

## Stage III NSCLC - Surgical/Combined Modality

MA01.08, OA13.03, ES31.05

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# 5-Year Clinical Outcomes of Perioperative Nivolumab and Chemotherapy in Stage III NSCLC (NADIM trial)

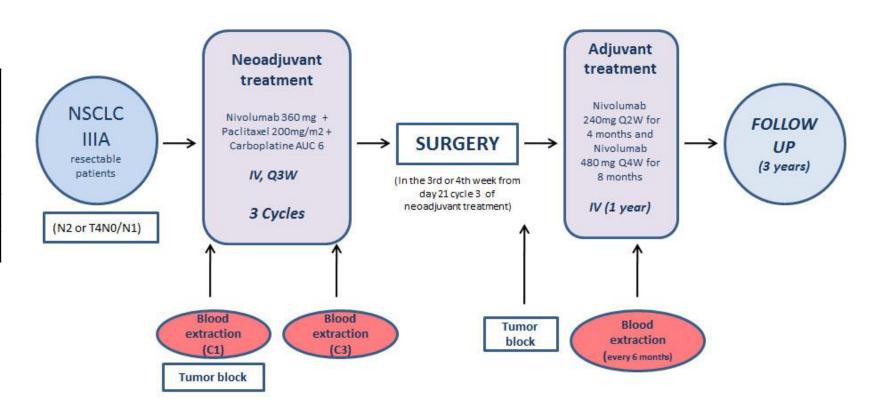
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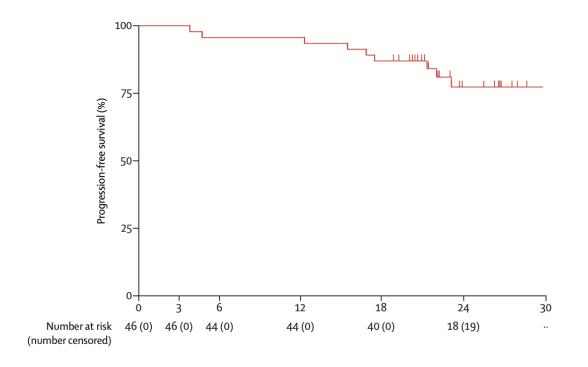


## NADIM I Trial Design

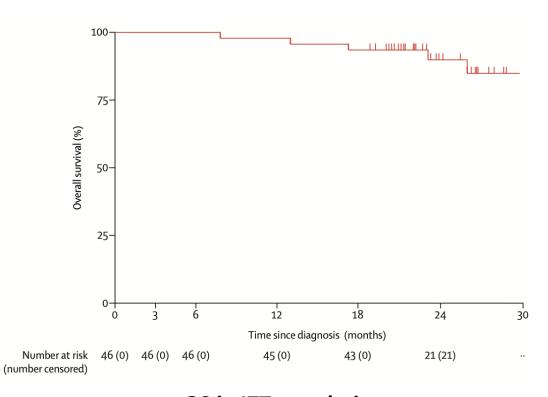
NADIM Patient baseline characteristics	N=46 (ITT)		
Age (median, range)	63 (41-77)		
Co-morbidities, N (%)	43 (93%)		
N2	33 (74%)		
Multiple station	25 (54%)		



#### NADIM I – 24 Month Outcomes



**PFS in ITT population** 77.1% (59.9-87.7) at 24 mo



OS in ITT population 89.9% (74.5-96.2) at 24 mo

Lancet Oncol 2020; 21: 1413-22

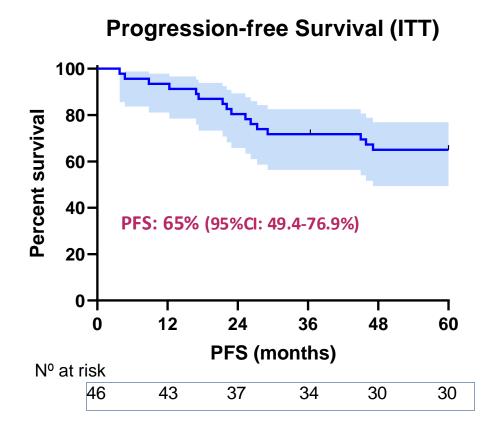


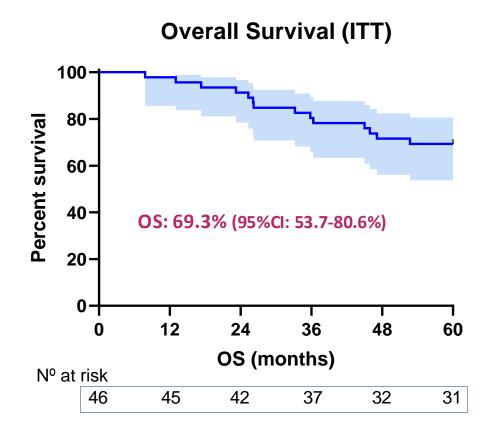
#### INTRODUCTION

- Neoadjuvant chemoimmunotherapy has been shown to be highly effective in resectable stage IIIA NSCLC.
- The significance of established immunotherapy biomarkers (PD-L1 TPS, TMB, ctDNA...) remains uncertain.
- We present the 5-year survival outcomes of the NADIM I study.



