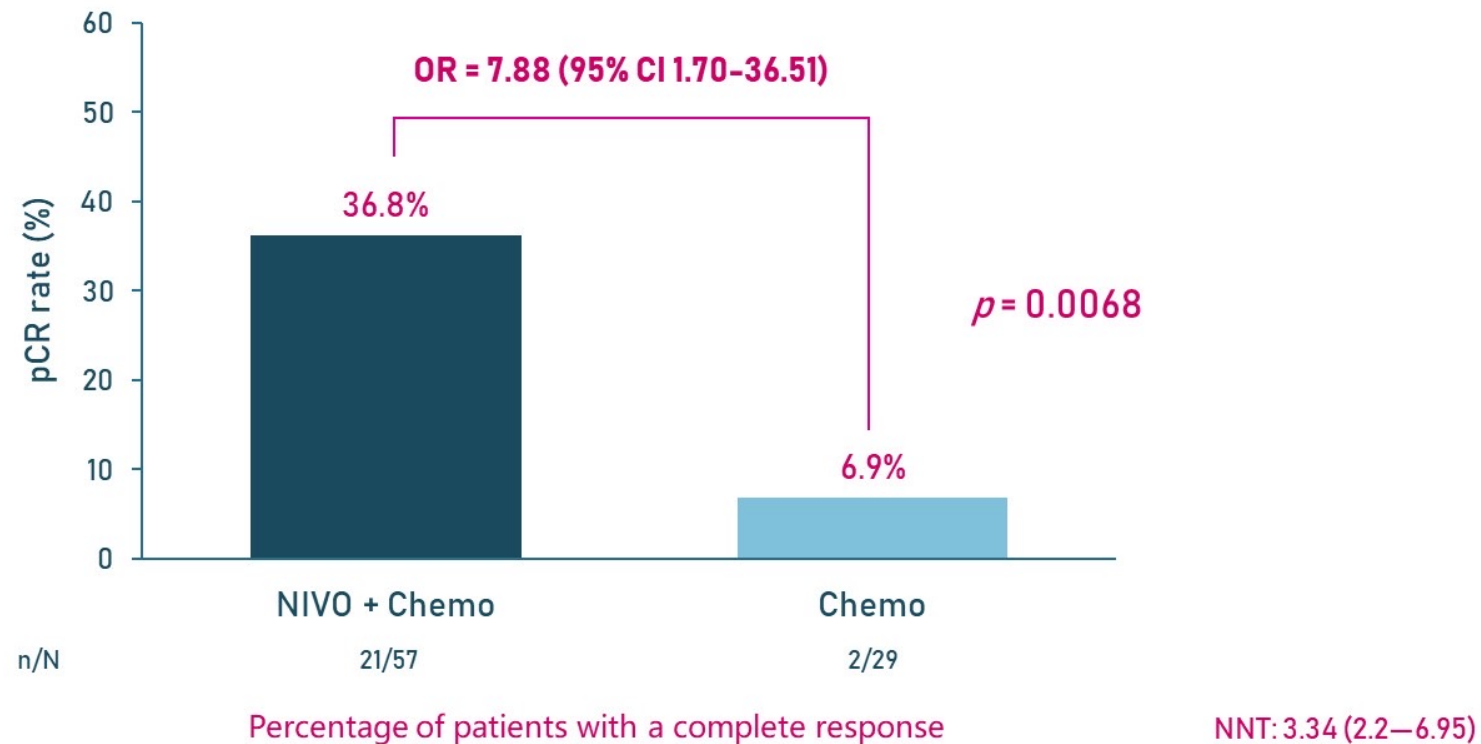
- EFS was also improved in patients with MPR^b in the primary tumor compared with those without; HR (95% CI) was 0.26 (0.14-0.50) for NIVO + chemo and 0.48 (0.22-1.05) for chemo, respectively

Minimum follow-up: 21 months; median follow-up: 29.5 months.

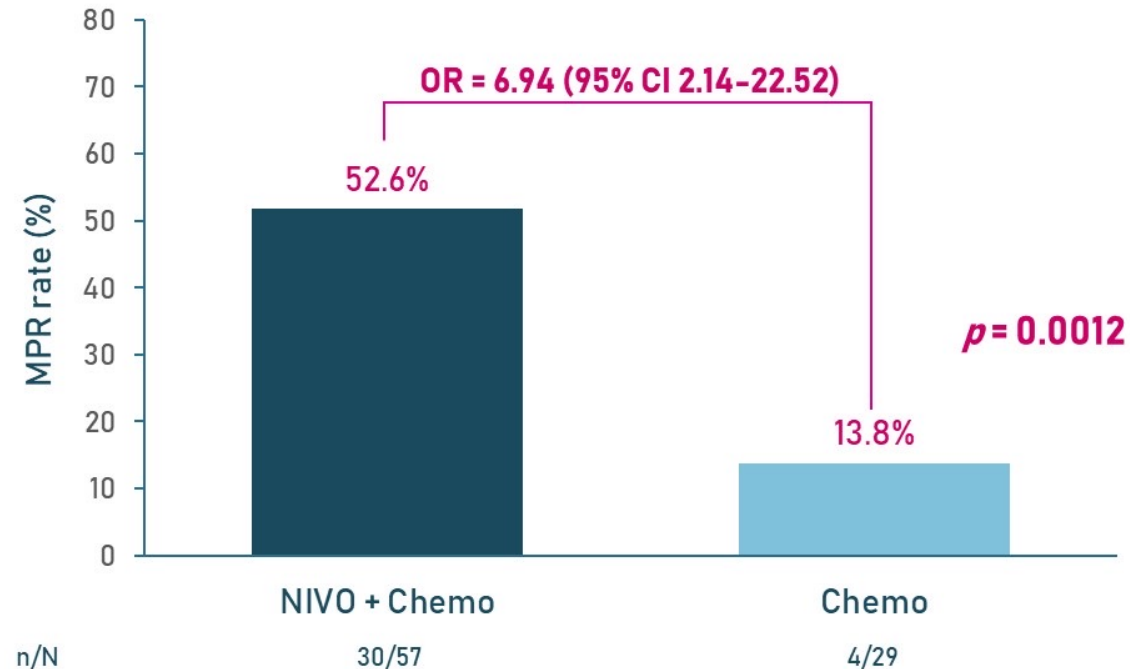
^apCR: 0% RVT cells in the primary tumor in the path-evaluable patient population (patients who underwent surgery and had pathologically evaluable samples); ^bMPR: ≤ 10% RVT cells in the primary tumor in the path-evaluable patient population; ^cHR was not computed for the chemo arm due to only 5 patients having a pCR.



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

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

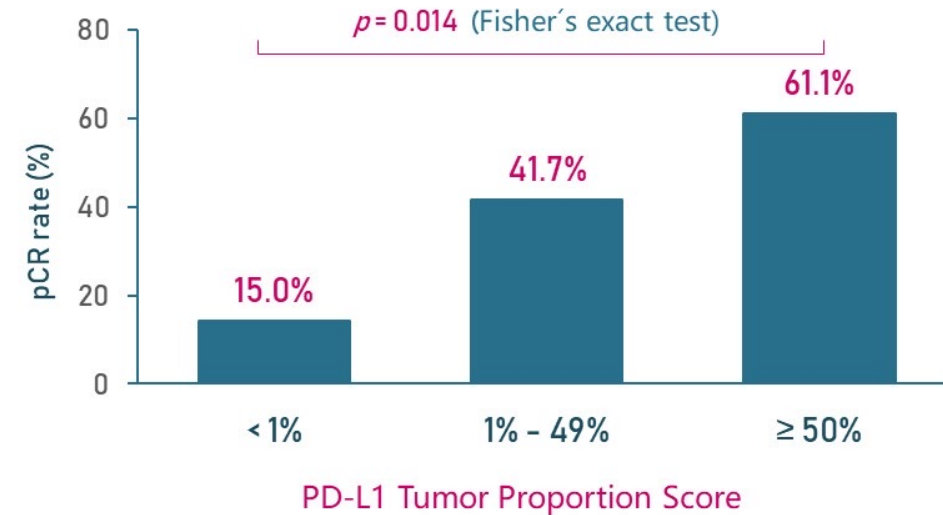
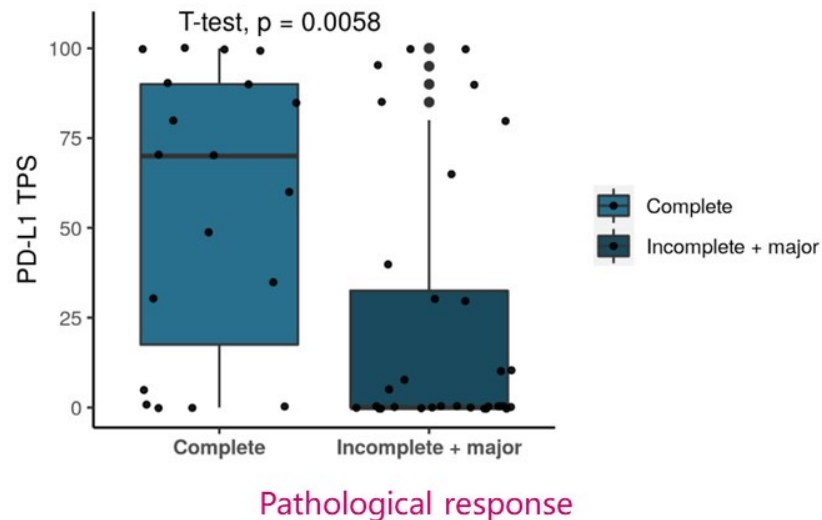
Percentage of patients with a complete response or a major response

NNT: 2.57 (1.76-4.81)

^aMPR was defined as $\leq 10\%$ 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

Predictive biomarkers of response (pCR)^a to neoadjuvant NIVO + CT (ITT population)^b

- Patients who achieved pCR had higher PD-L1 expression than patients who did not
- pCR rate raised across increasing categories of PD-L1 TPS
- Predictive value of PD-L1 TPS for pCR was AUC 0.728 (95% CI 0.58-0.87; $p = 0.001$)
- **OR** for pCR in the PD-L1 positive group ($\geq 1\%$): **16.0** (95% CI 1.86-137.61; $p = 0.007$)



^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
IQR, interquartile range; ITT, intention-to-treat; pCR, pathological complete response; TPS, tumor proportion score, RR, risk ratio; PD-L1 positive group defined as $\geq 1\%$ TPS.



