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- Advisory / Consultancy : AstraZeneca, Boehringer Ingelheim, Bristol-Myers Squibb, MSD, Novartis, Roche, Takeda
- Speaker Bureau / Expert testimony: AstraZeneca, Boehringer Ingelheim, Bristol-Myers Squibb, MSD, Novartis, Pfizer, Roche, Takeda
- Travel / Accommodation / Expenses :Bristol-Myers Squibb, Pfizer, Roche, Takeda, Astra Zeneca

TAKE AWAY ...

1. Pembrolizumab + Chemo: Greater pathologic regression (%RVT 29.5% vs 52%) vs placebo. Higher %RVT linked to poorer EFS.

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- 2. AEGEAN Trial: Durvalumab shows consistent EFS benefit (HR 0.69), enhanced in adjuvant-treated patients, regardless of pCR.
- **3.** Alectinib: Effective (MPR 39%, pCR 17%) and well-tolerated in stage III ALK+ NSCLC.
- 4. NADIM I: Chemo-immunotherapy shows 5-year benefit, especially in patients with CPR. ctDNA clearance predicts better PFS/OS.
- **5. Surgery vs Chemoradiation**: Surgery improved OS in cT4N2M0 NSCLC patients compared to chemoradiation plus IO.
- 6. pCR/MPR: Significant EFS improvement (>90% at 24 months). Similar EFS between neoadjuvant and perioperative regimens.
- NIVO + Chemo: 40% reduction in recurrence/death with adjuvant NIVO. Greater benefit in PD-L1 < 1% patients.
- 8. Novel Combinations: Oleclumab, Monalizumab, and Dato-DXd combos show promising pCR and mPR rates vs historical benchmarks.
- 9. BR.31 Trial: Adjuvant durvalumab didn't improve DFS in PD-L1 ≥25% patients (EGFR-/ALK-).
- 10. CheckMate 77T: NIVO improves EFS (HR 0.59). Neoadjuvant NIVO + chemo enhances ctDNA clearance, linked to pCR and EFS benefits

AGENDA



- Association of Pathologic Regression With Event-Free Survival in the KEYNOTE-671 Study of Perioperative Pembrolizumab for Early-Stage NSCLC WCLC2024
- Perioperative Durvalumab for Resectable NSCLC Updated Outcomes from the Phase 3 AEGEAN Trial WCLC2024
- Neoadjuvant Alectinib in Potentially Resectable Stage III ALK-positive NSCLC: Interim Analysis of ALNEO-GOIRC-01-2020 Phase II Trial WCLC2024
- 5-Year Clinical Outcomes of Perioperative Nivolumab and Chemotherapy in Stage III NSCLC (NADIM trial) Definitive Chemoradiation Followed by Immunotherapy vs. Surgery for cT4N2M0 NSCLC : A Contemporary Nationwide Analysis. WCLC2024
- Survival outcomes and pathologic response after chemoimmunotherapy in resectable NSCLC: an individual patient data meta-análisis WCLC2024
- NeoCOAST-2: Efficacy and Safety of Neoadjuvant Durvalumab (D) + Novel Anticancer Agents + CT and Adjuvant D ± Novel Agents in Resectable NSCLC WCLC2024
- Perioperative vs neoadjuvant nivolumab for resectable NSCLC: patient-level data analysis of CheckMate 77T vs CheckMate 816 WCLC2024
- Perioperative nivolumab vs placebo in patients with resectable NSCLC: clinical update from the phase 3 CheckMate 77T study ESMO2024
- CCTG BR.31: A double-blind placebo- controlled randomized phase 3 trial of adjuvant durvalumab in completely resected non-small-cell lung cancer ESMO2024

Association of Pathologic Regression With Event-Free Survival in the KEYNOTE-671 Study of Perioperative Pembrolizumab for Early-Stage NSCLC



