

Congresso Nazionale sul carcinoma del polmone

CARCINOMA DEL POLMONE: QUALI NOVITÀ NEL 2023?

9 OTTOBRE 2023

VERONA

Hotel Leon D'Oro

Responsabile scientifico
STEFANIA GORI



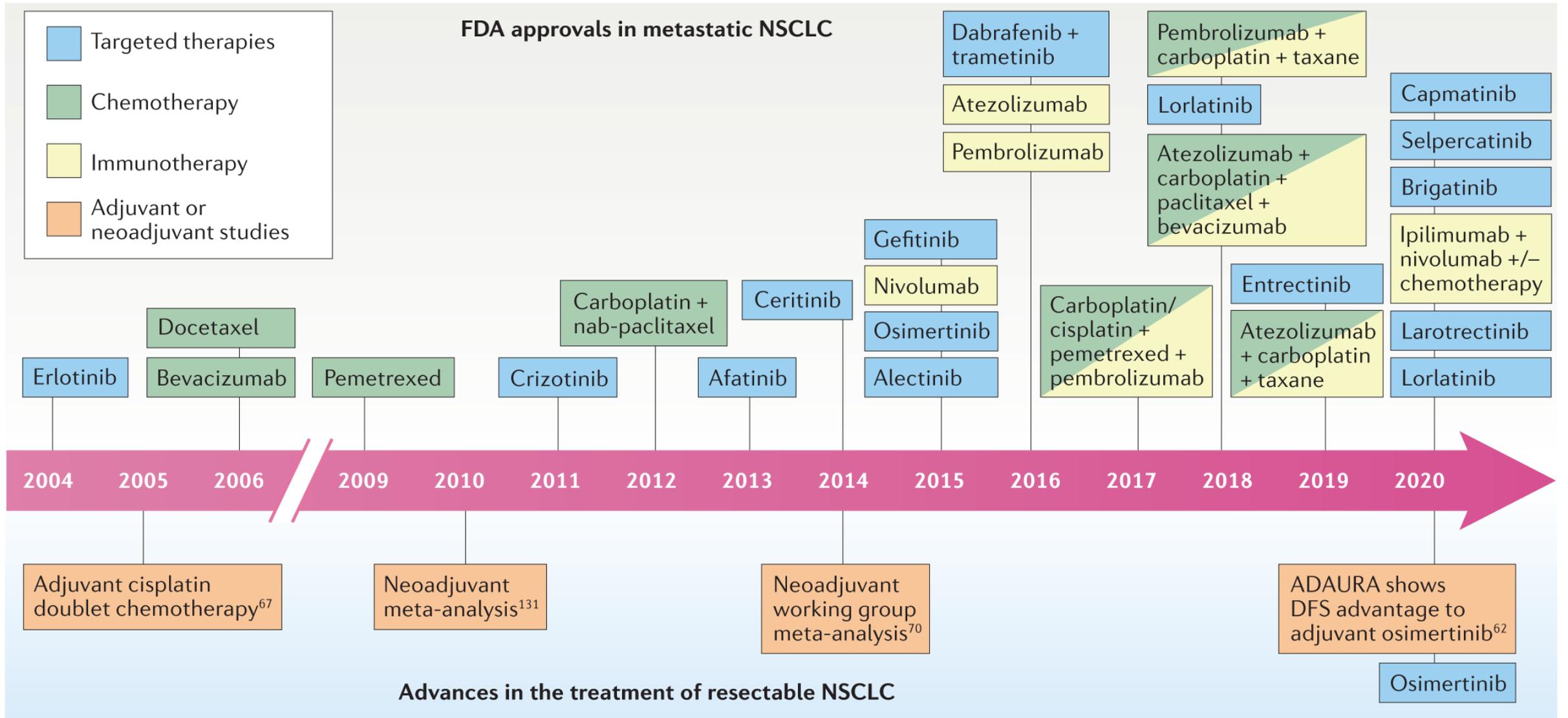
Immunoterapia neoadiuvante: evidenze disponibili e prospettive future



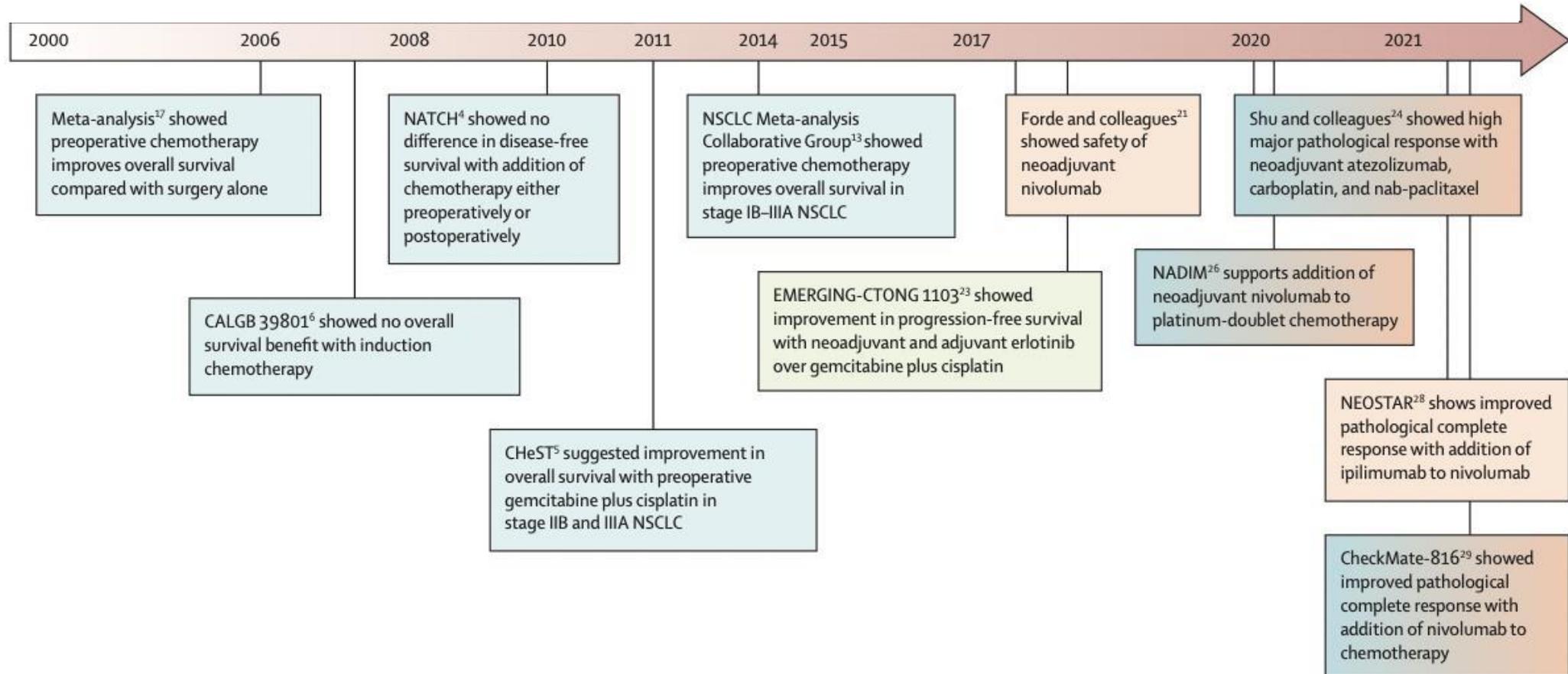
Ettore D'Argento

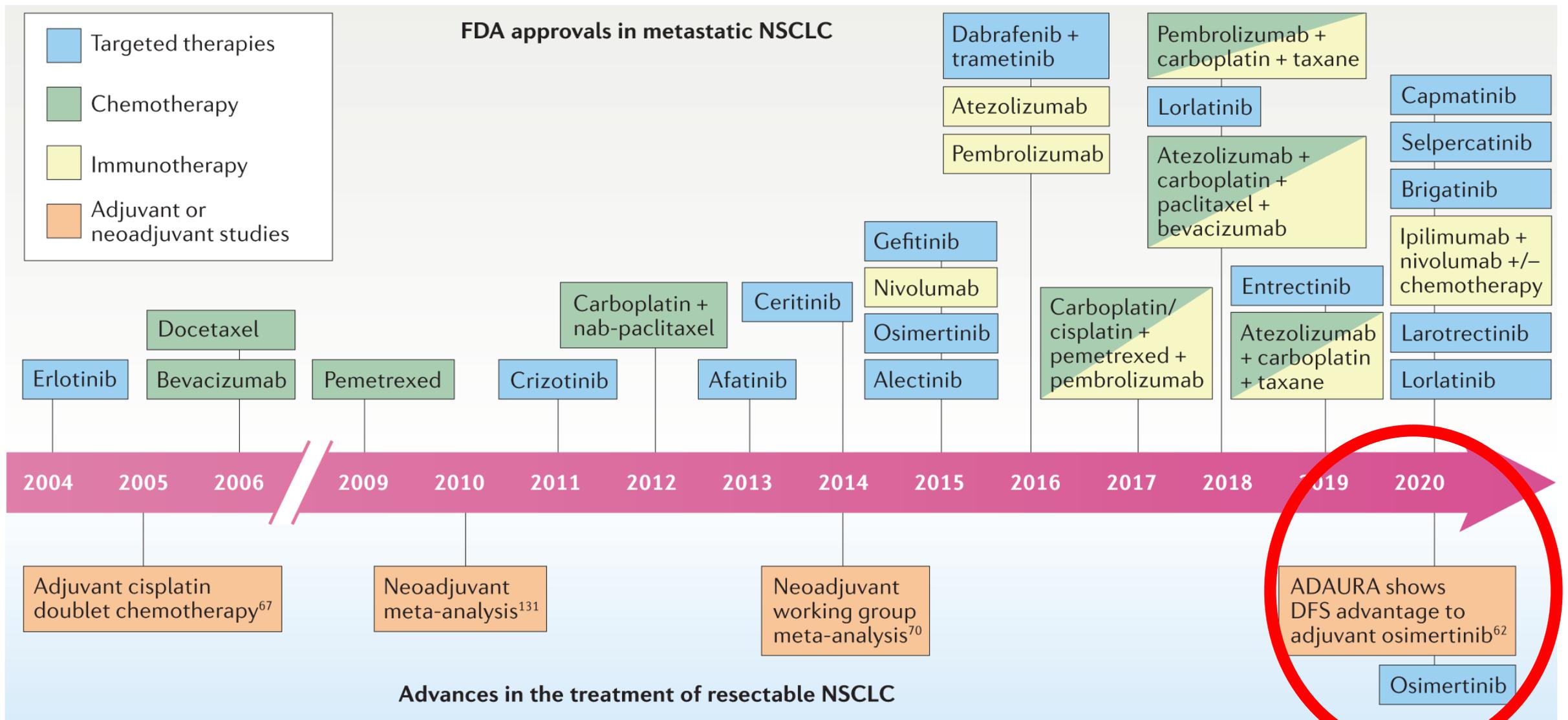
UOC Oncologia Medica



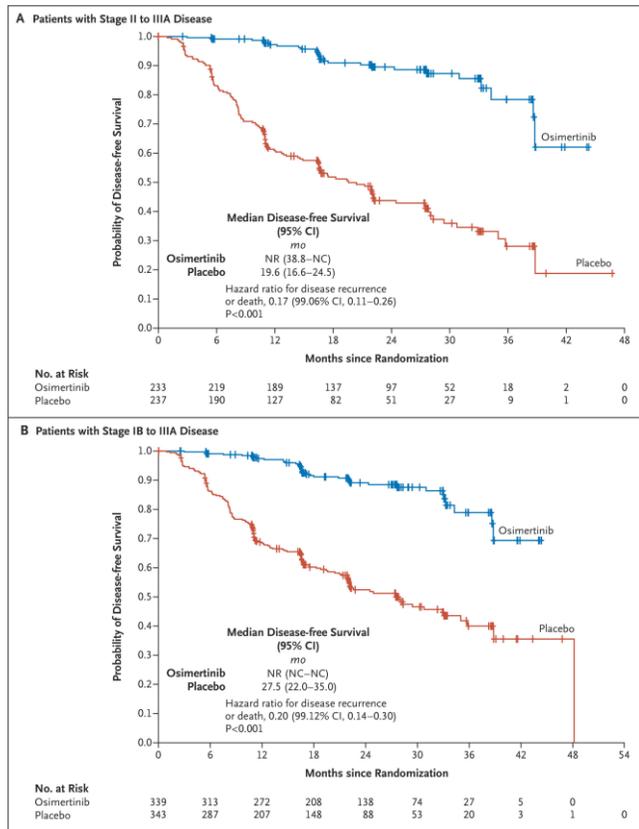


Timeline of main milestone in neoadjuvant systemic treatment of NSCLC





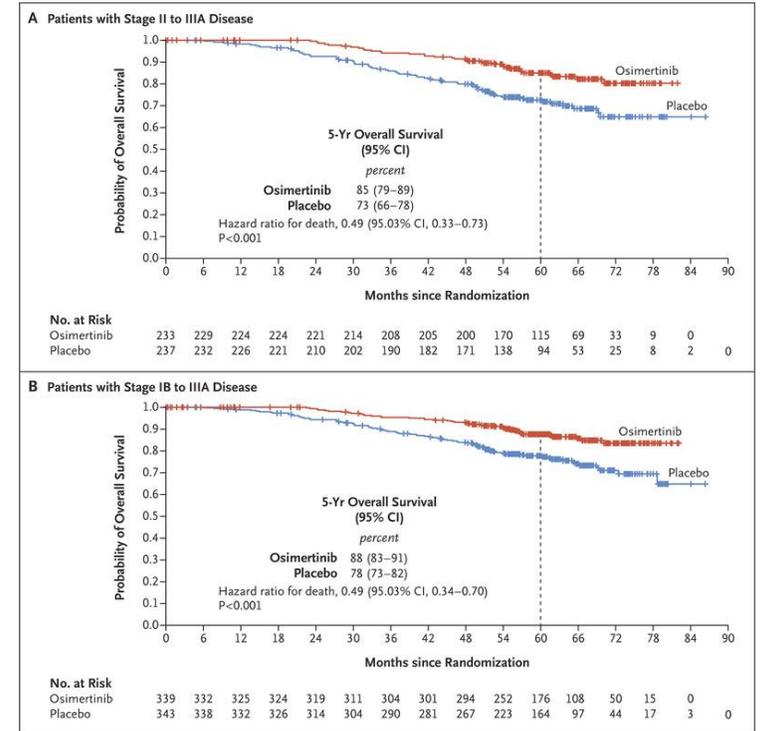
Osimertinib in Resected EGFR-Mutated Non-Small-Cell Lung Cancer



Agenzia Italiana del Farmaco

Attivazione web e pubblicazione schede di monitoraggio – Registro TAGRISSO_NSCLC adiuvante e Aggiornamento Registro TAGRISSO_NSCLC avanzato - Attivazione web e pubblicazione schede di monitoraggio – Registro TAGRISSO_NSCLC adiuvante e Aggiornamento Registro TAGRISSO_NSCLC avanzato

Overall Survival with Osimertinib in Resected EGFR-Mutated NSCLC



2020

2022

2023

Time from randomisation to any of the following:

- First recurrence of NSCLC
- Occurrence of new primary NSCLC
- Death from any cause

DFS

(adjuvant)

Time from randomisation to any of the following:

- Progression of disease **that precludes surgery**
- Occurrence of new primary NSCLC
- Death from any cause

EFS*

(neoadjuvant)

Absence of any viable tumour
at the time of surgical resection

pCR

≤10% residual viable tumour
at the time of surgical resection, as
assessed by central pathology laboratory

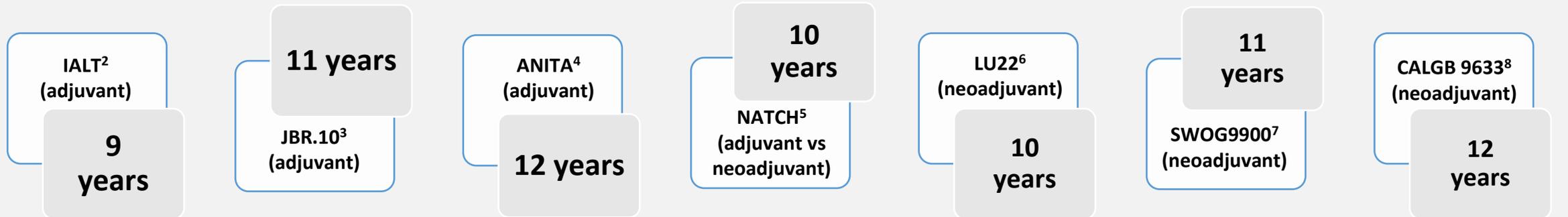
MPR

*Note that EFS is functionally the same as DFS but is used instead for neoadjuvant studies because patients are technically not disease-free until they have undergone surgery

1. [AEGEAN](#); 2. [CheckMate 816](#); 3. [IMpower030](#); 4. [CheckMate 77T](#)
5. [KEYNOTE-671](#); 6. [ANVIL](#); 7. [IMpower010](#); 8. [PEARLS](#); 9. [BR31](#)

Extensive time to readout means surrogate endpoints are needed to bring effective treatments into the clinic rapidly

Time from first patient recruited until publication (NSCLC studies)¹



This compares with ~2–4 years for a typical CIT study in advanced or metastatic NSCLC^{9–13}

Adopting meaningful surrogate endpoints for OS may expedite the evaluation of new therapies and bring new treatments to NSCLC patients sooner

1. [Hellmann, et al. Lancet Oncol 2014](#); 2. [Arriagada, et al. N Engl J Med 2004](#); 3. [Winton, et al. N Engl J Med 2005](#); 4. [Douillard, et al. Lancet Oncol 2006](#);
5. [Felip, et al. J Clin Oncol 2010](#); 6. [Gilligan, et al. Lancet 2007](#); 7. [Pisters, et al. J Clin Oncol 2010](#); 8. [Strauss, et al. J Clin Oncol 2008](#);
9. [Reck, et al. N Engl J Med 2016](#); 10. [Gandhi, et al. N Engl J Med 2018](#); 11. [Socinski, et al. N Engl J Med 2018](#);
12. [Paz-Ares, et al. N Engl J Med 2018](#); 13. [West, et al. Lancet Oncol 2019](#)

DFS and EFS are listed as surrogate endpoints that were the basis of drug approvals or licensure by the FDA¹

Time from randomisation to any of the following:

- First recurrence of NSCLC
- Occurrence of new primary NSCLC
- Death from any cause

DFS
(adjuvant)

DFS and EFS are also accepted endpoints by the EMA²

Time from randomisation to any of the following:

- Progression of disease **that precludes surgery**
- Occurrence of new primary NSCLC
- Death from any cause

EFS*
(neoadjuvant)

Absence of any viable tumour
at the time of surgical resection

pCR

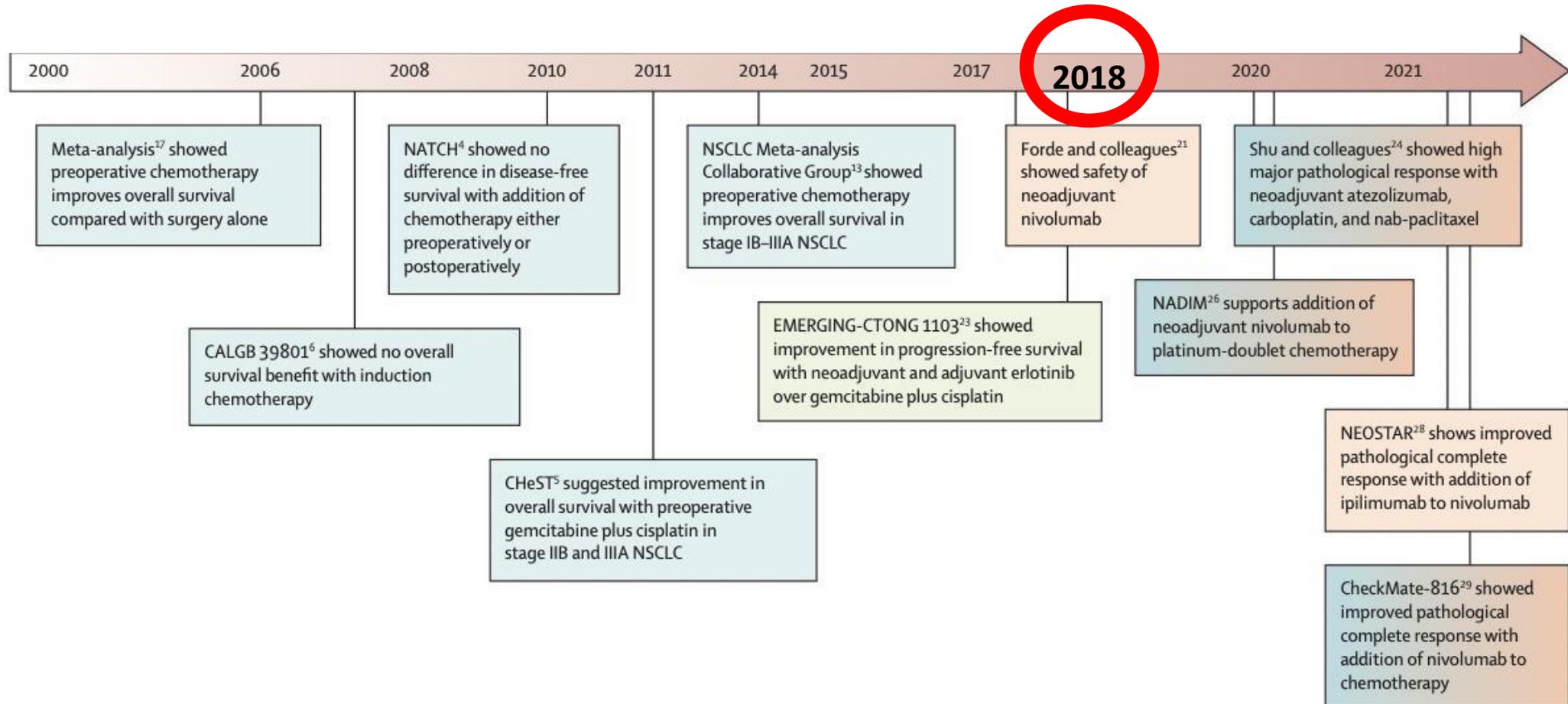
MPR

≤10% residual viable tumour
at the time of surgical resection, as assessed by central pathology laboratory

*Note that EFS is functionally the same as DFS but is used instead for neoadjuvant studies because patients are technically not disease-free until they have undergone surgery

1. [AEGEAN](#); 2. [CheckMate 816](#); 3. [IMpower030](#); 4. [CheckMate 77T](#)
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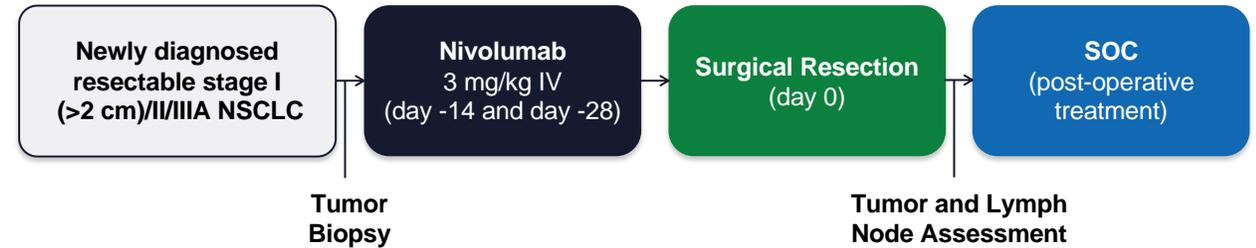
Timeline of main milestone in neoadjuvant systemic treatment of NSCLC



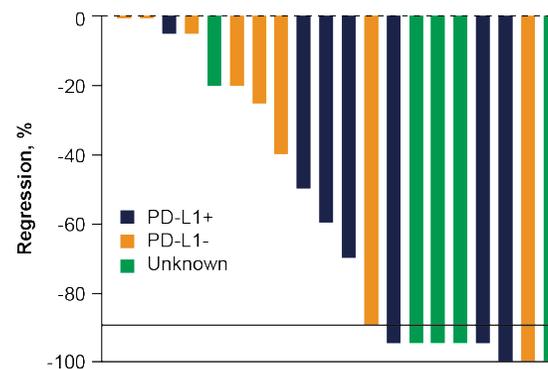
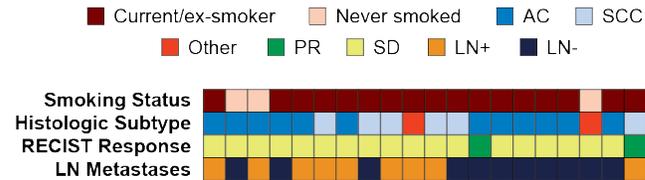
ORIGINAL ARTICLE

Neoadjuvant PD-1 Blockade in Resectable Lung Cancer

P.M. Forde, J.E. Chaft, K.N. Smith, V. Anagnostou, T.R. Cottrell, M.D. Hellmann, M. Zahurak, S.C. Yang, D.R. Jones, S. Broderick, R.J. Battafarano, M.J. Velez, N. Rekhtman, Z. Olah, J. Naidoo, K.A. Marrone, F. Verde, H. Guo, J. Zhang, J.X. Caushi, H.Y. Chan, J.-W. Sidhom, R.B. Scharpf, J. White, E. Gabrielson, H. Wang, G.L. Rosner, V. Rusch, J.D. Wolchok, T. Merghoub, J.M. Taube, V.E. Velculescu, S.L. Topalian, J.R. Brahmer, and D.M. Pardoll



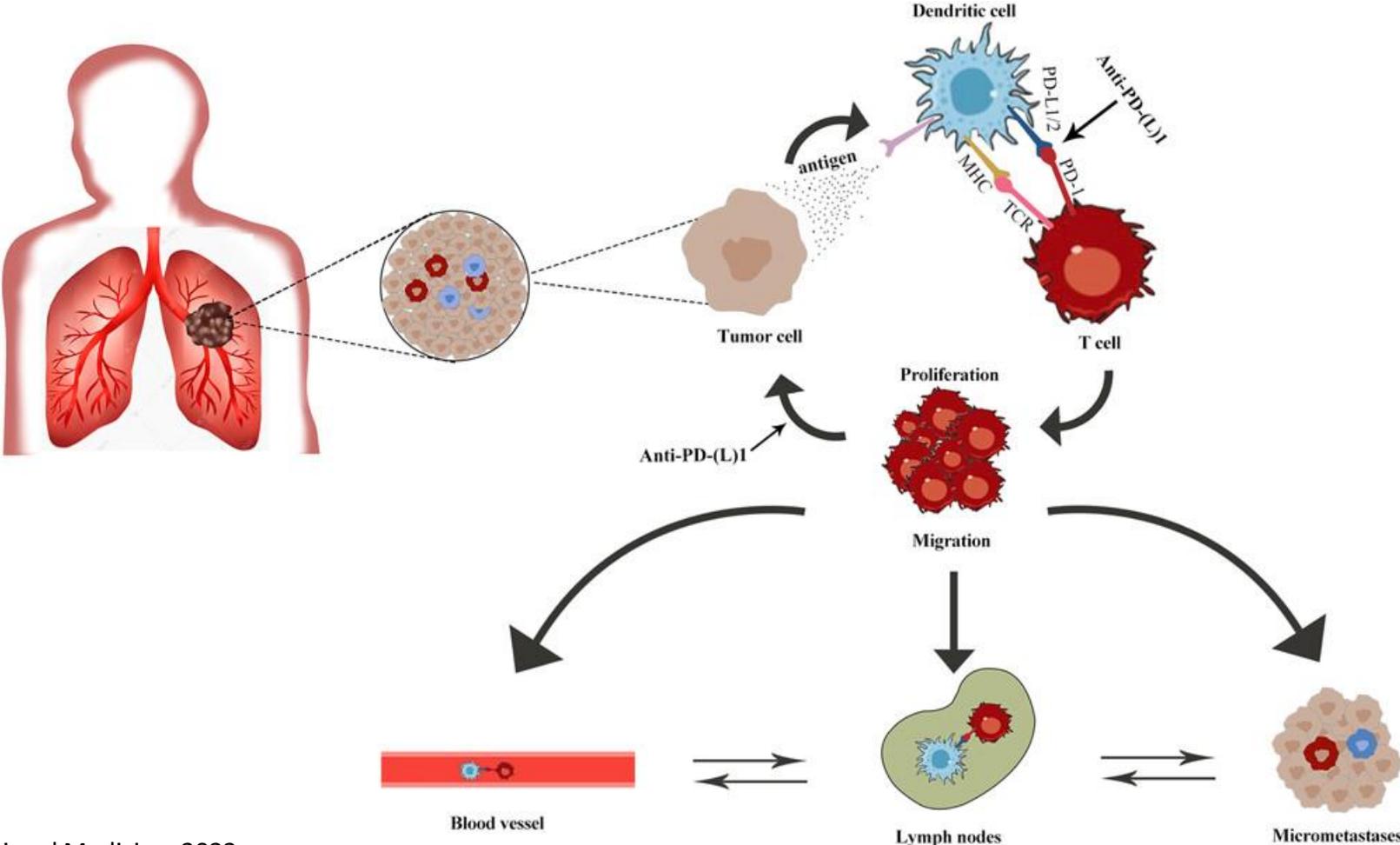
- **Primary endpoints:** Safety and feasibility
- **Also evaluated:** Tumor pathological response; expression of PD-L1; mutational burden; and mutation-associated, neoantigen-specific T-cell responses



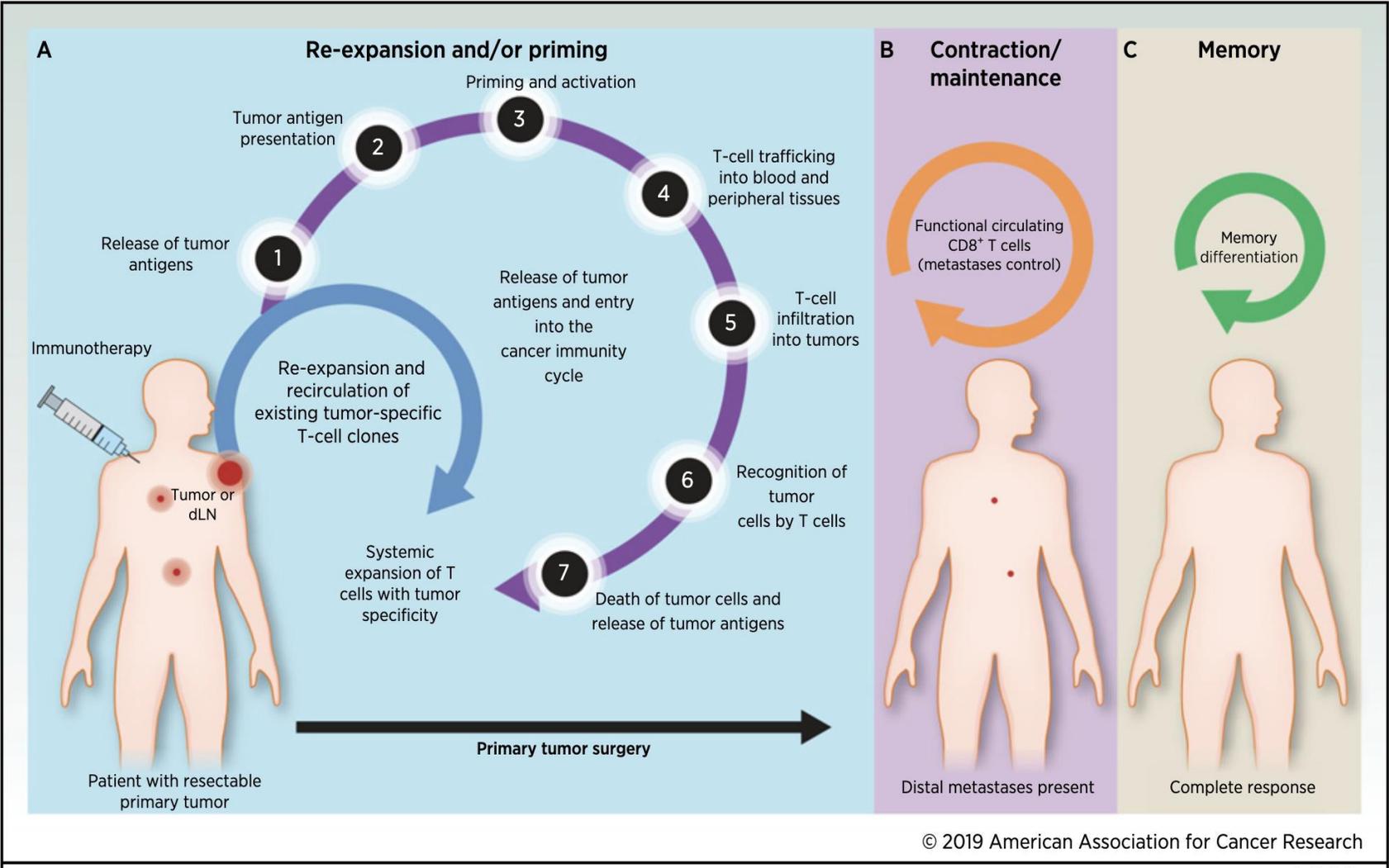
- Major pathological response occurred in 9/20 resected tumors (45%; 95% CI, 23-68)

Treatment related adverse events in 23%
No treatment-related surgical delays

Enhancement of systemic antitumor T cell immunity after neoadjuvant PD-1 blockade

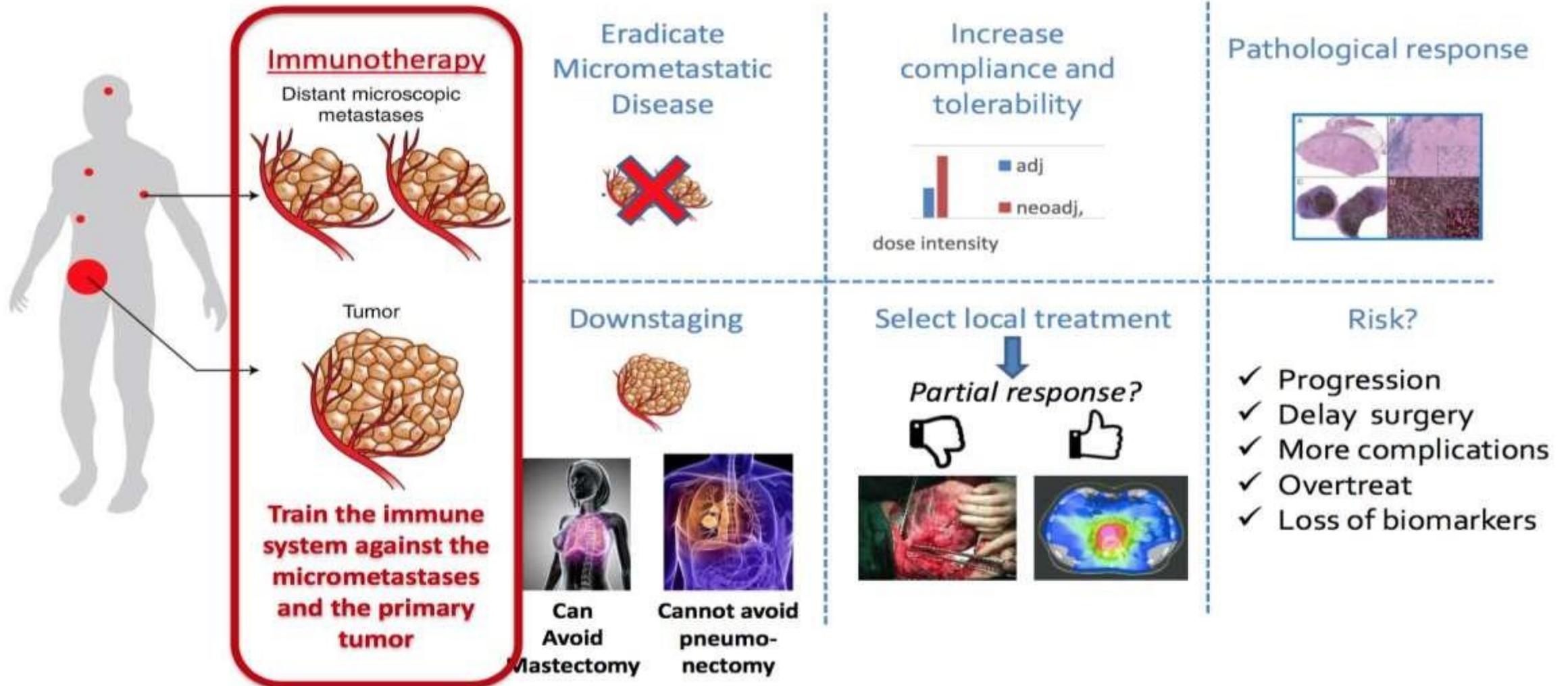


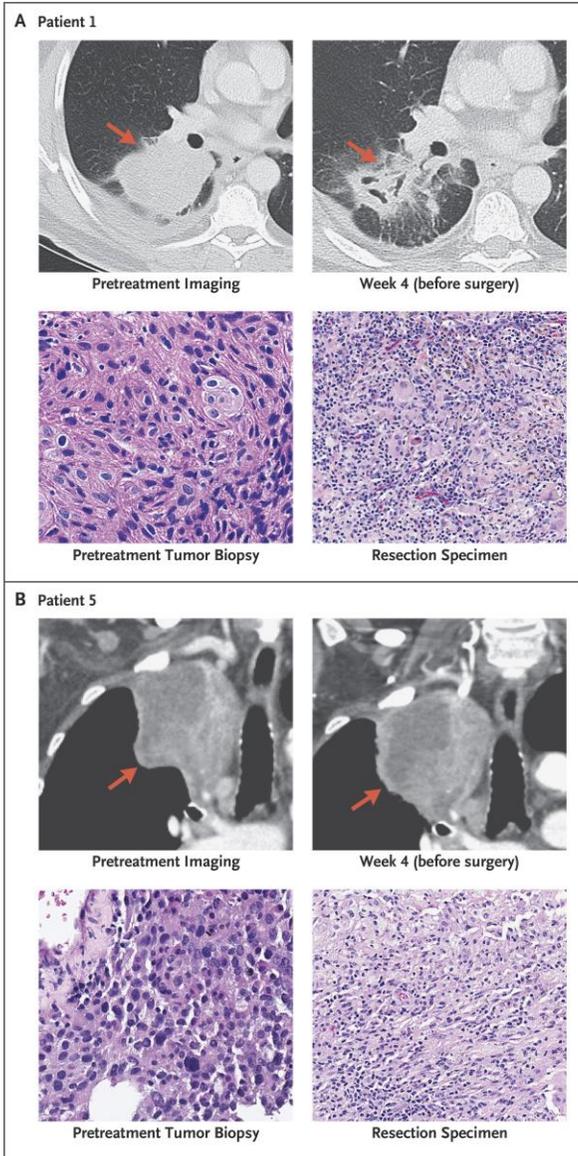
Neoadjuvant immunotherapy and the tumor-specific T-cell response.