IASLC

**2022 World Conference
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NIVOLUMAB + CHEMOTHERAPY vs CHEMOTHERAPY AS NEOADJUVANT TREATMENT FOR RESECTABLE IIIA-B NSCLC

Progression-free survival and overall survival results from the phase 2
NADIM II trial

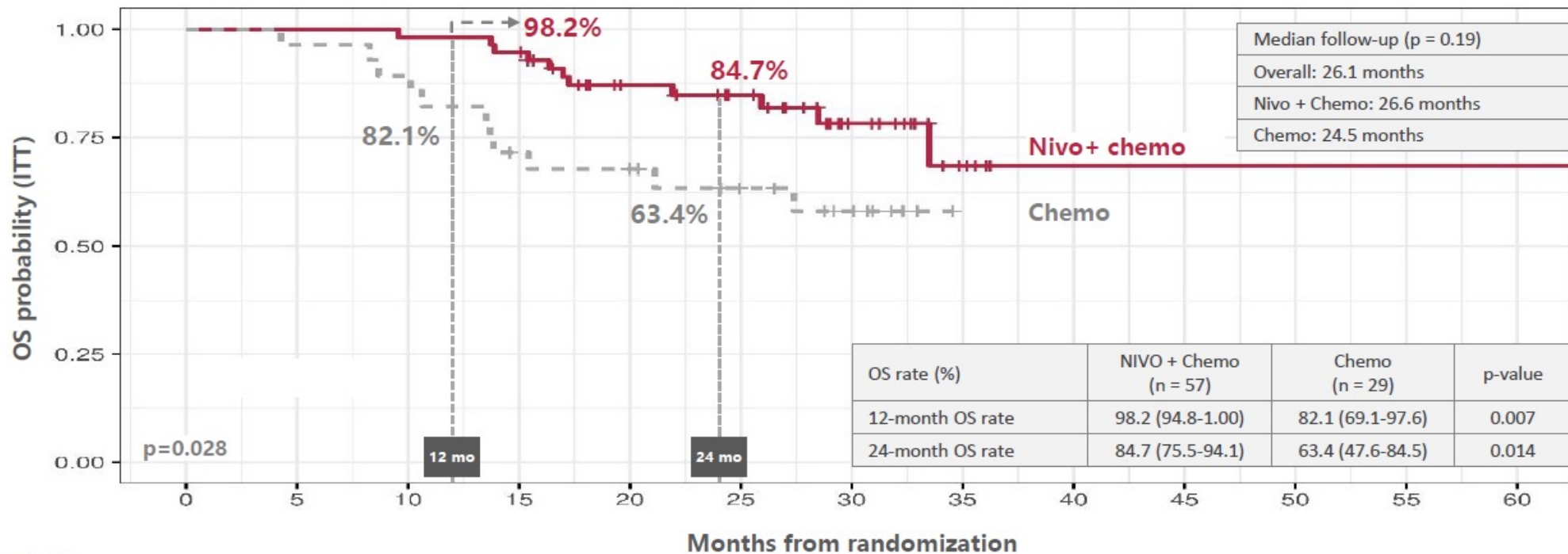
Dr. Mariano Provencio

Hospital Universitario Puerta de Hierro-Majadahonda, Madrid

SPAIN



SECONDARY ENDPOINTS – Overall survival



Number at risk

	0	5	10	15	20	25	30	35	40	45	50	55	60
Nivo + chemo	56	56	55	53	37	31	15	5	1	1	1	1	1
Chemo	28	27	25	19	17	13	9	0	0	0	0	0	0

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

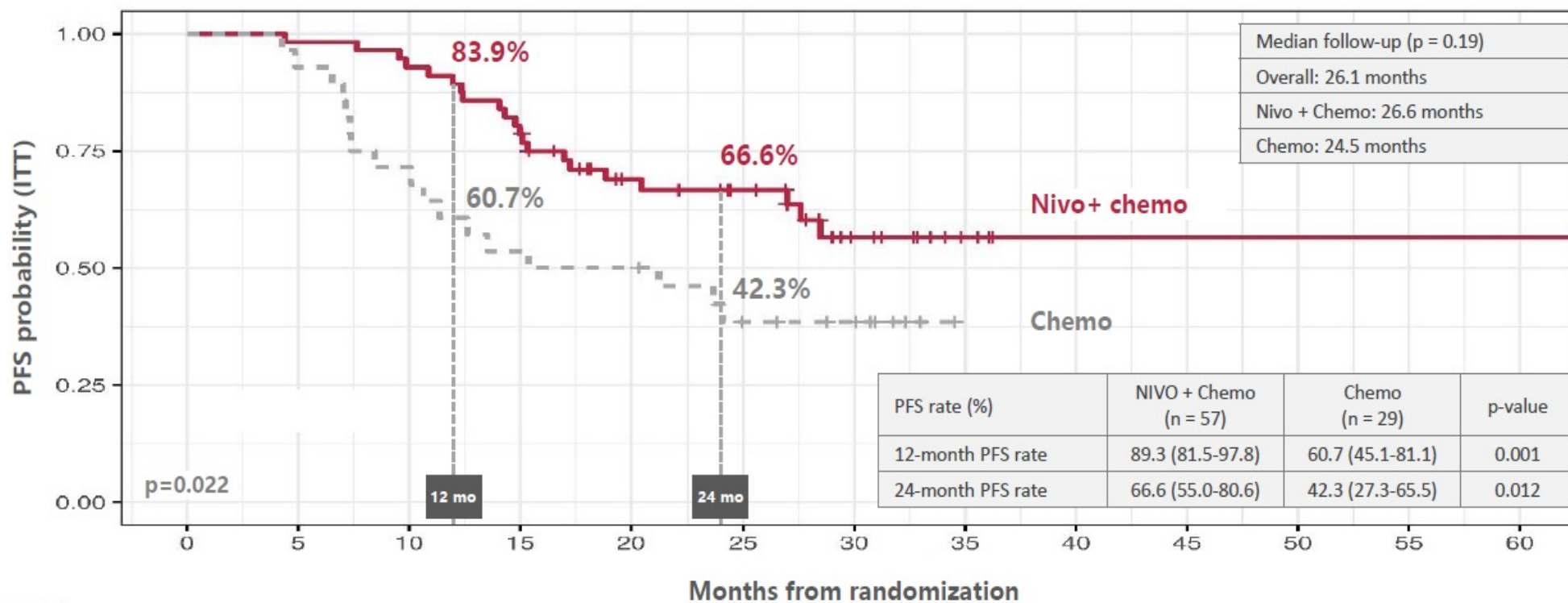


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SECONDARY ENDPOINTS – Progression-free survival



Number at risk

	0	5	10	15	20	24 mo	30	35	40	45	50	55	60
Nivo + chemo	56	55	52	44	30	24	11	4	1	1	1	1	1
Chemo	28	26	20	15	14	9	7	0	0	0	0	0	0



ADJUVANT IMMUNOTHERAPY IN NSCLC





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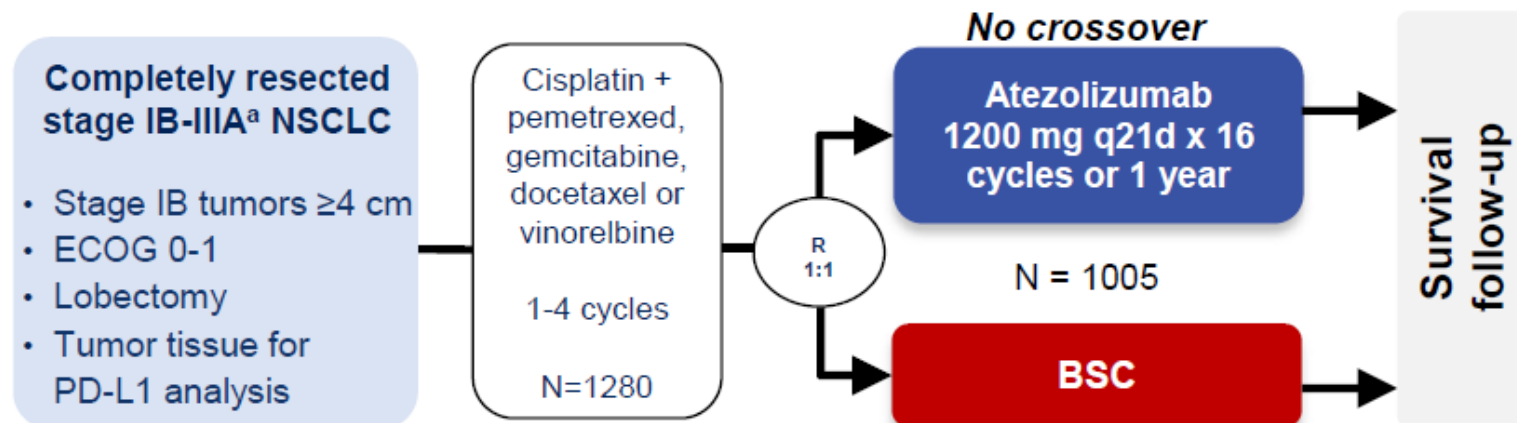


IMpower010: Overall survival interim analysis of a phase III study of atezolizumab vs best supportive care in resected NSCLC

Enriqueta Felip,¹ Nasser Altorki,² Eric Vallieres,³ Ihor O. Vynnychenko,⁴ Andrey Akopov,⁵
Alex Martinez-Marti,¹ Antonio Chella,⁶ Igor Bondarenko,⁷ Shunichi Sugawara,⁸ Yun Fan,⁹
Hirotugu Kenmotsu,¹⁰ Yuh-Min Chen,¹¹ Yu Deng,¹² Meilin Huang,¹² Virginia McNally,¹³
Elizabeth Bennett,¹² Barbara J. Gitlitz,¹² Caicun Zhou,¹⁴ Heather A. Wakelee¹⁵

¹Vall d'Hebron University Hospital, Vall d'Hebron Institute of Oncology (VHIO), Barcelona, Spain; ²NewYork-Presbyterian Hospital, Weill Cornell Medicine, New York, NY, USA; ³Swedish Cancer Institute, Seattle, WA, USA; ⁴Regional Municipal Institution Sumy Regional Clinical Oncology Dispensary, Sumy State University, Sumy, Ukraine; ⁵Pavlov State Medical University, Saint Petersburg, Russia; ⁶Pneumology Unit, Azienda Ospedaliero Universitaria Pisana, Pisa, Italy; ⁷Dnipro State Medical University, Dnipro, Ukraine; ⁸Sendai Kousei Hospital, Miyagi, Japan; ⁹Zhejiang Cancer Hospital, Hanzhou, China; ¹⁰Shizuoka Cancer Center, Shizuoka, Japan; ¹¹Taipei Veterans General Hospital and National Yang Ming Chiao Tung University, Taipei, Taiwan; ¹²Genentech Inc, South San Francisco, CA, USA; ¹³Roche Products Ltd, Welwyn Garden City, United Kingdom; ¹⁴Tongji University Affiliated Shanghai Pulmonary Hospital, Shanghai, China; ¹⁵Stanford University School of Medicine/Stanford Cancer Institute, Stanford, CA, USA.