#### PFS and OS at 5-y in ITT population (n = 46)



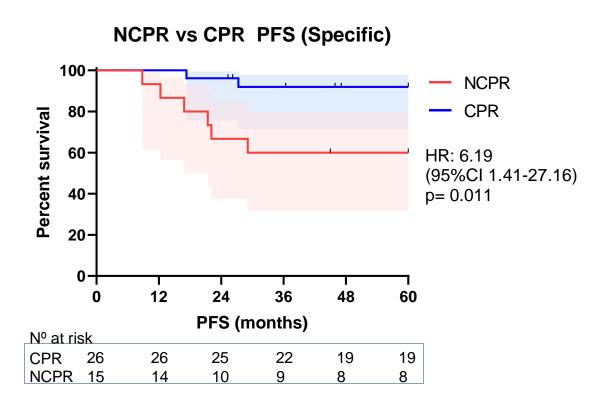


97.8% maturity at 60 months

ITT, intention to treat

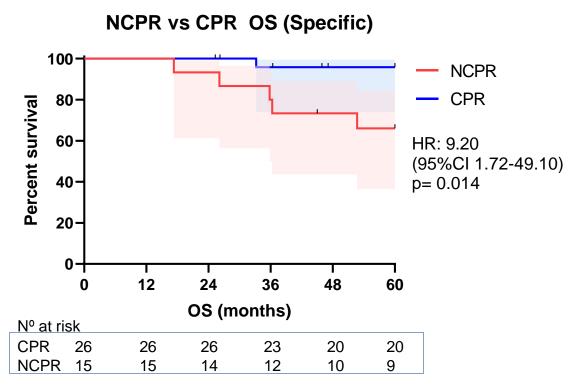
5-y NADIM

#### LONG-TERM SURVIVAL FOR RESECTED PATIENTS



NCPR PFS: 60% (95%CI: 31.8-79.7%)

CPR PFS: 92% (95%CI: 70.5-97.9%)

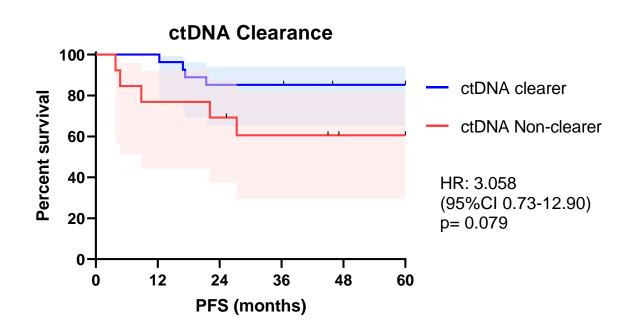


NCPR OS: 66% (95%CI: 36.5-84.3%)

CPR OS: 95.8% (95%CI: 73.9-99.4%)

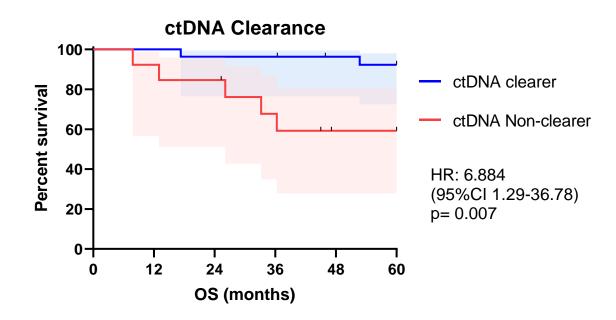


#### PREDICTIVE BIOMARKERS (III)



PFS Non-ctDNA clearer: 60.6% (95%CI: 29.4-81.4%)

PFS ctDNA clearer: 85.2% (95%CI: 65.2-94.2%)



OS Non-ctDNA clearer: 59.2% (95%CI: 27.9-80.7%)

