

# Novedades & Claves en CÁNCER de PULMÓN **2024**

## Introducción

J.L. González Larriba

*Hospital Clínico San Carlos. Madrid  
Universidad Complutense*

Organizado por:



Patrocinado por:



**Johnson&Johnson**

# Disclosures of Financial Relationships

## ✓ Honoraria

- ✓ MSD Oncology, Pfizer, Astellas Pharma, Roche, Novartis, Janssen-Cilag, Bristol-Myers Squibb, Astra Zeneca

## ✓ Consulting of Advisory Role

- ✓ Janssen-Cilag, MSD Oncology, Bristol-Myers Squibb, Boehringer Ingelheim, Beigene

## ✓ Speaker's Bureau

- ✓ MSD Oncology, Astra Zeneca

## ✓ Research Funding

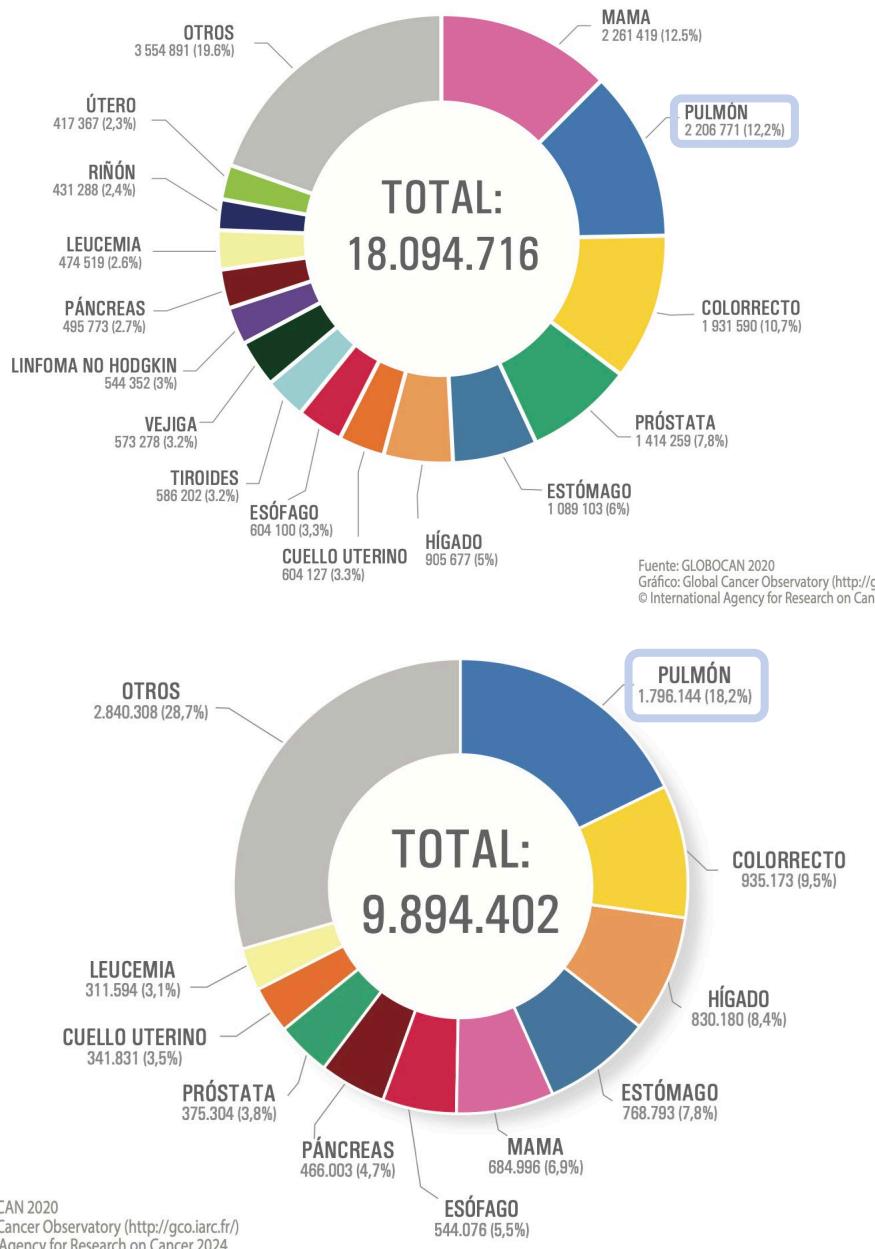
- ✓ Miratti Therapeutics, Astra Zeneca, Bayer, OncoMed, Astellas Pharma, Janssen-Cilag, Roche, Abbvie, Boehringer-Ingelheim, Pfizer, PharmaMar, Bristol-Myers Squibb, Novartis, Celgene, Ignyta

## ✓ Travel, Accomodations, Expenses

- ✓ Bristol-Myers Squibb, Janssen-Cilag, Takeda, Pfizer, MSD Oncology, Roche, Merck

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## Lung Cancer Is the Most Commonly Diagnosed Cancer and the Leading Cause of Cancer Death Worldwide



Estimated Age-Standardized Rates in 2020  
Lung, Both Sexes, All Ages<sup>[a]</sup>

	Incidence	Mortality
Northern America	32.6	19.3
Europe	29.4	22.6
Oceania	24.0	16.1
Asia	22.9	19.3
Latin American and Caribbean	12.0	10.5
Africa	6.2	5.6

In 2020, lung cancer accounted for 11.4% of total cancer cases and contributes to 18% of total cancer deaths<sup>[b]</sup>

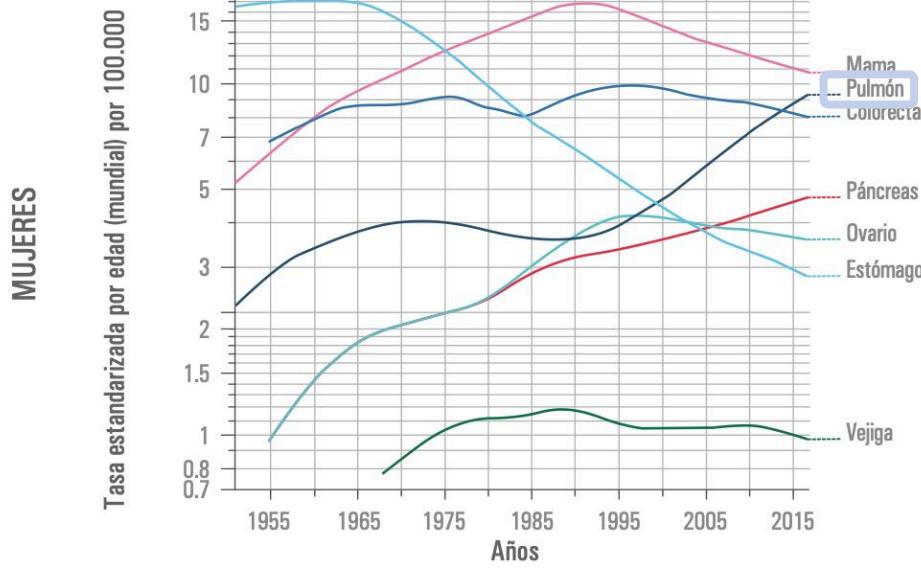
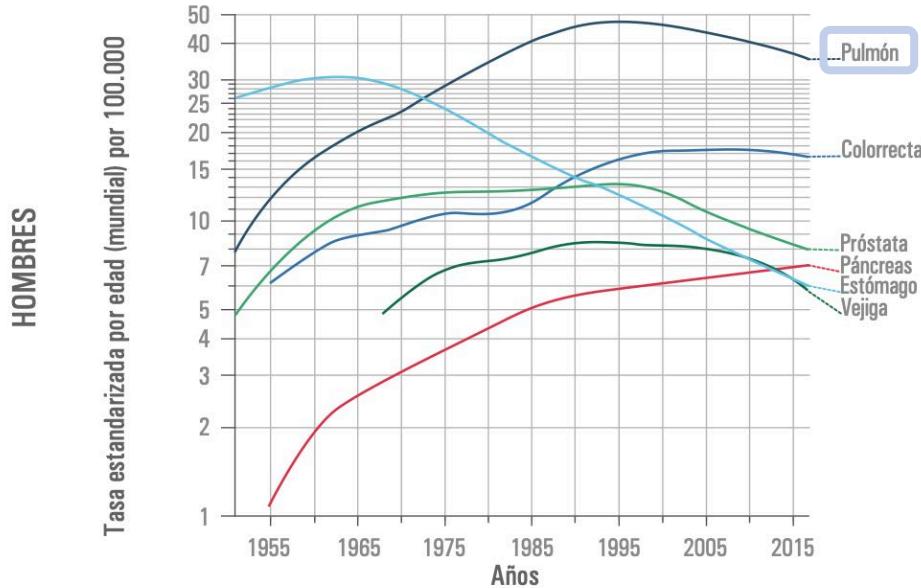
World Health Organization. International Agency for Research on Cancer; 2018. Accessed June 5, 2023. <https://gco.iarc.fr/>. b. Sung H, et al. CA Cancer J Clin. 2021;71:209-249.

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Organizado por:

TIPO TUMORAL	N
Cavidad oral y faringe	7.603
Esófago	2.269
Estómago	6.868
Colon	29.648
Recto	14.646
Hígado	6.856
Vesícula biliar	2.358
Páncreas	9.986
Laringe	3.181
<b>Pulmón</b>	<b>32.768</b>
Melanoma de piel	7.881
Mama	36.395
Cérvix uterino	2.259
Cuerpo uterino	7.305
Ovario	3.716
Próstata	30.316
Testículo	1.549
Riñón (sin pelvis)	9.208
Vejiga urinaria	22.097
Encéfalo y sistema nervioso	4.419
Tiroides	6.345
Linfoma de Hodgkin	1.673
Linfomas no hodgkinianos	10.706
Mieloma	3.313
Leucemias	5.861
Otros	17.440
Todos excepto piel no melanoma	286.664

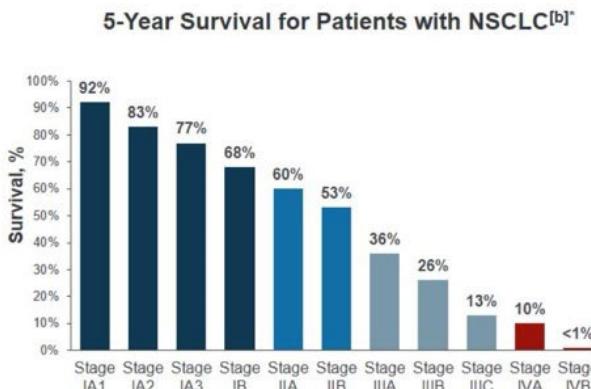
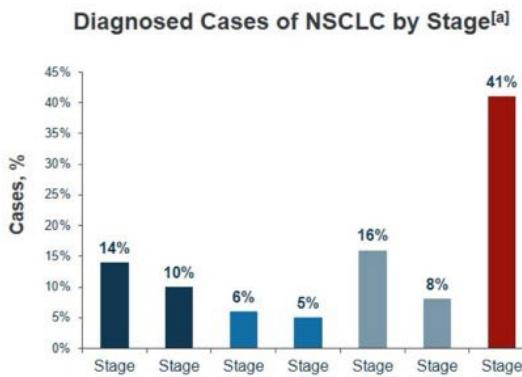
Fuente: Red Española de Registros de Cáncer (REDECAN).



Fuente: GLOBOCAN 2020 Gráfico: Global Cancer Observatory (<http://gco.iarc.fr/>) © International Agency for Research on Cancer 2024 v 1.0

# Lung Cancer Screening

Lung Cancer Is Commonly Diagnosed at an Advanced Stage and Is Associated With a Poor Prognosis



Diagnosis in Early Stages

Multidisciplinary Tumor Committee

Biomarkers

New Approaches and Drugs

\*Based on the clinical staging of the 8th edition IASLC.

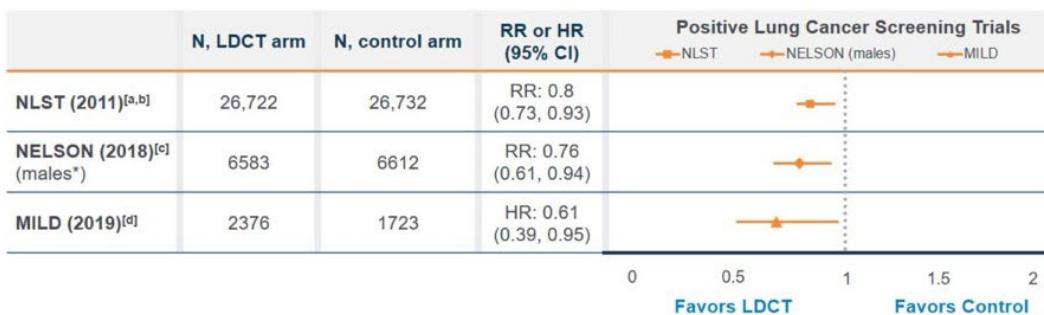
IASLC, International Association for the Study of Lung Cancer; NSCLC, non-small cell lung cancer.

a. Heist RS, et al. Cancer Cell. 2012;21:448-e2. b. Goldstraw P, et al. J Thorac Oncol. 2016;11:39-51.

