

Avances en el tratamiento de la enfermedad precoz EGFR mutada

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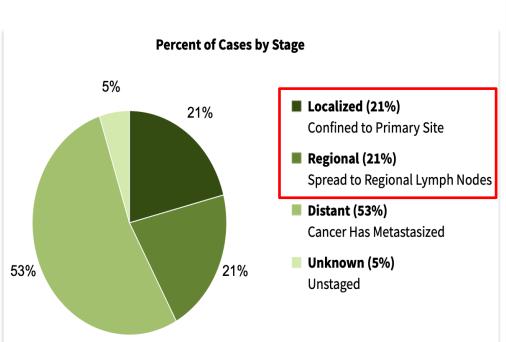
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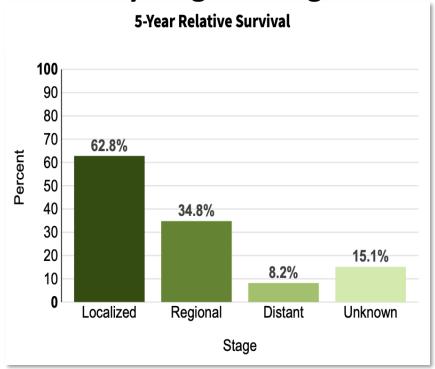
Disclosure Information

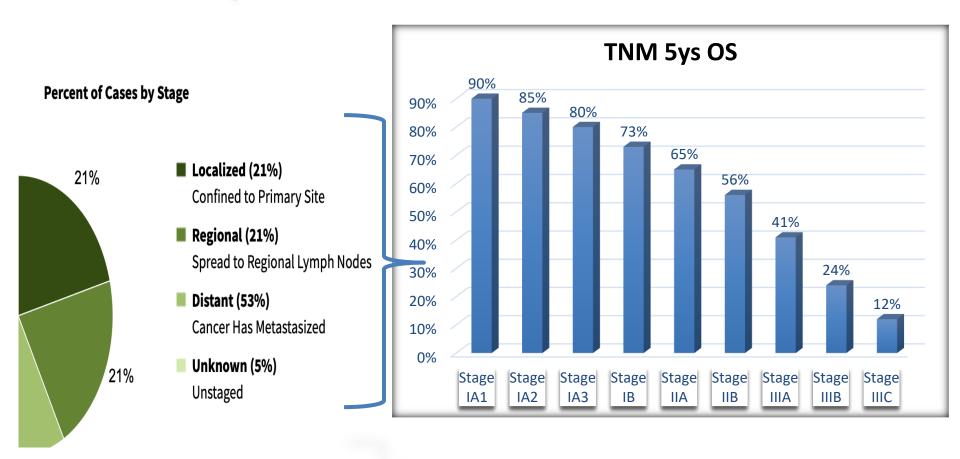
- Personal fees/honoraria for consultancy/Advisory role and lectures from Roche/Genentech, AstraZeneca, Bristol-Myers Squibb, Boehringer Ingelheim, Merck Sharp and Dohme, Merck Serono, Eli Lilly, Gilead, Incyte, Sanofi, Regeneron, Incyte, Pfizer, Takeda and Novartis
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- Grant support for studies from BMS



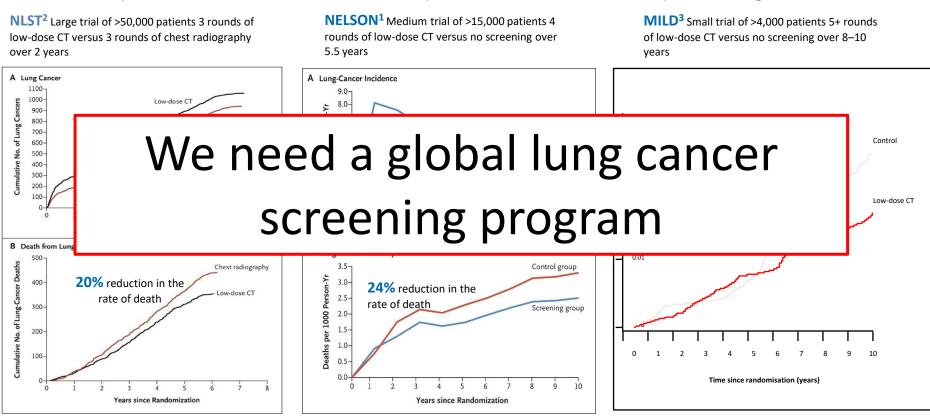
Percent of Cases & 5-Year Relative Survival by Stage at Diagnosis