Liu et al, Cancer Discov 2016; O'Donnell CCR 2019

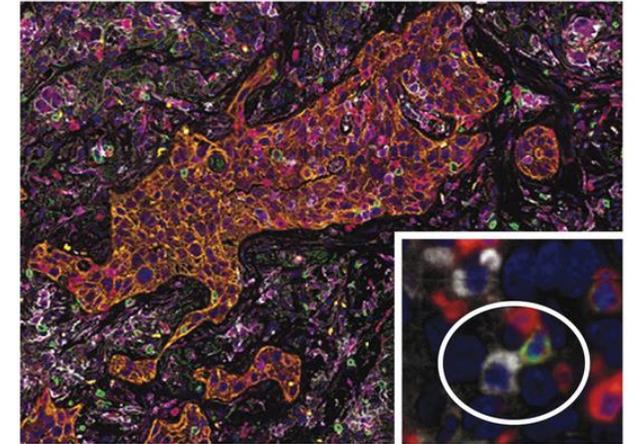
Theoretical benefit for induction treatment



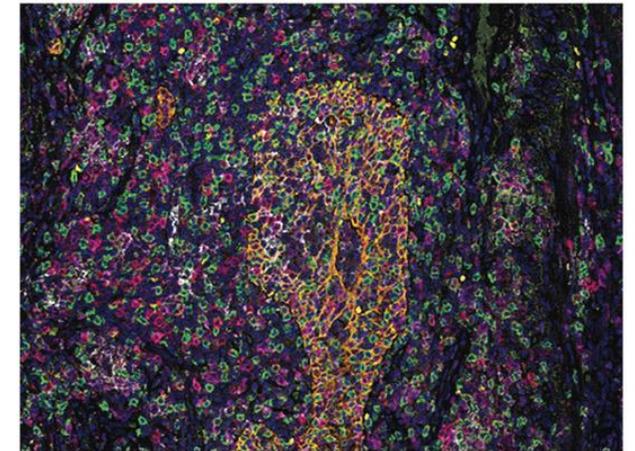


Pathological Response to Neoadjuvant Therapy with Nivolumab.

B Biopsy Sample before Nivolumab



C Biopsy Sample after Nivolumab



Neoadjuvant ICI or ICI Plus Chemotherapy in Patients With Resectable and Operable Stage I–III Lung Cancers

Phase II Trials

Study	Registry No.	Stage	No. of Patients	Resected Patients	Experimental Arm	Control Arm	Primary Endpoint	MPR	pCR	1-Year OS
SKCCC-JHU Forde et al⁵⁸	NCT02259621	IB, II, IIIA	22	20	Nivo, 2 cycles Q2W	None	Safety	9 (45%)	3 (13%)	—
LCMC3 Kwiatkowski et al¹⁰³	NCT02927301	IB-IIIB (T3N2)	181	159	Atezolizumab, 2 cycles Q3W	None	MPR	30 (21%)	10 (7%)	
NEOSTAR Cascone et al⁵⁹	NCT03158129	I-IIIA (single N2)	88: Nivo: 23 Nivo + Ipi: 21	39	Nivo, 3 cycles Q2W or Nivo 3 + Ipi 1	None	MPR	11: Nivo: 5 (22%) Nivo+ Ipi: 8 (38%)	8: 2 (9%) 6 (29%)	
IONESCO Wislez et al¹⁰⁴	NCT03030131	IB, II, IIIA (non-N2)	50/81	46	Durva 3 cycles Q2W	None	Surgical resection R0	8 (18.6%)	3 (7%)	89.1%
COLUMBIA UNIVERSITY Shu et al⁶⁰	NCT02716038	IB-IIIA	30	29	Atezolizumab + cCT, 4 cycles – SoC (adj)	None	MPR	17 (57%)	10 (33%)	—
NADIM Provencio et al⁵⁰	NCT03081689	IIIA (N2)	46	41	Nivo + cCT, 3 cycles Q3W – Nivo (adj) 1 y	None	24 mo PFS	34 (83%)	26 (63%)	97.8%
SAKK 16/14 Rothschild et al¹⁰¹	NCT02572843	IIIA (N2)	67	55	Durva + cCT – Durva (adj)	None	EFS at 1 y	33 (60%)	10 (18%)	—
NADIM II Provencio et al¹⁰⁵	NCT03838159	IIIA-IIIB	90	NA	Nivo + cCT - Nivo (adj) 6 mo	CT	pCR	NA	NA	—



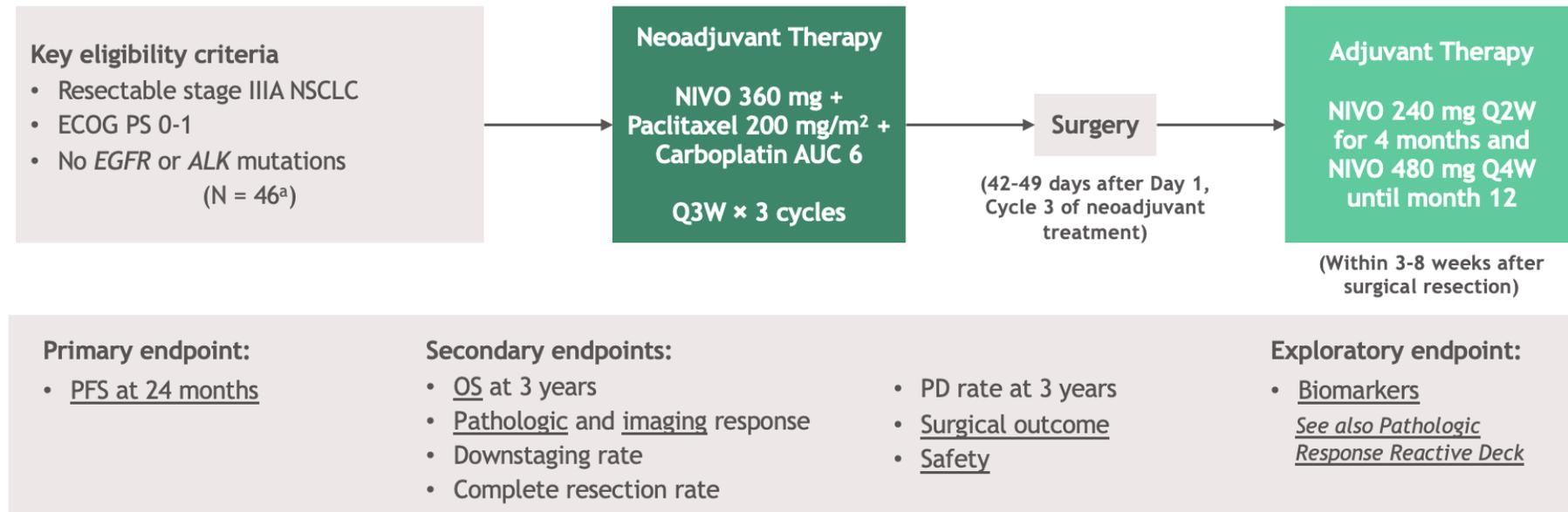
Neoadjuvant chemotherapy and nivolumab in resectable non-small-cell lung cancer (NADIM): an open-label, multicentre, single-arm, phase 2 trial



Mariano Provencio, Ernest Nadal, Amelia Insa, María Rosario García-Campelo, Joaquín Casal-Rubio, Manuel Dómine, Margarita Majem, Delvys Rodríguez-Abreu, Alex Martínez-Martí, Javier De Castro Carpeño, Manuel Cobo, Guillermo López Vivanco, Edel Del Barco, Reyes Bernabé Caro, Nuria Viñolas, Isidoro Barneto Aranda, Santiago Viteri, Eva Pereira, Ana Royuela, Marta Casarrubios, Clara Salas Antón, Edwin R Parra, Ignacio Wistuba, Virginia Calvo, Raquel Laza-Briviesca, Atocha Romero, Bartomeu Massuti, Alberto Cruz-Bermúdez

NADIM trial: study design

- NADIM was a phase 2, open-label study that assessed neoadjuvant NIVO in combination with chemotherapy in resectable stage IIIA NSCLC
- Patients received the combination prior to surgical resection, followed by adjuvant NIVO therapy

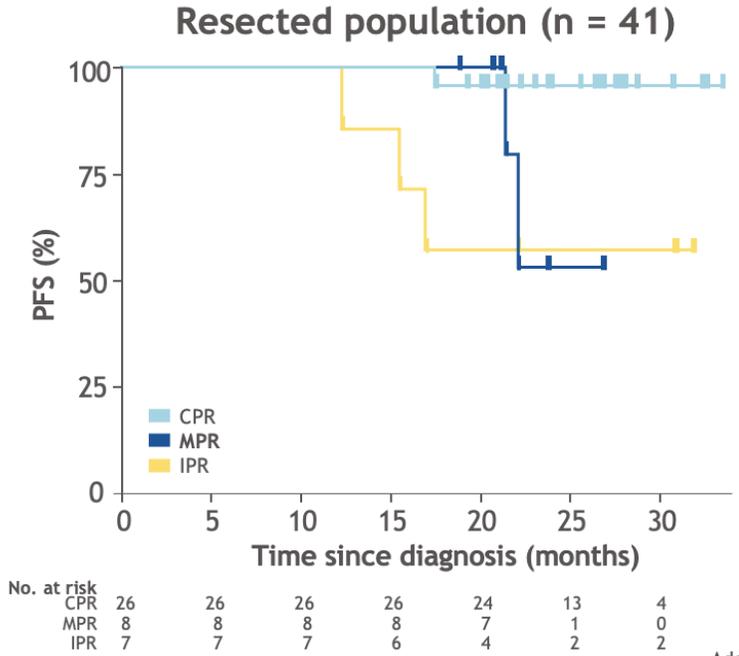
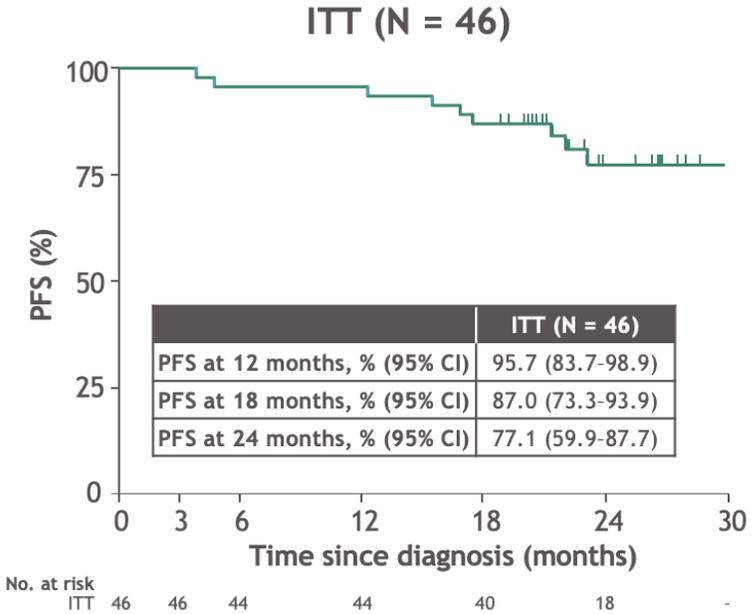


^aModified ITT population, which included all patients who received neoadjuvant treatment. Per-protocol population (n = 37) included all patients who had tumor resection and received ≥ 1 cycle of adjuvant treatment.

AUC, area under the curve; ctDNA, circulating tumor DNA; NIVO, nivolumab; NSCLC, non-small cell lung cancer; OS, overall survival; PD, progressive disease; PFS, progression-free survival; PS, performance status.

Provencio M et al. *Lancet Oncol.* 2020;21:1413-1422.

Progression-free survival at 24 months (primary endpoint)

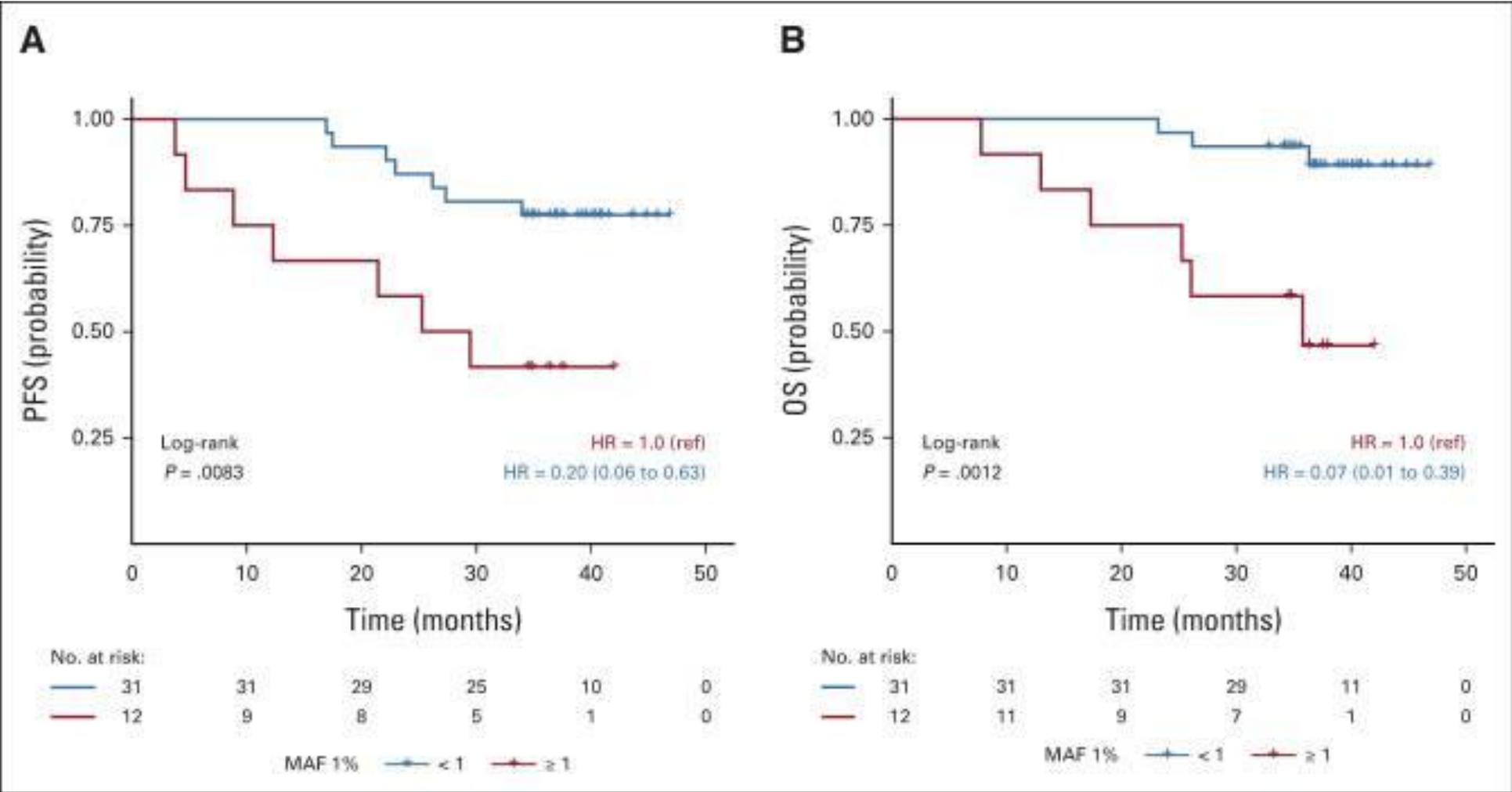


Adapted with permission.

- PFS in patients with CPR was 96% (95% CI: 76-99) at both 18 and 24 months, which was significantly higher than PFS in patients with IPR or MPR ($P = 0.0023$ and 0.041 , respectively)
 - No differences were observed between IPR and MPR ($P = 0.524$)

Data analysis cutoff: January 31, 2020. Median follow-up: 24.0 months.
 Log-rank P values.
 CPR, complete pathologic response; IPR, incomplete pathologic response; MPR, major pathologic response; PFS, progression-free survival.
 Provencio M et al. *Lancet Oncol.* 2020;21:1413-1422.