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

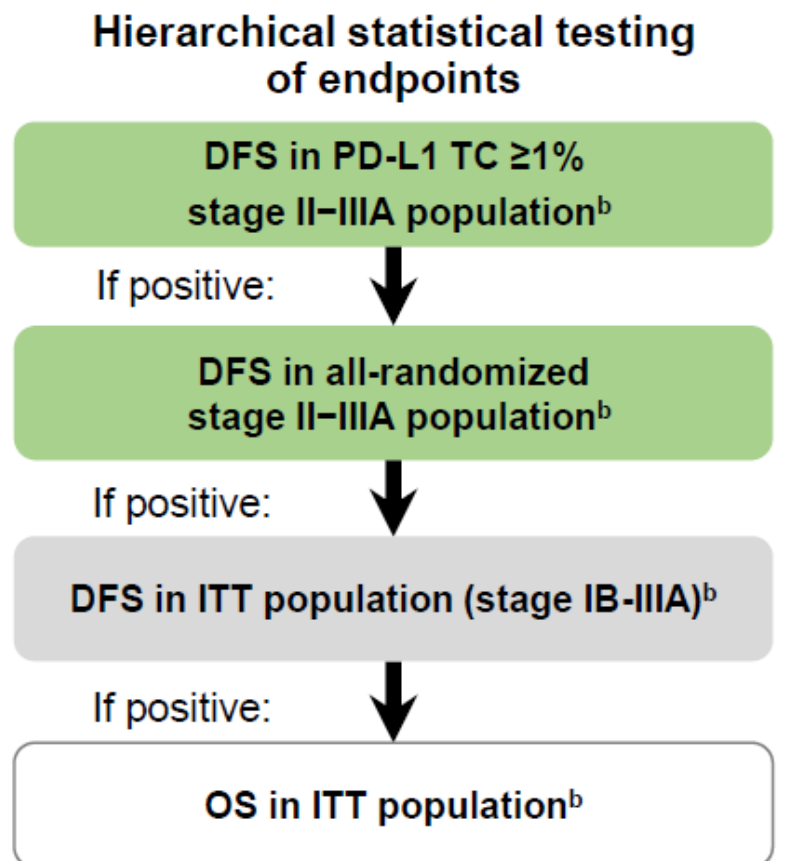
- OS in ITT | DFS in PD-L1 TC $\geq 50\%$ | 3-yr and 5-year DFS

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

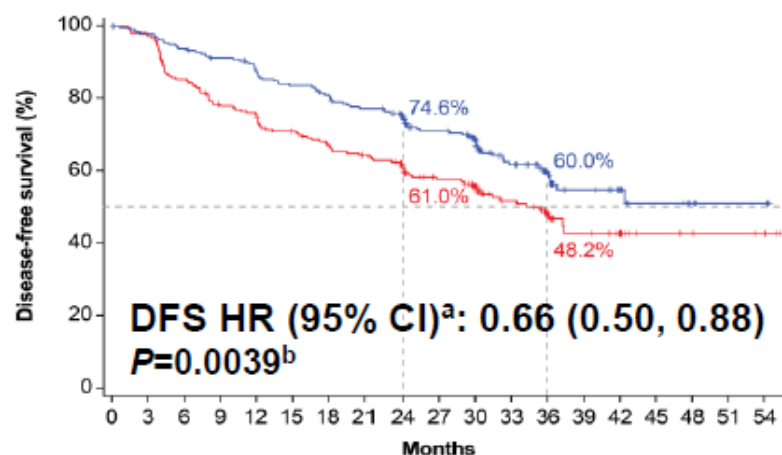
■ Endpoint was not met at DFS IA and follow up is ongoing

□ Endpoint was not formally tested

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

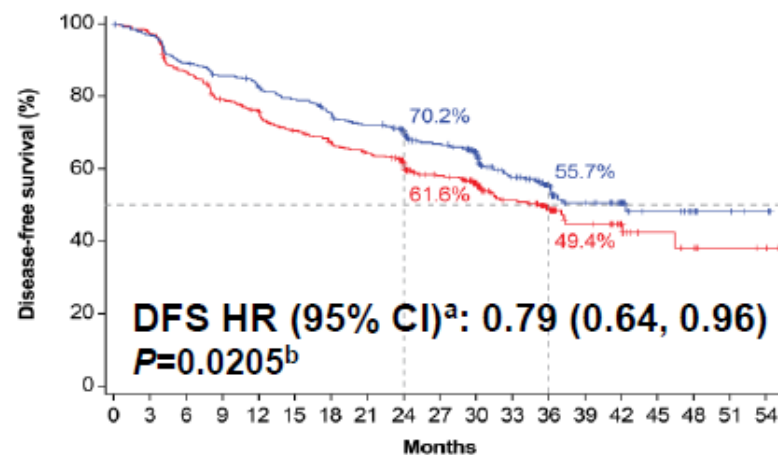
(data cutoff: 21 Jan '21, median follow-up: 32 months)

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



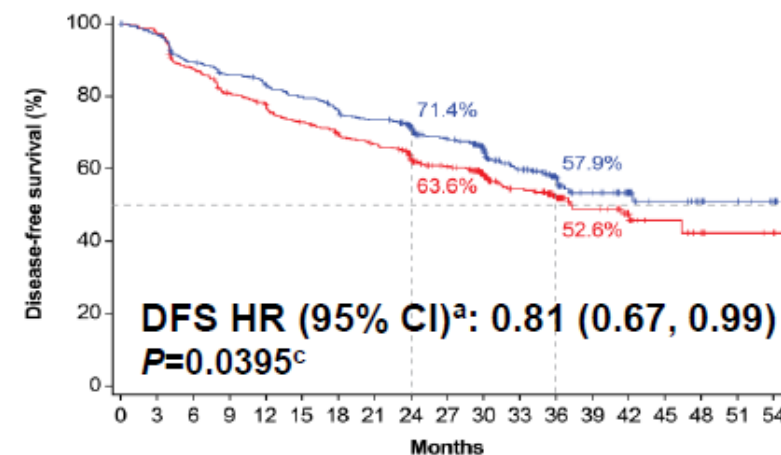
	No. at risk																		
	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54
Atezolizumab	248	235	225	217	206	198	190	181	159	134	111	76	54	31	22	12	8	3	3
BSC	228	212	186	169	160	151	142	135	117	97	80	59	38	21	14	7	6	4	3

**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

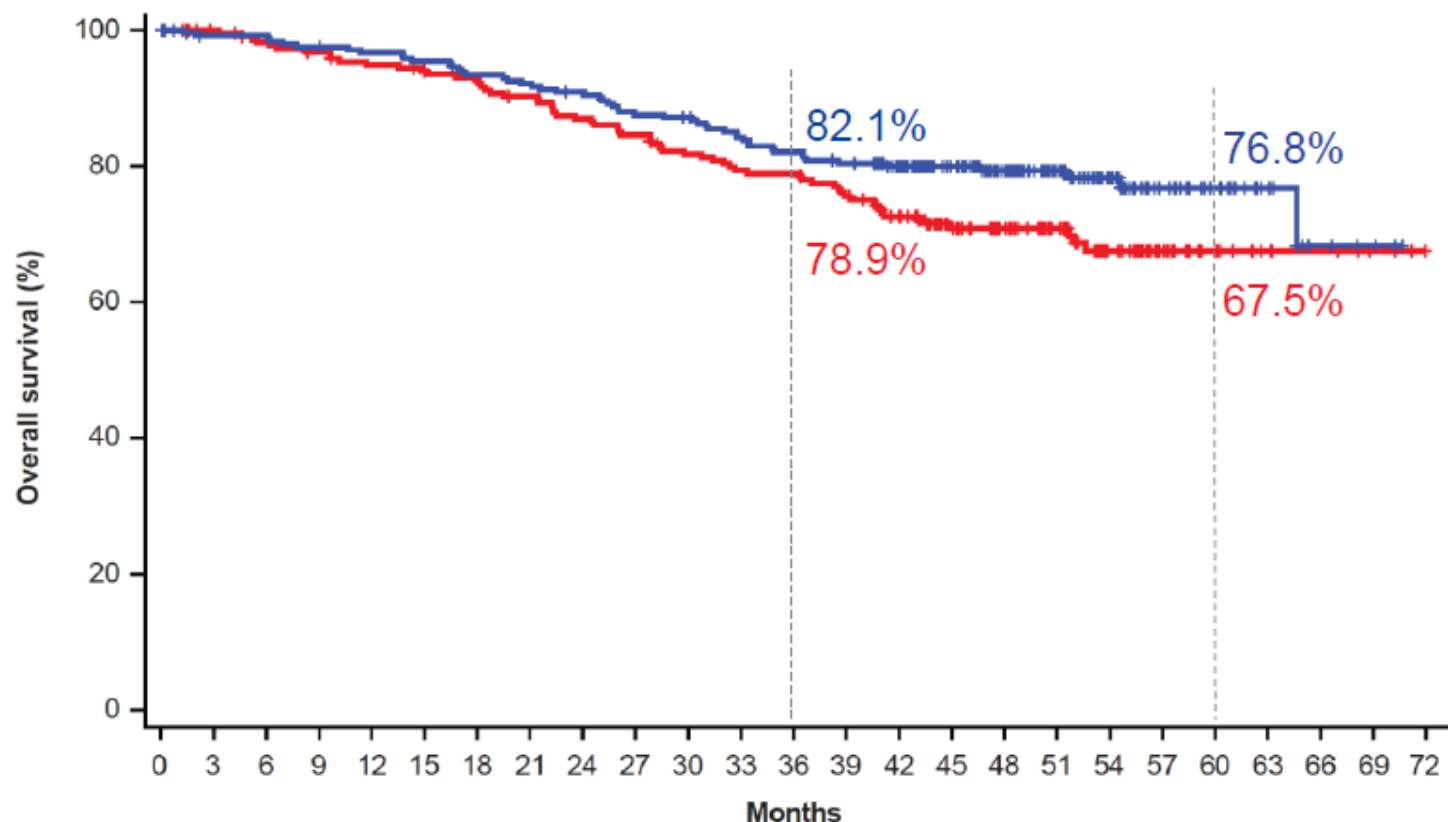
- **OS data** were not mature (event to patient ratio in ITT was 19% in atezolizumab arm, 18% in BSC arm)
 - PD-L1 TC $\geq 1\%$ stage II-IIIa population: OS HR, 0.77 (95% CI: 0.51, 1.17)^a
 - All-randomised stage II-IIIa population: OS HR, 0.99 (95% CI: 0.73, 1.33)^a
 - ITT (randomised stage IB-IIIa)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