Early detection the better way to reduce mortality in lung cancer

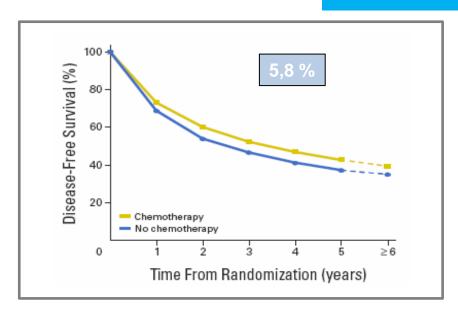


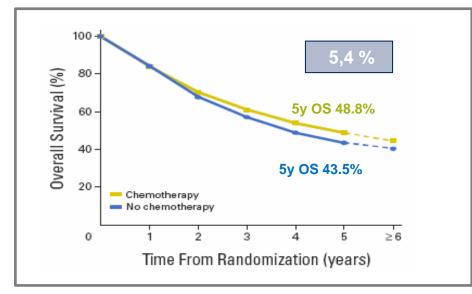
¹ de Koning, et al. N Engl J Med 2020 ² National Lung Screening Trial Research Team. N Engl J Med 2011 ³ Peatering

LACE Meta-analysis of Adjuvant Chemo: Chemotherapy Effect and Stage

• In a retrospective European study, only 48% of patients with resected NSCLC received adjuvant chemotherapy.

DFS lead to OS benefit





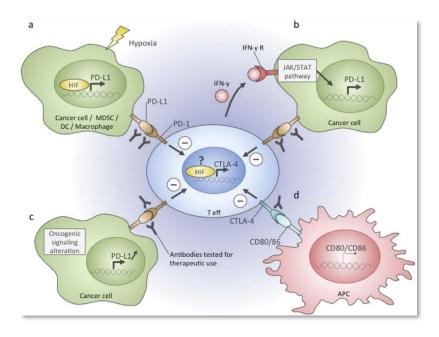


The **BIG 2** in the Treatment of NSCLC and Now even in Early Stage

Targeted Therapy

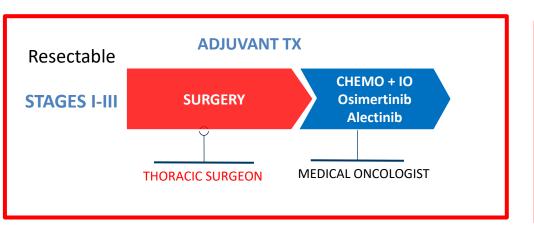


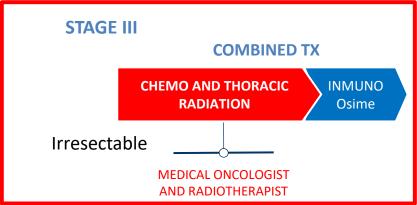
Immunotherapy

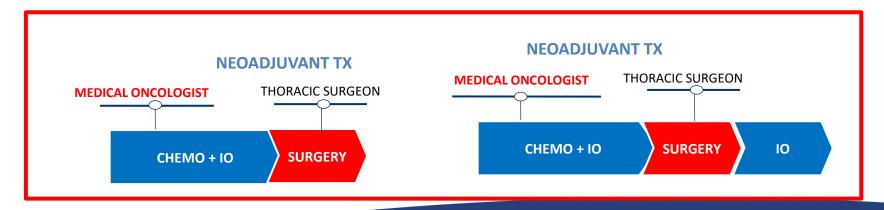




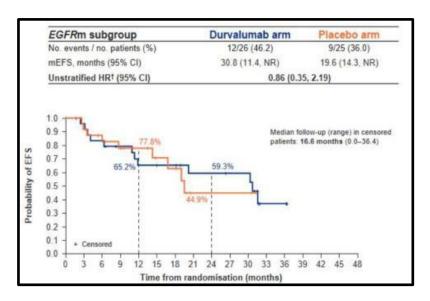
Treatment paradigm for Early-Stage NSCLC