KEYNOTE-671 Study Design Randomized, Double-Blind, Phase 3 Trial



- 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

Pathologic regression categorization: Patients who underwent surgery and had tissue evaluable for blinded independent pathology review were categorized by %RVT in the primary lung tumor and sampled lymph nodes

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

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KEYNOTE-671 EFS Analysis by RVT: Key Results





- %RVT was associated with poorer EFS from randomization
- Irrespective of treatment arm
- EFS benefit with perioperative pembro extended to pts with RVT after neoadjuvant phase, but up to RVT 60% cutpoint

Association of Pathologic Regression With Event-Free Survival in the KEYNOTE-671 Study of Perioperative Pembrolizumab for Early-Stage NSCLC



Event-Free Survival Among Patients With pCR or mPR^{a,1}



Objective of this analysis was to evaluate efficacy of perioperative pembrolizumab across different RVT cutpoints, beyond pCR and mPR

¹Wakelee H et al. *N Engl J Med* 2023;389:491–503.

^aExploratory analysis. pCR defined as absence of residual invasive cancer in resected primary tumor and lymph nodes (ypT0/Tis ypN0). ^bmPR defined as ≤10% viable tumor cells in resected primary tumor and lymph nodes. 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 IA1: July 29, 2022.

David R. Jones



Association of Pathologic Regression With Event-Free Survival in the KEYNOTE-671 Study of Perioperative Pembrolizumab for Early-Stage NSCLC



%RVT Categorization of Patients With Pathologically Evaluable Tumors



Data cutoff date for IA2: July 10, 2023.

Event-Free Survival According to %RVT Categorization in the Pembrolizumab Arm



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AEGEAN study design

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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 2020¹), 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

	EFS interim analysis #1	EFS interim analysis #2 (reported here)
Data cutoff	November 10, 2022	May 10, 2024
Median EFS follow-up	11.7 months (censored patients)	25.9 months (censored patients)
Data maturity	31.9%	39.1%

¹Travis WD, et al. J Thorac Oncol 2020;15:709-40.

*The protocol was amended while enrollment was ongoing to exclude (1) patients with turnors classified as T4 for any reason other than size; (2) patients with planned pneumonectomies; and (3) patients with documented *EGRP(ALK* barce) (1) patients with planned pneumonectomies; and (3) patients with planned pneumonectomies; and (3) patients with documented *EGRP(ALK* barce) (1) patients with planned pneumonectomies; and (3) patients with planned pneumonectomies; and (3) patients with documented *EGRP(ALK* barce) (2) wents and the investigator's discretion. For non-squamous: classified as T4 for any reason other than size; (2) patients with planned pneumonectomies; and (3) patients with documented *EGRP(ALK* barce) (2) wents and the investigator's discretion. For non-squamous: classified as T4 for any reason other than size; (2) patients with planned pneumonectomies; and (3) patients with documented *EGRP(ALK* barce) (2) wents and its rescreted subpopulation included 7) patients who had comorbidities or who were unable to tolerate cisplatin per the investigator's judgment). ¹Post-operative radiotherapy (PORT) was permitted where indicated per local guidance. ¹The miTT population included 740 patients and its rescreted subpopulation included 473 patients. ALCC, American Joint Committee on Cancer; BICR, blinded independent central review; ECOG PS, Eastern Cooperative Oncology Group performance status; JALC, International Association for the Study of Lung Cancer; IV, intravenous; miTT, modified intent-to-treat; MPR, major patients with planned cell destinating and 1; QWX, every X weeks; RECIST 11, Besponse Evaluation Criteria in S014 formors, version 1.1.