Time (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

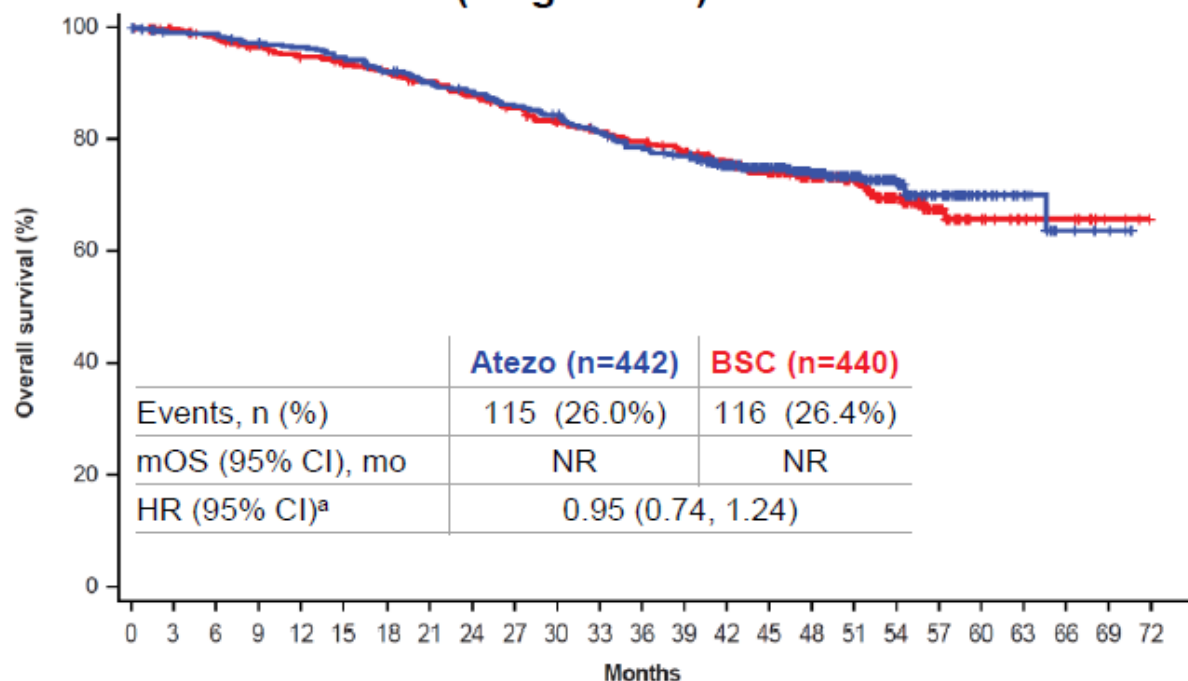
	Atezo (n=248)	BSC (n=228)
Events, n (%)	52 (21.0%)	64 (28.1%)
mOS (95% CI), mo	NR	NR
HR (95% CI) ^b	0.71 (0.49, 1.03)	

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)

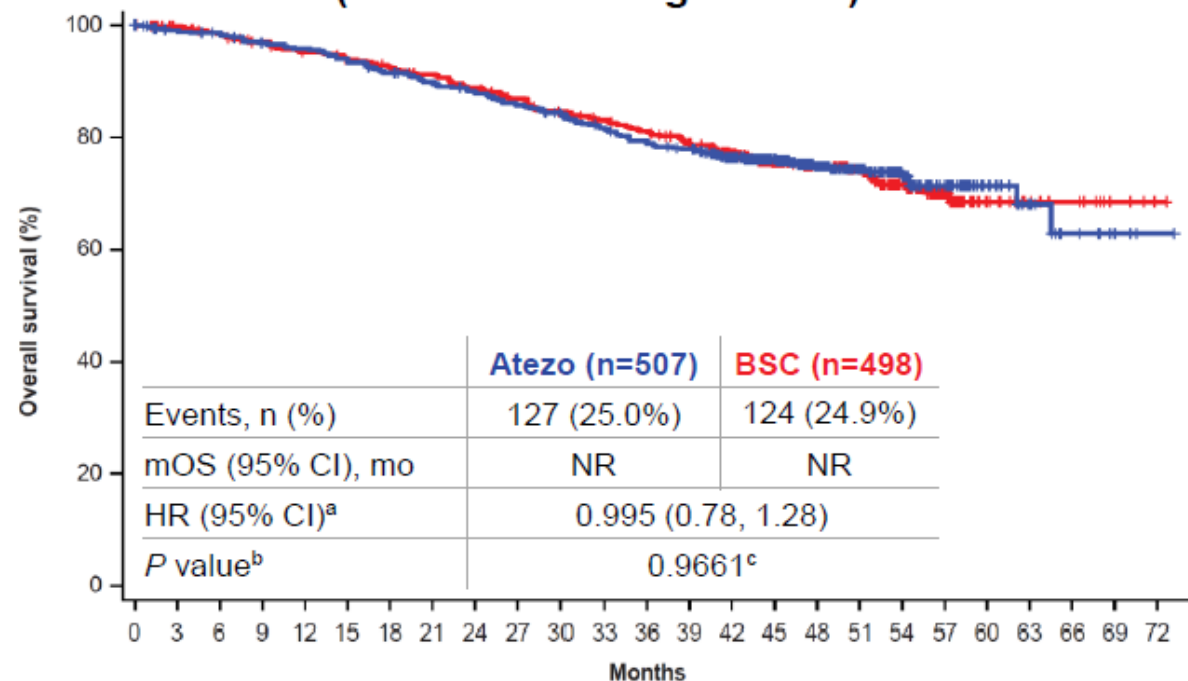
**All randomised
(stage II-III A)**



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

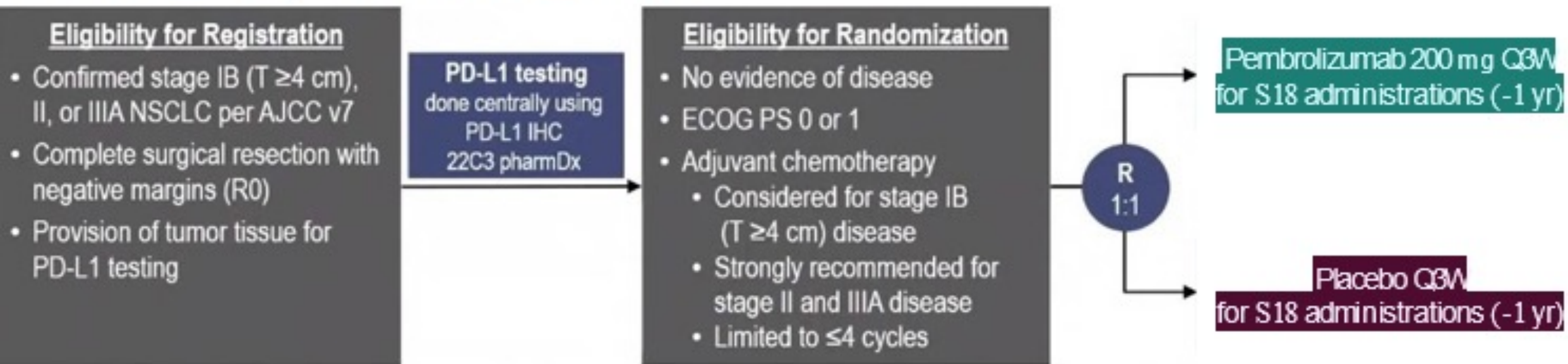
Months	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72
Atezolizumab	507	492	488	478	472	463	450	439	430	419	408	393	381	372	328	262	203	144	96	61	30	17	8	4	1
BSC	498	484	473	462	452	444	437	428	417	405	391	381	371	357	325	253	207	148	101	57	25	14	11	5	1

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

Randomized, Triple-Blind, Phase 3 Trial



Stratification Factors

- Disease stage (I vs II vs IIIA)
- PD-L1 TPS (<1% vs 1-49% vs ≥50%)
- Receipt of adjuvant chemotherapy (yes vs no)
- Geographic region (Asia vs Eastern Europe vs Western Europe vs rest of world)