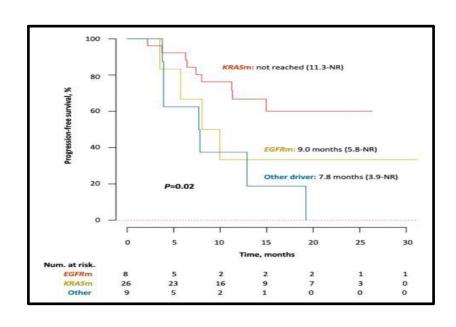




But, in patients with driver mutation always less benefit



AEGEAN, perioperative treatment



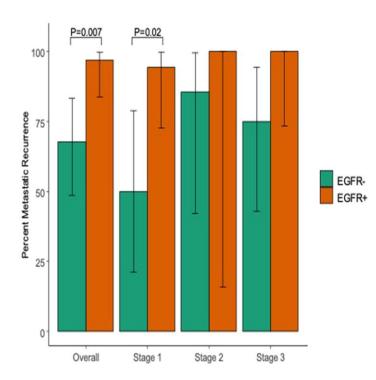
RWD, durvalumab consolidation



But we still needing a good biomarker!!!!

Why is important to search for driver mutations in early-stage NSCLC?

- Generate a different natural history and prognosis.
- ➤ Identify patients where immunotherapy may not be as effective (EGFR, ALK)
- Provide information which save time and money at disease recurrence, allowing the next treatment decision to be made earlier
- Provide information which help us to do a better follow up (risk stratification for disease relapse)
- Provide the opportunities of inclusion in many current ongoing clinical trials



Higher rates of metastatic relapse in EGFR mut vs EGFR WT.



SUMMARY OF PROSPECTIVE TRIALS IN ADJUVANT SETTING USING EGFR TKIS

Study	Phase Sample size	Stage	EGFR mutation status	AdCT/ Percentage of patients receiving adCT	Treatment regimen	Primary endpoint	DFS in EGFR mutant	OS in EGFR mutant
RADIANT	Phase III 973 161 EGFR mut	IB-IIIA	EGFR+ by IHC and/ or FISH; 161 EGFR mut	Optimal 52.9	Erlotinib vs placebo for 2y	DFS	46.4 vs 28.5 m HR 0.61	NR
SELECT	Phase 2 100	IA-IIIA	EGFR mut	As per staging NR	Erlotinib for 2 y	2y DFS	2 years DFS 88%	NR HR 0.16 P 0.0013
EVAN	Phase II 102	DFS	benefit di	d NOT co	relate with	n OS	42.4m vs 21 m HR 0.27 p<0.0001	NR
CTONG-1104 ADJUVANT	Phase III 222	II-IIIA	EGFR mut	50	Cisplatin+Vnb 4 cy vs Gefitinib 2y	DFS	28.7 vs 18m HR 0.60; p=0.0054	5y OS 53.2% vs 51.2% HR 0.92 p=0.674
EVIDENCE	Phase III 322	II-IIIA	EGFR mut	50	Platinum-dB 4 cy Vs Icotinib 2y	DFS	46.9 vs 22.1 HR 0.36 p<0.001	HR 0.91
IMPACT	Phase III 234	11-111	EGFR mut	50	Cisplatin-VNB 4cy Vs Gefitinib 2 y	DFS	36 vs 25.2m HR 0.92 p 0.63	5y OS 78% vs 74.6% HR 1.03, P 0.89











18 Dec 2020

26 Apr 2021

Dec 2022

Objectives

Updated results of the Phase 3 ADAURA trial, exploring adjuvant osimertinib therapy vs placebo. Reported here are updated exploratory analyses of DFS, recurrence patterns, and safety after 2 years added follow-up.