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# Impact of Lung Cancer Screening on staging and mortality

Lung Cancer Screening Significantly Reduces Lung Cancer Mortality  
3 Large Randomized Trials

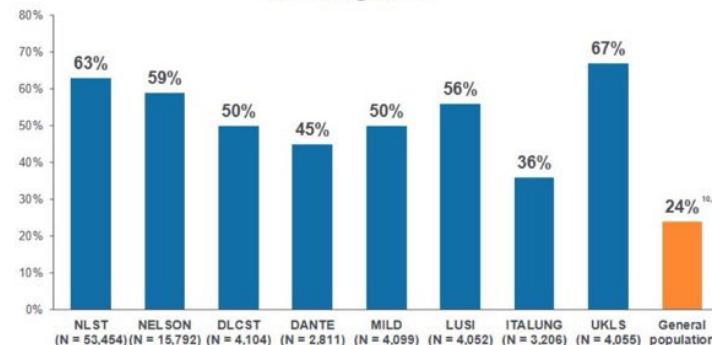


\*Among male participants. Among female participants, RR = 0.67 (95% CI: 0.38, 1.14).

HR, hazard ratio; MILD, Multicentric Italian Lung Detection Trial; NELSON, Dutch-Belgian Randomized Lung Cancer Screening Trial; NLST, National Lung Screening Trial; RR, rate ratio.  
a. The National Lung Screening Trial Research Team. N Engl J Med. 2011;365:395-409; b. National Lung Screening Trial Research Team. J Thorac Oncol. 2019;14:1732-1742; c. de Koning HJ, et al. N Engl J Med. 2020;382:503-513; d. Pastorino U, et al. Ann Oncol. 2019;30:1162-1169.

## Low-Dose CT Screening Stage Shift

Percent of Stage I Cases Detected in Lung Cancer Screening RCTs<sup>[a-k]</sup>



<sup>a</sup>Includes Stages IA and IB, estimated from SEER validation set of proposed 7th edition IASLC staging.

CT, computed tomography; ELCAP, Early Lung Cancer Action Program; LDCT, low-dose computed tomography; RCT, randomized clinical trial.

a. National Lung Screening Trial Research Team. N Engl J Med. 2011;365:395-409; b. de Koning HJ, et al. N Engl J Med. 2020;382:503-513; c. Wille MM, et al. Am J Respir Crit Care Med. 2016;193:542-551; d. Infante M, et al. Am J Respir Crit Care Med. 2015;191:1166-1175; e. Pastorino U, et al. Ann Oncol. 2019;30:1162-1169; f. Becker N, et al. Int J Cancer. 2020;146:1503-1513; g. Lopes Pegna A, et al. J Thorac Oncol. 2013;8:866-875; h. Paci E, et al. Thorax. 2017;72:825-831; i. Field JK, et al. Health Technol Assess. 2016;20:1-146; j. Heist RS, et al. Cancer Cell. 2012;21:448.e2; k. Henschke CJ, et al. N Engl J Med. 2006;355:1763-1771.

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- The majority of cases detected through LDCT screening are stage I where curative resection is likely<sup>[a-i,k]</sup>

- Among patients in the International ELCAP study (N = 31,567), 73% with stage I disease who underwent surgical resection within 1 month after diagnosis had an estimated 10-year survival rate of 92%<sup>[k]</sup>

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# Molecular Biomarkers

Biomarkers with a recommended first-line targeted treatment option:	Biomarkers with targeted options for second-line or later:	Emerging biomarkers
<ul style="list-style-type: none"> <li>EGFR exon 19 del, L858R, S768I, L861Q, G719X, Exon 20 insertion</li> <li>ALK rearrangement</li> <li>ROS1 rearrangement</li> <li>BRAF V600E</li> <li>NTRK rearrangement</li> <li>MET exon 14 skipping</li> <li>RET rearrangement</li> <li>PD-L1 positive (negative for other actionable molecular biomarkers)</li> </ul>	<ul style="list-style-type: none"> <li>KRAS G12C</li> <li>ERBB2</li> </ul>	<ul style="list-style-type: none"> <li>High-level MET amplification <ul style="list-style-type: none"> <li>Definition of high-level amplification is still evolving <ul style="list-style-type: none"> <li>NGS assays will give a value dependent on bioinformatics and enrichment of starting material (blood or tissue)</li> <li>Cellular assays (ie, FISH) have different workflow but may be more consistent</li> </ul> </li> <li>Capmatinib, crizotinib, or tepotinib may be used (not FDA approved for this indication in NSCLC)</li> </ul> </li> <li>Many other predictive biomarkers (eg, NRG1, RIT1, NF1, PIK3CA) are currently under evaluation in clinical trials for treatment of advanced/metastatic NSCLC</li> </ul>

Gene or protein	Alteration	NCCN preferred therapy	Other recommended therapies
EGFR <sup>a</sup>	Exon 19 del or L858R	Osimertinib*	Osimertinib + pemetrexed + (cisplatin or carboplatin) (for nonsquamous)*, erlotinib*, afatinib*, gefitinib*, dacomitinib*, erlotinib + ramucirumab, or erlotinib + bevacizumab
	S768I, L861Q, G719X	Afatinib or osimertinib	Erlotinib, gefitinib, or dacomitinib
	Exon 20 insertion	Amivantamab + carboplatin + pemetrexed (non-squamous)* or systemic therapy	
KRAS	G12C	Systemic therapy based on PD-L1	
ALK	Rearrangement	Alectinib*, brigatinib*, or lorlatinib*	Ceritinib* In certain circumstances: crizotinib*
ROS1	Rearrangement	Entrectinib, crizotinib, or repotrectinib	Ceritinib
BRAF	V600E	Dabrafenib + trametinib or encorafenib + binimetinib	In certain circumstances: vemurafenib or dabrafenib Or systemic therapy
NTRK1/2/3	Rearrangement	Larotrectinib or entrectinib	In certain circumstances: systemic therapy
MET	Exon 14 skipping	Capmatinib or tepotinib	In certain circumstances: crizotinib or systemic therapy
RET	Rearrangement	Selpercatinib or pralsetinib	In certain circumstances: cabozantinib or systemic therapy
ERBB2 (HER2)	Mutation	Systemic therapy	
PD-L1	≥50% and negative for actionable molecular biomarkers <sup>b</sup>	Systemic therapy, please see NCCN guidelines for the most up to date list	
	≥1%-49% and negative for actionable molecular biomarkers <sup>b</sup>		
	<1% and negative for actionable molecular biomarkers <sup>b</sup>		

\*NCCN Category 1 recommendation; <sup>a</sup>the most common resistance mutation to first- and second-generation EGFR TKIs is EGFR T790M;

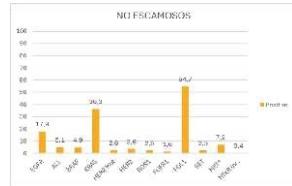
<sup>b</sup>see NCCN NSCLC guidelines for recommended therapies for patients with contraindications to PD-1 or PD-L1 inhibitors

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**RTT -  
36.000 pts**

## TASA DE ANALISIS DE MARCADORES (%)

**EL 81,2% DE LOS PACIENTES DE LA COHORTE TIENEN ANALIZADO AL MENOS 1 MARCADOR**

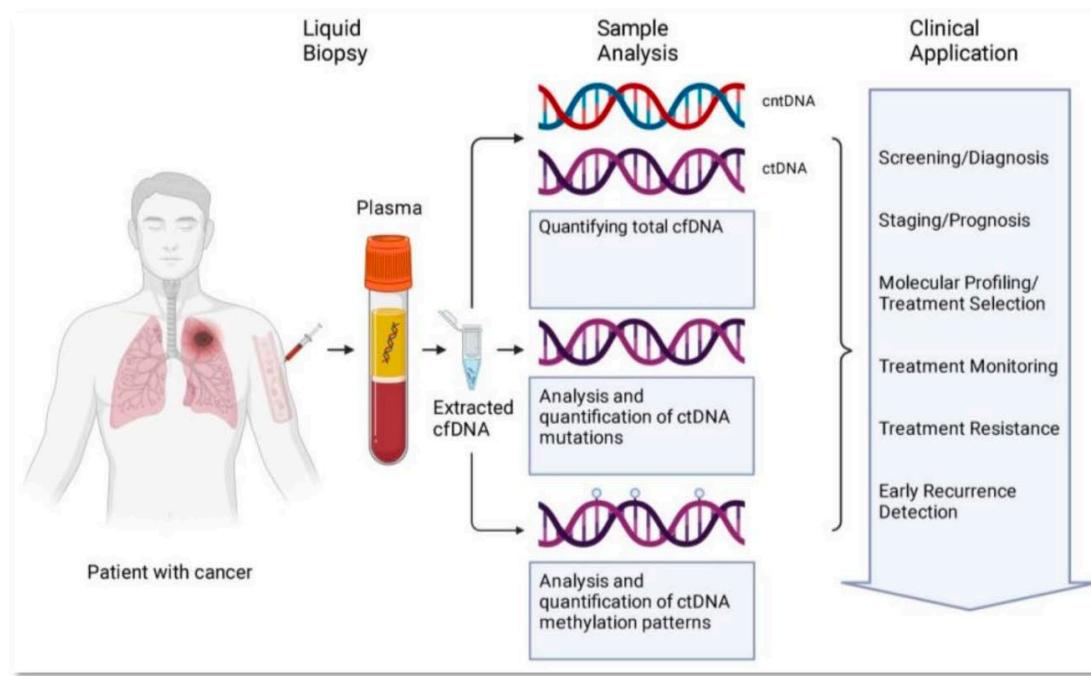


81% pts  
have at  
least one



# We hope for rapid integration into daily clinical practice

## ctDNA Analysis & Clinical Applications



Dao et al. 2023 Int J Mol Sci

- Early detection/screening
- Identification actionable genomic alterations
- Disease monitoring (e.g. MRD)
- Acquired resistance variants

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# Importance of the MDT in Patient-Centered Care



MDT, multidisciplinary team.

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# Incidental Nodules

## CLINICAL PRESENTATION

Incidental finding of nodule suspicious for lung cancer

- Multidisciplinary evaluation<sup>a</sup>
- Smoking cessation counseling

## RISK ASSESSMENT<sup>b</sup>

### Patient factors

- Age
  - Smoking history
  - Previous cancer history
  - Family history
  - Occupational exposures
  - Other lung disease (chronic obstructive pulmonary disease [COPD], pulmonary fibrosis)
  - Exposure to infectious agents (eg, endemic areas of fungal infections, tuberculosis) or risk factors or history suggestive of infection (eg, immune suppression, aspiration, infectious respiratory symptoms)
- Radiologic factors<sup>c,d</sup>**
- Size, shape, and density of the pulmonary nodule
  - Associated parenchymal abnormalities (eg, scarring or suspicion of inflammatory changes)
  - Fluorodeoxyglucose (FDG) avidity on FDG-PET/CT imaging

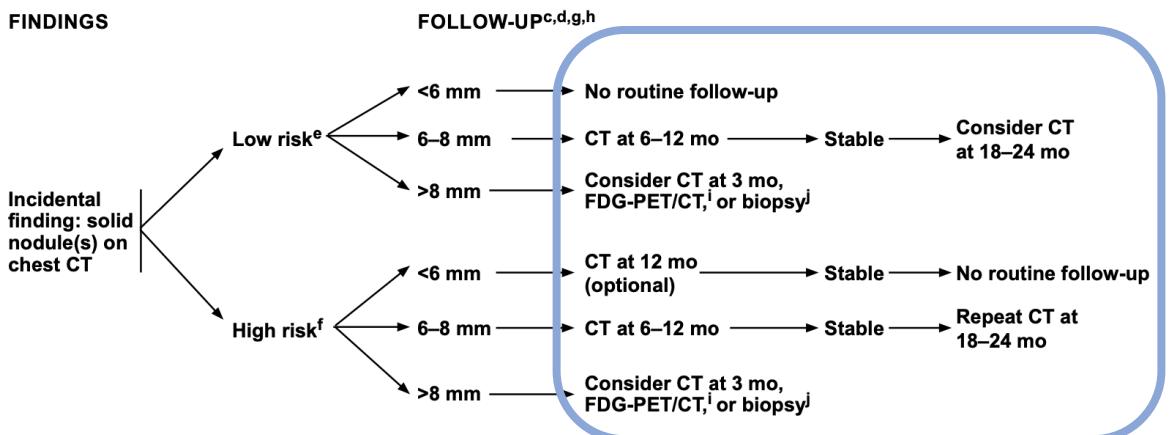
Solid nodules  
[Follow-up \(DIAG-2\)](#)