John V. Heymach | Perioperative Durvalumab for Resectable NSCLC: Updated Outcomes from the Phase 3 AEGEAN Trial

John V. Heymach

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Updated EFS (second planned interim analysis; mITT)

• EFS benefit favoring the durvalumab arm was maintained and consistent with that reported previously¹



John V. Heymach | Perioperative Durvalumab for Resectable NSCLC: Updated Outcomes from the Phase 3 AEGEAN Trial ¹Heymach JV, et al. N Engl J Med 2023;389:1672–84

DCO = May 10, 2024. mEFS, median EFS; NR, not reached

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EFS by adjuvant treatment status (exploratory analysis, mITT)

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



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)	



DC0 = May 10, 2024. Received adjuvant treatment subset includes all mITT patients who received adjuvant treatment regardless of whether they are included in the modified resected subpopulation

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DFS by pCR status (exploratory analysis; modified resected subpopulation)

• Larger magnitude of DFS benefit with durvalumab was observed in patients with pCR



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Perioperative Durvalumab for Resectable NSCLC Updated Outcomes from the Phase 3 AEGEAN Trial

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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)

Lung cancer-specific survival (exploratory analysis; mITT)

• Improvement in lung cancer-specific survival also favored the durvalumab arm



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20 Italian Centers



ALNEO Study Design

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- Resectable locally advanced stage III NSCLC
- Candidate for surgical resection after multidisciplinary discussion
- ALK positive (IHC/FISH/NGS)
- No Previous treatment
- ECOG PS 0-1

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Primary Endpoint: MPR by BICR

Secondary Endpoints: pCR by BICR, OR, EFS, DFS, OS, AEs

According to the Simon's two-stage mini-max design, the null hypothesis that the MPR is ≤20% will be tested against a one-sided alternative. In the first stage, 18 patients will be accrued. If there are 4 or fewer MPR in these 18 patients, the study will be stopped early for futility. Otherwise, 15 additional patients will be accrued for a total of 33. The null hypothesis will be rejected if 11 or more MPR are observed in 33 patients. This design yields a type I error rate of 0.05 and power of 0.80 when the true MPR is 40%.

Abbreviations: AEs, adverse events; BICR, blinded independent central review; DFS, disease-free survival; EFS, event-free survival; OS, overall survival; pCR, pathologic complete response; MPR, major nathologic response; OR, objective response.



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MPR

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Results – Primary Endpoint

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^a4 patients did not undergo surgery, 1 patient underwent explorative thoracotomy; ^bat pre-surgical evaluation; ^c2 patients received adjuvant alectinib even though surgery was not radical.

- Neoadjuvant treatment was well tolerated. G1-2 TEAEs were reported in 14 (56%) cases. No Grade ≥3 treatment-related AEs were observed;
- After a median follow-up of 10.8 months (IQR: 4.9–22.5), a total of 159 adjuvant courses were administered and the treatment appeared to be well tolerated.



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5-y NADIM INTRODUCTION

NADIM Patient baseline characteristics	N=46 (ITT)
Age (median, range)	63(41-77)
Co-morbidities, N (%)	43 (93,5)
N2	33 (89.2)
Multiple station	25 (75.8)



- 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.



FIG 1. Kaplan-Meier curves for (A) PFS and (B) OS in the ITT population (N = 46). ITT, intention-to-treat; OS, overall survival; PFS, progression-free survival.

OS at 36 months was 81.9% (95% CI, 66.8 to 90.6) in the intention-to-treat population, rising to 91.0% (95% CI, 74.2 to 97.0) in the per-protocol population

Provencio M. et al. Lancet Oncol 2020; 21:1413-22



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with a worse prognosits). PFS (months) Neither PD-L1 tumor proportion score nor TMB are markers of PFS or OS

48

36

60

OS (months)