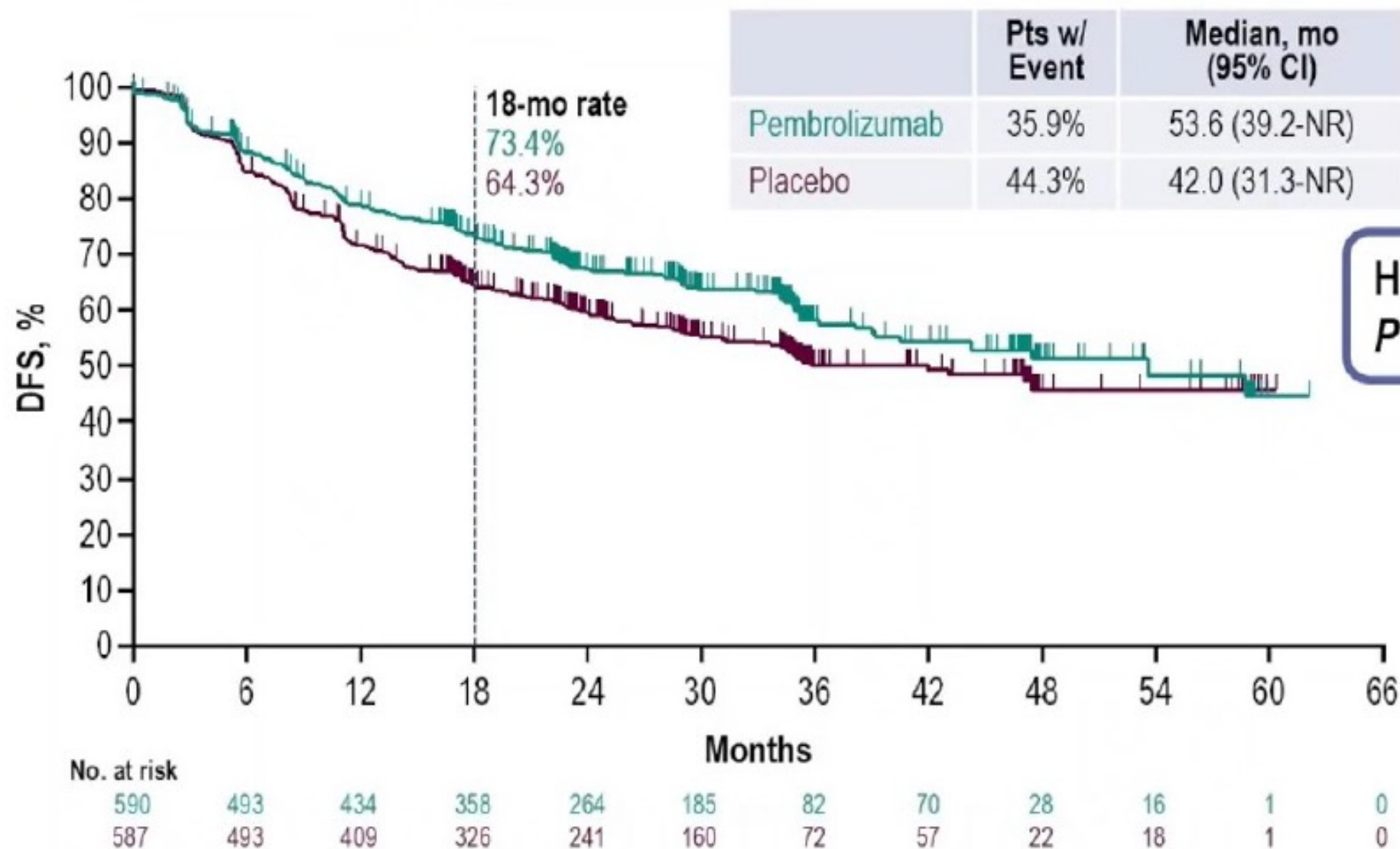
Dual Primary End Points

- DFS in the overall population
- DFS in the PD-L1 TPS ≥50% population

Secondary End Points

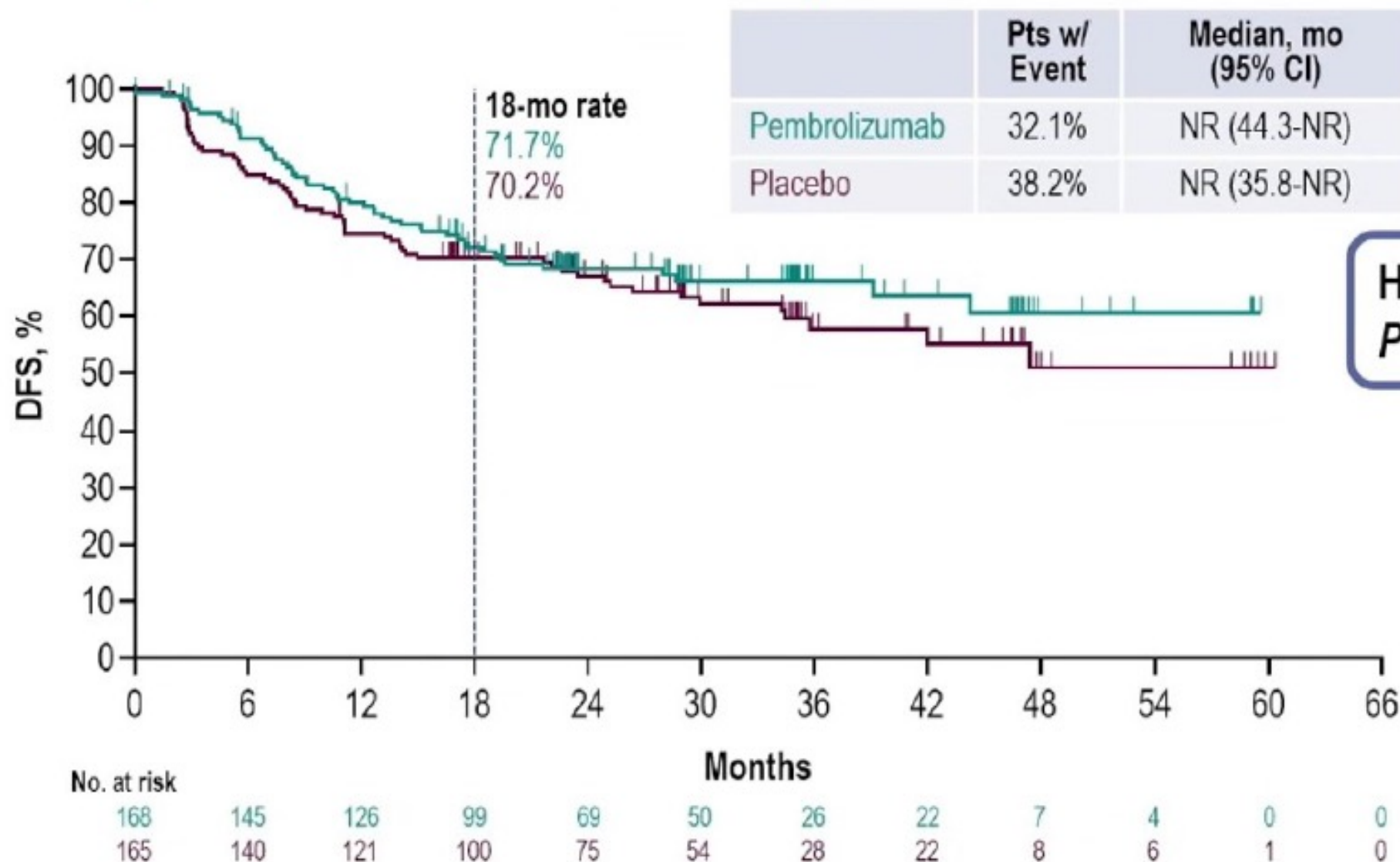
- DFS in the PD-L1 TPS <1% population
- OS in the overall, PD-L1 TPS ≥50%, and PD-L1 TPS <1% populations
- Lung cancer-specific survival in the overall population
- Safety