Subsolid nodules  
[Follow-up \(DIAG-3\)](#)

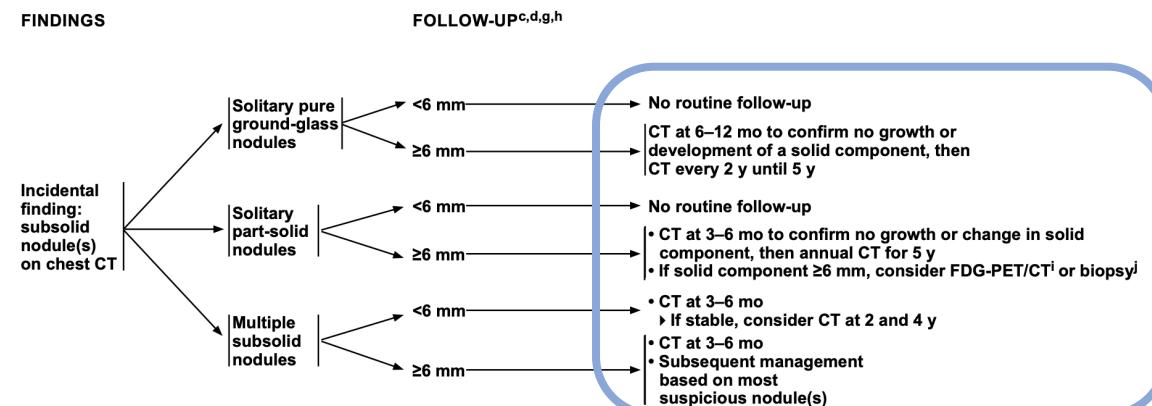
Lung nodules in asymptomatic patients at high-risk detected during lung cancer screening with LDCT

[NCCN Guidelines for Lung Cancer Screening](#)

## FINDINGS

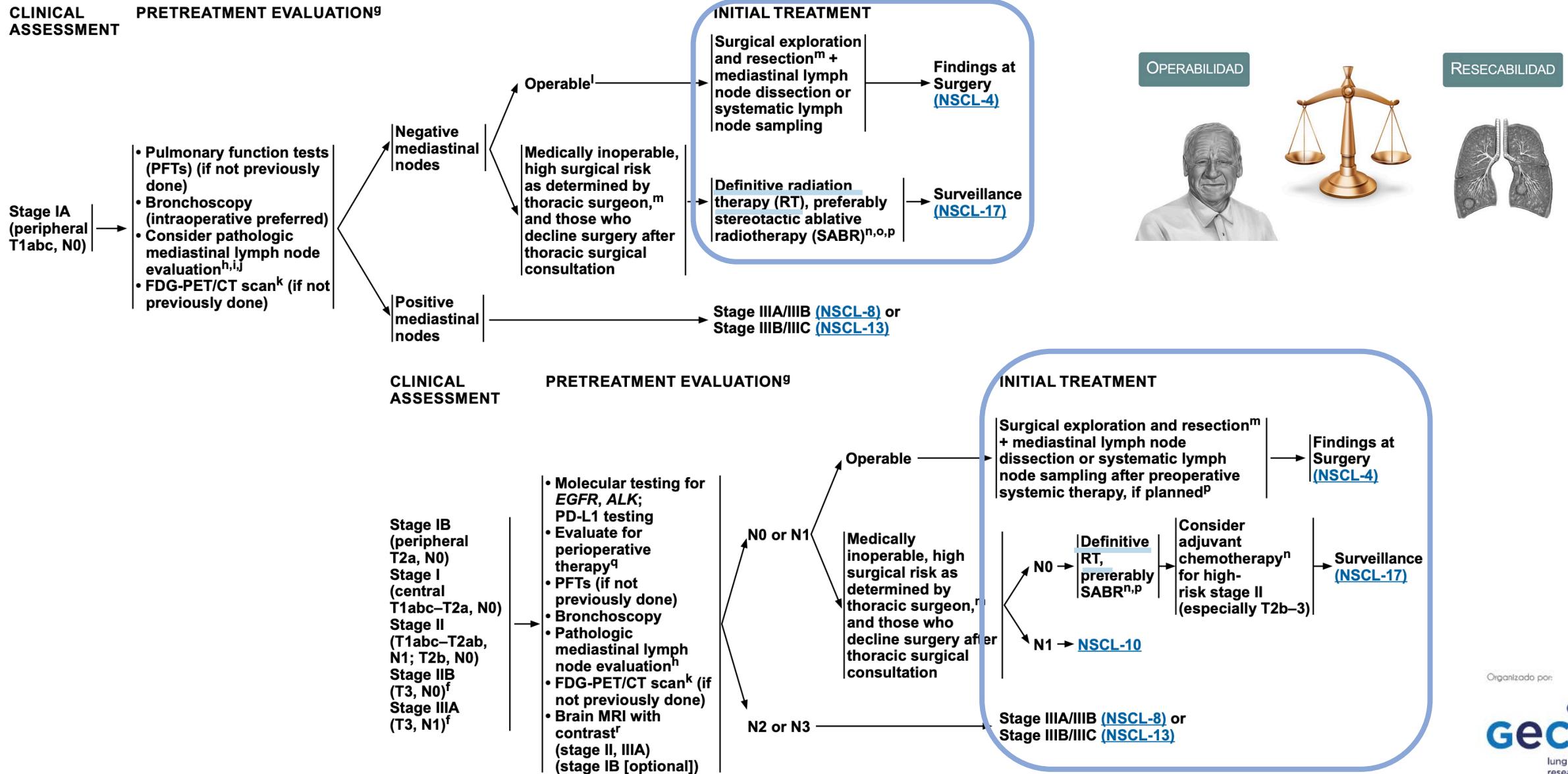


## FINDINGS



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# Early Stages NSCLC



# Adjuvant Treatment

## ADJUVANT IMMUNOTHERAPY TRIALS

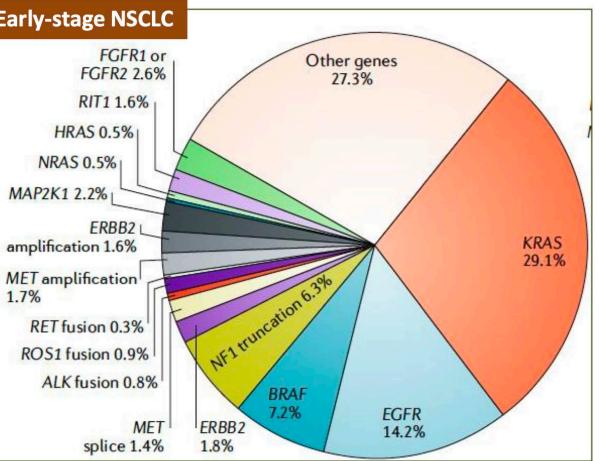
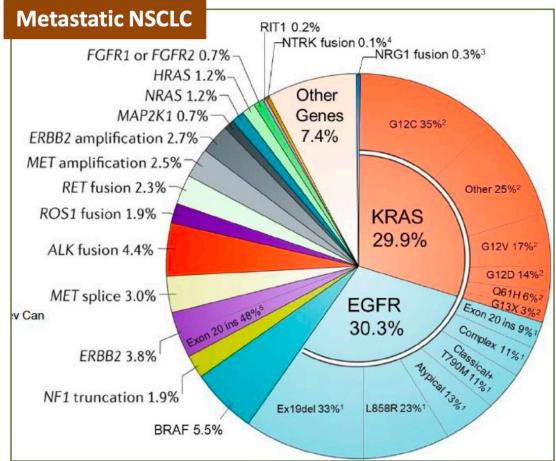
Study	Registry No.	Stage	No. of Patients	Experimental Arm	Control Arm	Prior Adjuvant Therapy	Primary Endpoint
<b>ANVIL</b>	NCT02595944	IB (> 4 cm), II, IIIA (AJCC 7th edition)	903	Nivolumab (1 y)	Observation	CT and/or RT allowed	DFS, OS in ITT DFS, OS in PD-L1 $\geq 1\%$
<b>PEARLS/ KEYNOTE-091<sup>49</sup></b>	NCT02504372	IB (> 4 cm), II, IIIA (AJCC 7th edition)	1,177	Pembrolizumab (1 y)	Placebo	CT allowed; No RT allowed	DFS
<b>IMpower010<sup>48</sup></b>	NCT02486718	IB (> 4 cm), II, IIIA (AJCC 7th edition)	1,280	Atezolizumab (16 cycles)	Observation (BSC)	CT required (CDDP)	DFS in PD-L1 TC $\geq 1\%$ stage II-IIIA DFS in all stage II-IIIA DFS in ITT
<b>BR-31 (IFCT1401)</b>	NCT02273375	IB (> 4 cm), II, IIIA (AJCC 7th edition)	1,360	Durvalumab (1 y)	Placebo	CT recommended; RT allowed (N2 disease)	DFS in PD-L1 $\geq 25\%$ and in all randomly assigned
<b>CANOPY-A</b>	NCT03447769	II-IIIB (N2) (AJCC 8th edition)	1,500	Canakinumab	Placebo	CT required; RT allowed	DFS
<b>MERMAID-1</b>	NCT04385368	II-III (AJCC 8th edition)	332	Durvalumab + CT	Placebo + CT	—	DFS in MRD+
<b>MERMAID-2</b>	NCT04642469	II-III (AJCC 8th edition)	284 (MRD+)	Durvalumab	Placebo	CT and/or RT allowed	DFS in PD-L1 $\geq 1\%$
<b>NADIM ADJUVANT</b>	NCT04564157	IB (> 4 cm), II, IIIA (AJCC 8th edition)	210	Nivolumab + CT	CT	Not allowed	DFS

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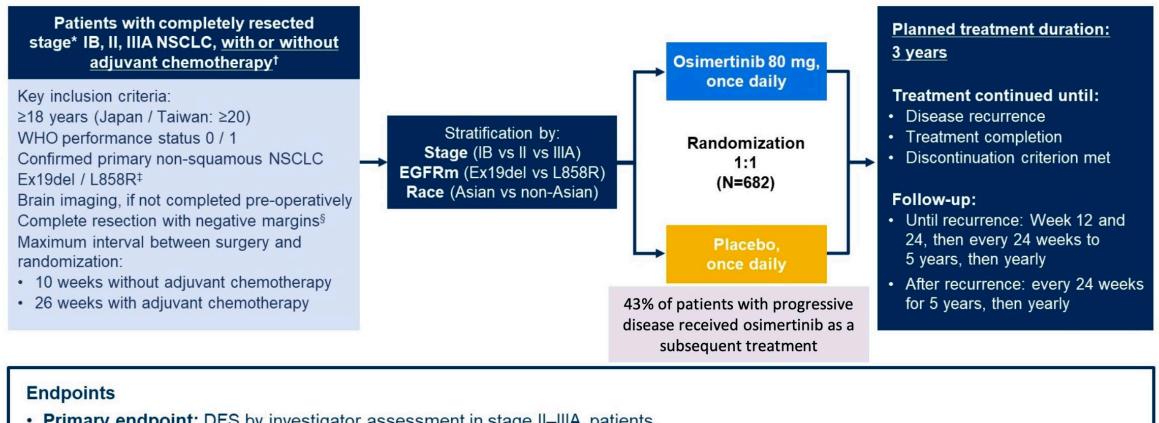
# Adjuvant Treatment

## ADJUVANT TKIs

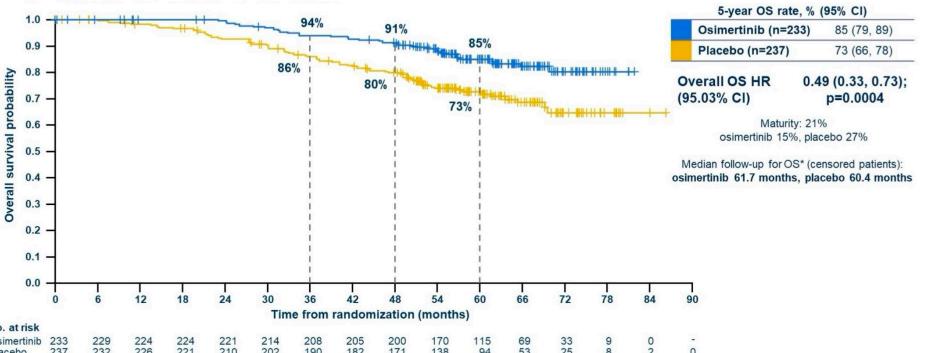
- TKIs in NSCLC with actionable genomic alterations (AGA) have improved the outcome in metastatic setting
- These strategies have also been tested in patients with resectable early-stage NSCLC