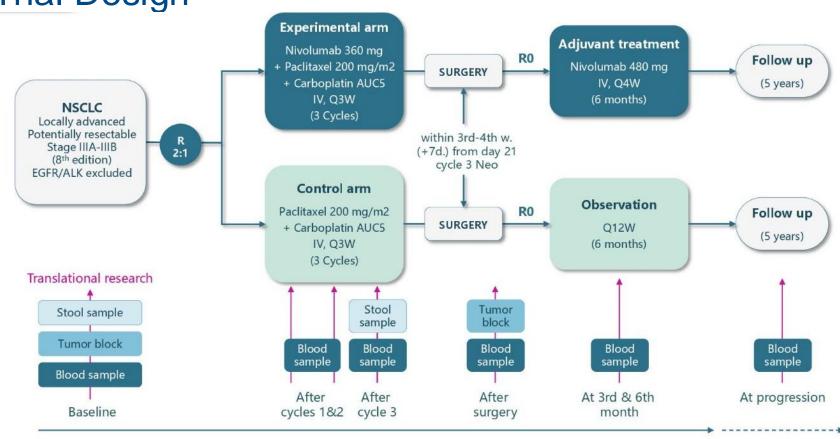
OS ctDNA clearer: 92.3% (95%CI: 72.5-98%)

#### 5-y NADIM

#### **CONCLUSIONS**

- NADIM I **confirms the robust clinical benefit** of perioperative chemo-immunotherapy **at 5 years**, reinforcing its use in resectable stage IIIA NSCLC.
  - → 5-years PFS (ITT): 65.0% (95% CI 49.4-76.9)
  - → 5-years OS (ITT): 69.3% (95% CI 53.7-80.6)
- There are no signs of late toxicity nor of treatment-related deaths.
- Particular benefit is observed in patients who achieved CPR and might serve as good surrogates for survival.
  - → 5-years PFS: 92.0% (95% CI 70.5-97.9) with CPR vs 60.0% (95% CI 31.8-79.7) with non-CPR
  - → 5-years OS: 95.8% (95% CI 73.9-99.4) with CPR vs 66.0% (95% CI 36.5-84.3) with non-CPR
- ctDNA clearance after neoadjuvant treatment showed a good prediction of PFS and OS (especially valuable in patients with a worse prognosis).
- Neither PD-L1 tumor proportion score nor TMB are markers of PFS or OS.





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



#ASC022

PRESENTED BY: Mariano Provencio MD, PhD. Hospital Puerta de Hierro Majadahonda-Madrid, SPAIN Spanish Lung Cancer Group

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#### NADIM II – 24 Month Outcomes

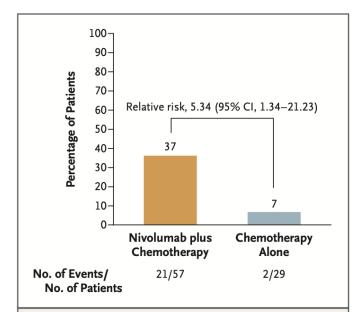
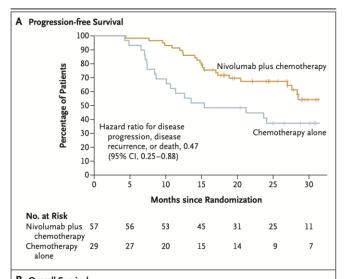


Figure 1. Pathological Complete Response (Intentionto-Treat Population).

The intention-to-treat population included all the patients who had undergone randomization and received at least one cycle of neoadjuvant treatment. All the patients who underwent surgery (73 patients) had a valid assessment of pathological response. A pathological complete response was defined as 0% residual viable tumor cells in both the primary tumor (lung) and sampled lymph nodes. Patients who did not undergo surgery were considered to have not had a response.

**PCR** 37% vs. 7% HR 5.34 (1.34-21.23)



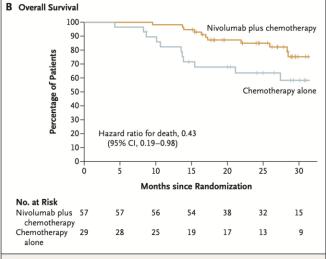


Figure 2. Kaplan-Meier Curves for Progression-free Survival and Overall Survival (Intention-to-Treat Population).

#### PFS at 12 mo

89.5% vs. 58.6% HR 0.47 (0.25-0.88)

#### OS at 12 mo

98.2% vs. 82.1% HR 0.43 (0.19-0.98)