ADAURA study design

Key eligibility criteria

- Patients with completely* resected stage IB IIIA EGFR-mutant (exon19del/L858R†) NS-NSCLC
- With or without adjuvant chemotherapy[‡]
- WHO performance status 0/1
- 10 (adjuvant chemotherapy) and 26 (no adjuvant chemo) weeks maximum interval between surgery and randomisation

Osimertinib 80mg OD

Randomisation 1:1 (N=682)

Placebo OD

Primary endpoint: DFS by investigator assessment in stage II/IIIA patients

Secondary endpoints: DFS in overall population§, DFS at 2, 3, 4, and 5 years, OS,

safety, health-related QoL

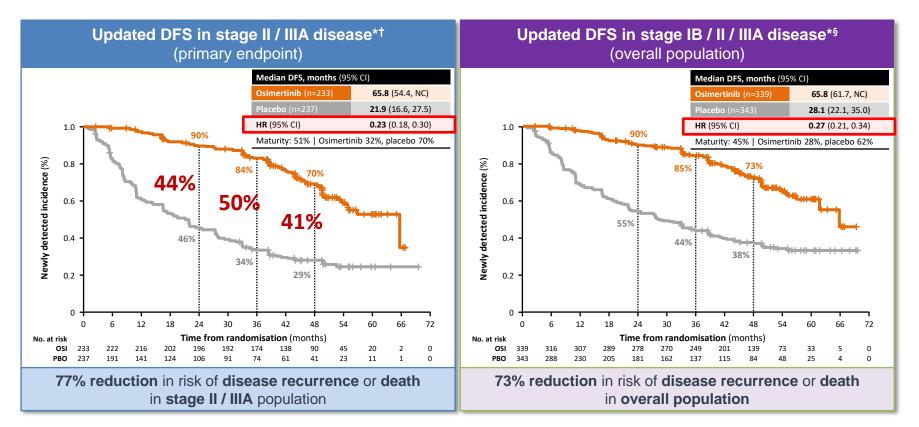
Pre-specified exploratory endpoints: Patterns of recurrence, CNS DFS

Baseline characteristics

	Osi (n=339) (%)	Placebo (n=343) (%)
Sex: male / female	32 / 68	28 / 72
Age: median (range), years	64 (30–86)	62 (31–82)
Smoking history: yes / no	32 / 68	25 / 75
Race: Asian / non-Asian	64 / 36	64 / 36
WHO PS: 0 / 1	63 / 37	64 / 36
AJCC/UICC staging at diagnosis (7 th edition): IA / IB / II / IIIA / IIIB	1/32/33/ 35/0	0/31/34/ 35/0
Histology: Adenocarcinoma/other	96 / 4	97 / 3
EGFR mutation at randomisation: exon19del / L859R	55 / 45	55 / 45
Adjuvant chemo: yes / no	60 / 40	60 / 40



Updated DFS in stage II / IIIA population and overall population

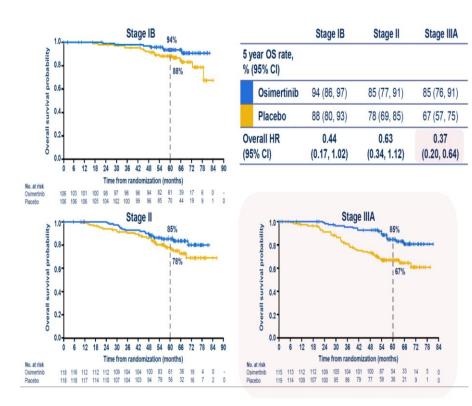


Updated OS ADAURA

Overall survival: patients with stage II / IIIA disease

 Adjuvant osimertinib demonstrated a statistically and clinically significant improvement in OS vs placebo in the primary population of stage II—IIIA disease