DFS, Overall Population

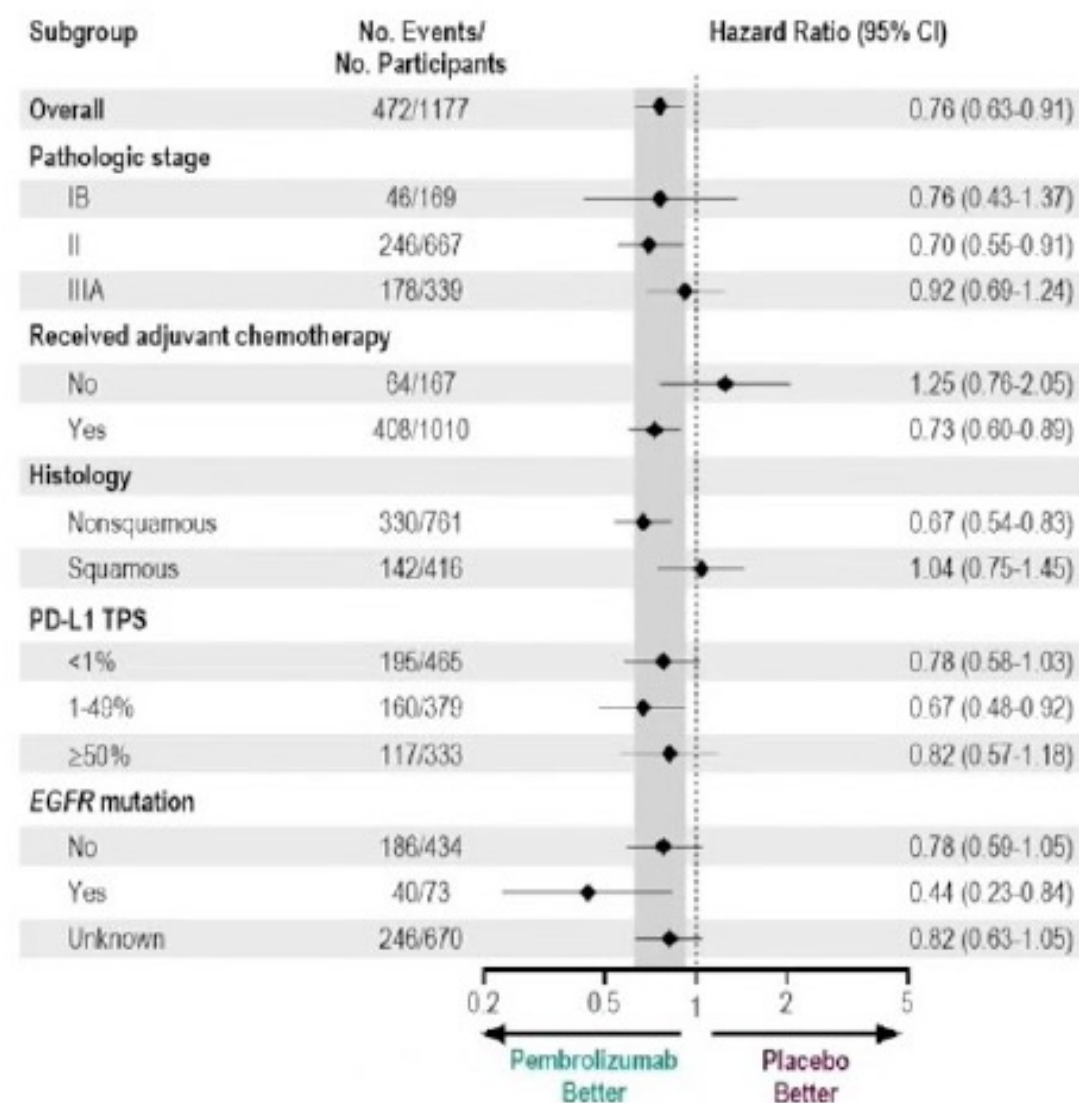
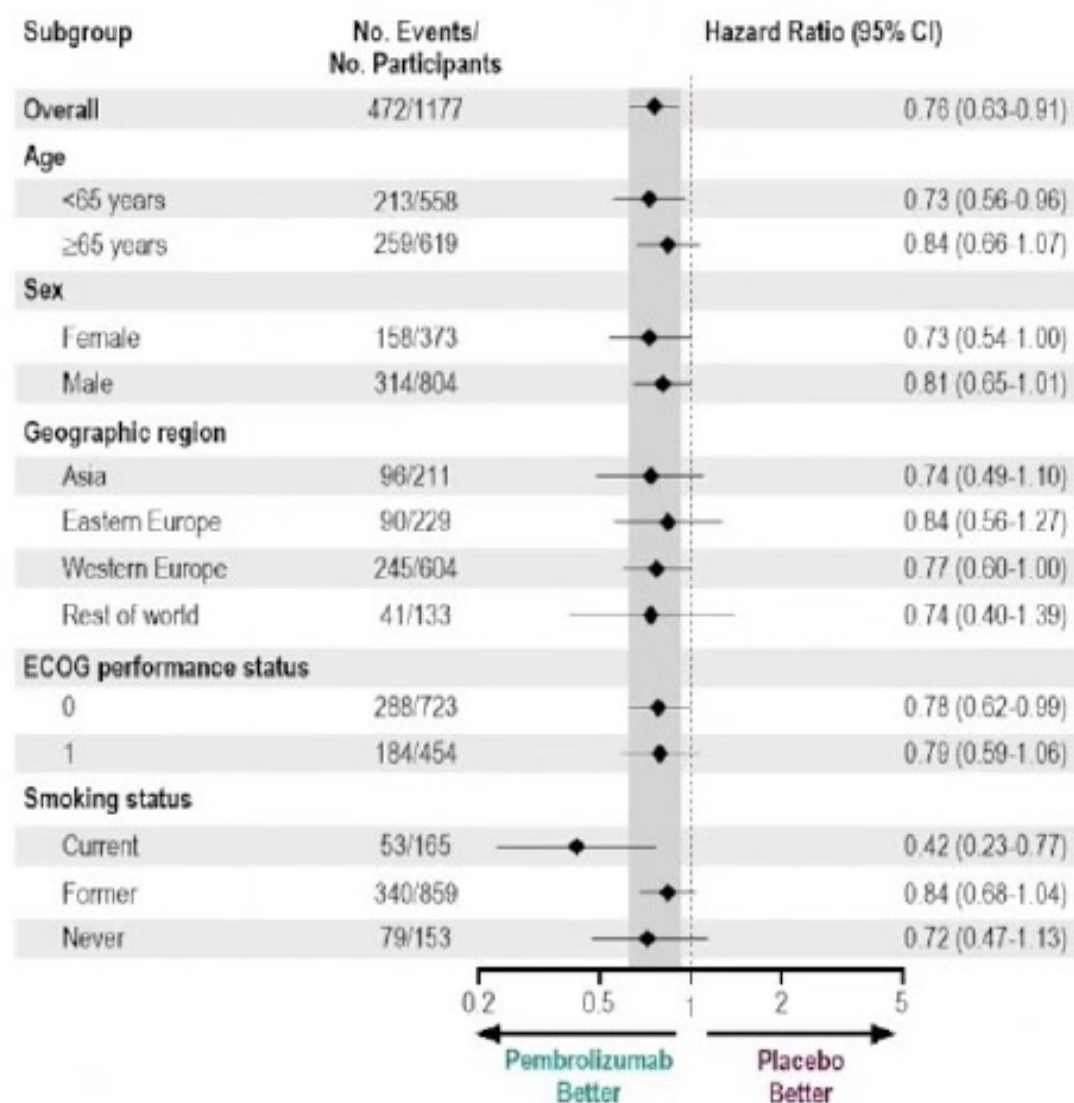


HR 0.76 (95% CI, 0.63-0.91)
P = 0.0014

DFS, PD-L1 TPS $\geq 50\%$ Population



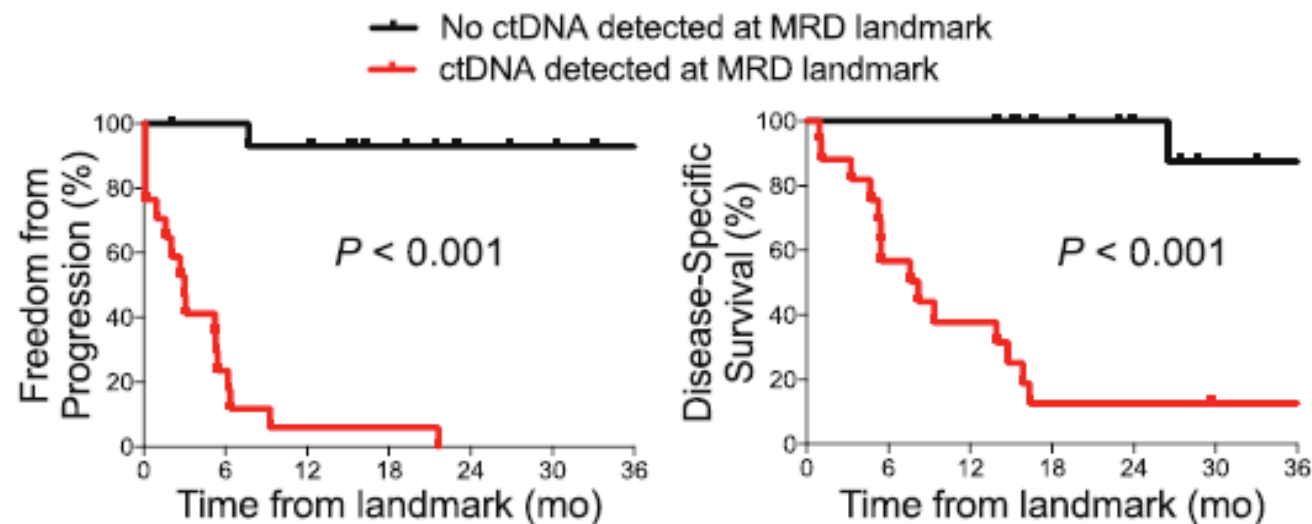
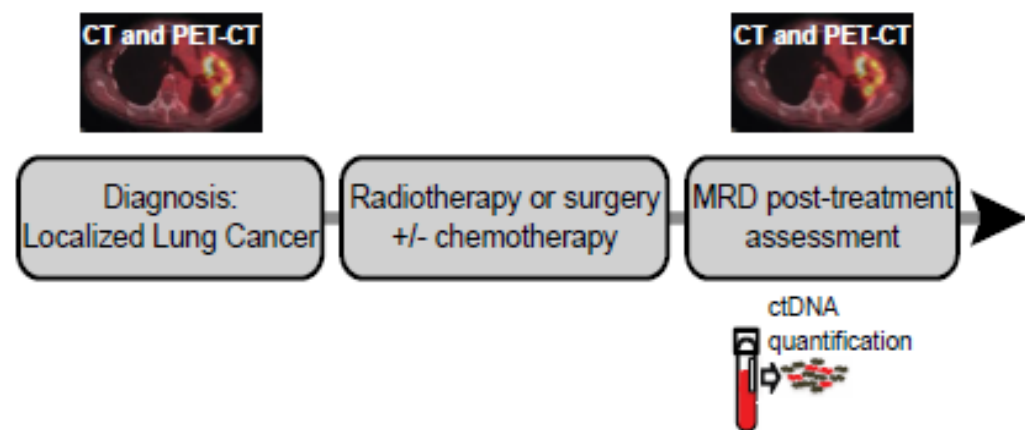
DFS in Key Subgroups, Overall Population