## Perioperative Durvalumab for Resectable NSCLC

#### Updated Outcomes from the Phase 3 AEGEAN Trial

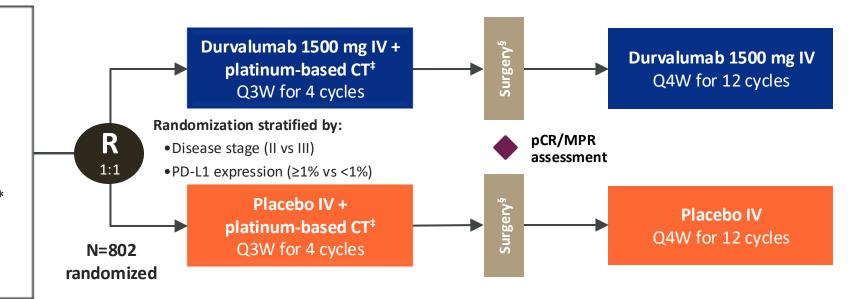
John V. Heymach,<sup>1</sup> David Harpole,<sup>2</sup> Tetsuya Mitsudomi,<sup>3</sup> Janis M. Taube,<sup>4</sup> Shugeng Gao,<sup>5</sup>
Laszlo Urban,<sup>6</sup> Jin Hyoung Kang,<sup>7</sup> Francisco J. Orlandi,<sup>8</sup> Jeronimo Rodriguez-Cid,<sup>9</sup> Bartomeu Massuti,<sup>10</sup>
Luis Leon Mateos,<sup>11</sup> Giulia Pasello,<sup>12</sup> Quincy Chu,<sup>13</sup> Jaroslaw Kolb-Sielecki,<sup>14</sup> Masao Nakata,<sup>15</sup> Mike Aperghis,<sup>16</sup>
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#### AEGEAN study design

#### **Study population**

- Resectable NSCLC\*
   (stage IIA–IIIB[N2]; AJCC 8<sup>th</sup> ed)
- Treatment-naïve
- ECOG PS 0 or 1
- Lobectomy, sleeve resection, or bilobectomy as planned surgery\*
- Confirmed PD-L1 status<sup>†</sup>
- No documented EGFR/ALK aberrations\*



Efficacy analyses were performed in the mITT population (or its resected subpopulation), which excluded patients with documented EGFR/ALK aberrations ¶

**Primary endpoints:** pCR, evaluated centrally (IASLC 2020<sup>1</sup>), and EFS per BICR (RECIST v1.1)

Key secondary endpoints: MPR, evaluated centrally (IASLC 20201), DFS per BICR (RECIST v1.1) in the resected subpopulation, and OS

# Data cutoff November 10, 2022 May 10, 2024 Median EFS follow-up Data maturity EFS interim analysis #2 (reported here) November 10, 2022 11.7 months (censored patients) 25.9 months (censored patients) 39.1%

<sup>1</sup>Travis WD. et al. J Thorac Oncol 2020:15:709–40.

#### Background

- In the global phase 3 AEGEAN trial in patients with R-NSCLC, perioperative durvalumab + neoadjuvant CT, vs neoadjuvant CT alone, significantly improved the primary endpoints of EFS and pCR, with a safety profile consistent with the individual agents,<sup>1</sup> leading to recent FDA approval
  - EFS HR = 0.68 (95% CI: 0.53-0.88); P=0.004

#### 12 mo median follow-up

- Difference in pCR rate = 13.0% (95% CI: 8.7–17.6); P<0.001\*</li>
- Benefit in EFS was achieved at the first planned interim analysis, when ~23% of patients were still receiving adjuvant Tx
- Here, we present updated EFS and other results from the second planned interim analysis, based on 25.9 months median follow-up (censored patients) and 39.1% maturity
   24 mo median follow-up



### Baseline disease characteristics and planned treatment (mITT)

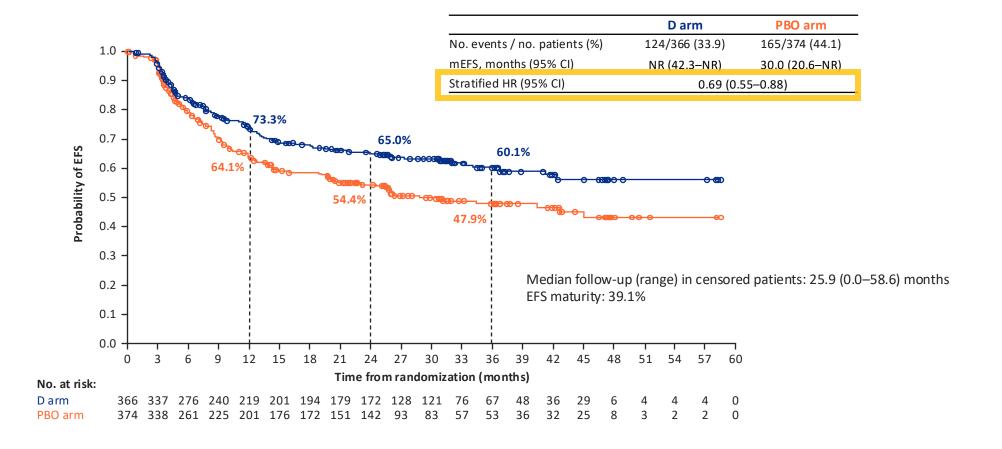
- Baseline characteristics were largely balanced between arms in the mITT population
  - The resected subpopulation for DFS analysis, which had RO/R1 margins and no evidence of progression in their first post-surgery scan, † had baseline characteristics broadly similar to the overall mITT population
- The planned neoadjuvant CT doublet was carboplatin-based for >70% of patients