24

12

0

36

48

60

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Age (Median, IQR)	65 (58 -71)	66 (60-72)	<0.001	0.98 (0.97 to 0.99)
Race, N (%)				
White	846 (85.5%)	747 (81.4%)	0.013	Ref.
Black	86 (8.7%)	118 (12.9%)		0.59 (0.42 to 0.82)
Other	58 (5.9%)	53 (5.8%)		0.78 (0.51 to 1.20)
Charlson-Deyo Index, N (%)				
0	646 (65.3%)	519 (56.5%)	< 0.001	Ref.
1	232 (23.4%)	254 (27.7%)		0.80 (0.63 to 1.00)
2	75 (7.6%)	76 (8.3%)		0.96 (0.66 to 1.40)
3 or >	37 (3.7%)	69 (7.5%)		0.60 (0.38 to 0.94)
Type of Facility, N (%)				
Community	60 (6.1%)	77 (8.4%)	< 0.001	Ref.
Comprehensive Community	294 (29.7%)	365 (39.8%)		0.98 (0.66 to 1.46)
Academic Program	434 (43.8%)	284 (30.9%)		1.59 (1.06 to 2.40)
Integrated Network Program	202 (20.4%)	192 (20.9%)		1.29 (0.85 to 1.96)
Histology, N (%)				
Adenocarcinoma	488 (49.3%)	351 (38.2%)	< 0.001	Ref.
Squamous	419 (42.3%)	535 (58.3%)		0.60 (0.49 to 0.74)
Other	83 (8.4%)	32 (3.5%)		2.05 (1.27 to 3.29)
Tumor location, N (%)				
Central	32 (3.2%)	64 (7.0%)	< 0.001	Ref.
Right	561 (56.7%)	557 (60.7%)		3.17 (1.52 to 6.60)
Left	396 (40.0%)	293 (31.9%)		4.45 (2.10 to 9.40)

* Selected variables in the model are presented based on clinical relevance.

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Adjusted Odds Ratio

(95%CI)

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Survival analysis: Surgery vs. CRT/IO in propensity-matched cohorts:





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Survival outcomes and pathologic response after chemoimmunotherapy in resectable NSCLC: an individual patient data meta-analysis



Inclusion criteria: prospective trials (both single-arm and RCTs) of neoadjuvant/perioperative anti-PD-(L)1 in combination with platinum-based chemotherapy in patients with resectable NSCLC.

Data extraction: IPD was extracted from Kaplan-Meier curves of the included studies with the *IPDfromKM* method, only for the experimental arm. Display of Kaplan-Meier curves for pCR and/or MPR was required for IPD data extraction.

Literature search: MEDLINE/EMBASE/CENTRAL, Nov. 2023.

Endpoints: EFS from the start of neoadjuvant treatment in patients with or without pCR/MPR in the ITT population.

Included studies: CheckMate-77T, CheckMate-816, KEYNOTE-671, NADIM, NADIM-II, NEOSTAR, NeoTORCH.

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pCR and MPR are associated with longer EFS

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Neoadjuvant: CheckMate-816; perioperative: CheckMate-77T, KEYNOTE-671, NeoTORCH, NADIM-II.

Months

The results remained consistent after the exclusion of NeoTORCH and NADIM-II, thereby only comparing phase III trials enrolling patients with stage II-III NSCLC (CheckMate-816, CheckMate-77T, KEYNOTE-671).

Daniele Marinelli

Months

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



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

Baseline characteristics: analysis populations^a

	Unweighted		
	Perioperative NIVO (n = 139), %	Neoadjuvant NIVO + chemo (n = 147), %	
Age < 65 years	48	52	
Male	73	69	
Asian	27	50	
ECOG PS ≥ 1	33	25	
Disease stage			
Stage IB-II	35	37	
Stage III non-N2	24	16	
Stage III N2	40	47	
Squamous NSCLC	50	46	
Current/former smoker, ^b	94	90	
Tumor PD-L1 expression ≥ 1%	58	50	

 Baseline characteristics between patients who received perioperative NIVO or neoadjuvant NIVO + chemo were generally balanced after propensity score weighting (ATT and ATE)^c

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



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

Median follow-up: CheckMate 816, 29.5 months; CheckMate 77T, 33.3 months. ancludes only patients who received > 1 dose of adjuvant NIVO. bATE: varying weights were applied to all patients in both neoadjuvant NIVO + chemo arm (CheckMate 816) and perioperative NIVO (CheckMate 77T) to make them comparable to one another. 9N values fractional due to weighting. 4ATT: varying weights were applied to patients in the neoadjuvant NIVO + chemo arm (CheckMate 816) to make them comparable to those in the perioperative NIVO arm (CheckMate 77T).