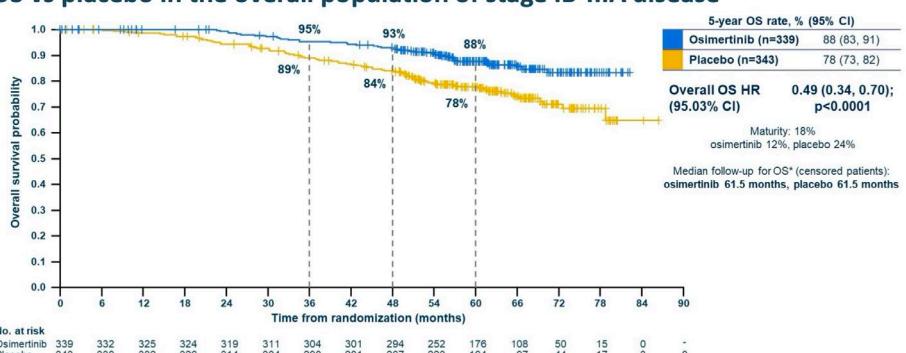
## ADAURA: study design



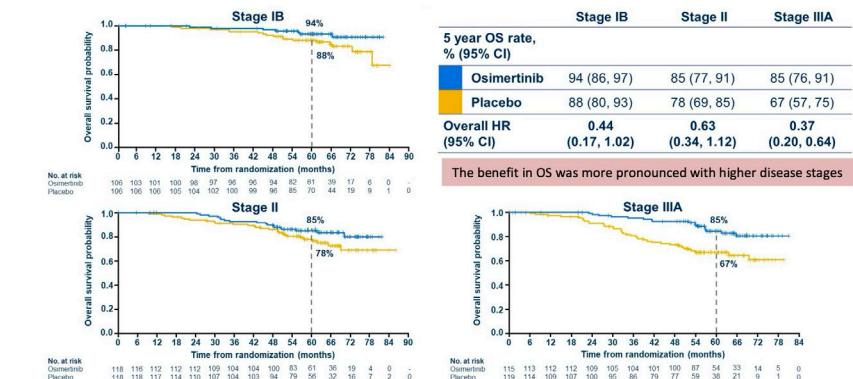
## ADAURA: adjuvant osimertinib has demonstrated significant improvement in OS vs placebo in the primary population of stage II-IIIA disease



## ADAURA: adjuvant osimertinib has demonstrated significant improvement in OS vs placebo in the overall population of stage IB-IIIA disease



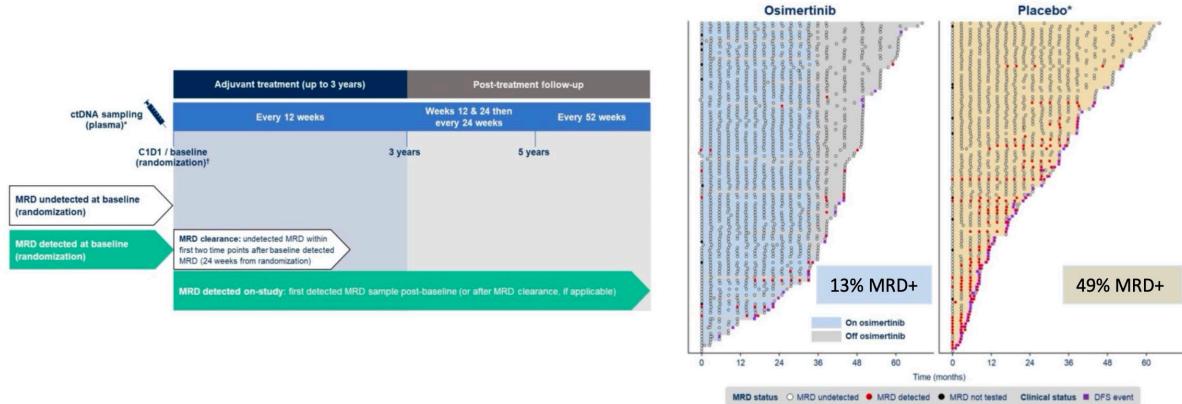
## ADAURA: overall survival by disease stage



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# Adjuvant Treatment

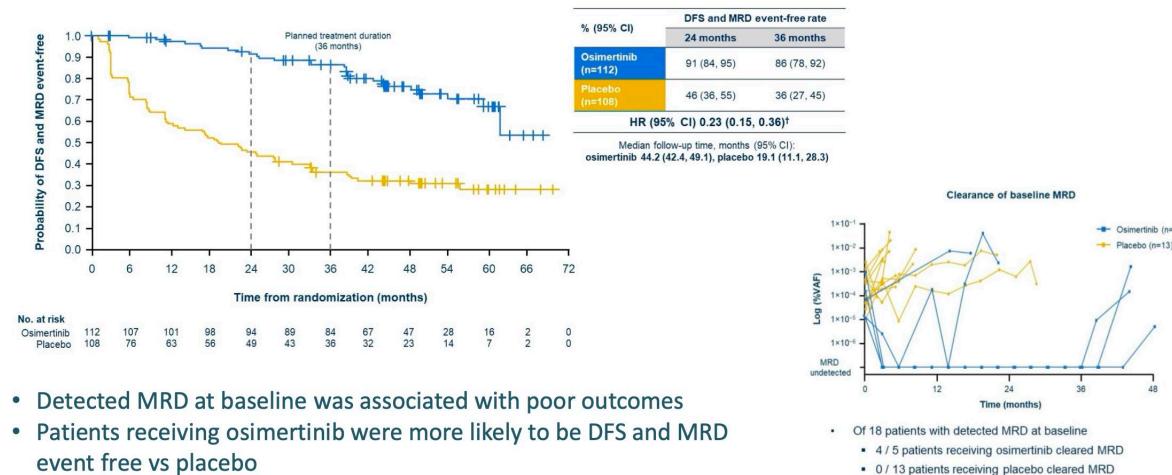
## ADAURA: molecular residual disease (MRD)



MRD events were detected more frequently with placebo vs osimertinib

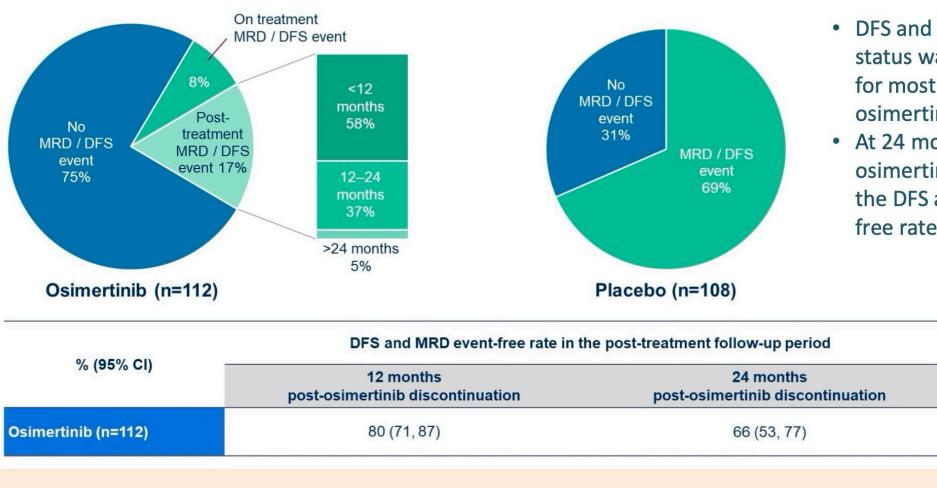
John T, ASCO 2024

## ADAURA: molecular residual disease (MRD)



John T, ASCO 2024

## ADAURA: molecular residual disease (MRD)



John T, ASCO 2024

# Adjuvant Treatment

## ALINA: study design

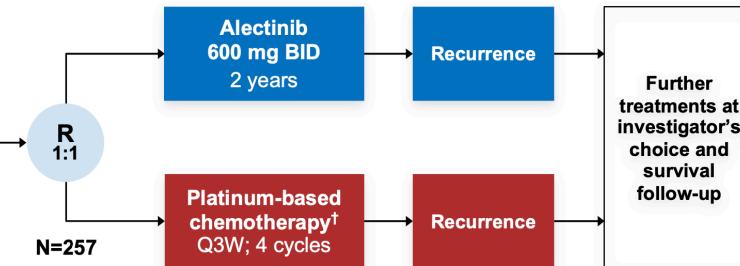
**Resected Stage IB ( $\geq 4\text{cm}$ )–IIIA ALK+ NSCLC per UICC/AJCC 7<sup>th</sup> edition**

**Other key eligibility criteria:**

- ECOG PS 0–1
- Eligible to receive platinum-based chemotherapy
- Adequate end-organ function
- No prior systemic cancer therapy

**Stratification factors:**

- Stage: IB ( $\geq 4\text{cm}$ ) vs II vs IIIA
- Race: Asian vs non-Asian



### Primary endpoint

- DFS per investigator,<sup>‡</sup> tested hierarchically:
  - Stage II–IIIA → ITT (Stage IB–IIIA)

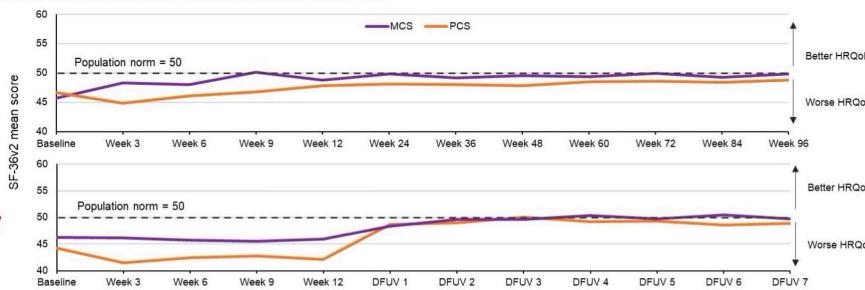
### Other endpoints

- CNS disease-free survival
- OS
- Safety

Solomon BJ, et al. ESMO 2023; Wu YL, et al. N Engl J Med 2024;390(14):1265-76.

## ALINA: long-term HRQoL outcomes

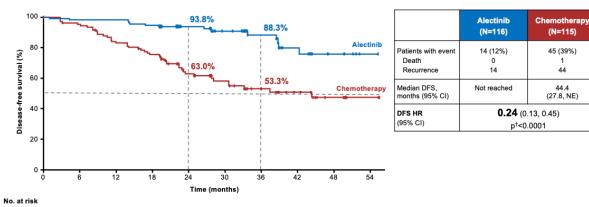
- During active treatment with alectinib, MCS (mental component summary) and PCS (physical component summary) generally improved through to week 96 and were similar to the general population
- With CT, MCS and PCS improved after treatment was completed
- Similar trends were observed across health domains



Nishio M, et al. ASCO 2024

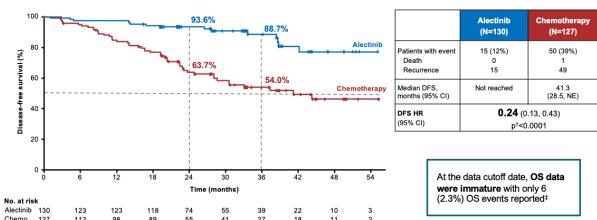
## ALINA: disease-free survival (DFS)

### DFS stage II-IIIA



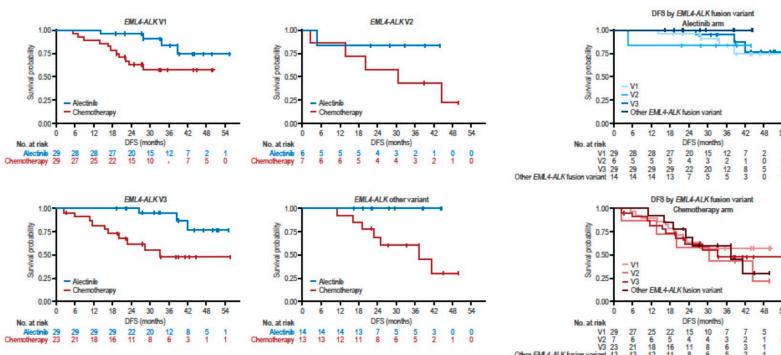
DFS stage II-IIIA NSCLC: HR 0.24 (95% CI 0.13-0.45; p<0.001)  
2-year DFS of 93.8% (alectinib) and 63.0% (CT)

### DFS ITT stage IB-IIIA



DFS stage II-IIIA NSCLC: HR 0.24 (95% CI 0.13-0.43; p<0.001)  
2-year DFS of 93.6% (alectinib) and 63.7% (CT)