		mITT population*1				
Characteristics		D arm (N=366)	PBO arm (N=374)			
Age	Median (range), years	65.0 (30–88)	65.0 (39–85)			
	≥75 years, %	12.0	9.6			
Sex, %	Male	68.9	74.3			
ECOG PS, %	0	68.6	68.2			
ECOG P3, %	1	31.4	31.8			
	Asian	39.1	43.9			
Race⁺, %	White	56.3	51.1			
	Other	4.6	5.1			
	Asia	38.8	43.6			
Decies 0/	Europe	38.5	37.4			
Region, %	North America	11.7	11.5			
	South America	10.9	7.5			
	Current	26.0	25.4			
Smoking status, %	Former	60.1	59.6			
	Never	13.9	15.0			
Disease store	II	28.4	29.4			
Disease stage (AJCC 8 <sup>th</sup> ed.), %	IIIA	47.3	44.1			
(AUCC 8" eu.), %	IIIB	24.0	26.2			
Uistalagu 9/	Squamous	46.2	51.1			
Histology, %	Non-squamous	53.6	47.9			
PD-L1 expression, %	TC <1%	33.3	33.4			
	TC 1-49%	36.9	38.0			
	TC ≥50%	29.8	28.6			
Planned neoadjuvant	Cisplatin	27.3	25.7			
platinum agent, %	Carboplatin	72.7	74.3			

<sup>1</sup>Heymach JV, et al. N Engl J Med 2023:389:1672-84

### Updated EFS (second planned interim analysis; mITT)

• EFS benefit favoring the durvalumab arm was maintained and consistent with that reported previously<sup>1</sup>



#### Updated EFS by subgroup (mITT)

• EFS benefit was maintained across predefined subgroups

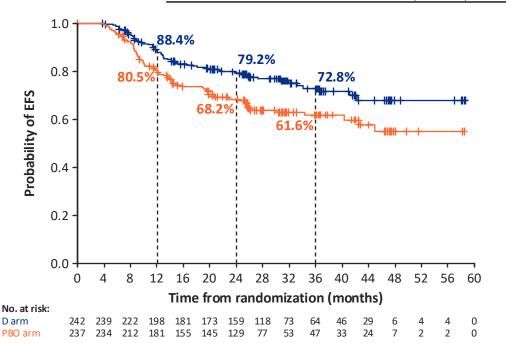
			Median EFS,	months (95% CI)						
Subgroup		n	D arm (N=366)	PBO arm (N=374)						HR (95% CI)
All patients		740	NR (42.3–NR)	30.0 (20.6–NR)						0.69 (0.55–0.88)
Age at randomization	<65 years	358	NR (NR-NR)	34.4 (19.8–NR)			-1;			0.69 (0.48–0.97)
	, ≥65 years	382	NR (31.9–NR)	25.9 (15.1–NR)		-	•			0.71 (0.52–0.97)
Sex	Male	530	NR (41.2–NR)	25.9 (19.8–NR)		<b>⊢</b>	<u> </u>			0.66 (0.50-0.88)
	Female	210	NR (33.2-NR)	40.4 (15.1–NR)		<b></b>	-			0.80 (0.52-1.23)
ECOG PS	0	506	NR (42.3-NR)	31.1 (19.5-NR)		<b>—</b>	i			0.66 (0.50-0.88)
	1	234	NR (21.8-NR)	28.6 (18.9-NR)		-				0.79 (0.52-1.20)
Raœ*	Asian	307	NR (42.3-NR)	25.9 (19.5–NR)		<b>—</b>				0.66 (0.45-0.95)
	Non-Asian	433	NR (33.2-NR)	31.1 (15.7-NR)		<u> </u>	¦			0.73 (0.54-0.99)
Smoking	Current	190	NR (33.2-NR)	20.4 (8.1–NR)	<u> </u>	_	<b>—</b> !			0.52 (0.32-0.82)
	Former	443	NR (41.2-NR)	30.0 (20.7-NR)		H-	•			0.75 (0.56-1.02)
	Never	107	NR (13.0-NR)	34.4 (14.7-NR)		-	<u> </u>			0.88 (0.47-1.61)
Histology	Squamous	360	NR (41.2-NR)	40.4 (15.1-NR)		H	•——-I¦			0.70 (0.49–0.98)
	Non-squamous	375	NR (36.6–NR)	28.6 (19.8-NR)		<u> </u>	•——I¦			0.73 (0.53–1.00)
Disease stage	Stage II	214	NR (41.2–NR)	NR (34.4–NR)		H-	<del></del>			0.82 (0.49–1.34)
(AJCC 8th ed.)	Stage IIIA	338	NR (42.3-NR)	25.8 (11.7–45.0)		•	<b>—</b> i			0.60 (0.42–0.84)
	Stage IIIB	186	36.6 (12.7-NR)	19.8 (11.7–42.6)		<b>—</b>	• -			0.81 (0.53–1.23)
Lymph node station	N2 single	273	NR (NR-NR)	22.8 (13.9–42.6)		-	<b>—</b>			0.58 (0.39–0.85)
	N2 multi	74	31.9 (9.3-NR)	12.2 (7.2-NR)		_	!	1		0.78 (0.40–1.49)
PD-L1 expression at baseline <sup>†</sup>	TC <1%	247	NR (24.7–NR)	20.6 (14.3-NR)		-	<del>• 4</del>			0.69 (0.46–1.02)
	TC 1-49%	277	NR (31.9-NR)	25.9 (12.3-NR)		1	<del>- i</del> l			0.73 (0.50–1.05)
	TC ≥50%	216	NR (41.2-NR)	NR (24.5–NR)			<del>'</del> 1			0.71 (0.44–1.12)
Planned neoadjuvant	Cisplatin	196	NR (NR-NR)	45.0 (13.9–NR)	H		-1;			0.58 (0.35–0.93)
platinum agent	Carboplatin	544	NR (36.6-NR)	26.2 (20.6-NR)			· I			0.75 (0.57–0.97)
					0.25	0.5	1	2	3	
						4	Hazard ratio	<b>&gt;</b>		
						Favors	s D arm Favors	PBO arm		