In the unweighted analysis population, 89 patients (64%) completed adjuvant therapy, and median number of doses (range) was 13.0 (1-13). Unweighted landmark EFS from surgery among all patients who had surgery (regardless of whether they received adjuvant NIVO in CheckMate 77T) for periop NIVO vs neoadj NIVO + chemo: HR = 0.82 (95% CI, 0.55-1.21).

Median follow-up: CheckMate 816, 29.5 months; CheckMate 77T, 33.3 months. ^aPatients with non-evaluable pCR status were excluded. ^bUnweighted analyses. CPCR rates in this analysis population: perioperative NIVO, 40.7%; neoadjuvant NIVO + chemo, 30.5%. Includes only patients who received ≥ 1 dose of adjuvant NIVO.

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Neoadi

(n = 96)

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



Median follow-up: CheckMate 816, 29.5 months; CheckMate 77T, 33.3 months, ^aPatients with non-evaluable PD-L1 expression were excluded, ^bUnweighted analyses, ^cIncludes only patients who received ≥ 1 dose of adjuvant NIVO. Completed adjuvant treatment: < 1%, 33 patients (62%) and ≥ 1%, 51 patients (64%). Median number of doses (range): < 1%, 13 (1-13) and ≥ 1%, 13 (1-13).

Median follow-up: CheckMate 816, 29.5 months; CheckMate 77T, 33.3 months. *Patients with disease stage other than IB, II, III were excluded. *Unweighted analyses. https://www.excluded.org adjuvant NIVO. Completed adjuvant treatment: stage IB-II, 35 patients (71%) and stage III, 54 patients (60%). Median number of doses (range): stage IB-II, 13 (1-13) and stage III, 13 (1-13)

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Baseline patient characteristics were well balanced across arms

	Arm 1 Oleclumab + durvalumab + CT N=76	Arm 2 Monalizumab + durvalumab + CT N=72	Arm 4 Dato-DXd + durvalumab + CT N=54
Median age, years (range)	66.5 (30–79)	66.0 (48–83)	65.0 (38–81)
Female/Male, n (%)	29 (38.2)/47 (61.8)	29 (40.3)/43 (59.7)	22 (40.7)/32 (59.3)
Race, n (%)			
Asian	7 (9.2)	5 (6.9)	5 (9.3)
Black or African American	1 (1.3)	0	0
White	48 (63.2)	43 (59.7)	37 (68.5)
Not reported	20 (26.3)	24 (33.3)	12 (22.2)
ECOG PS 0/1, n (%)	45 (61.6)/28 (38.4) [*]	49 (69.0)/22 (31.0) ⁺	36 (66.7)/18 (33.3)
PD-L1 <1%/PD-L1 ≥1% TPS, n (%)	24 (31.6)/52 (68.4)	24 (33.3)/48 (66.7)	13 (24.1)/41 (75.9)
Stage, n (%) [‡]			
IIA	7 (9.2)	7 (9.7)	2 (3.8)
IIB	16 (21.1)	19 (26.4)	13 (24.5)
IIIA	40 (52.6)	33 (45.8)	27 (50.9)
IIIB	13 (17.1)	13 (18.1)	11 (20.8)
Histology, n (%)			
Adenocarcinoma	50 (65.8)	46 (63.9)	33 (61.1)
Squamous cell carcinoma	24 (31.6)	20 (27.8)	17 (31.5)
Other	2 (2.6)	6 (8.3)	4 (7.4)

• Consistent with real-world practice, the majority of patients received carboplatin compared with cisplatin: 72%, 77%, and 87% of patients received carboplatin vs cisplatin in Arms 1, 2, and 4, respectively.