## ALINA: DFS by EML4-ALK fusion variant

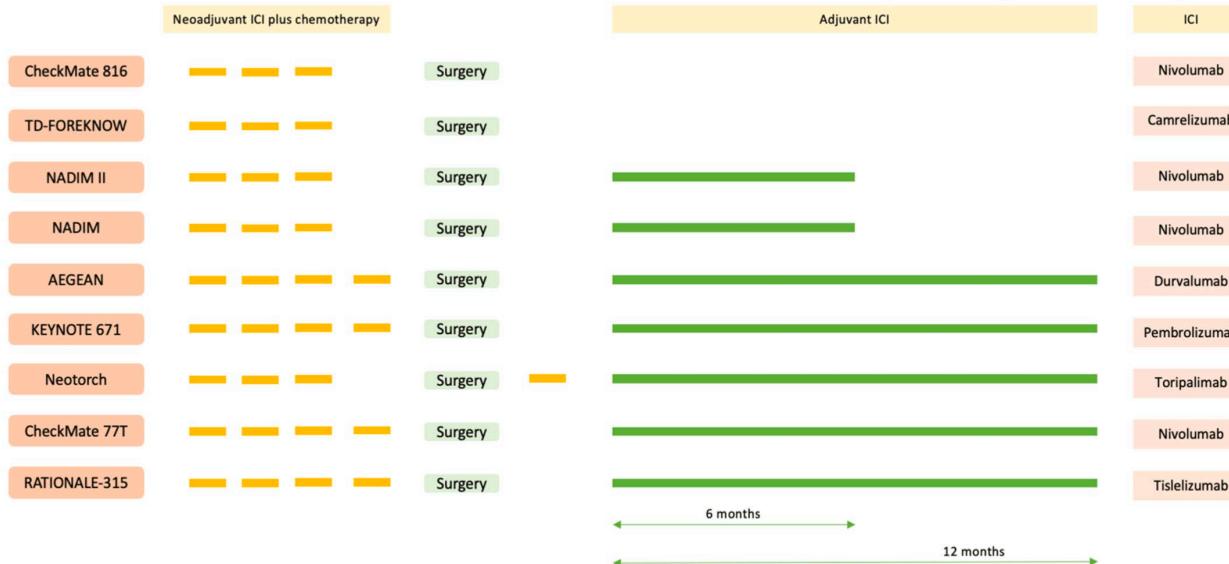
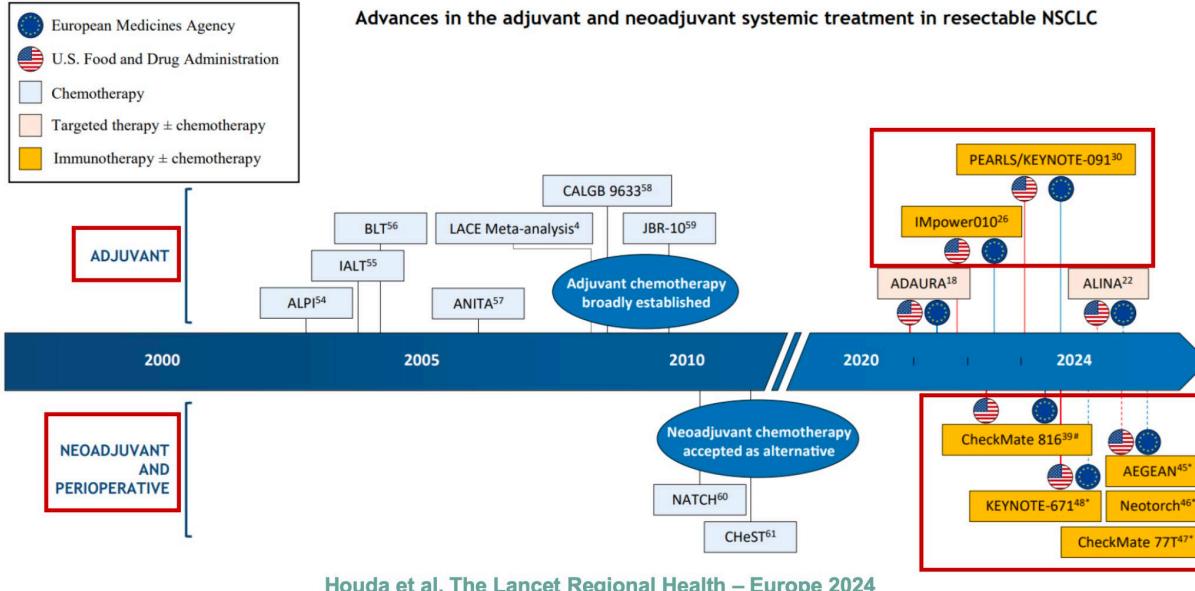


- Alectinib showed DFS benefit vs chemotherapy regardless of EML4-ALK fusion variant
- Alectinib and chemotherapy showed comparable DFS in all EML4-ALK fusion variants

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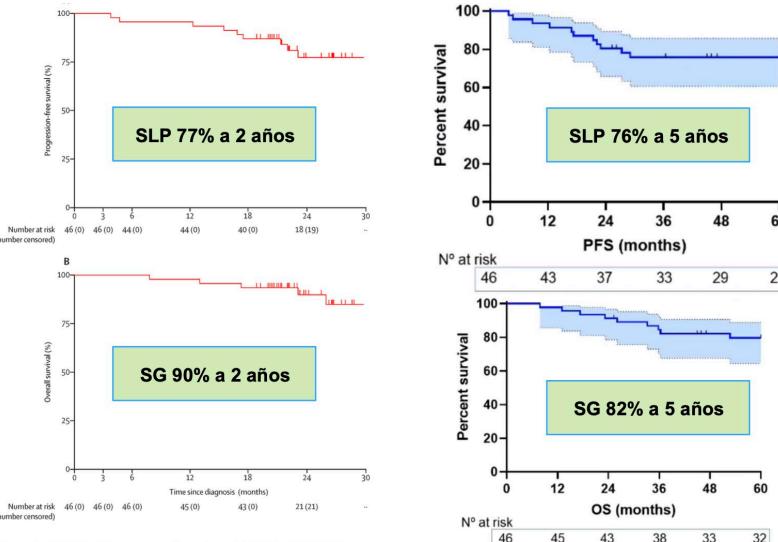
Solomon BJ, et al. ESMO 2024

# Locally Advanced NSCLC

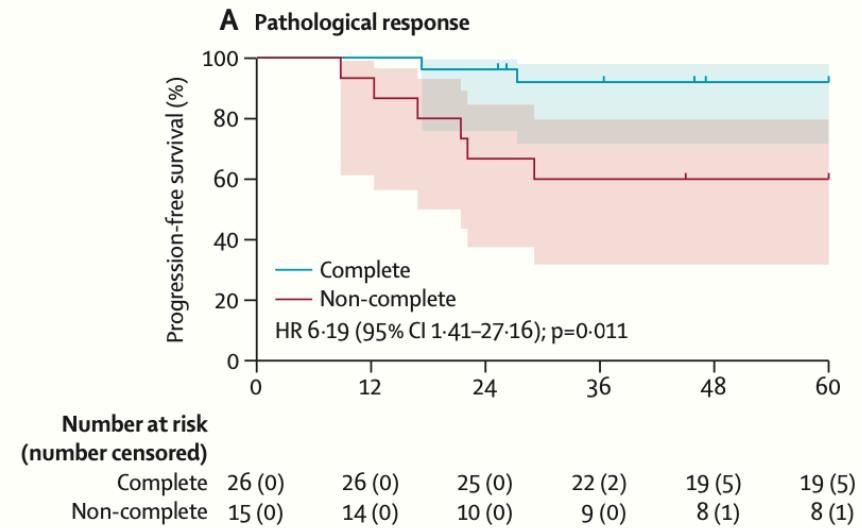


# Locally Advanced NSCLC

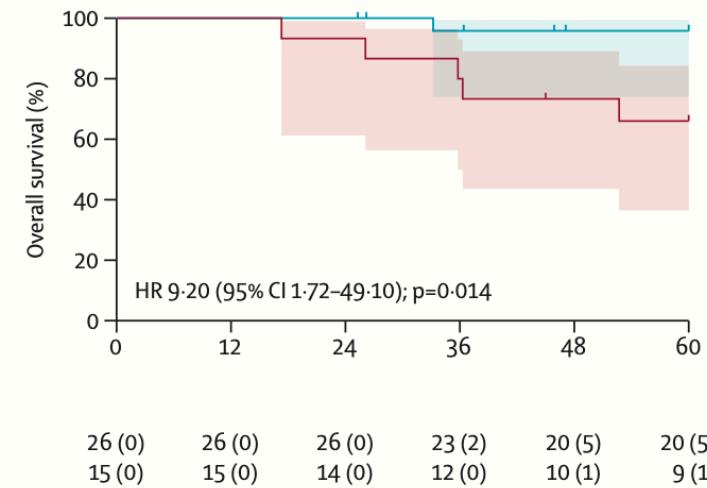
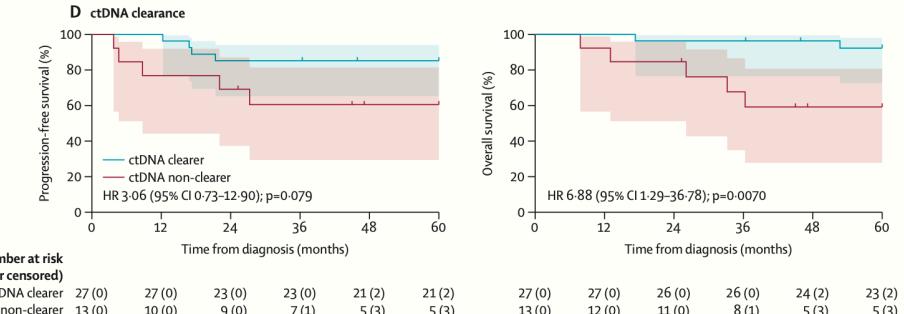
Patient baseline characteristics		N=46 (ITT)
Age (median, range)		63(41-77)
Male, N (%)		34 (74 %)
ECOG PS		
0 N (%)		25 (54%)
1 N (%)		21 (46%)
Smoking status, N (%)		
Former/current		46 (100%)
Adenocarcinoma, N (%)		28 (61)
Co-morbidities, N (%)		43 (93.5)
<b>N2</b>		<b>33 (89.2)</b>
<b>Multiple station</b>		<b>25 (75.8)</b>



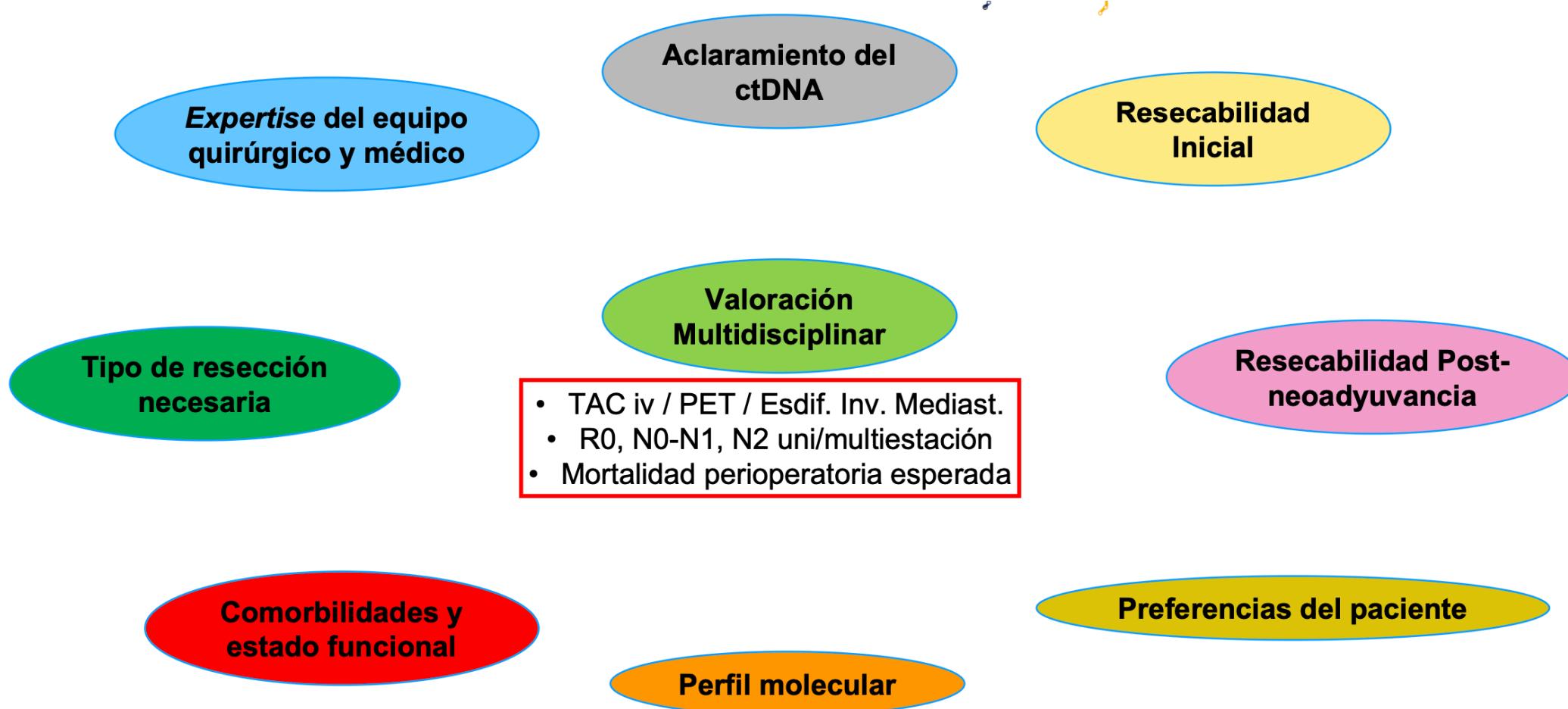
Provencio et al. Lancet Oncol, 2020; Provencio et al. WCLC 2024