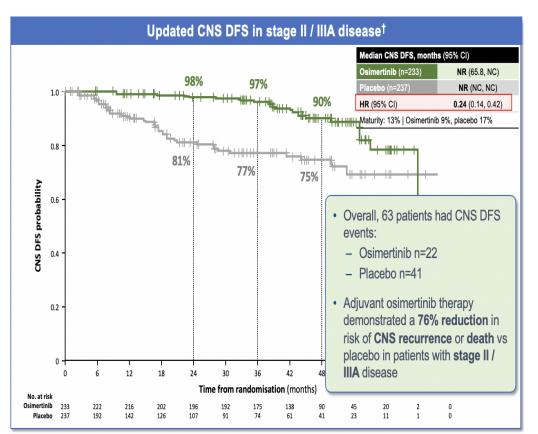


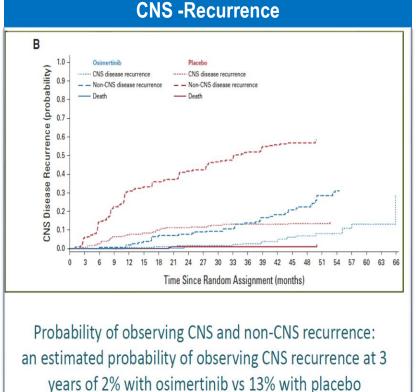


Data cut-off, January 27, 2023.

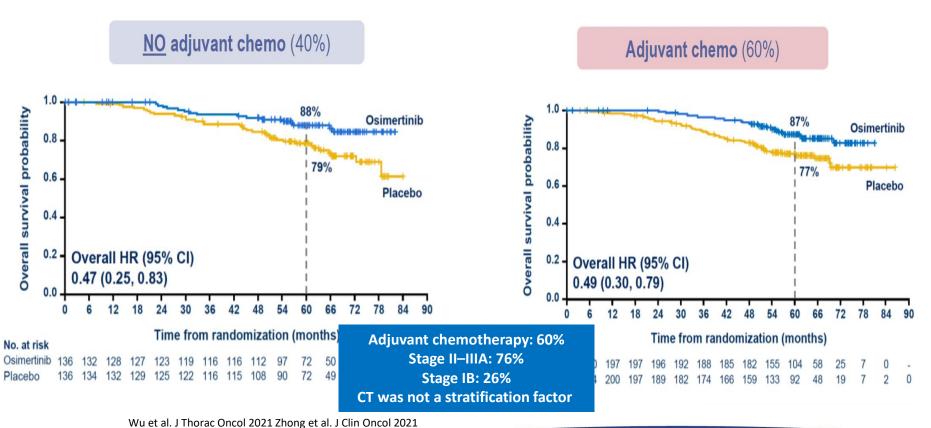


Updated CNS DFS and Toxicity



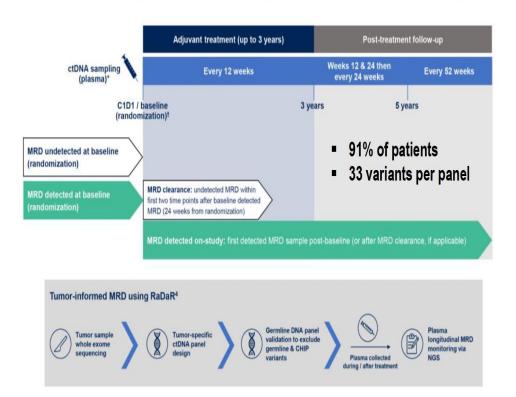


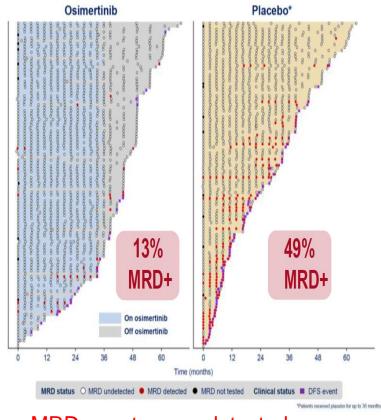
Is adjuvant CT still need in ressected EGFR mutant patients?





Exploratory endpoint – Feasibility of MRD – during/after adjuvant T

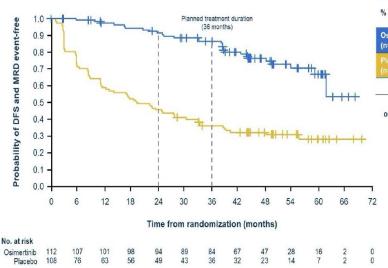




MRD events were detected more frequently with placebo vs osimertinib

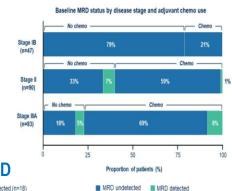
Majority of patients were MRD undetected at baseline

ADAURA: molecular residual disease (MRD)



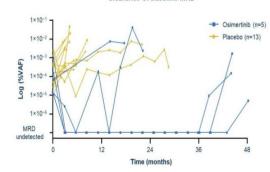






Baseline MRD status (MRD analysis set)





- Detected MRD at baseline was associated with poor outcomes
- Patients receiving osimertinib were more likely to be DFS and MRD event free vs placebo

- Of 18 patients with detected MRD at baseline
 - 4 / 5 patients receiving osimertinib cleared MRD
 - 0 / 13 patients receiving placebo cleared MRD

John T. ASCO 2024

And with the OS positive, do we need to extend treatment with Osimertinib?