Cascone T| NeoCOAST-2: Efficacy and Safety of Neoadjuvant Durvalumab (D) + Novel Anticancer Agents + CT and Adjuvant D \pm Novel Agents in Resectable NSCLC

Data cut-off: 17 June 2024. *Data missing for 3 patients; *Data missing for 1 patient; *Data missing for 1 patient in Arm 4. CT, chemotherapy; Dato-DXd, datopotamab deruxtecan; ECOG PS, Eastern Cooperative Oncology Group performance status; PD-L1, programmed cell death ligand 1; TPS, tumour proportion score.



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NeoCOAST-2: pCR and mPR rates across treatment arms



Data cut-off: 17 June 2024. Error bars represent 95% confidence intervals.

*The mITT population includes all randomised patients with confirmed NSCLC histology who received at least 1 dose of study

treatment and had central or local data available at the data cut-off, including those who were unable to receive or complete surgery. Some patients who underwent surgery did not have pathology results available at data cut-off. [†]Blind independent pathological review was used where available; proportion of local

results were Arm 1: 9/55 (16.3%); Arm 2: 6/55 (11%); Arm 4: 16/41 (39%). Denominator includes only those patients who had surgery. CT, chemotherapy; Dato-DXd, datopotamab deruxtecan; mITT, modified intention-to-treat population; mPR, major pathological response;

NSCLC, non-small-cell lung cancer; pCR, pathological complete response.

Cascone T| NeoCOAST-2: Efficacy and Safety of Neoadjuvant Durvalumab (D) + Novel Anticancer Agents + CT and Adjuvant D ± Novel Agents in Resectable NSCLC Iniciativa científica de

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pCR rates across baseline PD-L1 expression subgroups



Data cut-off: 17 June 2024. Based on the modified intention-to-treat population which includes all randomised patients with confirmed NSCLC histology who received at least 1 dose of study treatment and had data available at data cut-off, including those who were unable to receive or complete surgery. Baseline PD-L1 status is assessed using central (Ventana SP263) or local testing (Ventana SP263, pharmDx 28-8, or pharmDx 22C3). Proportion of central results were Arm 1: 12/60 (20%); Arm 2: 18/60 (30%); Arm 4: 13/44 (30%). Local results are reported for all other patients. CT, chemotherapy; Dato-DXd, datopotamab deruxtecan; NSCLC, non-small-cell lung cancer; pCR, pathological complete response; PD-L1, programmed cell death ligand 1; TPS, tumour proportion score.

ascone T| NeoCOAST-2: Efficacy and Safety of Neoadjuvant Durvalumab (D) + ovel Anticancer Agents + CT and Adjuvant D \pm Novel Agents in Resectable NSCLC

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NeoCOAST-2: Efficacy and Safety of Neoadjuvant Durvalumab (D) + Novel Anticancer Agents and Adjuvant D ± Novel Agents in Resectable NSCLC



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Perioperative nivolumab vs placebo in patients with resectable NSCLC: clinical update from Gecp the phase 3 CheckMate 77T study

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- In the phase 3 CheckMate 77T^a study, perioperative NIVO demonstrated statistically significant and clinically meaningful EFS benefit vs PBO in patients with resectable NSCLC (HR, 0.58; 97.36% CI, 0.42-0.81; P < 0.001); pCR was also improved¹
- Here we report updated clinical outcomes from CheckMate 77T with a median follow-up of 33.3 months, exploratory outcomes by pCR status, and ctDNA analyses



Database lock date: April 26, 2024; median follow-up (range): 33.3 months (23.6-52.1).