# Perioperative chemotherapy and nivolumab in non-small-cell lung cancer (NADIM): 5-year clinical outcomes from a multicentre, single-arm, phase 2 trial



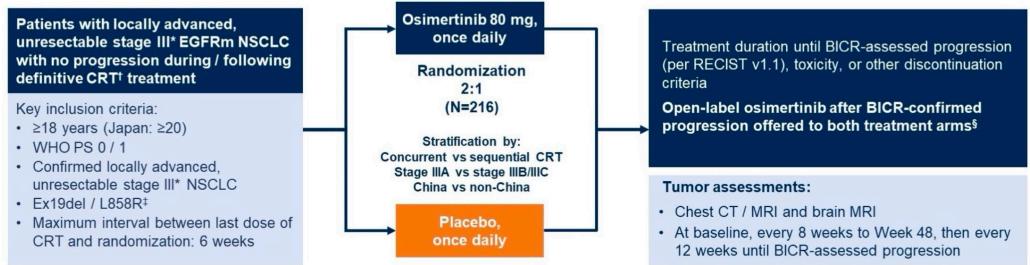
# Locally Advanced NSCLC



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# Unresectable NSCLC

## LAURA

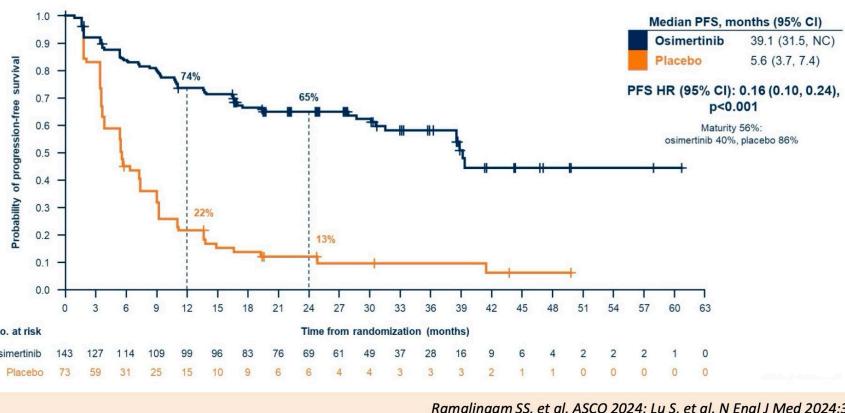


### Endpoints

- Primary endpoint: PFS assessed by BICR per RECIST v1.1 (sensitivity analysis: PFS by investigator assessment)
- Secondary endpoints included: OS, CNS PFS, safety

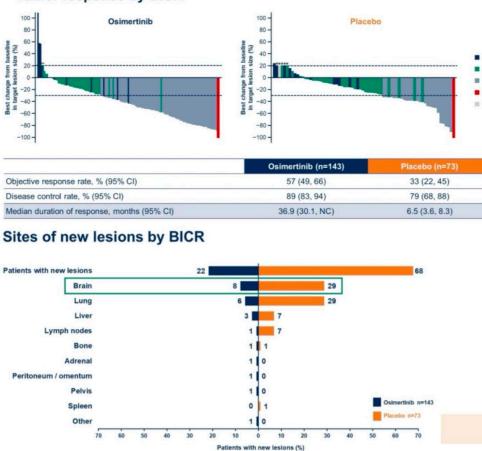
## LAURA

### Progression-free survival by BICR

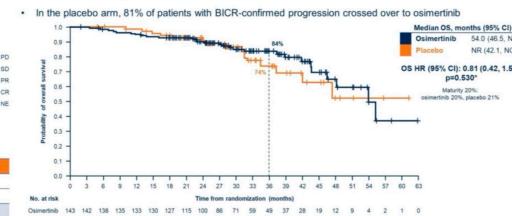


## LAURA

### Tumor response by BICR

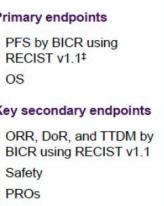


### Interim analysis of overall survival



- ORR 57% vs 33%; DCR 89% vs 79%; mDoR 36.9 vs 6.5m
- Patients with new brain lesions: 8% vs 29%
- Interim data OS showed a positive trend in favor of osimertinib, despite a high proportion of patients crossing over to osimertinib in the placebo arm (81%)

Ramalingam SS, et al. ASCO 2024; Lu S, et al. N Engl J Med 2024;391(7):585-97



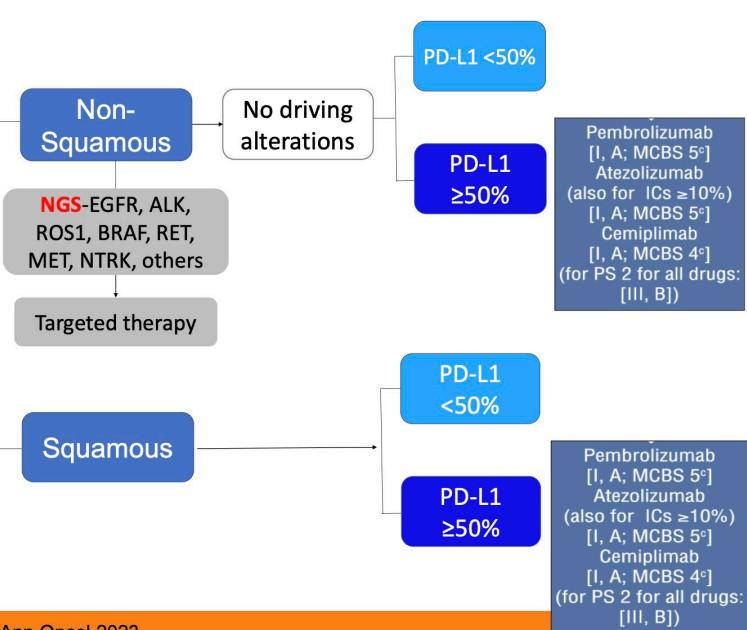
Organizado por:

# Advanced Non-targeted NSCLC

## State of the art in 2024

Treatment-naïve NSCLC

IO monotherapy



IO + QT or IO+IO  
Any expression PDL1

Pembrolizumab–platinum–pemetrexed (4 cycles) followed by pembrolizumab–pemetrexed [I, A; MCBS 4°]  
Atezolizumab–carboplatín–nab–paclitaxel (4–6 cycles) followed by atezolizumab [I, A; MCBS 3°]  
Atezolizumab–bevacizumab–carboplatín–paclitaxel (4–6 cycles) followed by atezolizumab–bevacizumab [I, A; MCBS 3°]  
Nivolumab–ipilimumab + 2 cycles of platinum-doublet ChT followed by nivolumab–ipilimumab [I, A; MCBS 4°]  
Cemiplimab–platinum–doublet ChT (4 cycles) followed by cemiplimab + pemetrexed maintenance<sup>a</sup> [I, A]  
Durvalumab–tremelimumab–platinum–doublet ChT (4 cycles) followed by durvalumab–tremelimumab (tremelimumab one additional dose) + pemetrexed maintenance<sup>a</sup>  
[I, A; MCBS 4°]  
Nivolumab–ipilimumab (only for PD-L1 ≥1%)<sup>b</sup> [I, A; MCBS 4°]

Pembrolizumab–carboplatín–(nab)–paclitaxel (4 cycles) followed by pembrolizumab [I, A; MCBS 4°]  
Nivolumab–ipilimumab + 2 cycles of platinum–doublet ChT followed by nivolumab–ipilimumab [I, A; MCBS 4°]  
Cemiplimab–platinum–doublet ChT (4 cycles) followed by cemiplimab<sup>c</sup> [I, A]  
Durvalumab–tremelimumab–platinum–doublet ChT (4 cycles) followed by durvalumab–tremelimumab (tremelimumab one additional dose)<sup>d</sup>  
[I, A; MCBS 4°]  
Nivolumab–ipilimumab (only for PD-L1 ≥1%)<sup>b</sup> [I, A; MCBS 4°]

## News combinations

### News CkP'I

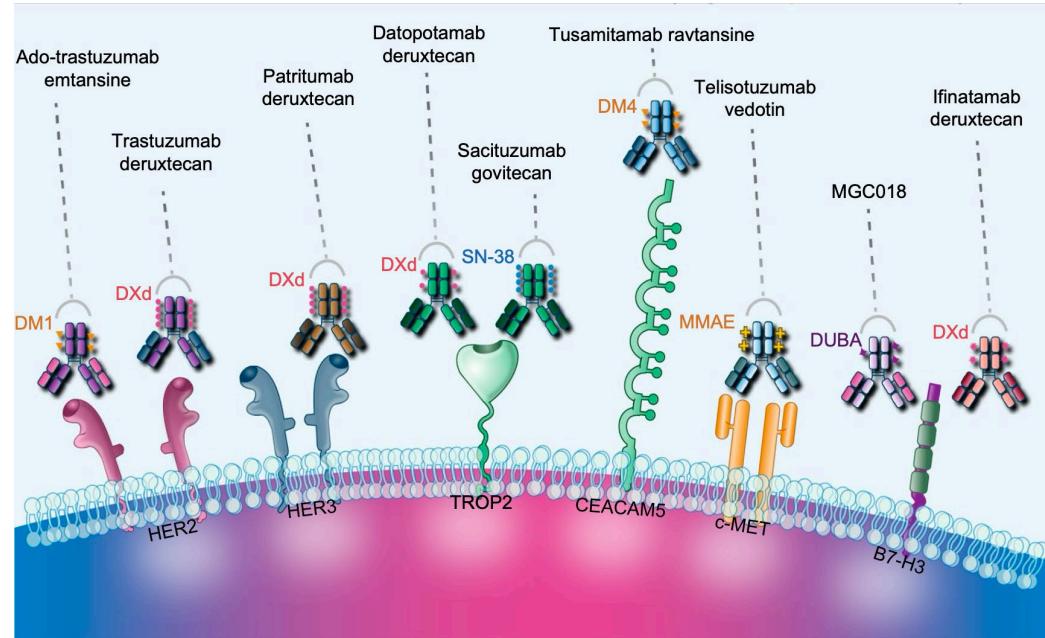
### ADC

### Bispecific drugs

### First line

### Other lines

# Advanced Non-targeted NSCLC



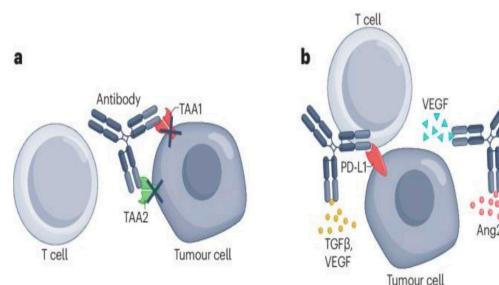
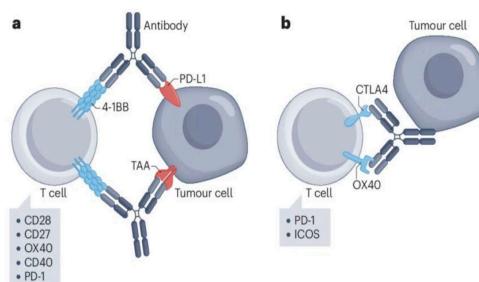
## Trials with TROP2 in 1L and PDL1>50%



## Trials with TROP2 combinations in 1L all comers

TROPION-Lung02	IB	Dato-DXd + pembro + pembro + platinum	1L/2L	NCT04526691
TROPION-Lung04	IB	Dato-DXd + durva + durva + platinum	1L/2L	NCT04612751
TROPION-Lung07	III	Dato-DXd + pembro + pembro + pembro + pemetrexed + platinum	1L PDL1 < 50%	NCT05555732
TROPION-Lung08	III	Dato-DXd + pembro + pembro + pembro	1L PDL1 > 50%	NCT05215340
<b>AVANZAR</b>	III	Dato-DXd + durva + carboplatin + Pembro + histology-specific platinum doublet	1L	NCT05687266
EVOKE-03	III	Sacituzumab + pembro + pembro	1L PDL1 ≥ 50%	NCT05609968
EVOKE-02	II	Sacituzumab + pembro + pembro + platinum	1L	NCT05186974