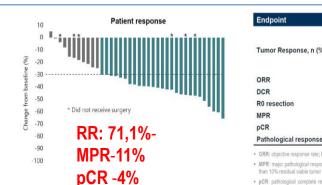
TARGET TRIAL (NCT05526755): An Open-label, Single-arm, Phase II, Multinational, Multicentre Study to Assess the Efficacy and Safety of 5 Years of Osimertinib in Participants With EGFRm-positive Stage II-IIIB NSCLC, Following Complete Tumour Resection With or Without Adjuvant Chemotherapy

- Phase 2 trial
- Stage II-IIIA-IIIB
- 40 or 80 mg daily x 5 years
- Primary endpoint: DFS



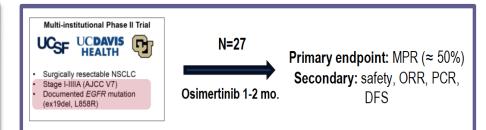
NEOADJUVANT Therapy in EGFRm NSCLC: Osimertinib

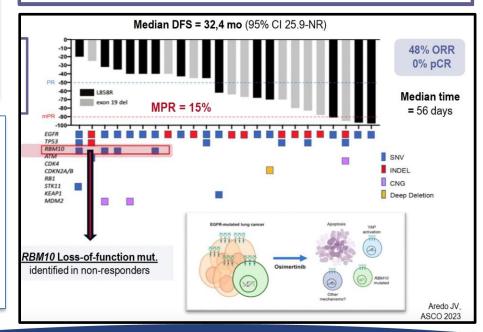
Study design NEOS (ChiCTR1800016948): Phase II, multicenter study of neoadjuvant osimertinib in EGFRm resected NSCLC Key inclusion criteria · Resectable lung carcinoma Osimertinib 80mg PO QD Surgical · Stage II-IIIB N2 (AJCC v8) (6 weeks) Resection EGFRm NSCLC (Ex19del/L858R) ECOG PS 0-1 **Endpoints** Primary: Objective response rate (ORR) assessed by investigator per RECIST v1.1. Secondary: Safety, R0 resection rate, major pathologic response (MPR) rate, pathological complete response (pCR) rate, N2 downstaging rate, quality of life.



Endpoint		N=38
	CR	0 (0%)
Tumor Response, n (%)	PR	27 (71%)
	SD	11 (29%)
	PD	0 (0%)
ORR		71% (27/38)
DCR		100% (38/38)
R0 resection		94% (30/32)
MPR		11% (3/28)
pCR		4% (1/28)
Pathological response ≥50%		46% (13/28)

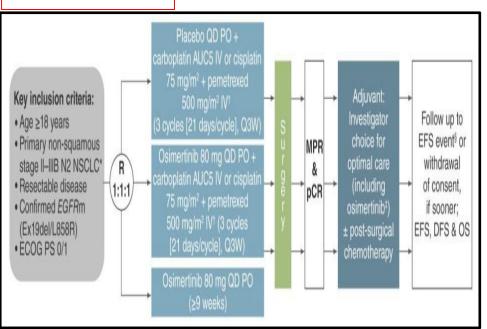
- . MPR: major pathological response rate, defined as the proportion of patients with no more than 10% residual viable tumor cells.
- . pCR: pathological complete response rate, defined as the proportion of patients without