^aNCT04025879. ^bNSQ: cisplatin + pemetrexed, carboplatin + pemetrexed, or carboplatin + paclitaxel; SQ: cisplatin + docetaxel or carboplatin + paclitaxel. ^cctDNA was measured using the Invitae Personalized Cancer Monitoring (tumor-informed) assay. ^dTime 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. ^e0% residual viable tumor cells post-surgery in both primary tumor (lung) and sampled lymph nodes. ^fChange from detectable ctDNA at neoadjuvant treatment initiation (C1D1) to no detectable ctDNA at neoadjuvant treatment completion (end of neoadjuvant treatment or prior to definitive surgery). ^gChange from no detectable ctDNA at adjuvant treatment initiation (C1D1) to detectable ctDNA during the post-operative period (adjuvant C4D1, C7D1, or C13D1; disease recurrence). 1. Cascone T, et al. *N Engl J Med* 2024;390:1756-1769.

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Perioperative nivolumab vs placebo in patients with resectable NSCLC: clinical update from GeCP the phase 3 CheckMate 77T study

EFS per BICR



• Landmark EFS from definitive surgery among patients who had definitive surgery for NIVO (n = 178) vs PBO (n = 178): HR = 0.52 (95% CI, 0.37-0.73)

Median follow-up (range): 33.3 months (23.6-52.1). 95% CIs for EFS rates are designated in the parentheses. •In an exploratory ctDNA analysis,

•-Neoadjuvant treatment with NIVO + chemo showed greater ctDNA clearance vs PBO + chemo, which was associated with pCR and EFS benefit

 -ctDNA recurrence appeared to be less frequent in patients who received adjuvant NIVO vs PBO, suggesting a potential benefit of adjuvant NIVO



Jonathan D. Spicer

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CCTG BR.31: A double-blind placebo- controlled randomized phase 3 trial of adjuvant durvalumab in completely resected non-small-cell lung cancer

CCTG BR.31 Trial Design

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CCTG BR.31: A double-blind placebo- controlled randomized phase 3 trial of adjuvant durvalumab in completely resected non-small-cell lung cancer

Multiple Hierarchical Testing Procedure¹





CCTG BR.31: A double-blind placebo- controlled randomized phase 3 trial of adjuvant durvalumab in completely resected non-small-cell lung cancer

D arm

PBO arm



CCTG BR.31 Primary Endpoint DFS in PD-L1≥25% EGFR-/ALK-



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TAKE AWAY ...

1. Pembrolizumab + Chemo: Greater pathologic regression (%RVT 29.5% vs 52%) vs placebo. Higher %RVT linked to poorer EFS.

Iniciativa científica de

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- 2. AEGEAN Trial: Durvalumab shows consistent EFS benefit (HR 0.69), enhanced in adjuvant-treated patients, regardless of pCR.
- **3.** Alectinib: Effective (MPR 39%, pCR 17%) and well-tolerated in stage III ALK+ NSCLC.
- 4. NADIM I: Chemo-immunotherapy shows 5-year benefit, especially in patients with CPR. ctDNA clearance predicts better PFS/OS.
- **5. Surgery vs Chemoradiation**: Surgery improved OS in cT4N2M0 NSCLC patients compared to chemoradiation plus IO.
- 6. pCR/MPR: Significant EFS improvement (>90% at 24 months). Similar EFS between neoadjuvant and perioperative regimens.
- NIVO + Chemo: 40% reduction in recurrence/death with adjuvant NIVO. Greater benefit in PD-L1 < 1% patients.
- 8. Novel Combinations: Oleclumab, Monalizumab, and Dato-DXd combos show promising pCR and mPR rates vs historical benchmarks.
- 9. BR.31 Trial: Adjuvant durvalumab didn't improve DFS in PD-L1 ≥25% patients (EGFR-/ALK-).
- 10. CheckMate 77T: NIVO improves EFS (HR 0.59). Neoadjuvant NIVO + chemo enhances ctDNA clearance, linked to pCR and EFS benefits