Survival by pretreatment ctDNA levels



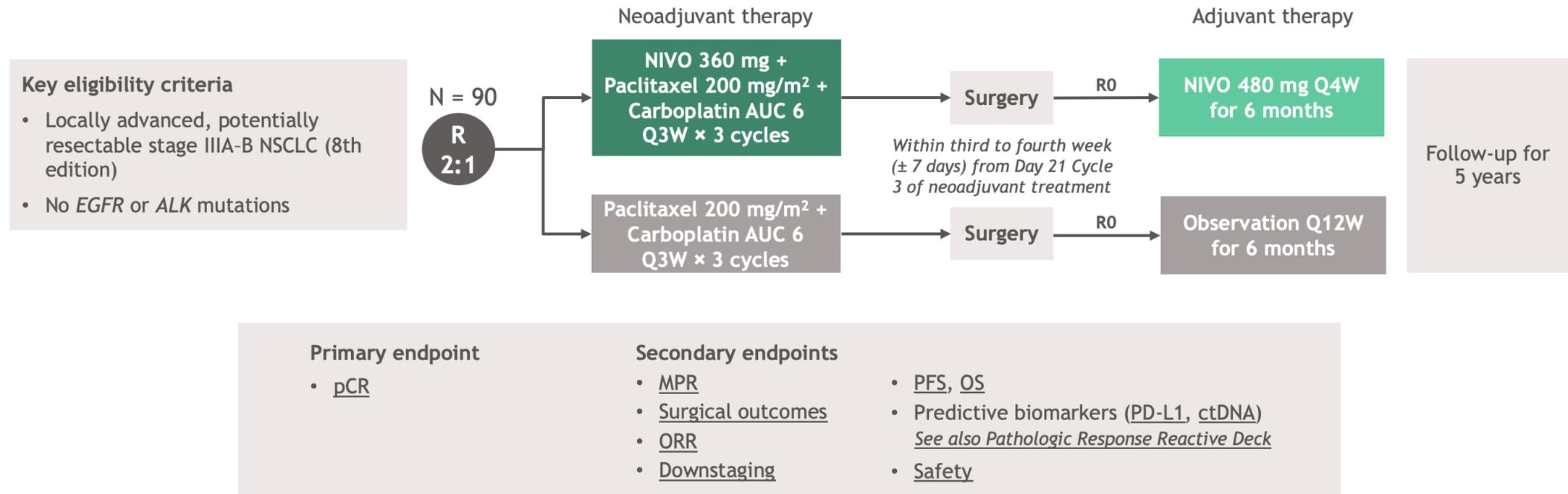
ORIGINAL ARTICLE

Perioperative Nivolumab and Chemotherapy in Stage III Non–Small-Cell Lung Cancer

M. Provencio, E. Nadal, J.L. González-Larriba, A. Martínez-Martí, R. Bernabé, J. Bosch-Barrera, J. Casal-Rubio, V. Calvo, A. Insa, S. Ponce, N. Reguart, J. de Castro, J. Mosquera, M. Cobo, A. Aguilar, G. López Vivanco, C. Camps, R. López-Castro, T. Morán, I. Barneto, D. Rodríguez-Abreu, R. Serna-Blasco, R. Benítez, C. Aguado de la Rosa, R. Palmero, F. Hernando-Trancho, J. Martín-López, A. Cruz-Bermúdez, B. Massuti, and A. Romero

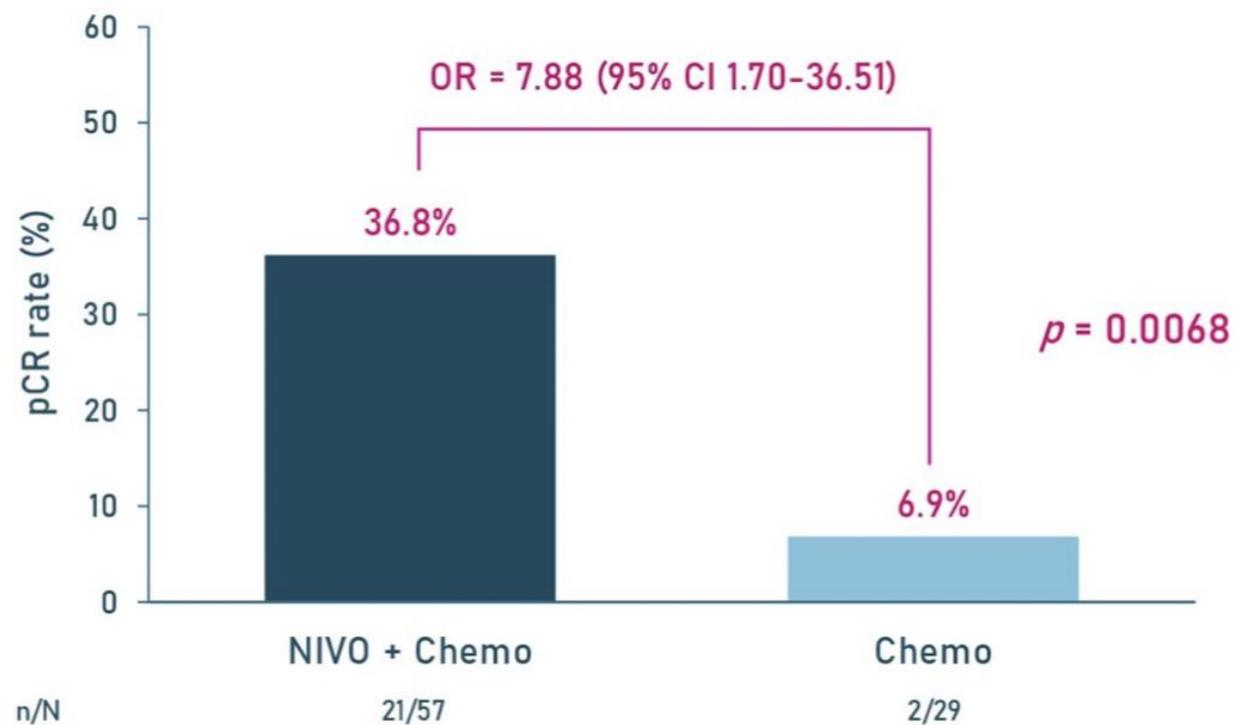
NADIM II trial: study design

- NADIM II was a randomized, phase 2, open-label study that evaluated NIVO + chemo vs chemo in resectable stage IIIA-B NSCLC



AUC, area under the curve; chemo, chemotherapy; ctDNA, circulating tumor DNA; MPR, major pathologic response; NIVO, nivolumab; NSCLC, non-small cell lung cancer; ORR, objective response rate; OS, overall survival; pCR, pathologic complete response; PD-L1, programmed death ligand 1; PFS, progression-free survival; R, randomized. Provencio M et al. Oral presentation at World Conference on Lung Cancer (WCLC); August 6-9, 2022; Vienna, Austria. Presentation PL03.12.

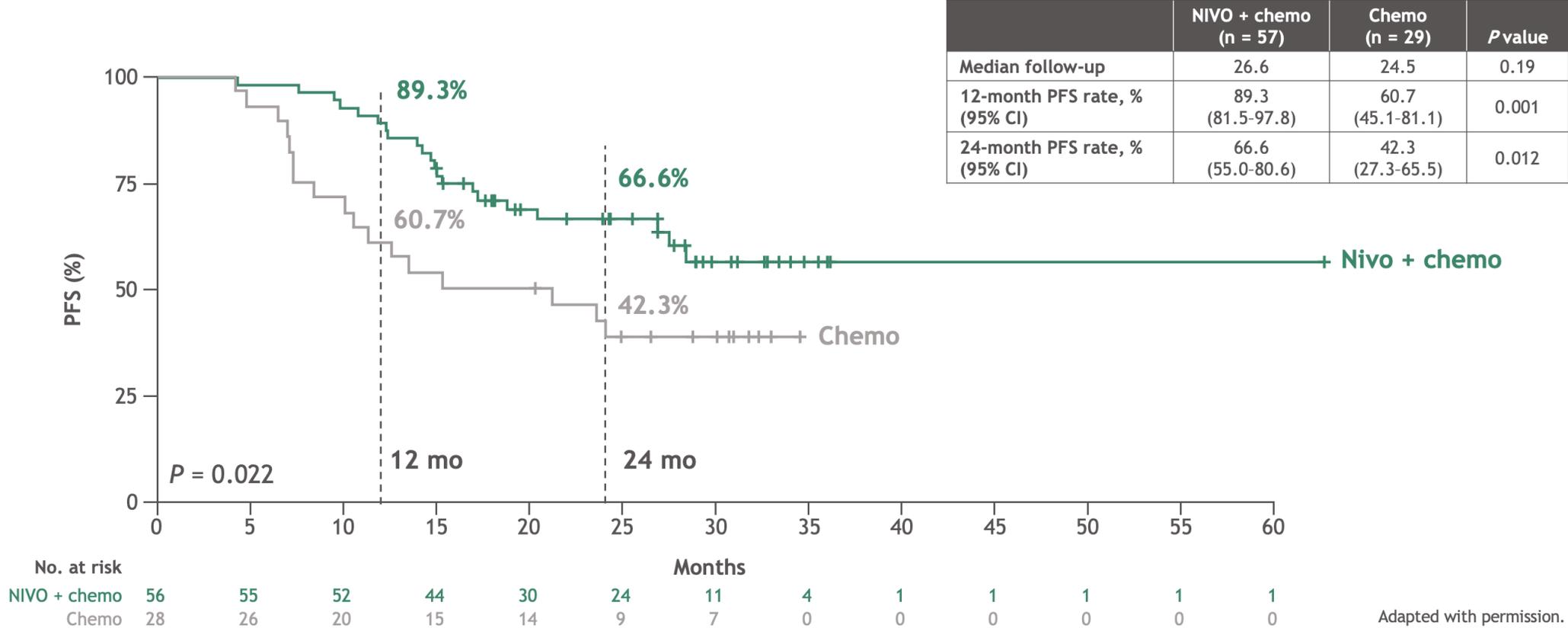
NADIM II trial: pCR rate



Percentage of patients with a complete response

NNT: 3.34 (2.2–6.95)

NADIM II: progression-free survival

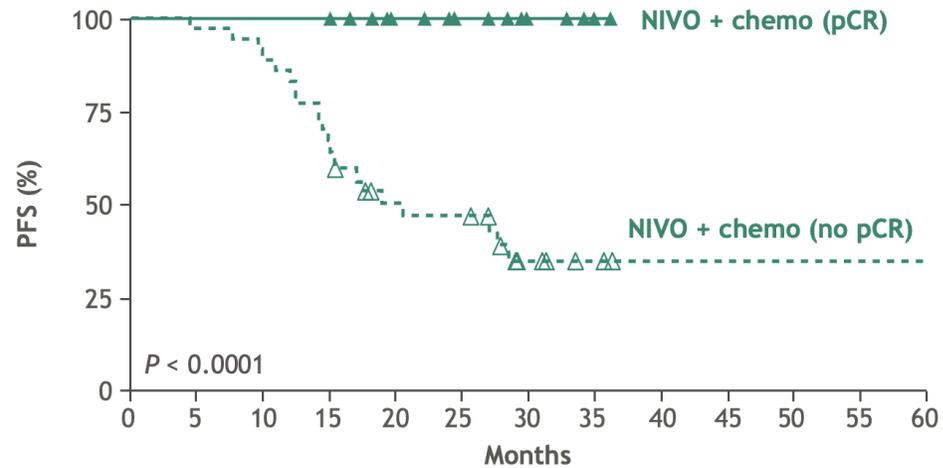


Adapted with permission.

Median follow-up: 26.1 months. PFS was defined as the time from randomization to any of the following events: disease progression, disease recurrence, or death due to any cause. Progression/recurrence was determined according to RECIST 1.1. chemo, chemotherapy; NIVO, nivolumab; PFS, progression-free survival. Provencio M et al. Oral presentation at World Conference on Lung Cancer (WCLC); August 6-9, 2022; Vienna, Austria. Presentation PL03.12.

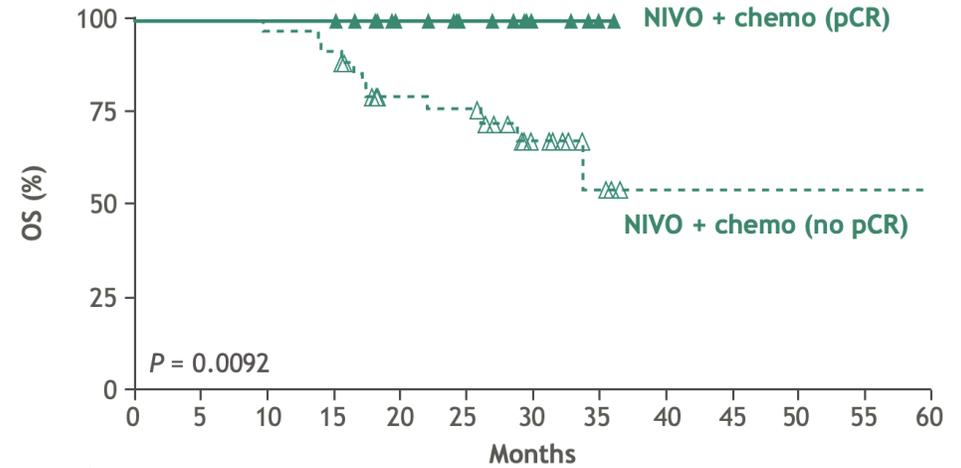
NADIM II: PS and OS by pCR status in Nivo plus Chemo arm

PFS



No. at risk	0	5	10	15	20	25	30	35	40	45	50	55	60
pCR	21	21	21	21	15	10	5	1	0	0	0	0	0
No pCR	35	34	31	23	15	14	6	3	1	1	1	1	1

OS



No. at risk	0	5	10	15	20	25	30	35	40	45	50	55	60
pCR	21	21	21	21	15	10	5	1	0	0	0	0	0
No pCR	35	35	34	32	22	21	10	4	1	1	1	1	1

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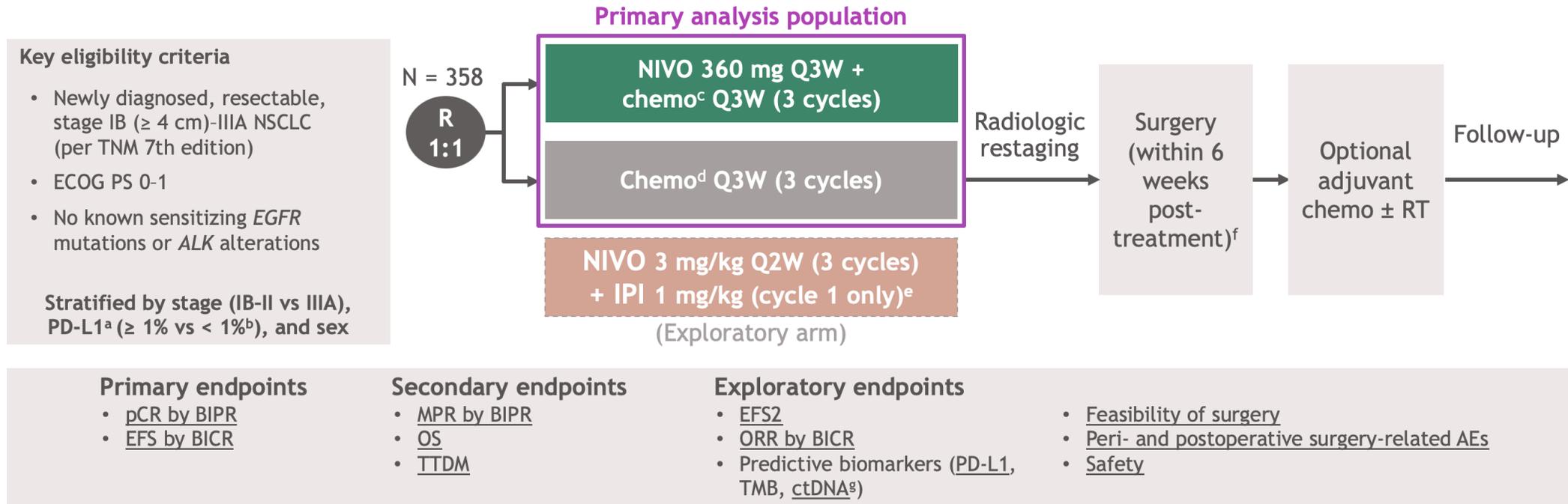
MAY 26, 2022

VOL. 386 NO. 21

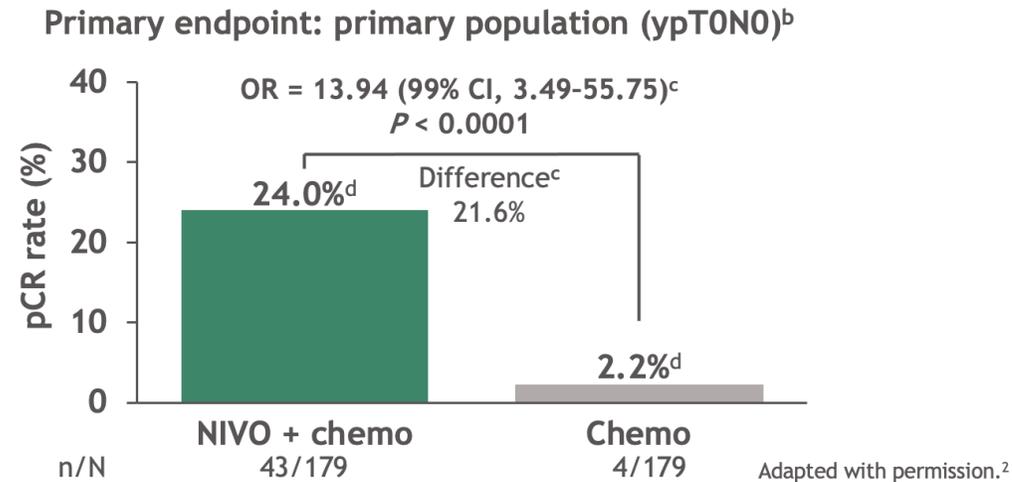
Neoadjuvant Nivolumab plus Chemotherapy in Resectable
Lung Cancer

P.M. Forde, J. Spicer, S. Lu, M. Provencio, T. Mitsudomi, M.M. Awad, E. Felip, S.R. Broderick, J.R. Brahmer, S.J. Swanson, K. Kerr, C. Wang, T.-E. Ciuleanu, G.B. Saylor, F. Tanaka, H. Ito, K.-N. Chen, M. Liberman, E.E. Vokes, J.M. Taube, C. Dorange, J. Cai, J. Fiore, A. Jarkowski, D. Balli, M. Sausen, D. Pandya, C.Y. Calvet, and N. Girard, for the CheckMate 816 Investigators*