### EFS by adjuvant treatment status (exploratory analysis, mITT)

• EFS benefit in the durvalumab arm was more pronounced in patients who received adjuvant treatment

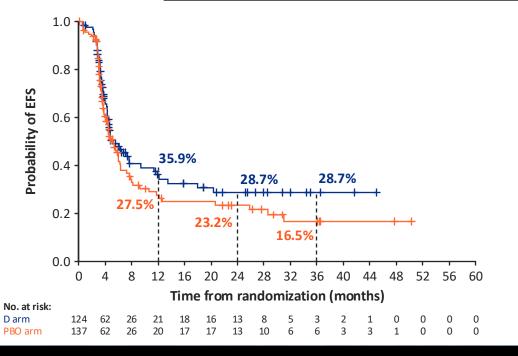
#### **Received adjuvant treatment**

	D arm	PBO arm	
No. events / no. patients (%)	58/242 (24.0)	83/237 (35.0)	
mEFS, months (95% CI)	NR (NR-NR)	NR (42.6–NR)	
Unstratified HR (95% CI)	0.62 (0.44-0.86)		



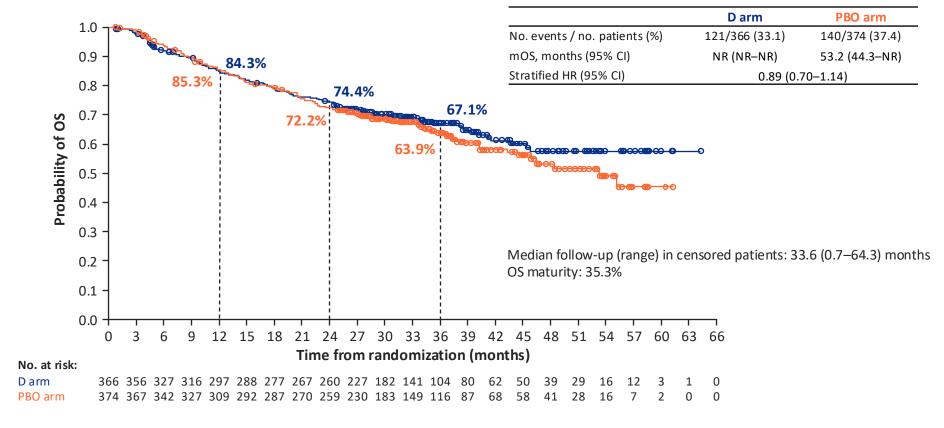
#### Did not receive adjuvant treatment

	D arm	PBO arm	
No. events / no. patients (%)	66/124 (53.2)	82/137 (59.9)	
mEFS, months (95% CI)	5.1 (4.5-9.3)	5.2 (4.1-6.3)	
Unstratified HR (95% CI)	0.83 (0.60-1.14)		