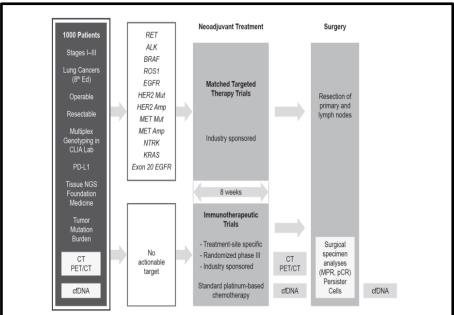


ONGOING STUDIES FOR EGFRM IN THE NEOADJUVANT SETTING

NEOADAURA



LCMC Leader study, neoadjuvant

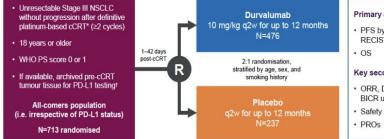


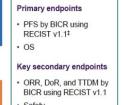
Primary endpoint: MPR

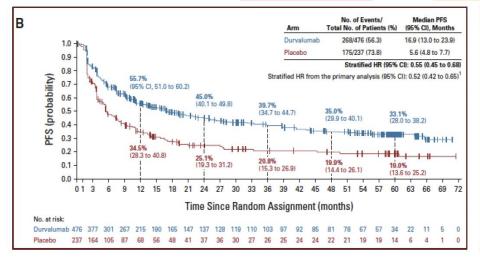
Secondary endpoints: EFS, pCR, nodal downstaging, DFS, OS

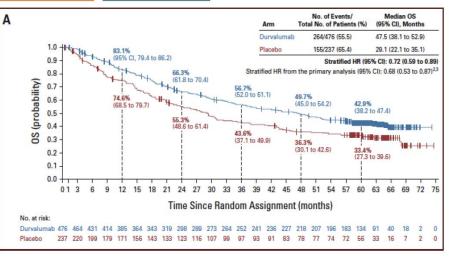
UNRESECTABLE NSCLC

PACIFIC



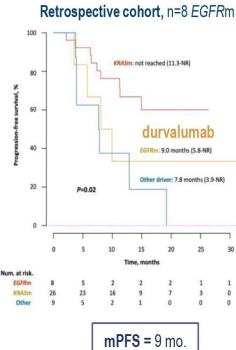






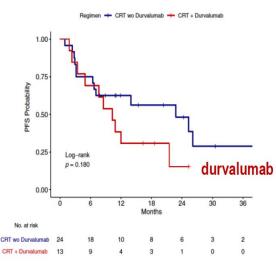


CONSOLIDATION: NO benefit of durvalumab, with high frequency of irAEs in *EGFR*m population



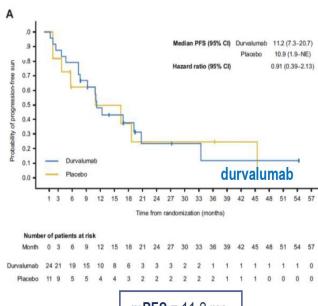


Retrospective cohort, n=37 EGFRm



mPFS = 10.3 mo.

PACIFIC Post Hoc analysis, n=35 EGFRm



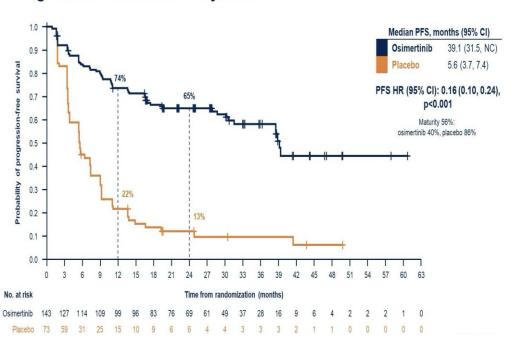
mPFS = 11.2 mo.

LAURA Phase 3 double-blind study design Osimertinib 80 mg, Patients with locally advanced, once daily unresectable stage III* EGFRm NSCLC Treatment duration until BICR-assessed progression with no progression during / following (per RECIST v1.1), toxicity, or other discontinuation Randomization definitive CRT† treatment 2:1 (N=216)Open-label osimertinib after BICR-confirmed Key inclusion criteria: progression offered to both treatment arms§ ≥18 years (Japan: ≥20) Stratification by: WHO PS 0 / 1 Concurrent vs sequential CRT · Confirmed locally advanced, Stage IIIA vs stage IIIB/IIIC unresectable stage III* NSCLC Tumor assessments: China vs non-China Ex19del / L858R‡ · Chest CT / MRI and brain MRI · Maximum interval between last dose of Placebo. · At baseline, every 8 weeks to Week 48, then every CRT and randomization: 6 weeks once daily 12 weeks until BICR-assessed progression **Endpoints** Primary endpoint: PFS assessed by BICR per RECIST v1.1 (sensitivity analysis: PFS by investigator assessment)