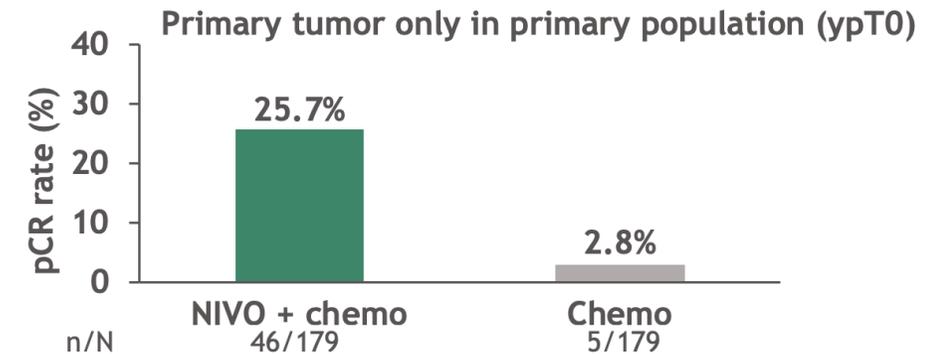
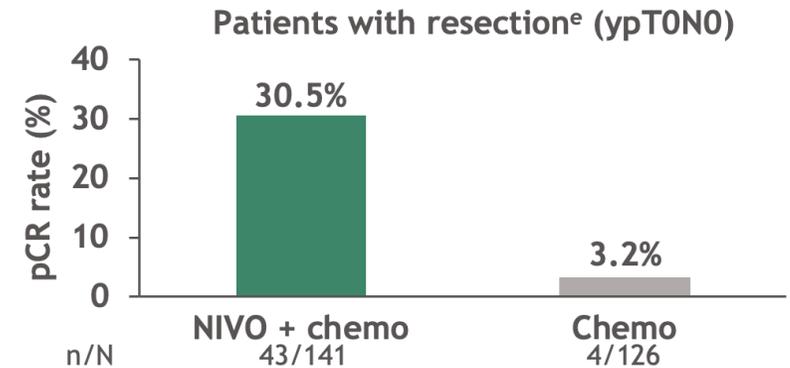
Checkmate 816: study design



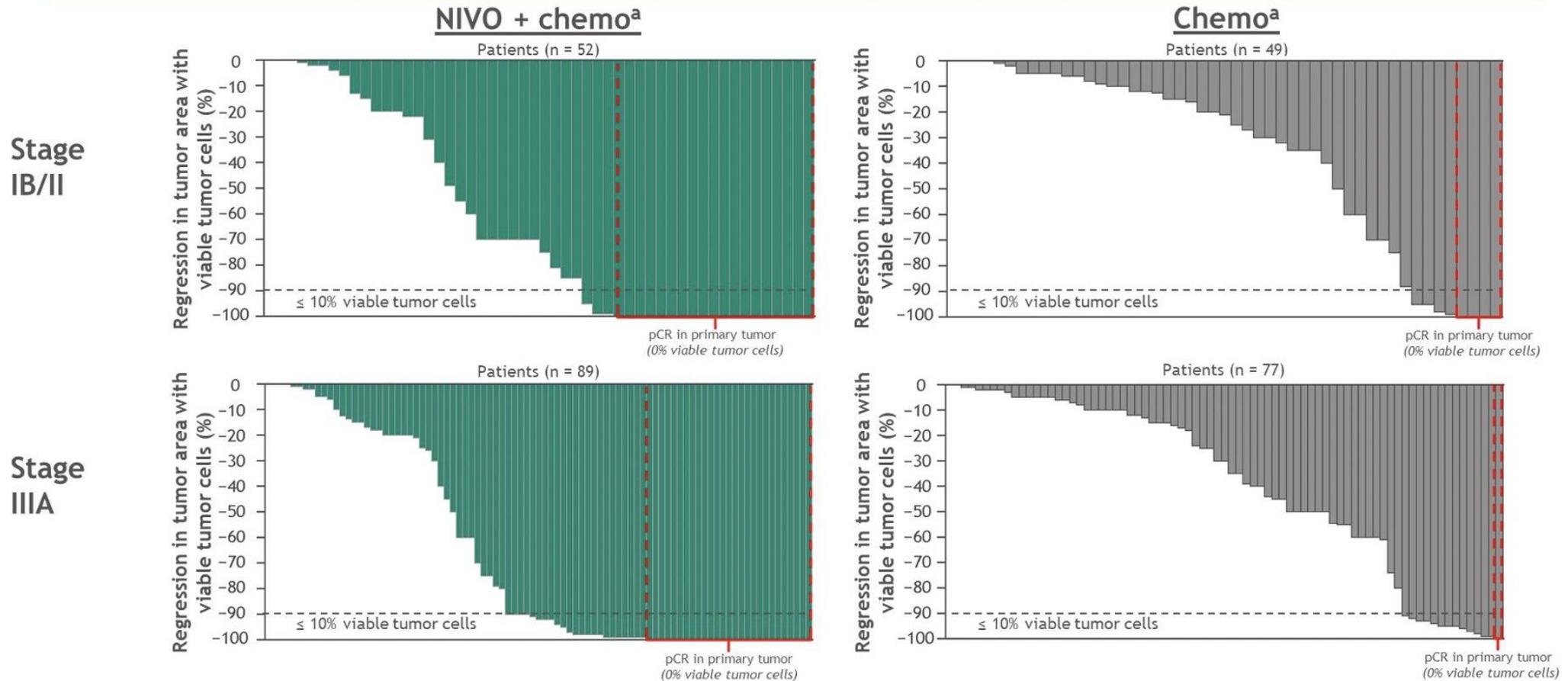
Checkmate 816: primary endpoint - pCR



- pCR rate in the exploratory NIVO + IPI arm (ITT) was 20.4% (95% CI, 13.4-29.0)
- pCR rates in patients with lymph node involvement at baseline were
 - Any disease stage: 23.7% in the NIVO + chemo arm vs 1.0% in the chemo arm
 - Stage IIIA disease: 21.8% in the NIVO + chemo arm vs 0% in the chemo arm



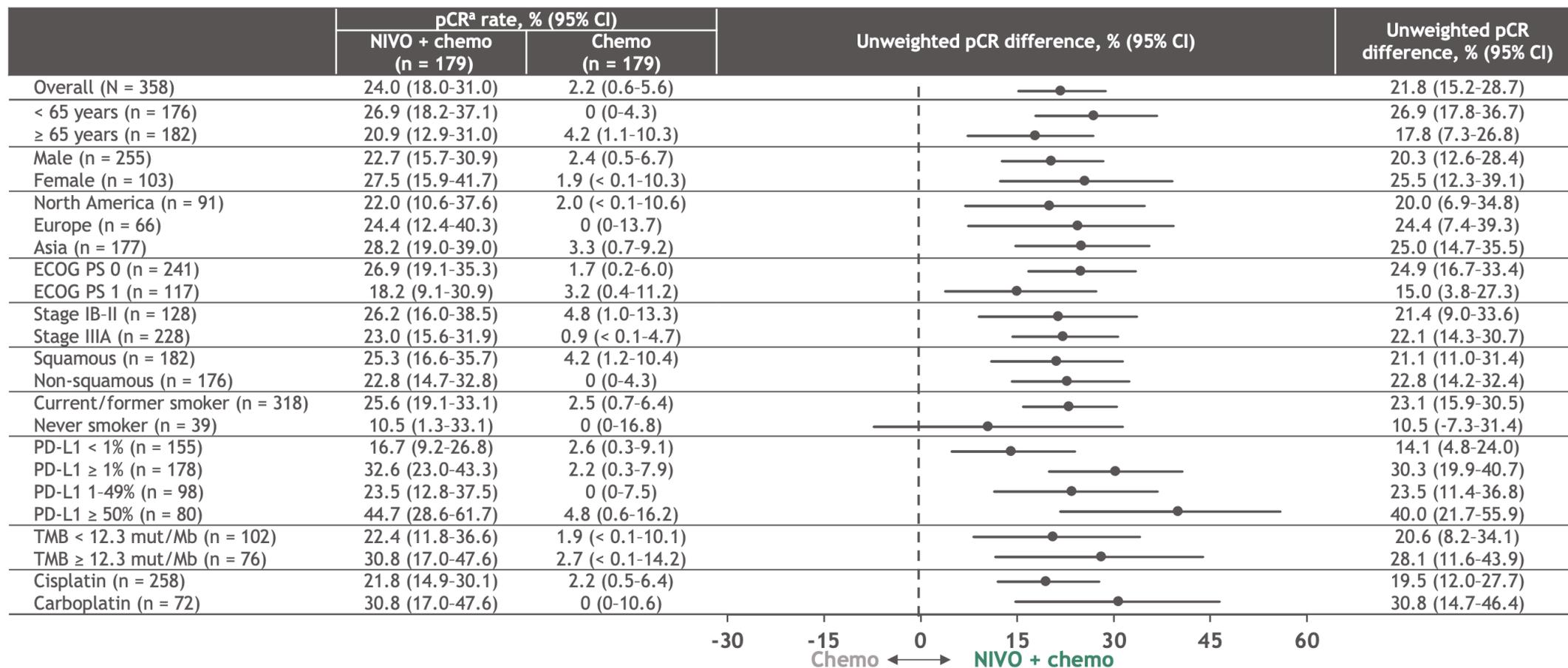
Depth of pathological regression in primary tumor by stage



- The median residual viable tumor percentage in stage IB/II and IIIA was 28% and 8% with NIVO + chemo vs 79% and 70% with chemo, respectively

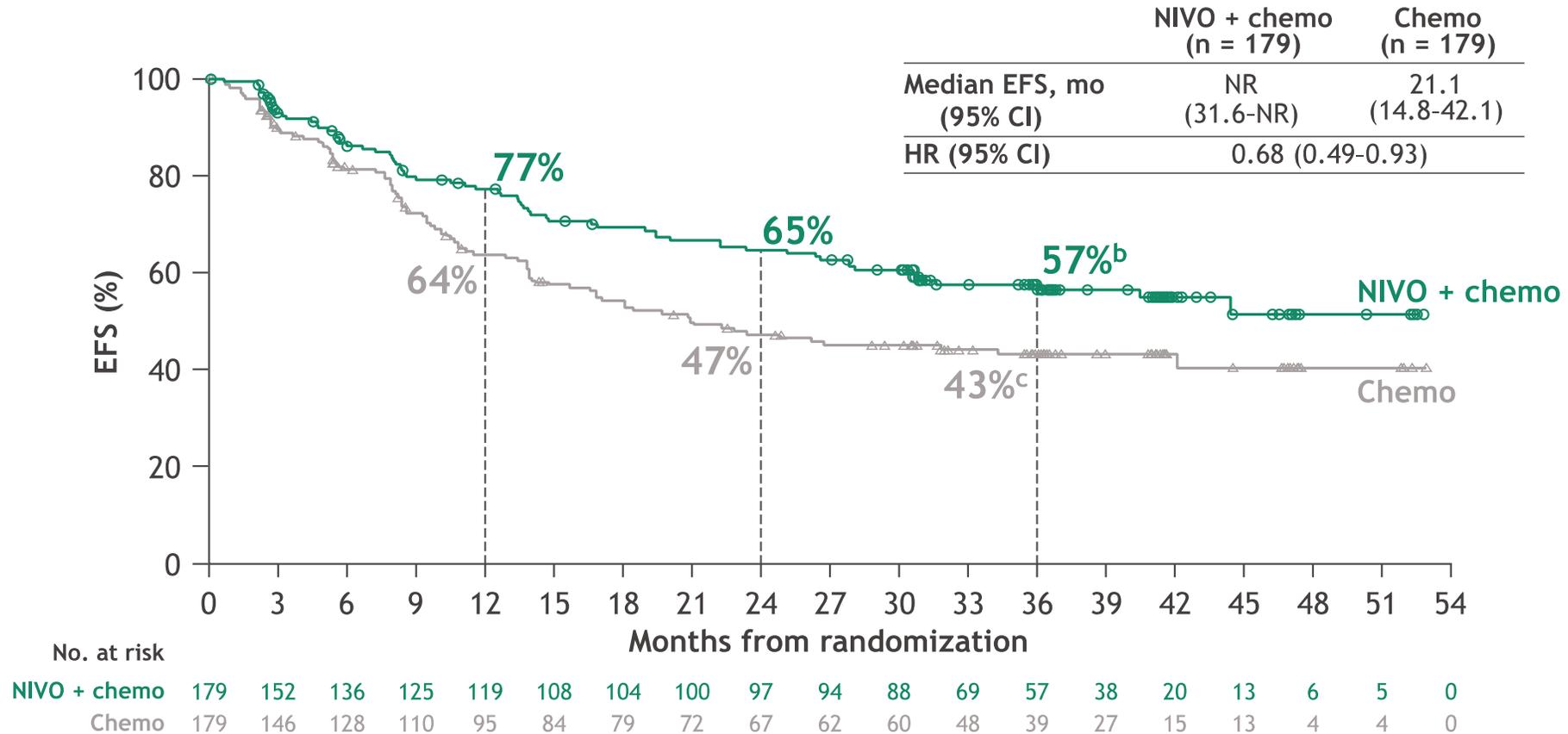
^aResponse-evaluable patients.

Checkmate 816: pCR subgroup analysis



Checkmate 816: primary endpoint – EFS

3-year update

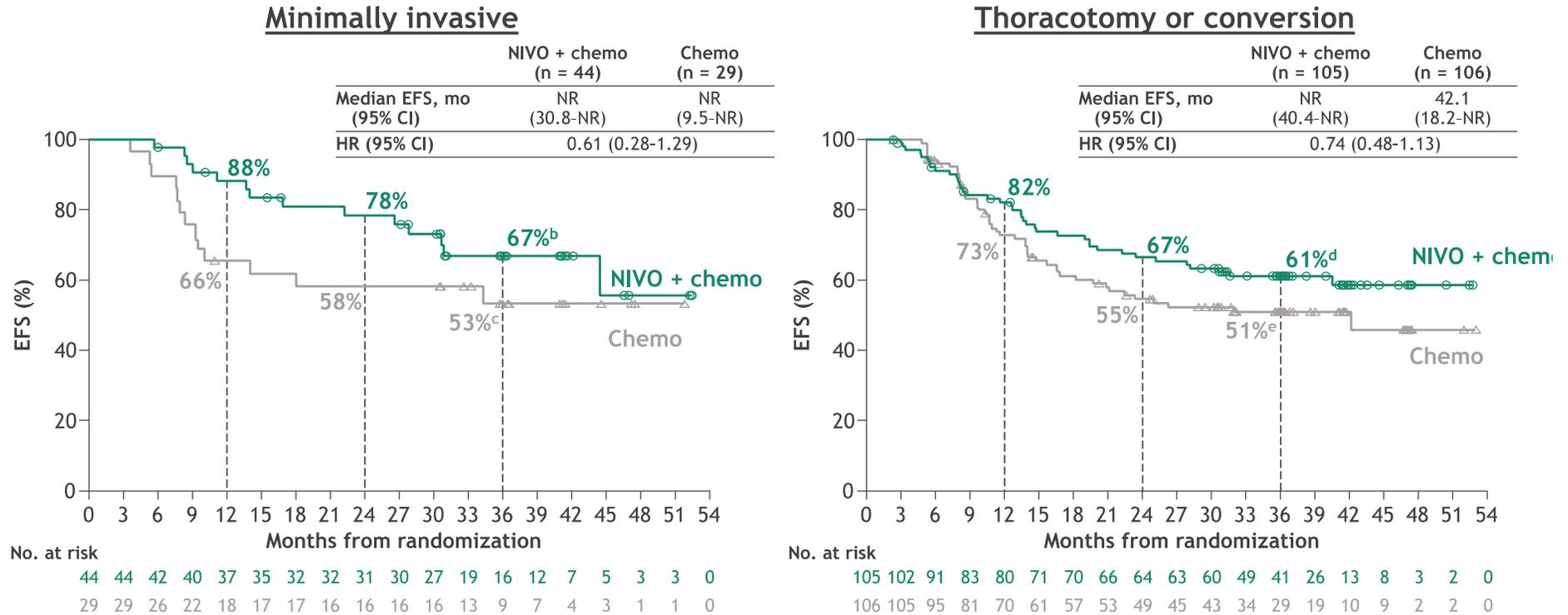


Minimum/median follow-up: 32.9/41.4 months.

^aExploratory analysis. Time from randomization to any disease progression precluding surgery, disease progression/recurrence after surgery, progression in patients without surgery, or death due to any cause per BICR. Patients who received subsequent therapy were censored at the last evaluable tumor assessment on or prior to the date of subsequent therapy. ^{b,c}95% CIs for 3-year EFS rates: ^b48-64; ^c35-51.

EFS by surgical approach

3-year update



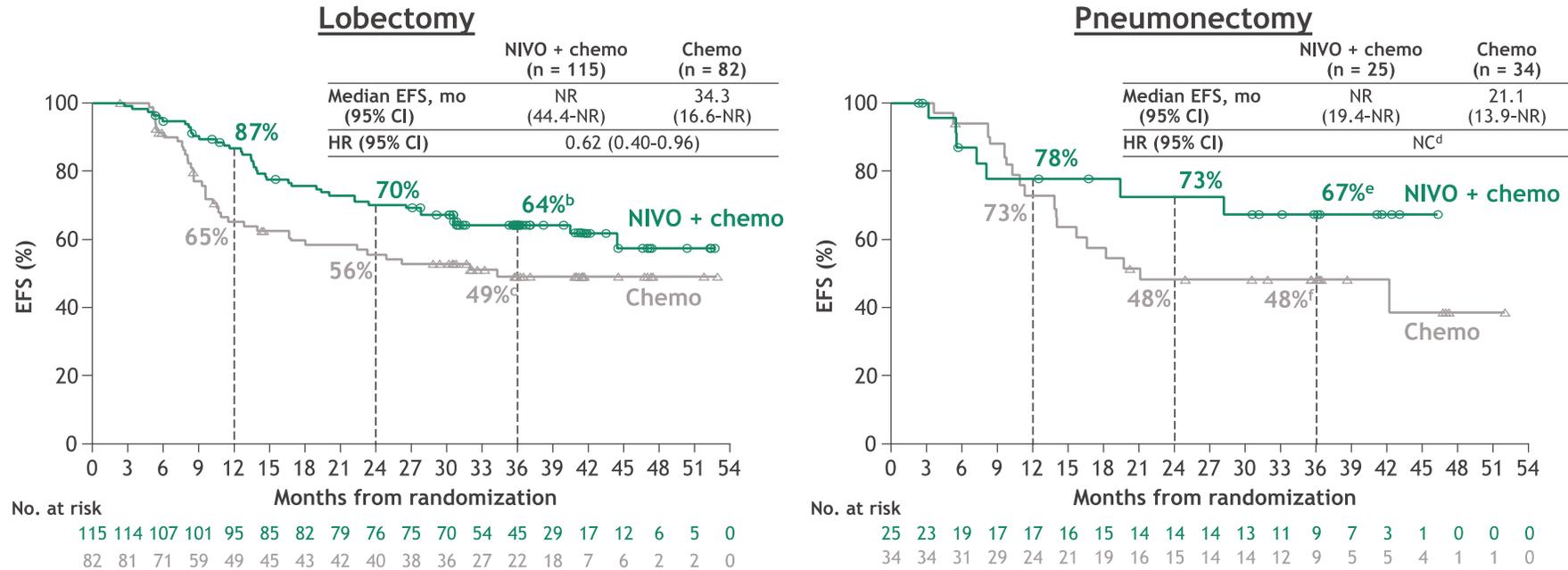
Minimum/median follow-up: 32.9/41.4 months.