Summary and Conclusions

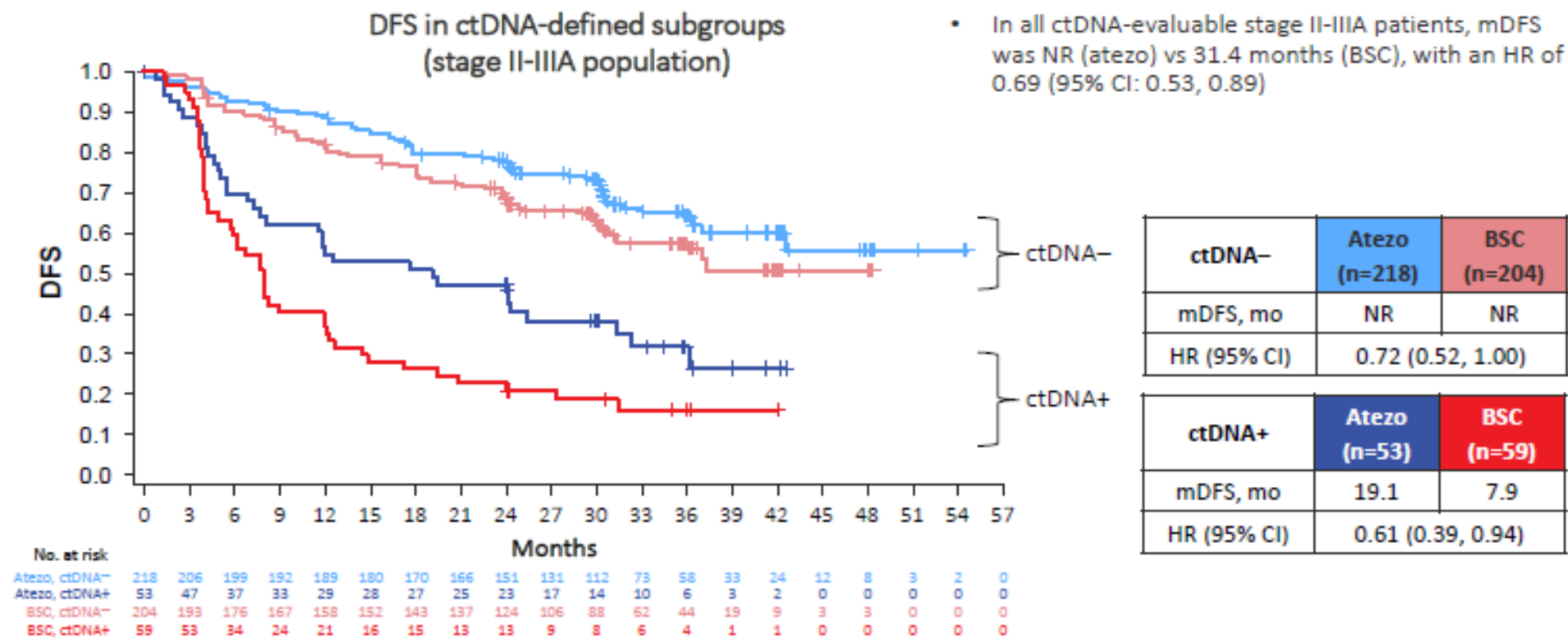
- Pembrolizumab provided statistically significant, clinically meaningful DFS improvement versus placebo in the overall population
 - Median DFS of 53.6 months with pembrolizumab vs 42.0 months with placebo (HR, 0.76)
 - Generally consistent DFS benefit in participants with PD-L1 TPS <1%, 1-49%, and ≥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**

ctDNA Minimal Residual Disease in Localized Lung Cancer



Residual ctDNA after completion of therapy is associated with an extremely high risk of recurrence

IMpower010 ctDNA MRD Analysis



Benefit of consolidation immunotherapy is strongest in ctDNA-positive patients

ALLIANCE FOR CLINICAL TRIALS IN ONCOLOGY
ALLIANCE A081801
INTEGRATION OF IMMUNOTHERAPY INTO ADJUVANT THERAPY
FOR RESECTED NSCLC: ALCHEMIST CHEMO-IO

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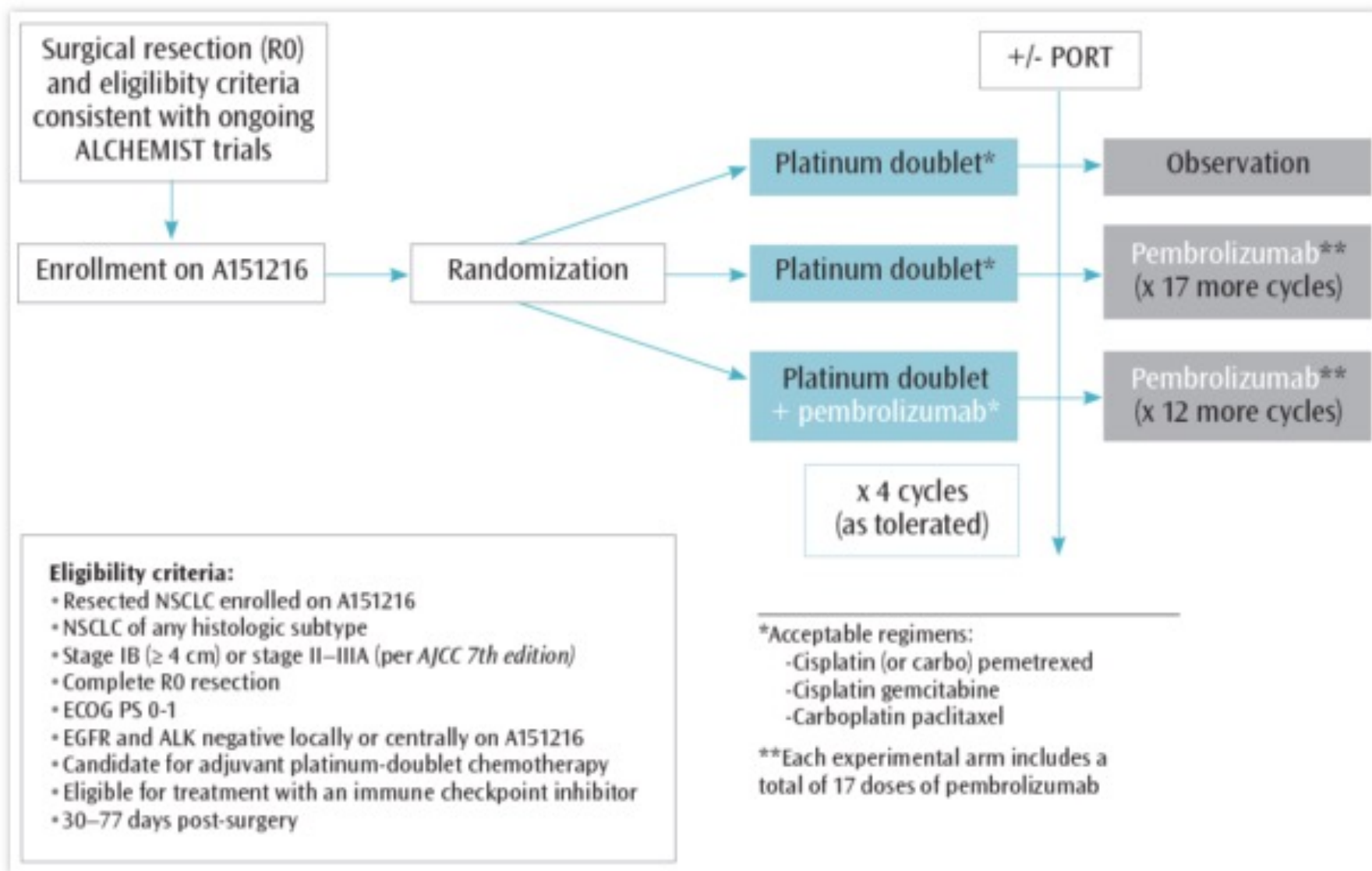
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Figure 1. Schema: ALCHEMIST CHEMO-IO





Pre-operative vs. Postoperative IO: General considerations

- **Both have the disadvantage that you are treating a lot of people who may be cured by surgery alone with expensive drugs for a long time**
 - No robust biomarkers for relapse or benefit from IO
- **Postoperative:**
 - No delay or potential interference with the most effective regimen (surgery)
 - Longest experience, more accurate staging
 - Patients/surgeons don't like to delay surgery
- **Preoperative:**
 - Ability to assess antitumor efficacy of the intervention, – may not need postoperative IO if pCR
 - Early systemic therapy
 - Intact nodal drainage and tumor might be a benefit for immunity/IO therapy
 - Access to pre- and post biospecimens for research

PACIFIC: Study Design

Phase III, Randomized, Double-Blind, Placebo-Controlled, Multicenter, International Study

- Patients with Stage III, locally advanced, unresectable NSCLC who have not progressed following definitive platinum-based cCRT (≥ 2 cycles)
- 18 years or older
- WHO PS score 0 or 1
- Estimated life expectancy of ≥ 12 weeks

All-comers population

1-42 days post-CRT

R

**Durvalumab
10 mg/kg q2w for
up to 12 months
N=476**

2:1 randomization,
stratified by age, sex,
and smoking history
N=713

**Placebo
N=237**

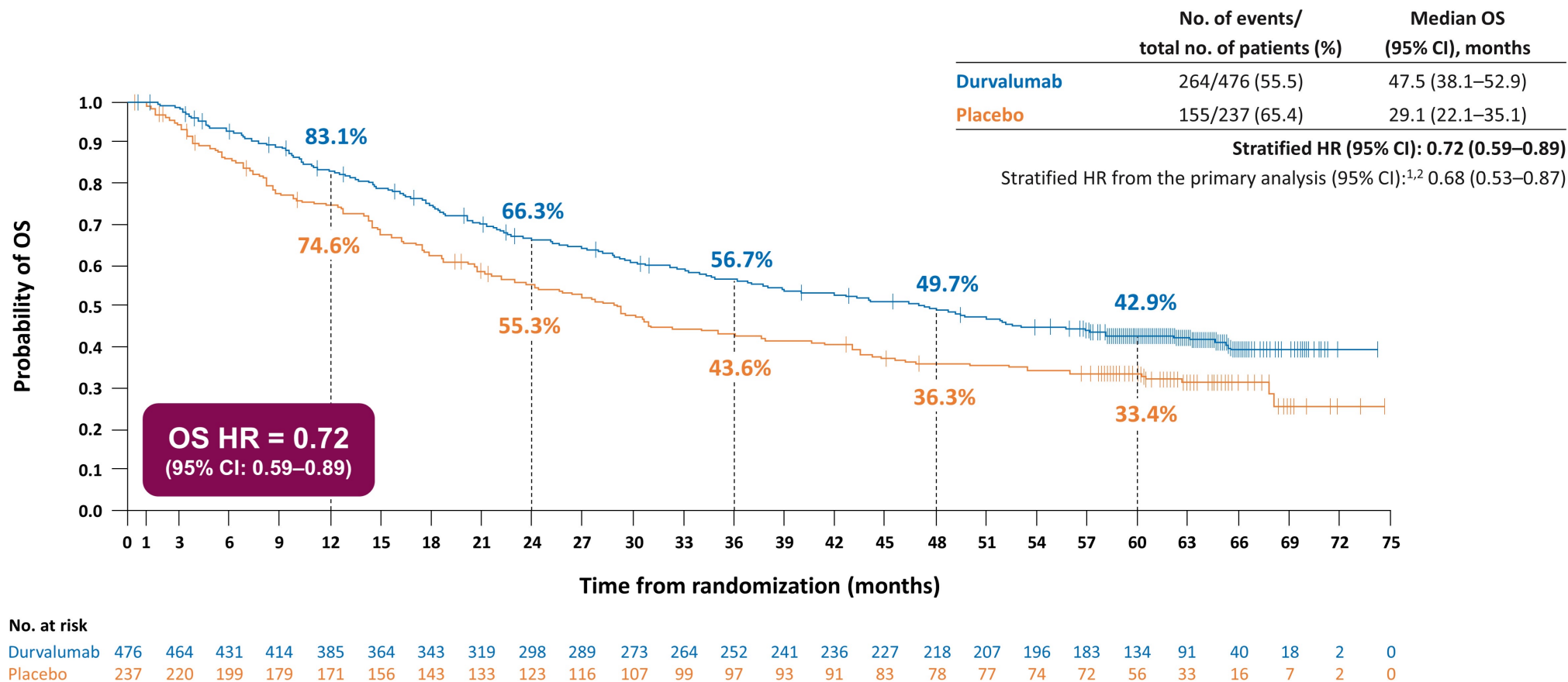
Co-primary endpoints

- PFS by BICR using RECIST v1.1*
- OS

Key secondary endpoints

- ORR (per BICR)
- DoR (per BICR)
- Safety and tolerability
- PROs

Updated OS (ITT)