### OS (mITT)

Based on 35% maturity, an OS trend favoring the durvalumab arm was observed



- Preplanned analysis censoring patients with cause of death due to COVID-19: OS HR = 0.84 (95% CI: 0.66–1.08)

#### **Conclusions**

- EFS benefit in favor of the durvalumab arm remained consistent with that reported previously<sup>1</sup>
  - Updated EFS HR = 0.69 (95% CI: 0.55-0.88)
  - EFS benefit was maintained across predefined subgroups, including within the planned neoadjuvant platinum subgroups
  - In separate exploratory analyses, EFS benefit in the durvalumab arm was more pronounced in patients who received adjuvant treatment and favored the durvalumab arm regardless of pCR status
- Clinically meaningful DFS improvement and an OS trend favoring the durvalumab arm were observed
  - In separate exploratory analyses, the magnitude of DFS benefit with durvalumab was larger in patients with pCR and improvement in lung cancer-specific survival also favored the durvalumab arm
- Perioperative durvalumab + neoadjuvant CT was associated with a manageable AE profile, with no new safety signals observed at this update

These findings, with additional follow-up, further support FDA-approved perioperative durvalumab as a new treatment option for patients with R-NSCLC

# Resection After IO or Targeted Therapies: How Hard Is It?

Mara B. Antonoff, MD
UT MD Anderson Cancer Center
USA

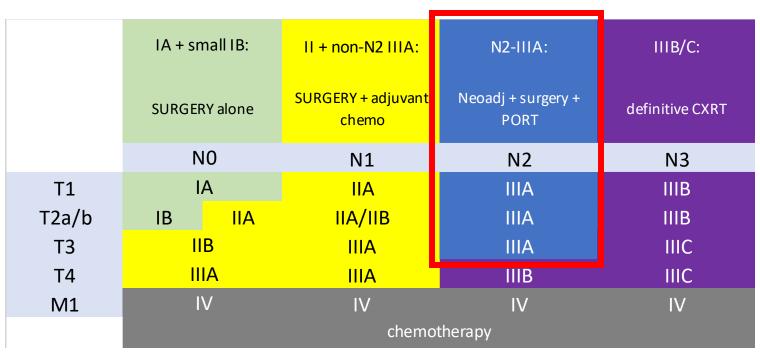


Making Cancer History®

## Role of Neoadjuvant Therapy: Historical

 Recommended for patients with

- T3 or T4 tumors
- IIIA-N2 disease
- Superior sulcus tumors
- Agents
  - Platinum-based doublets +/radiation
- More recent:
  - Anti PD-1 and PDL-1 immunotherapies
  - Ongoing trials: targeted therapies



## **NSCLC** treatment – Now

	I.	A	IB-	-IIIA	Unresectable IIIB–IIIC
		xtend depends d location	-	chemo + SURGERY ± ted tx/chemo ± XRT	ChemoXRT ± IO ± targeted tx
	N0		N1	N2	N3
T1	IA		IIA	IIIA	IIIB
T2a/b	IB IIA		IIB	IIIA	IIIB
Т3	IIB		IIIA	IIIB	IIIC
T4	IIIA		IIIA	IIIB	IIIC
M1	IV		IV	IV	IV

Chemo, IO, targeted tx ± LCT via SURGERY and/or XRT

NCCN guidelines for NSCLC v5.2024; Postmus PE, et al. *Ann Oncol.* 2017;28(suppl 4):iv1–21; Remon J, et al. *Ann Oncol.* 2021;32(12):1637–1642.

## **Oncologic & Post-Op Outcomes of Surgery**

- R0 resection: Similar or better after chemo-IO than chemo alone
  - AEGEAN, durva + chemo → 95% R0
  - KEYNOTE-671, pembrolizumab + chemo → 92% R0
  - CheckMate 816, nivolumab + chemo → 83% R0
- Surgical complications: Similar or better after chemo-IO than chemo alone
  - KEYNOTE-671:
    - 90-day mortality<sup>a</sup>: 4.0% vs 1.6% (chemo-IO vs chemo alone)
  - CheckMate 816:
    - Surgery-related AEs: 42% vs 47%; Grade 3/4: 11% vs 15% (chemo-IO vs chemo alone)
    - 90-day mortality<sup>a</sup>: 3.4% vs 1.5% (chemo-IO vs chemo alone)

Spicer JD, et al. Presented at STS 2024; Dunne et al, Ann Thorac Surg 2024; Heymach JV et al, N Eng J Med 2024; Forde PM, et al, N Engl J Med. 2022