^aAmong patients with definitive surgery in the NIVO + chemo and chemo arms, respectively, 30% and 21% had minimally invasive surgery; 70% and 79% had thoracotomy or conversion.

^b-^e95% CIs for 3-year EFS rates: ^b50-80; ^c33-70; ^d51-70; ^e40-61.

EFS by extent/completeness of resection

3-year update

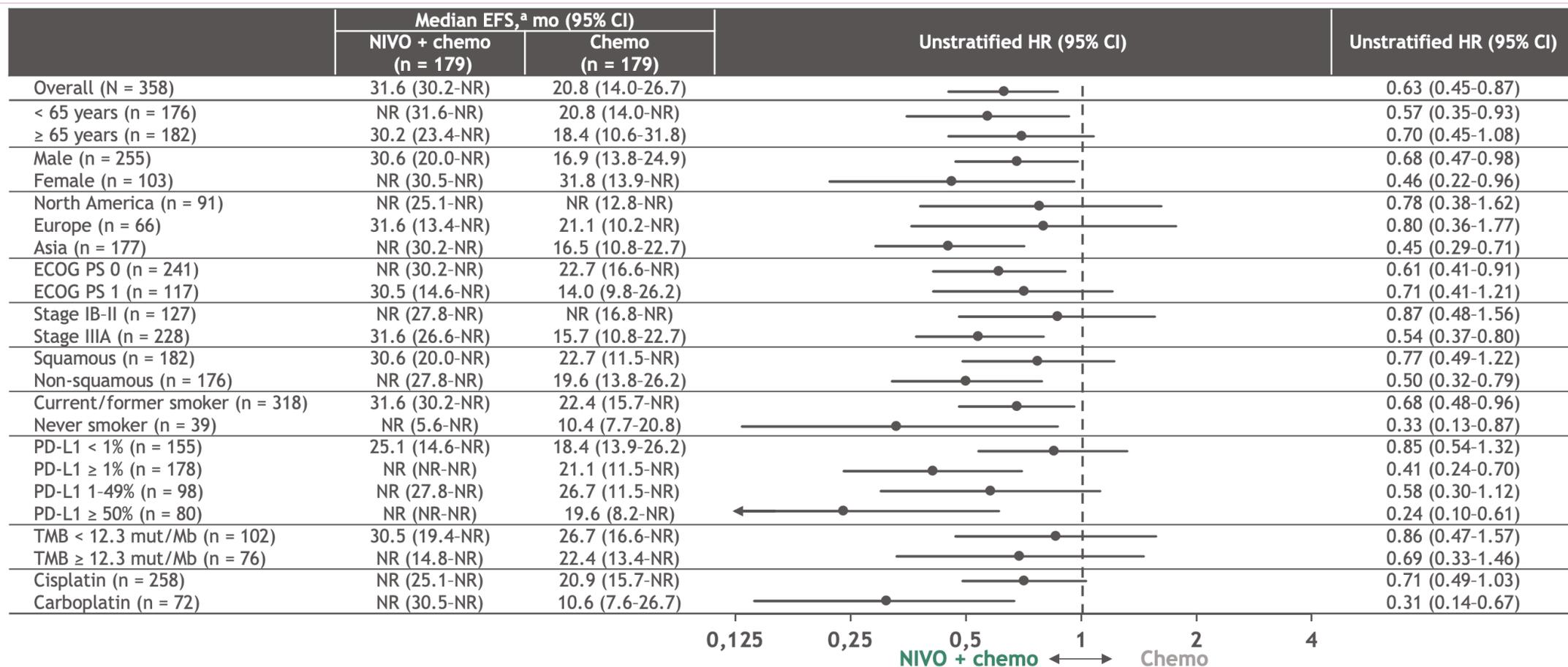


- In patients with R0 resection,^a 3-year EFS rates were 64%^g vs 51%^h for NIVO + chemo vs chemo, respectively (HR, 0.65; 95% CI, 0.43-0.98)

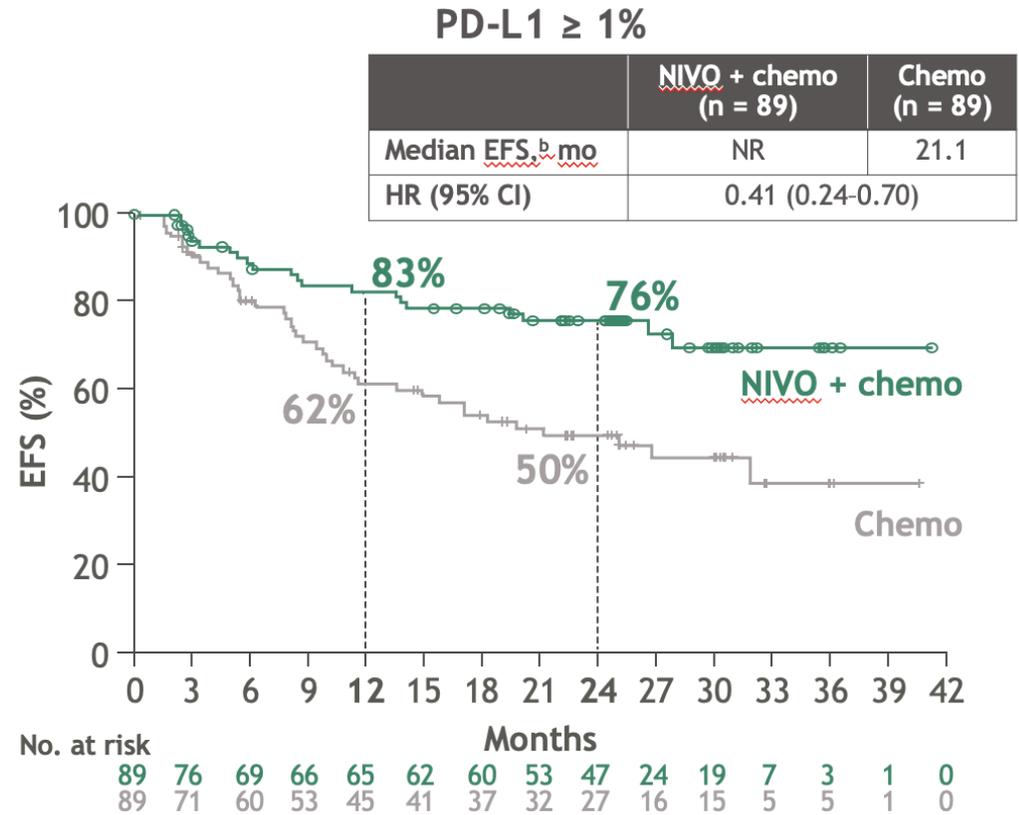
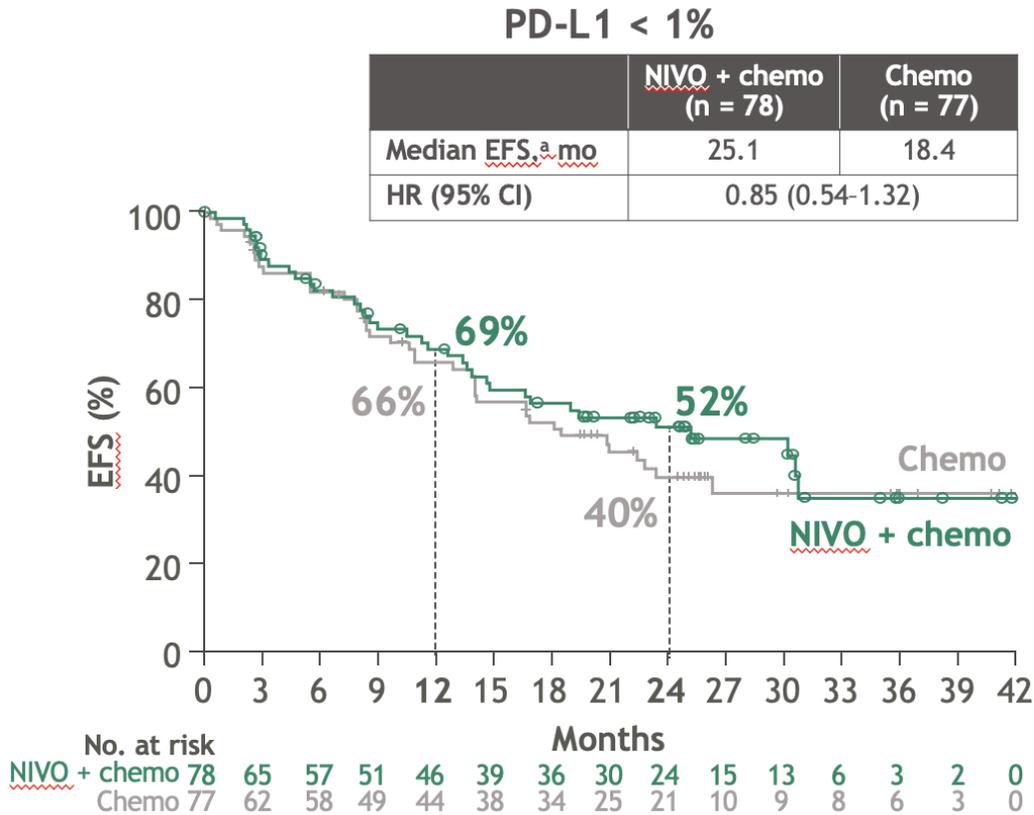
Minimum/median follow-up: 32.9/41.4 months.

^aPatients may have had ≥ 1 type of surgery. In the respective NIVO + chemo and chemo arms, surgery types included lobectomy (77% and 61%) and pneumonectomy (17% [11 right; 14 left] and 25% [12 right; 22 left]); patients with R0 resection: 83% and 78%. ^{b-c}95% CIs for 3-year EFS rates: ^b54-72; ^c37-60. ^dHR not calculated due to insufficient event numbers (< 10 per arm). ^{e-f}95% CIs for 3-year EFS rates: ^e43-83; ^f31-64; ^g55-72; ^h40-60. R0, no residual tumor.

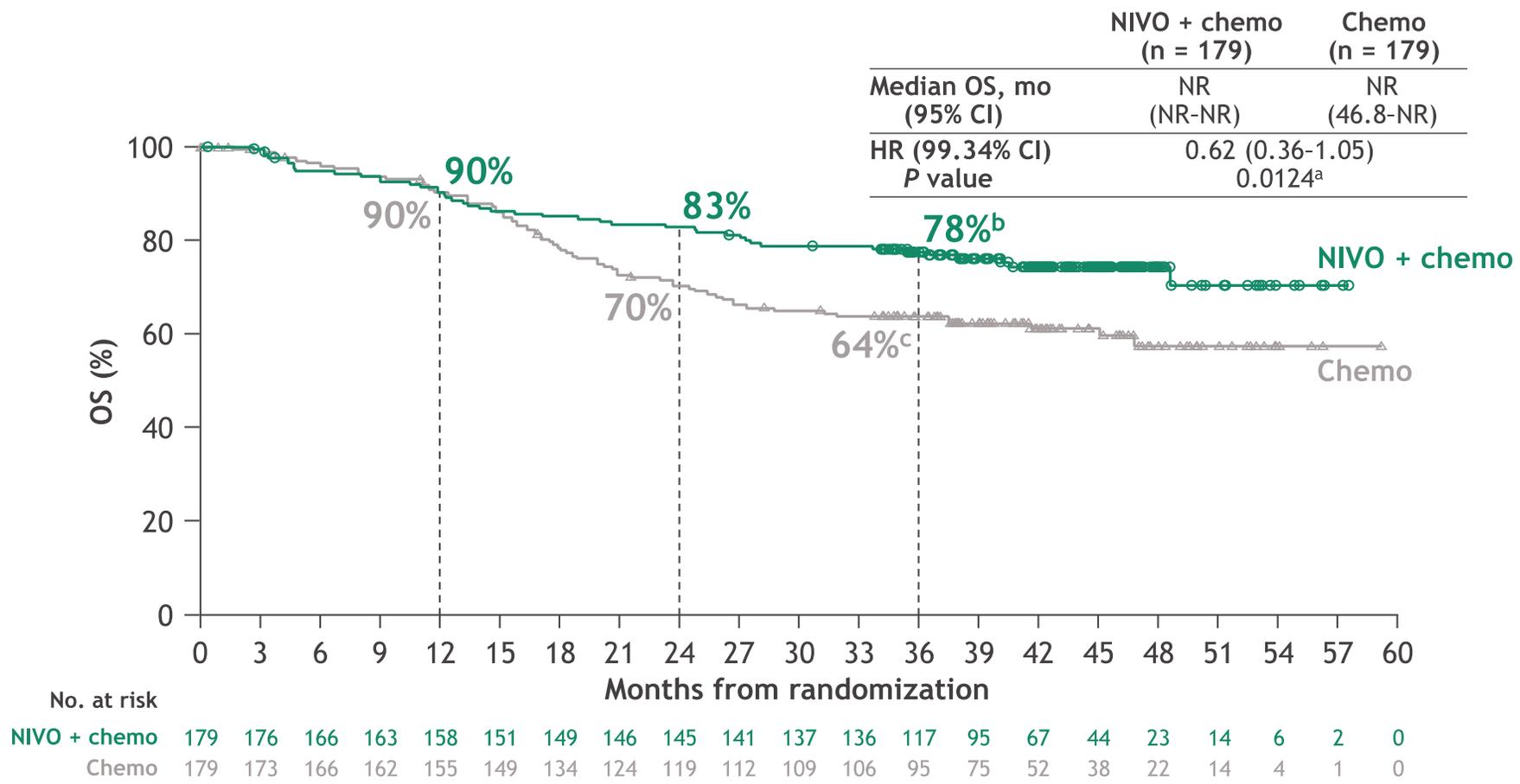
Checkmate 816: EFS subgroup analysis



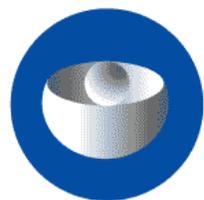
EFS by tumor PD-L1 expression < 1% or ≥ 1%



Checkmate 816: OS with neoadjuvant NIVO + chemo vs chemo 3-year update



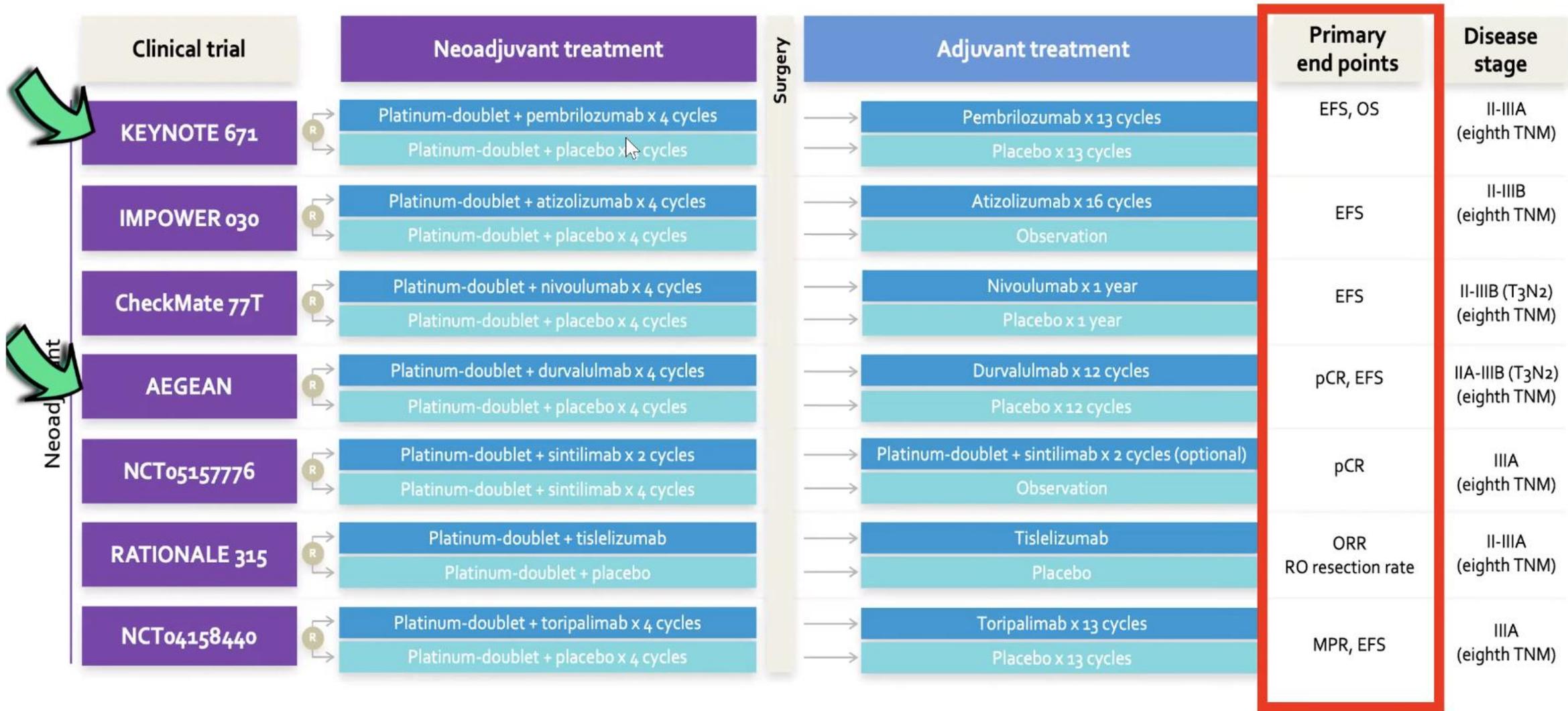
Minimum/median follow-up: 32.9/41.4 months.
^aSignificance boundary for OS was not crossed at this interim analysis. ^b<95% CIs for 3-year OS rates: ^b71-83; ^c56-70.