## Bispecific and multispecific antibody



Bring immune cells close to tumor cells

Blocking multiple signals

# Advanced targeted NSCLC

## Contextualizing the Data: Amivantamab (IV) Indications and Clinical Trials in Advanced NSCLC

Clinical Trial	Amivantamab Regimen	Phase	Patient Population	Status
<b>CHRYSALIS</b> NCT02609776	Amivantamab	I	Cohorts for EGFR and MET	FDA, EMA, NICE approval for EGFR ex20ins, post-platinum
<b>PAPILLON</b> NCT04538664	Amivantamab + Carboplatin/pemetrexed	III	EGFR ex20ins, 1L	FDA approval
<b>MARIPOSA</b> NCT04487080	Amivantamab + Lazertinib	III	EGFR ex19del/L858R, 1L	Under FDA review
<b>MARIPOSA-2</b> NCT04988295	Amivantamab + Carboplatin/pemetrexed +/- Lazertinib	III	EGFR ex19del/L858R, 2L	Under FDA review
<b>CHRYSALIS-2</b> NCT04077463	Amivantamab + Lazertinib	I/Ib	EGFR ex19del/L858R, 2L	Clinical trial ongoing
<b>METalmark</b> NCT05488314	Amivantamab + Capmatinib	I/II	MET ex14 skipping, MET amplified	Clinical trial ongoing
<b>PolyDamas</b> NCT05908734	Amivantamab + Cetrelimab	I/II	No genotype restriction	Clinical trial ongoing

**Amivantamab Plus Chemotherapy vs Chemotherapy as First-Line Treatment in EGFR Exon 20 Insertion-mutated Advanced NSCLC: Analysis of Post-Progression Endpoints From PAPILLON**

Enriqueita Felip<sup>1</sup>, Catherine Shiu<sup>2</sup>, Andrea Aguirre<sup>3</sup>, Ke-Jing Tang<sup>4</sup>, Maria Del Rosario Garcia-Campelo,<sup>5</sup> Kang-jun Lee<sup>6</sup>, Angelo Deolimonte<sup>7</sup>, Joshua K. Sabat<sup>8</sup>, Nicolas Girard<sup>9</sup>, Aaron S. Mansfield<sup>10</sup>, Keunghil Park<sup>11,12</sup>, Caicun Zhou<sup>13</sup>, Karen Xia<sup>14</sup>, Archan Bhattacharya<sup>15</sup>, Mark Wade<sup>14</sup>, Mahadi Baig<sup>16</sup>, Trishala Agrawal<sup>17</sup>, Parthiv Mahadevia<sup>18</sup>, Roland E. Knoblauch<sup>14</sup>, Rachel E. Sanborn<sup>19</sup>

<sup>1</sup> Vall d'Hebron University Hospital and Vall d'Hebron Institut de Oncology, Barcelona, Spain; <sup>2</sup>Columbia University Medical Center, New York, NY, USA; <sup>3</sup>Hospital Universitario Quirón-Deusto, Barcelona, Spain; <sup>4</sup>The First Affiliated Hospital, Sun Yat-sen University, Guangzhou, China; <sup>5</sup>National University A Coruña, Coruña, Spain; <sup>6</sup>Taipei Medical University Shuang Ho Hospital, Taipei, Taiwan; <sup>7</sup>IRCCS Istituto Romagnosi per lo Studio del Tumore "Ottavio Amato" (IRST), Medolla, Italy; <sup>8</sup>Lungo Health & Medical Sciences, New York, NY, USA; <sup>9</sup>Institut Curie, Institut du Thorax Curie-Montrouge, Paris, France; and Per-Söder University, Uppsala, Sweden; <sup>10</sup>Memorial Sloan Kettering Cancer Center, New York, NY, USA; <sup>11</sup>University of Texas MD Anderson Cancer Center, Houston, TX, USA; <sup>12</sup>Shanghai Pulmonary Hospital, Tongji University School of Medicine, Shanghai, China; <sup>13</sup>Janssen Research & Development, Spring House, PA, USA; <sup>14</sup>Janssen Research & Development, High Wycombe, UK; <sup>15</sup>Janssen Research & Development, Raritan, NJ, USA; <sup>16</sup>Earle A. Chiles Research Institute, Providence Cancer Institute, Portland, OR, USA.

<sup>17</sup>Janssen Research & Development, Titusville, NJ, USA; <sup>18</sup>Cedars Sinai Medical Center, Los Angeles, CA, USA.

<sup>19</sup>Janssen Research & Development, San Diego, CA, USA; <sup>20</sup>Janssen Research & Development, Raritan, NJ, USA.

<sup>21</sup>Janssen Research & Development, Shanghai, China; <sup>22</sup>Janssen Research & Development, Alleswil, Switzerland; <sup>23</sup>Janssen Research & Development, San Ho, Seoul, Republic of Korea.

<sup>24</sup>Janssen Research & Development, Titusville, NJ, USA; <sup>25</sup>Multidisciplinary Oncology & Therapeutic Innovations Department, Assistance Publique - Hôpitaux de Marseille, Aix-Marseille University, CNRS, INSERM, CRM, APHM, Marseille, France.

<sup>26</sup>Janssen Research & Development, Shanghai, China; <sup>27</sup>Janssen Research & Development, Raritan, NJ, USA; <sup>28</sup>Department of Medical Oncology, Vall d'Hebron Institut de Oncology (VHIO), Vall d'Hebron University Hospital Campus, Universitat Autònoma de Barcelona, Spain; <sup>29</sup>Medical Oncology, Vall d'Hebron Institut de Oncology, Vall d'Hebron University Hospital Campus, Universitat Autònoma de Barcelona, Spain; <sup>30</sup>Medical Oncology Department, Hospital Regional Universitario de Málaga y Virgen de la Victoria, Málaga, Spain; <sup>31</sup>Medical Oncology Unit, Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia; <sup>32</sup>Sainte-Justine University Hospital, Villejuif, France; <sup>33</sup>Shanghai Lung Cancer Center, Shanghai Changhai Hospital, Shanghai Jiao Tong University, Shanghai, China; <sup>34</sup>Virginia Cancer Specialists, Fairfax, VA, USA; <sup>35</sup>Institut du Thorax Curie-Montrouge, Paris, France; and Per-Söder University, Uppsala, Sweden; <sup>36</sup>Department of Medical Oncology, The Christie NHS Foundation Trust and Division of Cancer Sciences, The University of Manchester, Manchester, UK; <sup>37</sup>Department of Internal Medicine, Henry Ford Cancer Institute, Detroit, MI, USA; <sup>38</sup>National Taiwan University Cancer Center and National Taiwan University Hospital, Taipei, Taiwan; <sup>39</sup>Ehime University Hospital, Toon, Ehime, Japan; <sup>40</sup>Kurume University School of Medicine, Kurume, Japan; <sup>41</sup>Janssen Research & Development, Spring House, PA, USA; <sup>42</sup>Janssen Research & Development, High Wycombe, UK; <sup>43</sup>Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea.

**PALOMA-3: Phase III Noninferiority Trial of SC Amivantamab vs IV Amivantamab Each With Lazertinib in Progressive Advanced EGFR-Mutated NSCLC**

**CCO Independent Conference Coverage\***

of the 2024 American Society of Clinical Oncology Annual Meeting,  
May 31 - June 4, 2024

\*CCO is an independent medical education company that provides state-of-the-art medical information to healthcare professionals through conference coverage and other educational programs.

**Amivantamab Plus Chemotherapy vs Chemotherapy in EGFR-mutant Advanced NSCLC After Progression on Osimertinib: A Post-progression Analysis of MARIPOSA-2**

Ryan D. Gentzler<sup>1</sup>, Alexander I. Spira<sup>2</sup>, Barbara Melosky<sup>3</sup>, Scott Owen<sup>4</sup>, Timothy F. Burns<sup>5</sup>, Ermilia Massarelli<sup>6</sup>, Misako Nagasaka<sup>7</sup>, Bruno Fang<sup>8</sup>, Rachel E. Sanborn<sup>9</sup>, Oscar Arrieta<sup>10</sup>, Cynthia Card<sup>11</sup>, Federico Cappuzzo<sup>12</sup>, Karen Xia<sup>13</sup>, Pei-Ling Chu<sup>14</sup>, SuJui Shah<sup>13</sup>, Brooke Diorio<sup>15</sup>, Angela Girvin<sup>13</sup>, Parthiv Mahadevia<sup>14</sup>, Joshua M. Bauml<sup>13</sup>, Karen L. Reckamp<sup>16</sup>

<sup>1</sup>Hematology/Oncology, University of Virginia Cancer Center, Charlottesville, VA, USA; <sup>2</sup>Virginia Cancer Specialists, Fairfax, VA, USA; <sup>3</sup>British Columbia Cancer Agency, Vancouver, British Columbia, Canada; <sup>4</sup>McGill University Health Centre (MUHC), Montreal, Quebec, Canada; <sup>5</sup>UPMC Hillman Cancer Center, Pittsburgh, PA, USA; <sup>6</sup>City of Hope Comprehensive Cancer Center, Duarte, CA, USA; <sup>7</sup>Universidad de Navarra, Pamplona, Spain; <sup>8</sup>University of Texas MD Anderson Cancer Center, Houston, TX, USA; <sup>9</sup>Chiles Research Institute, Providence Cancer Institute of Oregon, Portland, OR, USA; <sup>10</sup>Instituto Nacional de Cancerología, Mexico City, Mexico; <sup>11</sup>Amie Charboneau Cancer Institute, Calgary, Alberta, Canada; <sup>12</sup>IRCCS Regina Elena National Cancer Institute, Rome, Italy; <sup>13</sup>Janssen Research & Development, Spring House, PA, USA; <sup>14</sup>Janssen Research & Development, Raritan, NJ, USA; <sup>15</sup>Janssen Research & Development, Titusville, NJ, USA; <sup>16</sup>Cedars Sinai Medical Center, Los Angeles, CA, USA.

**Amivantamab plus lazertinib vs osimertinib in first-line EGFR-mutant advanced non-small cell lung cancer (NSCLC) with biomarkers of high-risk disease: A secondary analysis from the phase 3 MARIPOSA study**

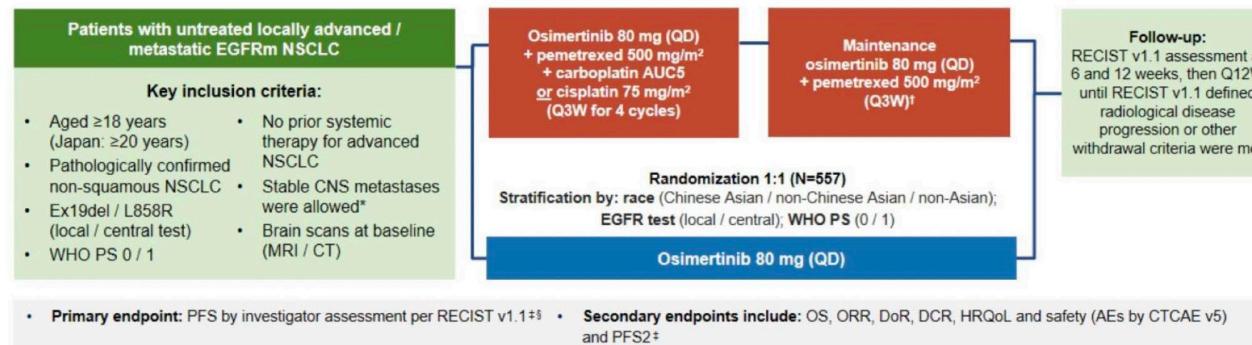
Enriqueita Felip<sup>1</sup>, Byoung Chul Cho<sup>2</sup>, Vanesa Gutiérrez<sup>3</sup>, Adlina Alip<sup>4</sup>, Benjamin Besse<sup>5</sup>, Shun Lu<sup>6</sup>, Alexander I. Spira<sup>7</sup>, Nicolas Girard<sup>8</sup>, Raffaele Califano<sup>9</sup>, Shirish M Gadjeel<sup>10</sup>, James Chih-Hsin Yang<sup>11</sup>, Naoyuki Nogami<sup>12</sup>, Koichi Azuma<sup>13</sup>, Joshua C Curtin<sup>14</sup>, Jiarui Zhang<sup>14</sup>, Anesh Panchal<sup>15</sup>, Mariah Ennis<sup>14</sup>, Seema Sethi<sup>14</sup>, Joshua M Bauml<sup>14</sup>, Se-Hoonee Lee<sup>16</sup>

Organizado por:

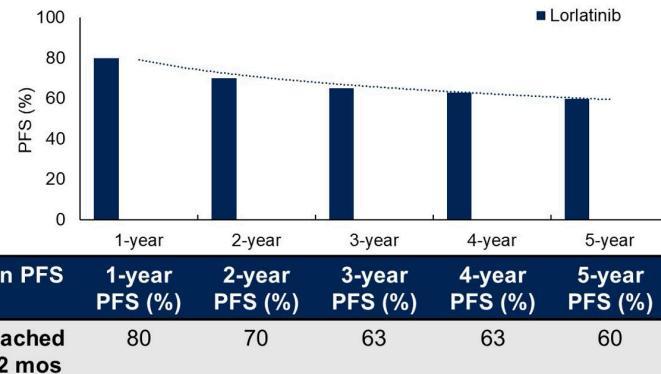
**GeCP**  
lung cancer research

# Advanced targeted NSCLC

## FLAURA2 Phase III study design (NCT04035486)

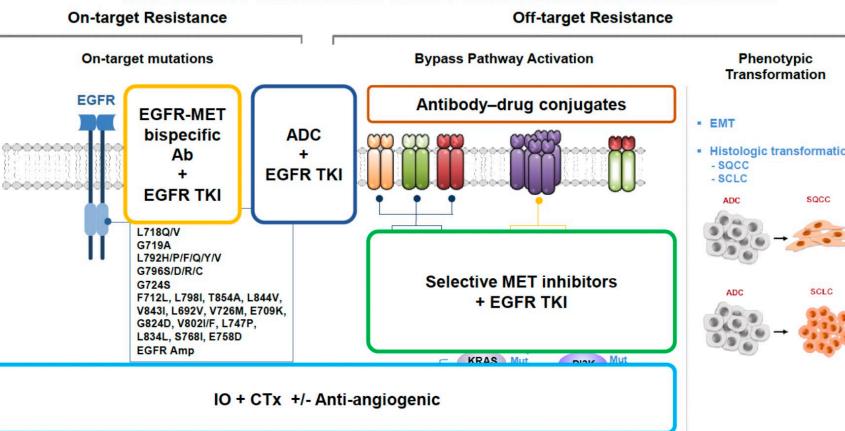


## Evaluating CROWN in the Context of ALK Treatment Landscape: Systemic Efficacy



## Beyond Osi Progression

TREATMENT STRATEGIES based on the resistance mechanism



# Advanced targeted NSCLC

KRAS G12C

RET

MET ex14

ROS 1

NTRK1,2,3

HER 2, 3

BRAF

Selpercatinib

Capmatinib

Repotrectinib

Tepotinib

Velbretinib

Taletrectinib

Sotorasib

Savolitinib

Adagrasib

Dabrafenib

Divarasib

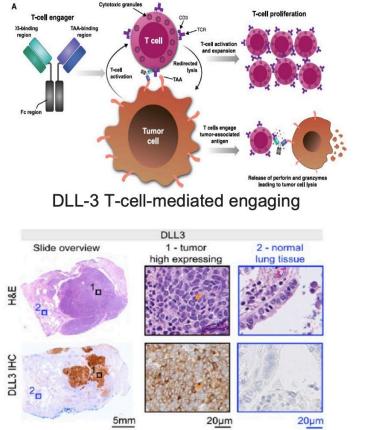
Pralsetinib

Encorafenib

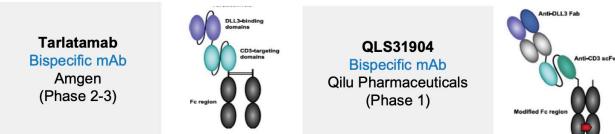
.....

# Other thoracic tumors

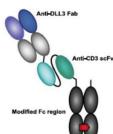
## SCLC



**Tarlatamab Bispecific mAb**  
Amgen (Phase 2-3)



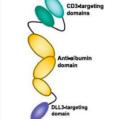
**QLS31904 Bispecific mAb**  
Qilu Pharmaceuticals (Phase 1)



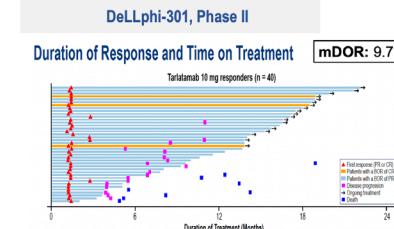
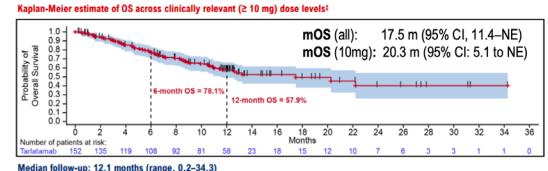
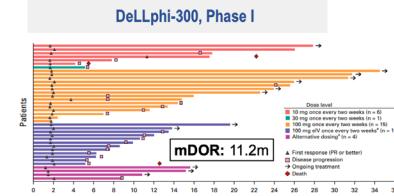
**Obrixtamig (BI 764532) Bispecific mAb**  
Boehringer Ingelheim (Phase 1-2)



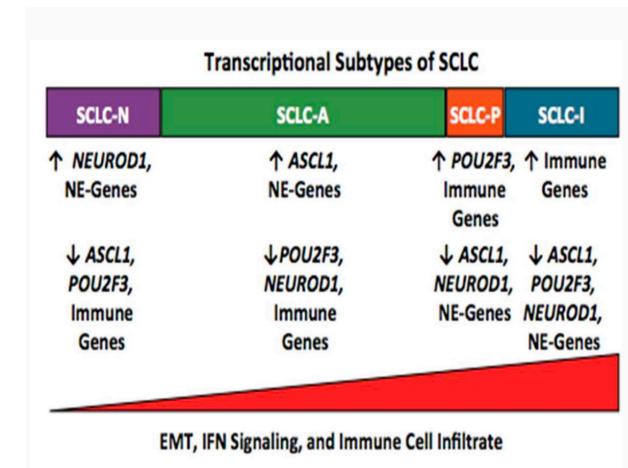
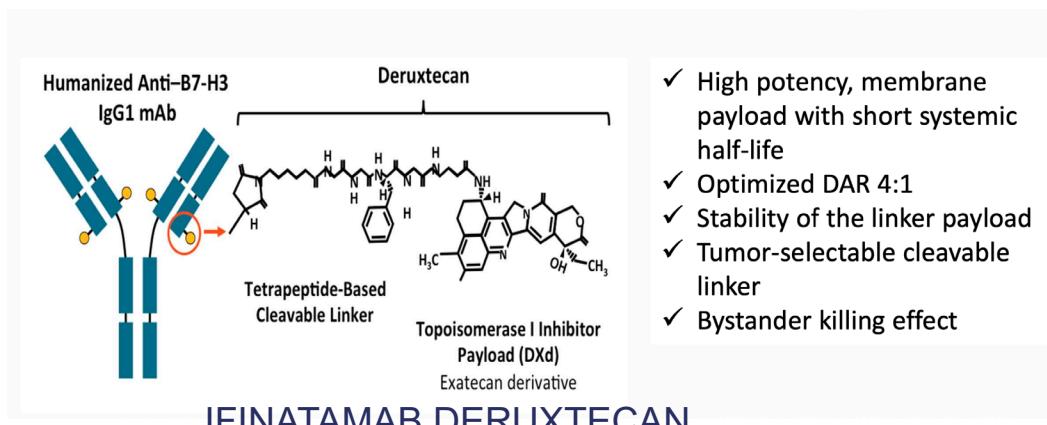
**HPN328 or MK-6070 Trispecific mAb**  
Daiichi/ Merck/Harpoon (Phase 1/2)



- Others: RO7616789 (Roche/Chugai)



1.- Paz-Ares J Clin Oncol 2023; 2.- Hummel, ELCC 2024, 3.- Dowlati JCO 2024, 4.- Ahn MJ, NEJM 2023 , 5.-Sands J. WCLC 2024



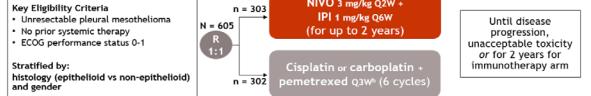
# Other thoracic tumors

## Mesothelioma

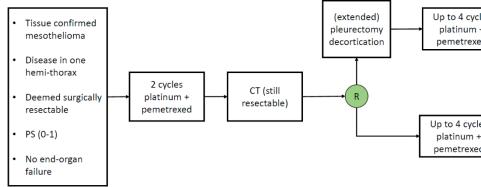
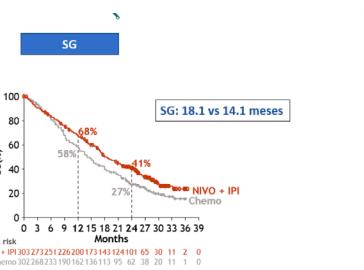
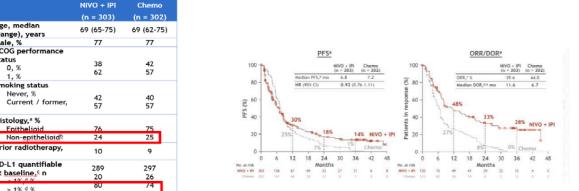
Primer estudio randomizado que compara QT frente a **inmunoterapia**

No mejoría en PFS ni ORR, sí en SG

Estudio positivo, aprobado por **FDA y EMA**



**Primary Endpoint**  
• OS  
• ORR, DCR, and PFS by BICR  
• PD-L1<sup>+</sup> expression as a predictive biomarker



Objetivo primario supervivencia:

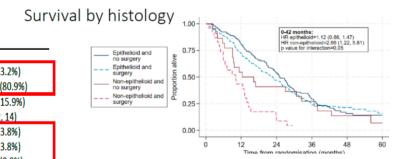
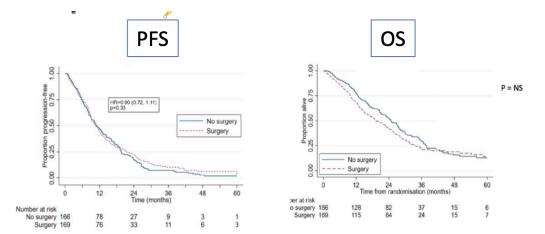
**19.3 m cirugía**

**24.8 m quimioterapia**

4.5% de los pacientes no recibieron el tto asignado y 7.5% se retiraron después de randomización

Incluyó 12% de pacientes con tumores no epiteloides

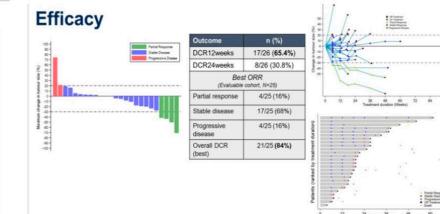
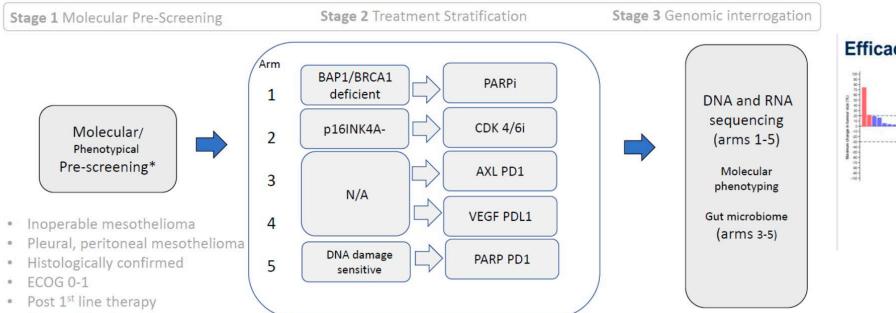
Estadaje por TAC



## CHECK MATE 473

### Mesothelioma Stratified Therapy (MiST) study design

Trials.gov ID NCT03654833



- Primary endpoint response
- Secondary endpoint DCR
- Rebiopsy, responders

FENNELL. ASCO 2024

# Novedades & Claves en CÁNCER de PULMÓN **2024**

Añade esta fecha  
a tu calendario 

**21** Enero 2025  
16:00h-18:00h

FORMATO **VIRTUAL**

**ACCEDER**

## Programa científico

- |               |  |
|---------------|--|
| 16:00 - 16:10 | Introducción<br><b>Dr. Jose Luís González Larriba</b><br>Hospital Clínico San Carlos, Madrid   |
| 16:10 - 16:30 | Biomarcadores pronósticos<br><b>Dra. Ana Cardeña</b><br>Hospital Univ. Nuestra Señora de Candelaria, Santa Cruz de Tenerife                                |
| 16:30 - 16:50 | Estadios iniciales y enfermedad<br>localmente avanzada<br><b>Dr. Eider Akconá</b><br>Hospital Univ. de Cruces, Baracaldo, Vizcaya                          |
| 16:50 - 17:10 | Enfermedad metastática<br>(incluyendo inmunoterapia)<br><b>Dra. Noelia Vilariño</b><br>ICO, Hospital Duran i Reynals, L'Hospitalet de Llobregat, Barcelona |
| 17:10 - 17:30 | Cáncer de pulmón microcítico y otros tumores<br><b>Dr. Juan Luis Martí</b><br>Hospital General Univ. Dr. Balmis, Alicante                                  |
| 17:30 - 17:45 | Debate   |
| 17:45 - 18:00 | Conclusiones<br><b>Dr. Jose Luís González Larriba</b><br>Hospital Clínico San Carlos, Madrid   |

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**Johnson&Johnson**