Data cutoff: 11 January 2021 (median follow-up: all patients, 34.2 months [range, 0.2–74.7]; censored patients, 61.6 months [range, 0.4–74.7]).
 1. Antonia SJ, et al. New Engl J Med 2018;379:2342–50; 2. European Medicines Agency. Durvalumab (Imfinzi). Summary of product characteristics 2020.
 Available from: https://www.ema.europa.eu/en/documents/product-information/imfinzi-epar-product-information_en.pdf. [Accessed April 2021]

CI, confidence interval; HR, hazard ratio; ITT, intent-to-treat; OS, overall survival

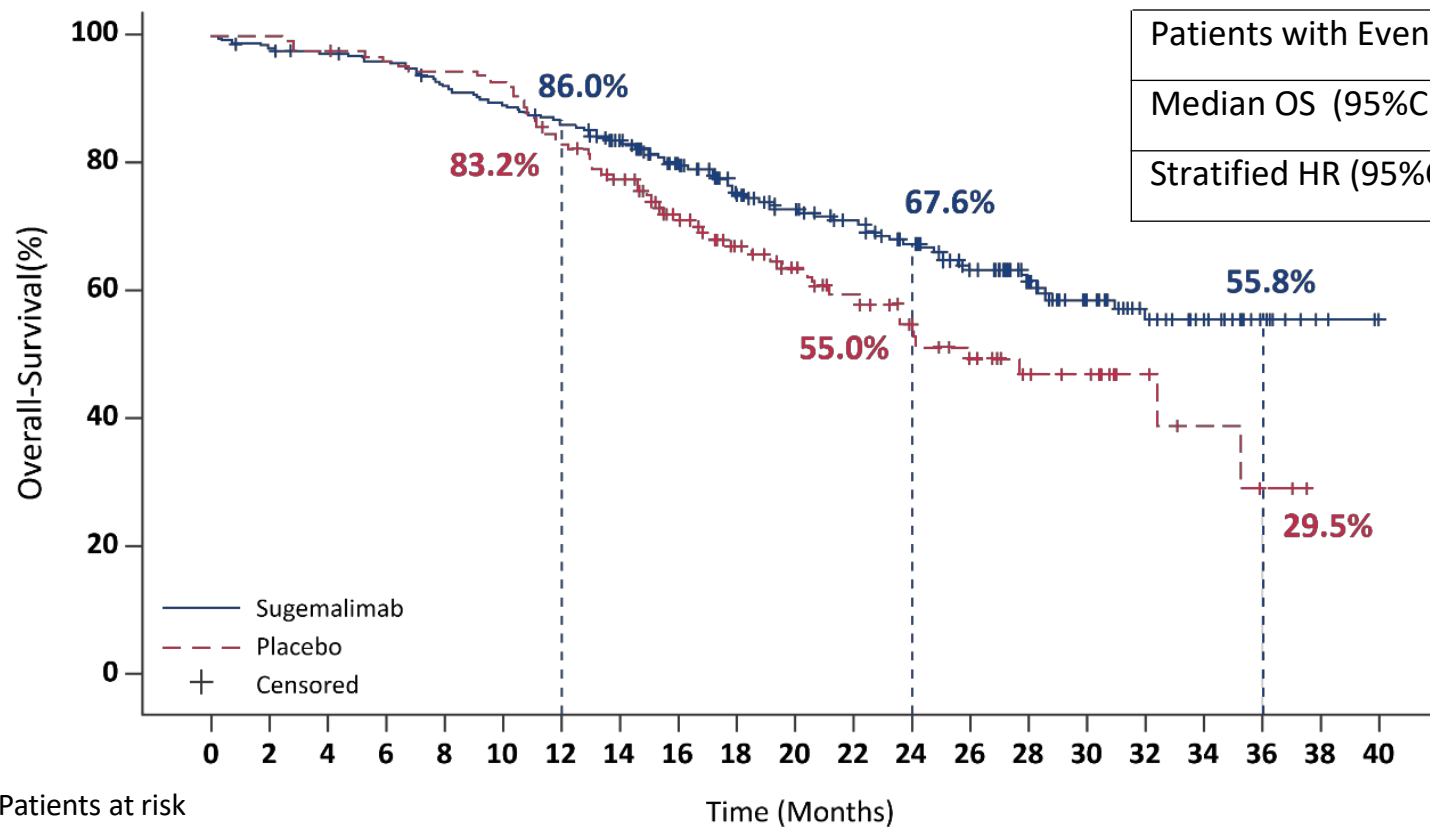


2022 World Conference on Lung Cancer

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Overall Survival



	Sugemalimab	Placebo
Patients with Event, %	33.3%	42.9%
Median OS (95%CI), months	NR (31.0, NR)	25.9 (21.2, NR)
Stratified HR (95%CI)	0.69 (0.49, 0.97)	

Median follow-up time **27.1** vs **23.5** months
 OS data were immature at the data cutoff date,
 no formal analysis was performed

Patients at risk
 Subjects at risk

Sugemalimab	255	249	245	241	230	223	214	199	172	146	131	119	107	87	69	49	34	25	12	3	0
Placebo	126	126	123	120	118	116	103	93	74	61	51	42	32	26	17	14	7	4	2	0	0

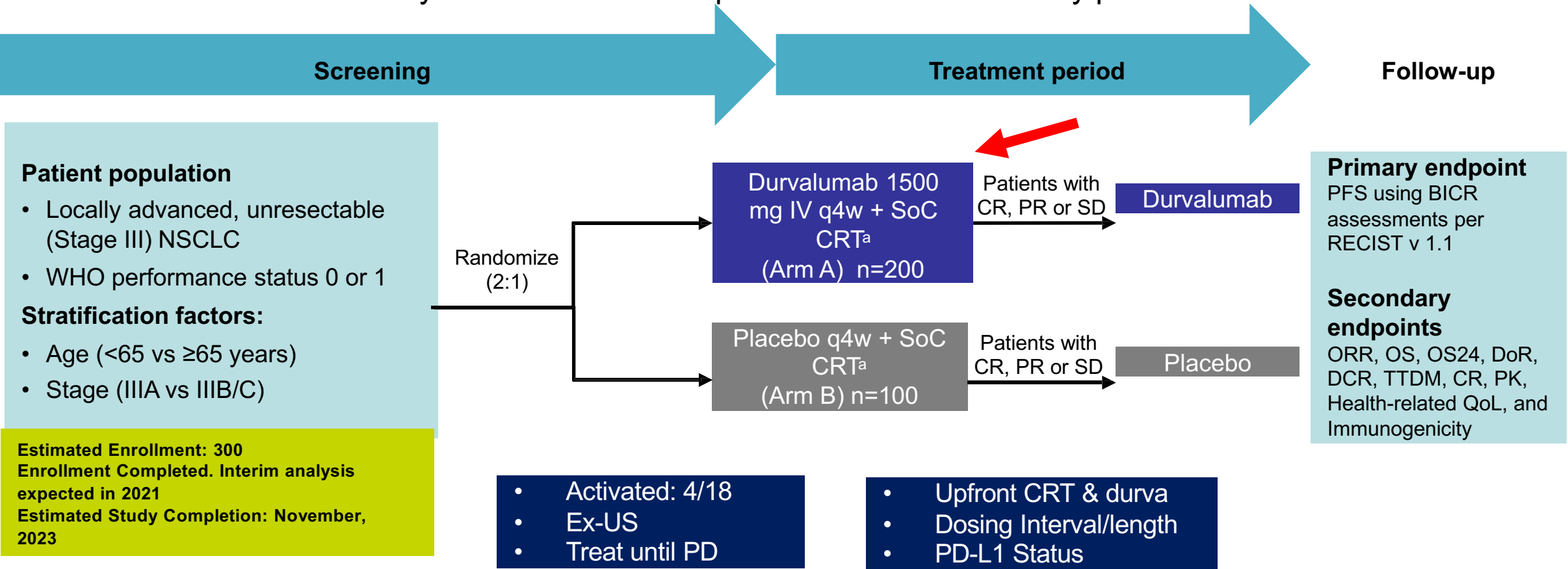
Cutoff date: 1 Mar 2022

NR: not reached

PACIFIC 2 Study Design:

Phase 3, randomized, double-blind, placebo-controlled, multicenter, global study^{1,2}

Durvalumab + CRT followed by durvalumab versus placebo + CRT followed by placebo



^aPlatinum-based chemotherapy regimens include cisplatin/ etoposide, carboplatin/paclitaxel, pemetrexed/cisplatin (nonsquamous only) or pemetrexed/carboplatin (nonsquamous only), alongside radiation therapy (5 fractions/week for ~6 weeks [±3 days; total 60 Gy]).

1. Bradley JD et al. Poster presented at: ASCO Annual Meeting; May 31-June 4, 2019; Chicago, IL. Poster TPS8573; 2. Study NCT03519971. ClinicalTrials.gov website.

How do we incorporate novel agents (NAs) into treatment regimens of unresectable Stage III lung cancer?