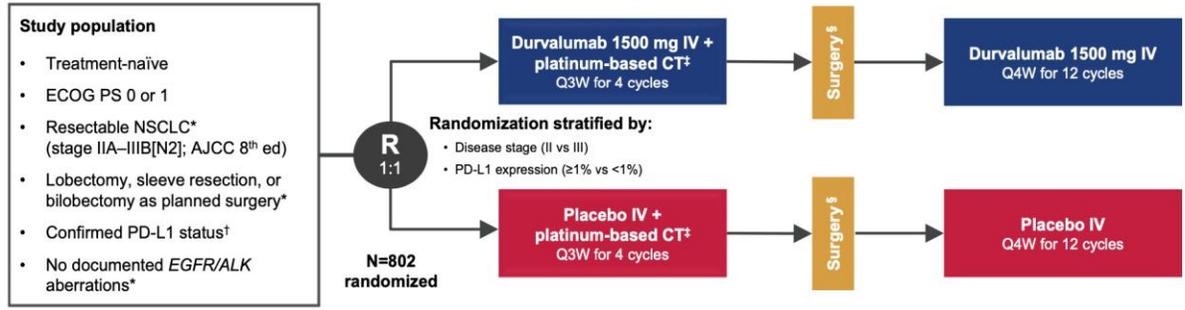
EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

OPDIVO in combination with platinum-based chemotherapy is indicated for the neoadjuvant treatment of resectable non-small cell lung cancer at high risk of recurrence in adult patients whose tumours have PD-L1 expression $\geq 1\%$.

	Clinical trial	Neoadjuvant treatment	Surgery	Adjuvant treatment	Primary end points	Disease stage
	Neoadjuvant					
	KEYNOTE 671	Platinum-doublet + pembrirozumab x 4 cycles Platinum-doublet + placebo x 4 cycles		Pembrirozumab x 13 cycles Placebo x 13 cycles	EFS, OS	II-III A (eighth TNM)
	IMPOWER 030	Platinum-doublet + atizolizumab x 4 cycles Platinum-doublet + placebo x 4 cycles		Atizolizumab x 16 cycles Observation	EFS	II-III B (eighth TNM)
	CheckMate 77T	Platinum-doublet + nivoulumab x 4 cycles Platinum-doublet + placebo x 4 cycles		Nivoulumab x 1 year Placebo x 1 year	EFS	II-III B (T ₃ N ₂) (eighth TNM)
	AEGEAN	Platinum-doublet + durvalulmab x 4 cycles Platinum-doublet + placebo x 4 cycles		Durvalulmab x 12 cycles Placebo x 12 cycles	pCR, EFS	IIA-III B (T ₃ N ₂) (eighth TNM)
	NCT05157776	Platinum-doublet + sintilimab x 2 cycles Platinum-doublet + sintilimab x 4 cycles		Platinum-doublet + sintilimab x 2 cycles (optional) Observation	pCR	III A (eighth TNM)
	RATIONALE 315	Platinum-doublet + tislelizumab Platinum-doublet + placebo		Tislelizumab Placebo	ORR RO resection rate	II-III A (eighth TNM)
	NCT04158440	Platinum-doublet + toripalimab x 4 cycles Platinum-doublet + placebo x 4 cycles		Toripalimab x 13 cycles Placebo x 13 cycles	MPR, EFS	III A (eighth TNM)



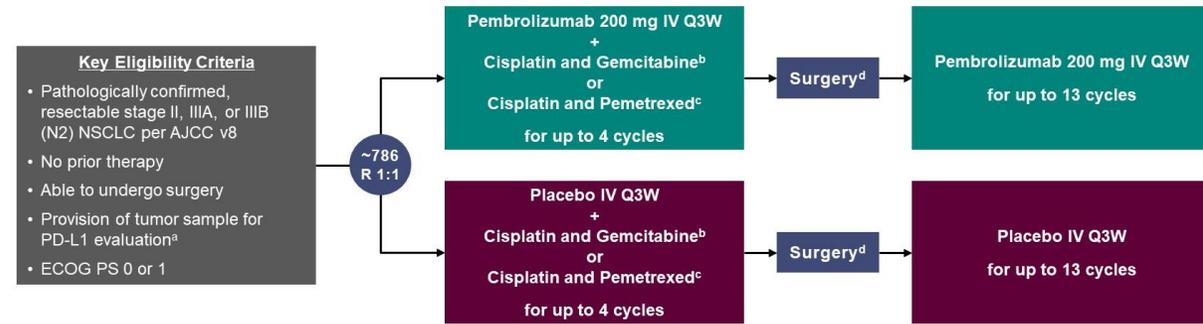
AEGEAN



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

KEYNOTE-671



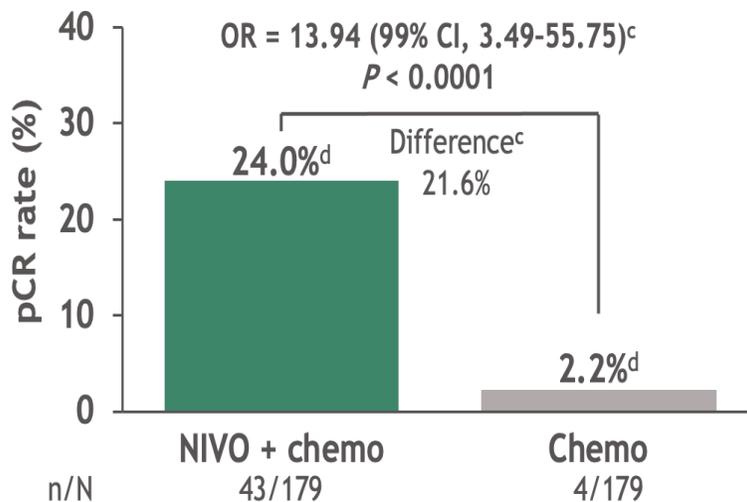
- Stratification Factors**
- Disease stage (II vs III)
 - PD-L1 TPS^a (<50% vs ≥50%)
 - Histology (squamous vs nonsquamous)
 - Geographic region (east Asia vs not east Asia)

Dual primary end points: EFS per investigator review and OS

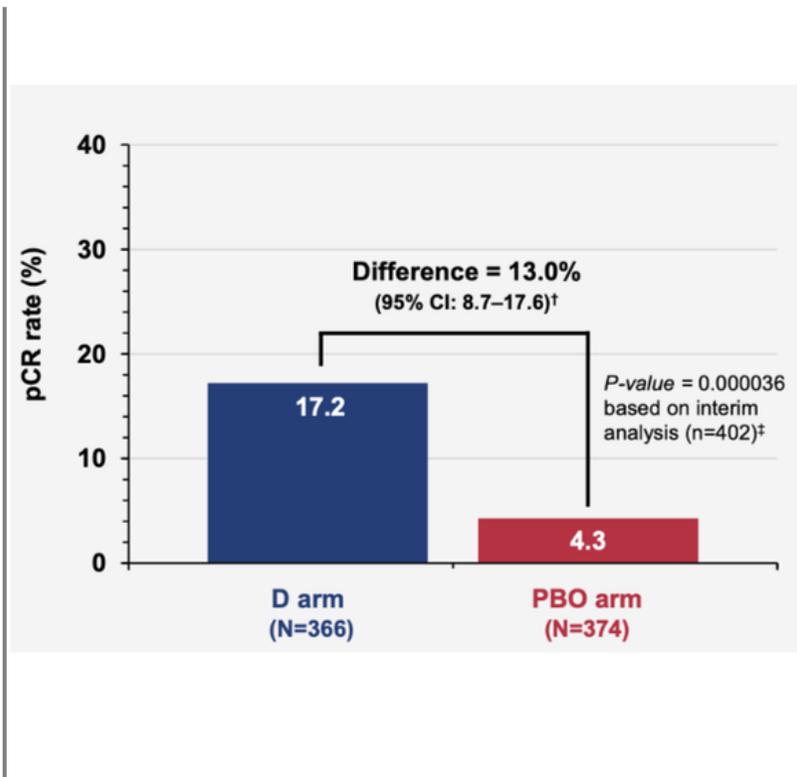
Key secondary end points: mPR and pCR per blinded, independent pathology review, and safety

AEGEAN NCT03800134	Resectable II - IIIB (N2) n=825	Durvalumab/placebo + chemo x 4 Surgery Consolidation durvalumab/placebo	pCR and EFS
KEYNOTE 671 NCT03425643	Resectable II-IIIB (N2) n=786	Pembrolizumab/placebo + chemo x 4 Surgery Consolidation pembrolizumab/placebo	EFS and OS

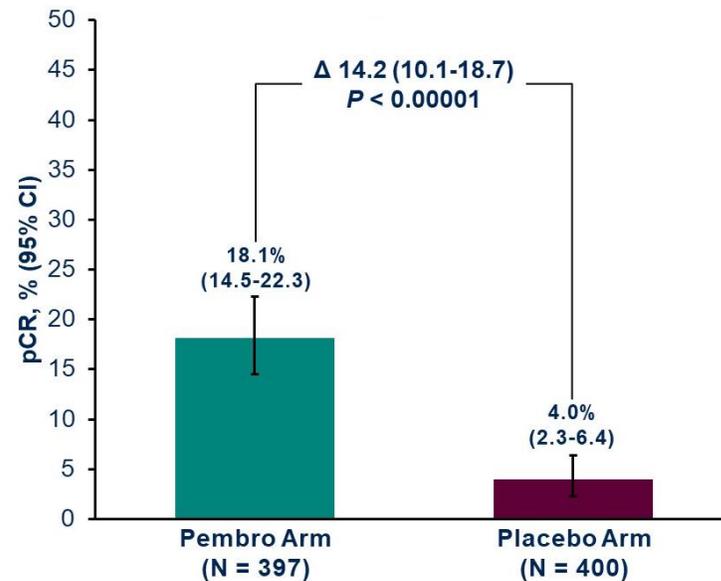
pCR



CHECKMATE 816



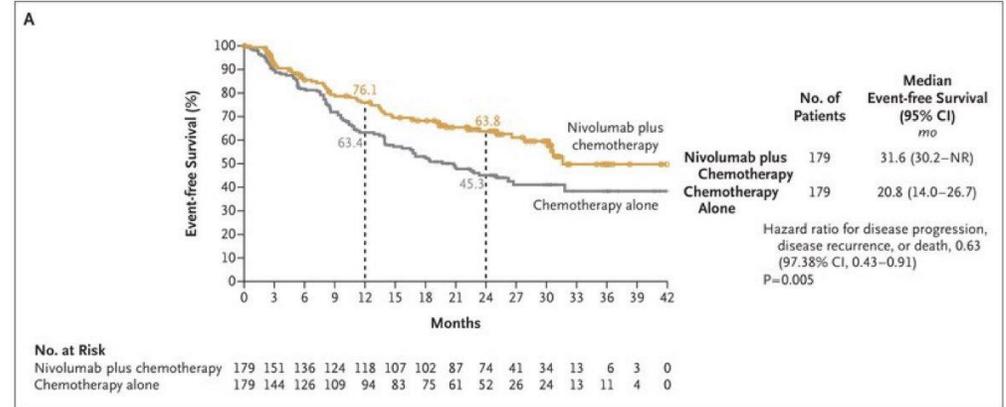
AEGEAN



KEYNOTE 671

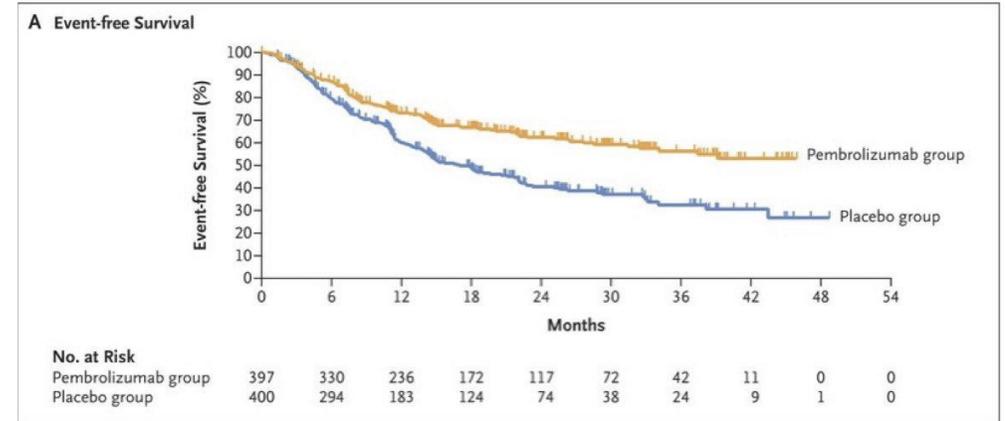
CHECKMATE 816: EFS

	NIVO + chemo (n = 179)	Chemo (n = 179)
Median EFS, ^c mo	31.6	20.8
HR (97.38% CI) ^d P value ^e	0.63 (0.43-0.91) 0.0052	



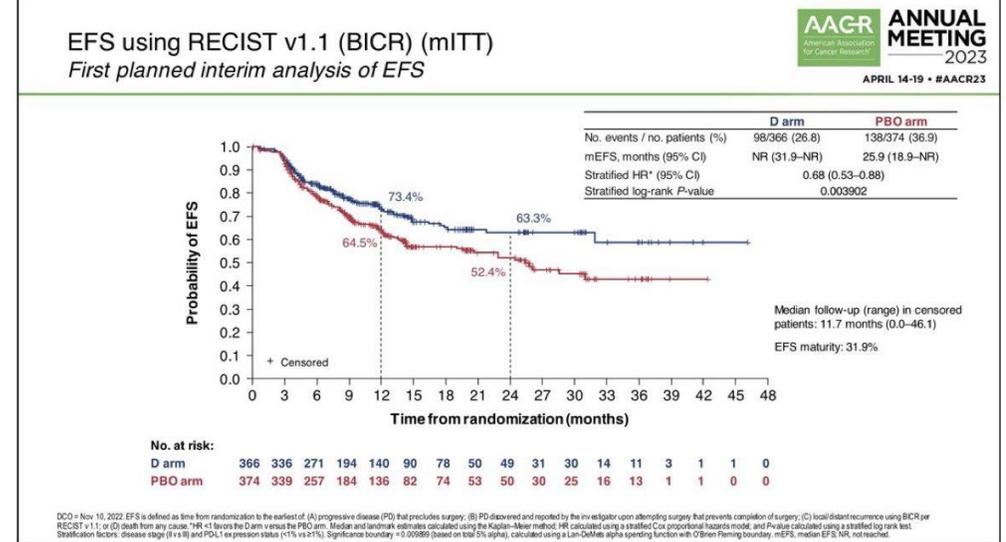
AEGEAN: EFS

	D arm	PBO arm
No. events / no. patients (%)	98/366 (26.8)	138/374 (36.9)
mEFS, months (95% CI)	NR (31.9–NR)	25.9 (18.9–NR)
Stratified HR* (95% CI)	0.68 (0.53–0.88)	
Stratified log-rank P-value	0.003902	



KEYNOTE-671: EFS

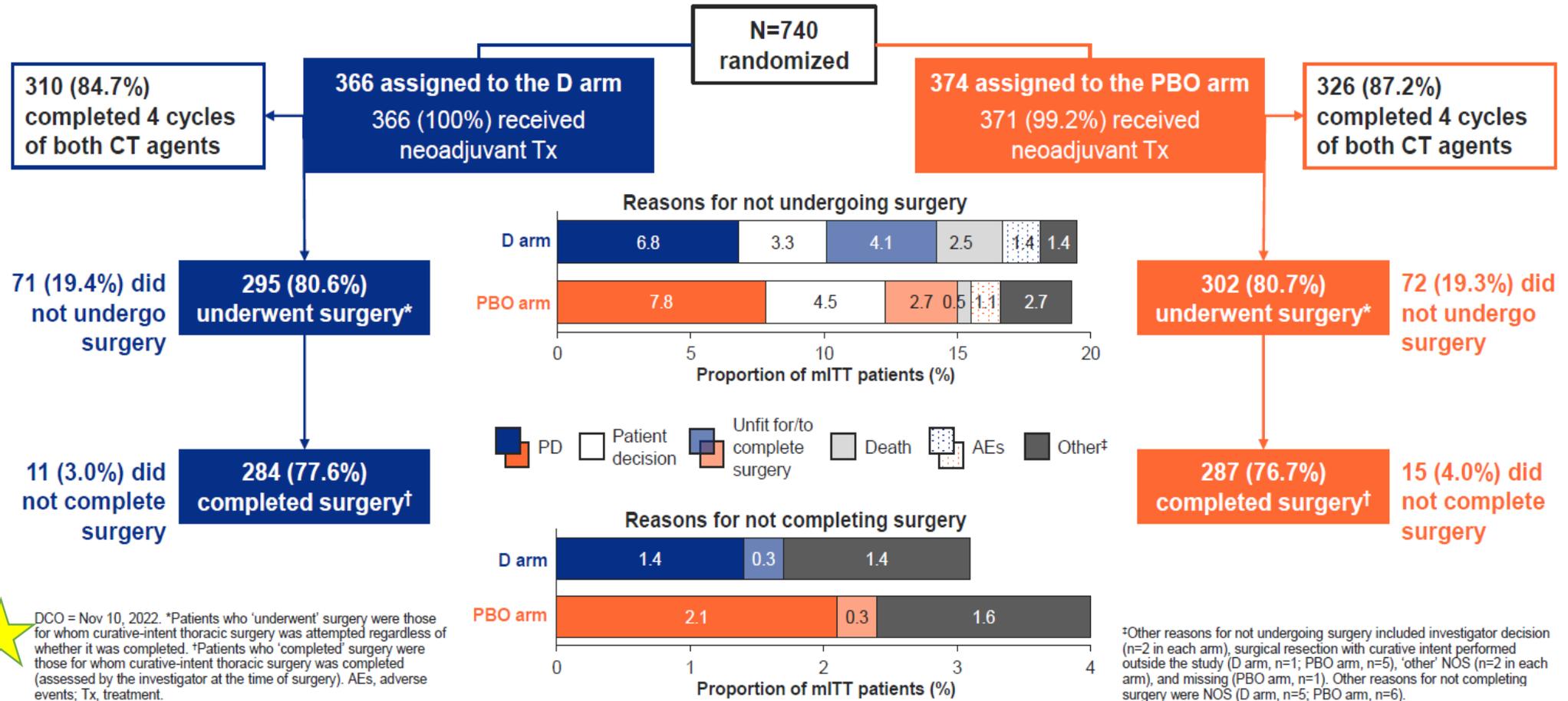
	Pts w/ Event	Median (95% CI), mo
Pembro arm	35.0%	NR (34.1-NR)
Placebo arm	51.3%	17.0 (14.3-22.0)



DDO = 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 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-values calculated using a stratified log-rank test. Stratification factors: disease stage (II vs III) and PD-1 expression status (<1% vs ≥1%). Significance boundary = 0.00989 (based on total P), alpha, calculated using a Lan-DeMette alpha spending function with O'Brien Fleming boundary. mEFS, median EFS; NR, not reached.