## Impact of IO on Operative Conduct

- Bott et al, neoadjuvant nivolumab in resectable I-IIIA NSCLC
  - 20 patients underwent surgery 1 after 2 cycles of IO
  - 15 lobectomy, 1 bilobe, 2 pneumonectomy, 1 sleeve, 1 wedge
  - 1/3 started open, and over ½ of minimally invasive cases required conversion due to hilar inflammation/fibrosis
- Sepesi et al, Neostar
  - Surgeons judged 40% of operations to be more complex than usual
  - 19% lasted > 4 hours

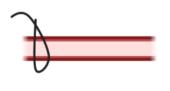
Bott MJ et al, J Thorac Cardiovasc Surg 2019; Sepesi et al, IASLC WCLC 2019

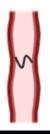
# Neoadjuvant Impact on cN1 Challenges

Intraoperative challenges after induction therapy for non-small cell lung cancer: Effect of nodal disease on technical complexity

Hope A. Feldman, MD, a Nicolas Zhou, DO, a Nathanial Deboever, MD, a Wayne Hofstetter, MD, a Reza Mehran, MD, a Ravi Rajaram, MD, David Rice, MD, Jack A. Roth, MD, Boris Sepesi, MD, Stephen Swisher, MD, Ara Vaporciyan, MD, Garrett Walsh, MD, Myrna Godoy, MD, PhD, b Myrna Godoy, MD, PhD, b	Neoadjuvant Treatment (38)	Up Front Surgery (41)	
Chad Strange, MD, <sup>b</sup> and Mara B. Antonoff, MD <sup>a</sup>	N (%)	N (%)	P
Node unable to be removed from PA	6 (15.8)	2 (4.8)	0.145
Node stuck to PA causing tear	1 (2.6)	1 (2.4)	1.000
Node forces change in approach to vasculature	8 (21.0)	3 (7.3)	0.107
Intrapericardial PA control due to node	4 (10.5)	0	0.049
Proximal PA control due to lymph node	8 (21.0)	2 (4.9)	0.043
Extent of surgery changed due to node	2 (5.2)	2 (4.9)	1.000
Arterioplasty/sleeve due to lymph node	7 (18.4)	0	0.004







Feldman HA et al, JTCVS Open 2022

## Surgical Complexity after Targeted Therapy

- Evaluation of NORTHSTAR and BRIGHTSTAR
- Aim: to characterize intraoperative nuances of pulmonary resection in stage IV NSCLC following treatment with targeted therapy in patients with oligo- and polymetastatic disease
- Patients identified who underwent lung resection from 2 prospective trials of LCT (surgery and/or radiation) after targeted therapy (N = 21)
- All operations took place from 06/2018-04/2022
- Intraoperative findings of complexity were systematically collected immediately postoperatively in 4 domains using 4-point scales

Overall global case complexity

- 1: Easier than normal dissection
- · 2: Normal tissue planes, e.g. typical stage I upfront resection
- 3: Moderate difficulty in dissection
- · 4: Severe difficulty in dissection

Severity of adhesions

- 1: None
- · 2: Minimal
- 3: Moderate
- 4: Severe

Difficulty of mediastinal nodal dissection

- 1: Easier than normal
- · 2: Normal dissection
- · 3: Moderately more difficult dissection
- · 4: Severely more difficult nodal dissection

Difficulty of hilar vascular dissection

- 1: Easier than normal
- 2: Normal dissection
- 3: Moderately more difficult dissection
- 4: Severely more difficult hilar dissection

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## Surgical Complexity after Targeted Therapy

- Mean OR time (255 min) and EBL (200 mL) were typical; 1 (4.8%) patient needing PRBCs
- 0 operative mortalities, 0 ICU admissions, median chest tube duration typical at 2.48 days
- Procedures were minimally invasive in 2 (9.5%)
  - 17 (81.0%) lobectomies
  - 2 (9.5%) wedges
  - 2 (9.5%) segmentectomies
- Surgeons reported cases as severely difficult in 16 (76.2%)
- Adhesions were reported as severe in 6 cases (28.6%)
- Mediastinal nodal dissection was severely impacted in 11 (52.4%)
- Severe hilar fibrosis complicated the vascular dissection in 17 (81.0%)
- These challenges led to frequent need for advanced maneuvers:
  - Chest wall resection, 23.8%
  - Change in surgical approach, 4.8%
  - Proximal PA control, 4.8%
  - Extended resection, 4.8%

Surgery is more difficult after neoadj tx of any kind, whether chemo, IO, or targeted tx!

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## **Oncologic & Post-Op Outcomes of Surgery**



Feasibility does not equate to "easibility" or generalizability!

# Summary

## Multimodality options rapidly expanding

- Pathologic endpoints are pivotal in assessing efficacy
- Huge potential impact on patient experience

## Surgeons need to step it up!

- Implications for case complexity
- Nuances for planning, informed consent, and resident training