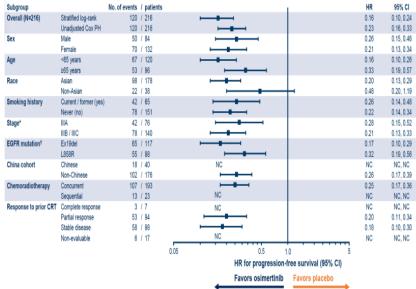
Characteristics, %	Osimertinib (n=143)	Placebo (n=73)
Sex: male / female	37 / 63	42 / 58
Age: median (range), years	62 (36–84)	64 (37–83)
Smoking history: formerly / currently / never	26 / 3 / 71	32 / 1 / 67
Race: Asian / non-Asian	81 / 19	85 / 15
WHO PS: 0 / 1	56 / 44	42 / 58
AJCC / UICC staging (8th edition) at diagnosis: IIIA / IIIB / IIIC	36 / 47 / 17	33 / 52 / 15
Histology: adenocarcinoma / other	97 / 3	95 / 5
EGFR mutation at randomization:* Ex19del / L858R	52 / 48 [†]	59 / 41
Type of CRT: concurrent CRT / sequential CRT	92 / 8	85 / 15
Response to prior CRT: CR / PR / SD / PD / NE	3 / 47 / 43 / 0 / 8	4/37/51/0/8
Target lesion size by BICR:‡ mean (SD), mm	33 (18)	36 (17)

Secondary endpoints included: OS, CNS PFS, safety

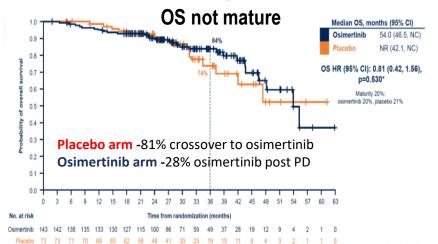
Progression-free survival by BICR



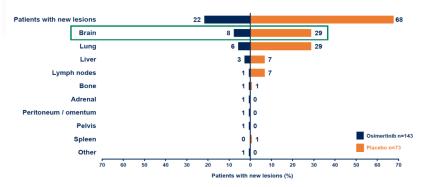
Progression-free survival by BICR across subgroups



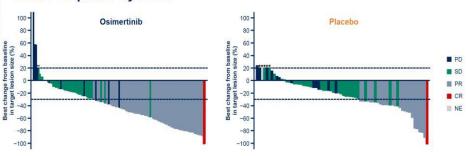
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Sites of new lesions by BICR



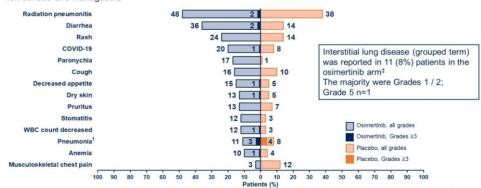
Tumor response by BICR



	Osimertinib (n=143)	Placebo (n=73)
Objective response rate, % (95% CI)	57 (49, 66)	33 (22, 45)
Disease control rate, % (95% CI)	89 (83, 94)	79 (68, 88)
Median duration of response, months (95% CI)	36.9 (30.1, NC)	6.5 (3.6, 8.3)

All-causality adverse events (≥10%)*

The most common AE in both arms was radiation pneumonitis; the majority were low grade (no Grade 4 / 5), non-serious and manageable



Take Home Message

- Search always for driver mutations in early-stage NSCLC, mainly EGFR and ALK, prior to treatment.
- Osimertinib is the SoC after surgery in S-Ib-IIIA EGFRm (Adaura DFS and OS)
- For unresectable case, CRT followed by osimertinib is the SoC (Laura-DFS)
- Neoadjuvant TKI in clinical trial.
- We still needing better clinical trial base in biomarkers