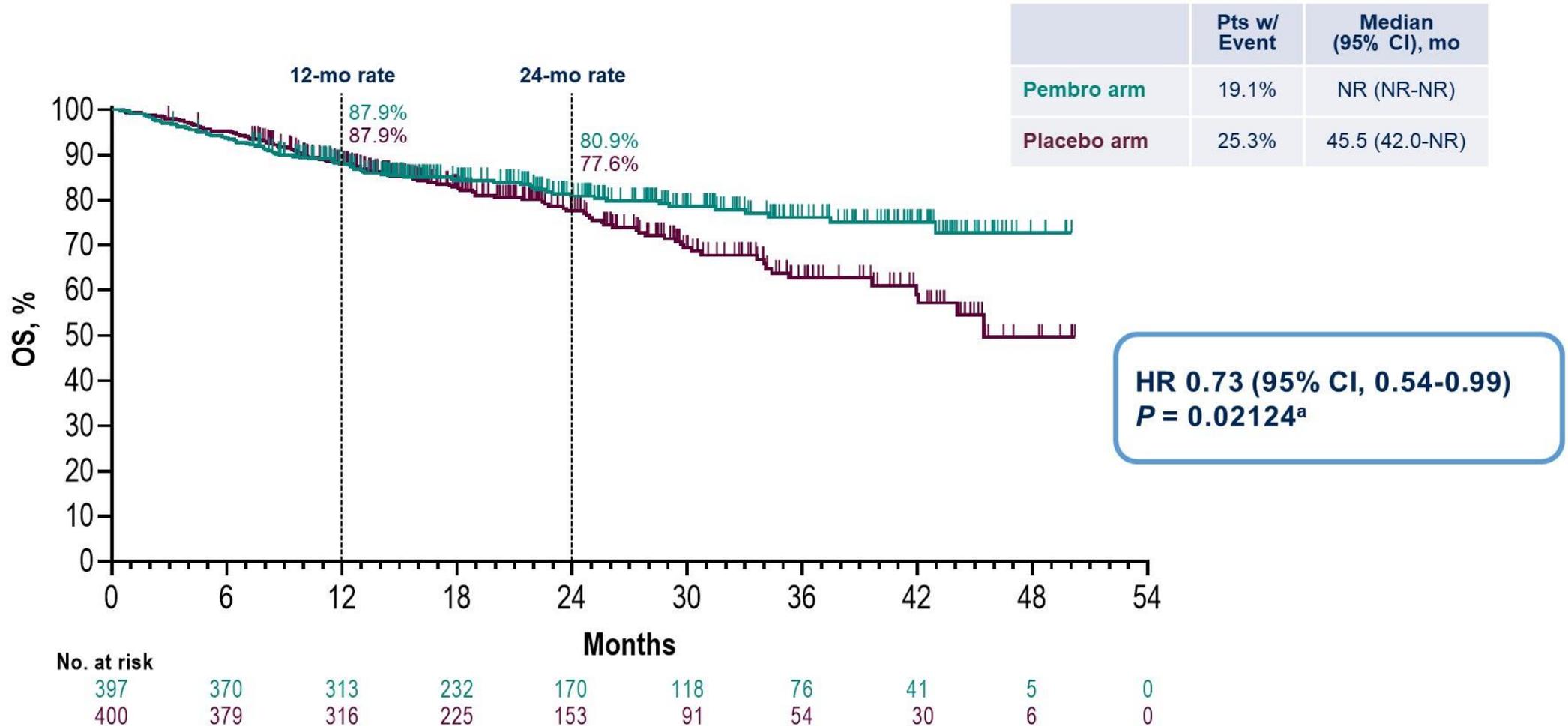
AEGEAN: Surgical Outcomes



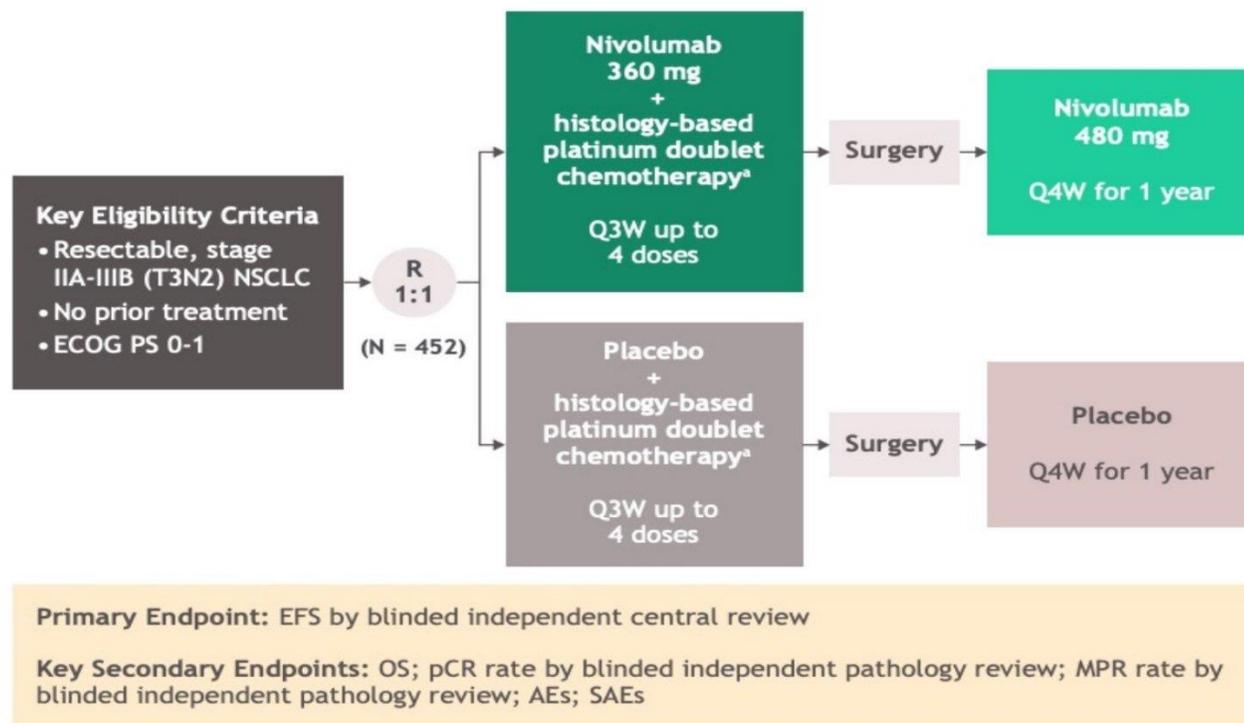
Surgery miss is related to **PD** and **patient's selection** [rarely to AEs]

★ DCO = Nov 10, 2022. *Patients who 'underwent' surgery were those for whom curative-intent thoracic surgery was attempted regardless of whether it was completed. †Patients who 'completed' surgery were those for whom curative-intent thoracic surgery was completed (assessed by the investigator at the time of surgery). AEs, adverse events; Tx, treatment.

KEYNOTE-671: OVERALL SURVIVAL



OS defined as time from randomization to death from any cause. ^a Significance boundary not met at IA1; OS will continue to be tested according to the analysis plan. Data cutoff date for IA1: July 29, 2022 (median follow-up, 25.2 mo [range, 7.5-50.6]).



Bristol Myers Squibb Announces Perioperative Regimen of Neoadjuvant Opdivo (nivolumab) and Chemotherapy Followed by Adjuvant Opdivo Significantly Improves Event-Free Survival in Patients with Resectable Non-Small Cell Lung Cancer

09/22/2023

CATEGORY: [Corporate/Financial News](#)

CheckMate -77T represents the company's second positive Phase 3 trial with an immunotherapy-based combination for the treatment of non-metastatic non-small cell lung cancer

CheckMate-816

KEYNOTE -671

AEGEAN

CheckMate-77T

@prettycooltim





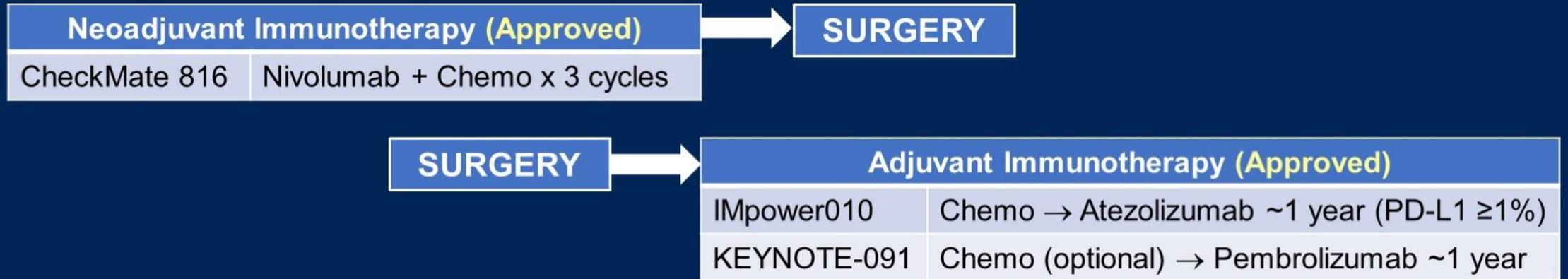
Patrick Forde @FordePatrick · 1g



I tried to persuade a company to do a 3 arm trial of neoadjuvant & adjuvant (with a different PD-1 a in one arm and a novel drug + PD-1 combo in the third) vs. CM816. Market research (among thoracic oncs!) told them the control arm was suboptimal due to not including adjuvant! 🙄

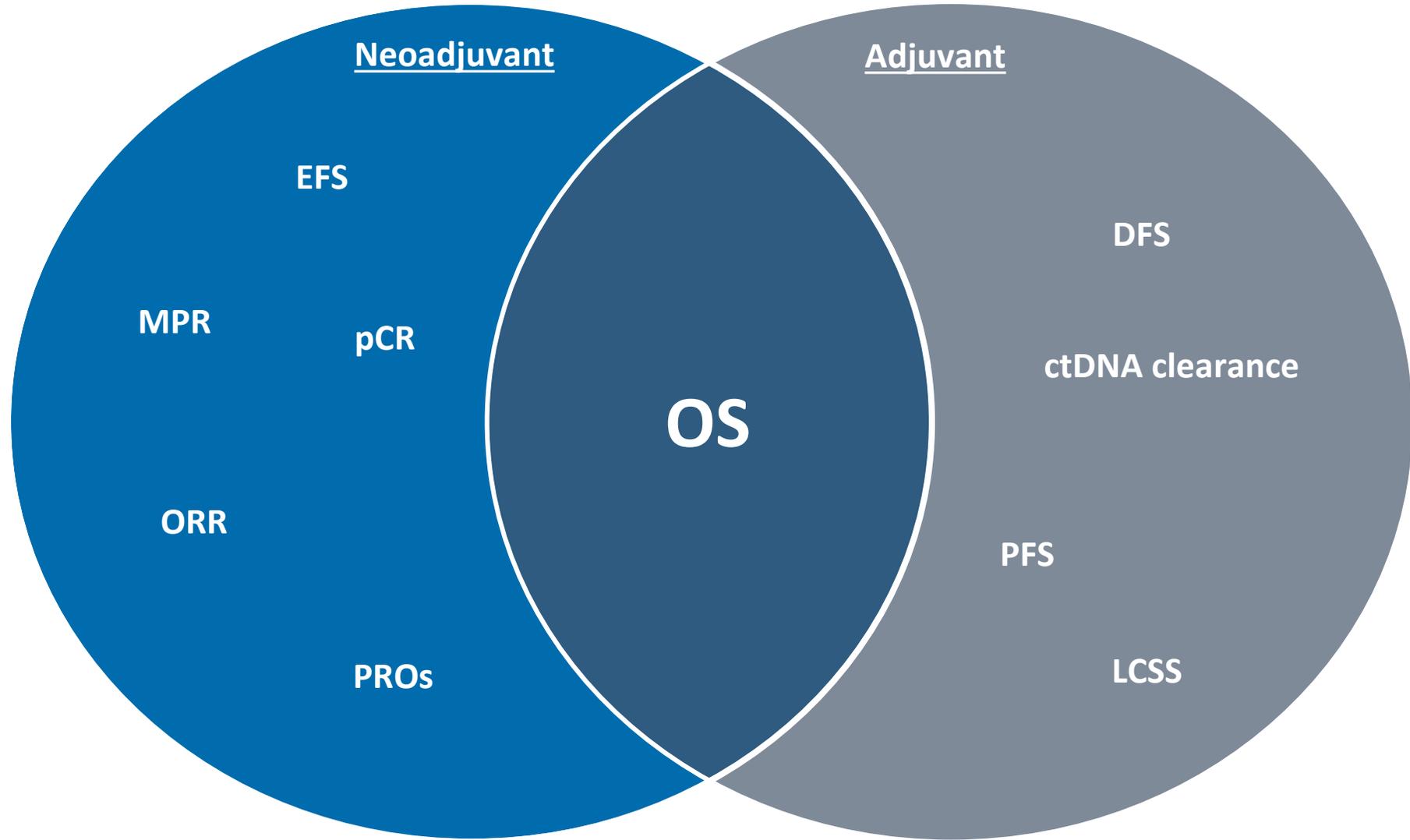


What we have:



PERIOPERATIVE IMMUNOTHERAPY Ph3 TRIALS

Study	Neoadjuvant Regimen →	SURGERY	→ Adjuvant Regimen
KEYNOTE-671	Pembrolizumab + Chemo x 4 cycles		Pembrolizumab ~1 year
AEGEAN	Durvalumab + Chemo x 4 cycles		Durvalumab ~1 year
Neotorch	Toripalimab + Chemo x 3 cycles		Toripalimab + Chemo x 1 cycle → Toripalimab ~1 year
CheckMate 77T	Nivolumab + Chemo x 4 cycles		Nivolumab ~1 year
IMpower030	Atezolizumab + Chemo x 4 cycles		Atezolizumab ~1 year



Noadjuvant

Adjuvant

OS

EFS

MPR

pCR

ORR

PROs

DFS

ctDNA clearance

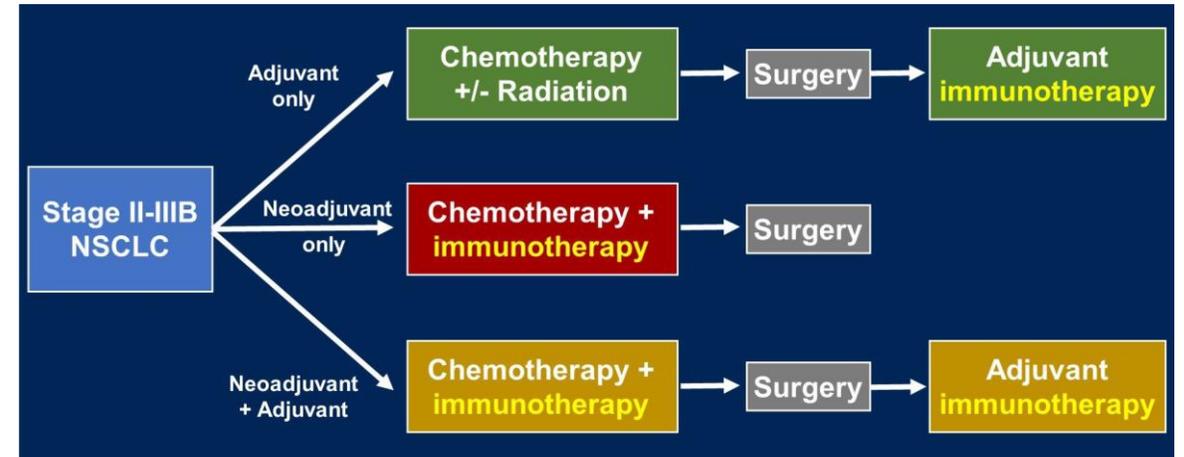
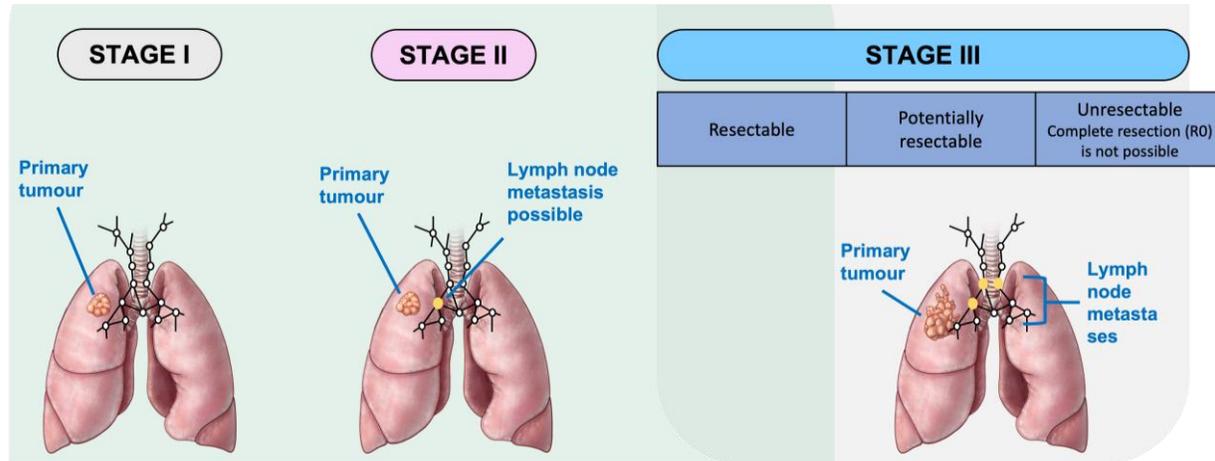
PFS

LCSS

Overall Survival Result Summary (Interim Analyses)

Immunotherapy Setting	Trial	Median f/u	HR (95% CI)	P value
Neoadjuvant + Adjuvant	KEYNOTE-671	25.2 mo	0.73 (0.54, 0.99)	0.02124
	Neotorch	18.2 mo	0.62 (0.381, 0.999)	0.0502
Neoadjuvant	CheckMate 816	41.4 mo	0.62 (0.36, 1.05)	0.0124
Adjuvant	IMpower010	45-46 mo	ITT Stage IB-III A: 0.995 (0.78, 1.28)	0.9661
			Stage II-III A: 0.95 (0.74, 1.24)	N/A
			Stage II-III A, PD-L1 TPS ≥1%: 0.71 (0.49, 1.03)	N/A
	KEYNOTE-091	35.6 mo	0.87 (0.67, 1.15)	0.17

WHAT WE WOULD NEED:





Grazie per l'attenzione!