

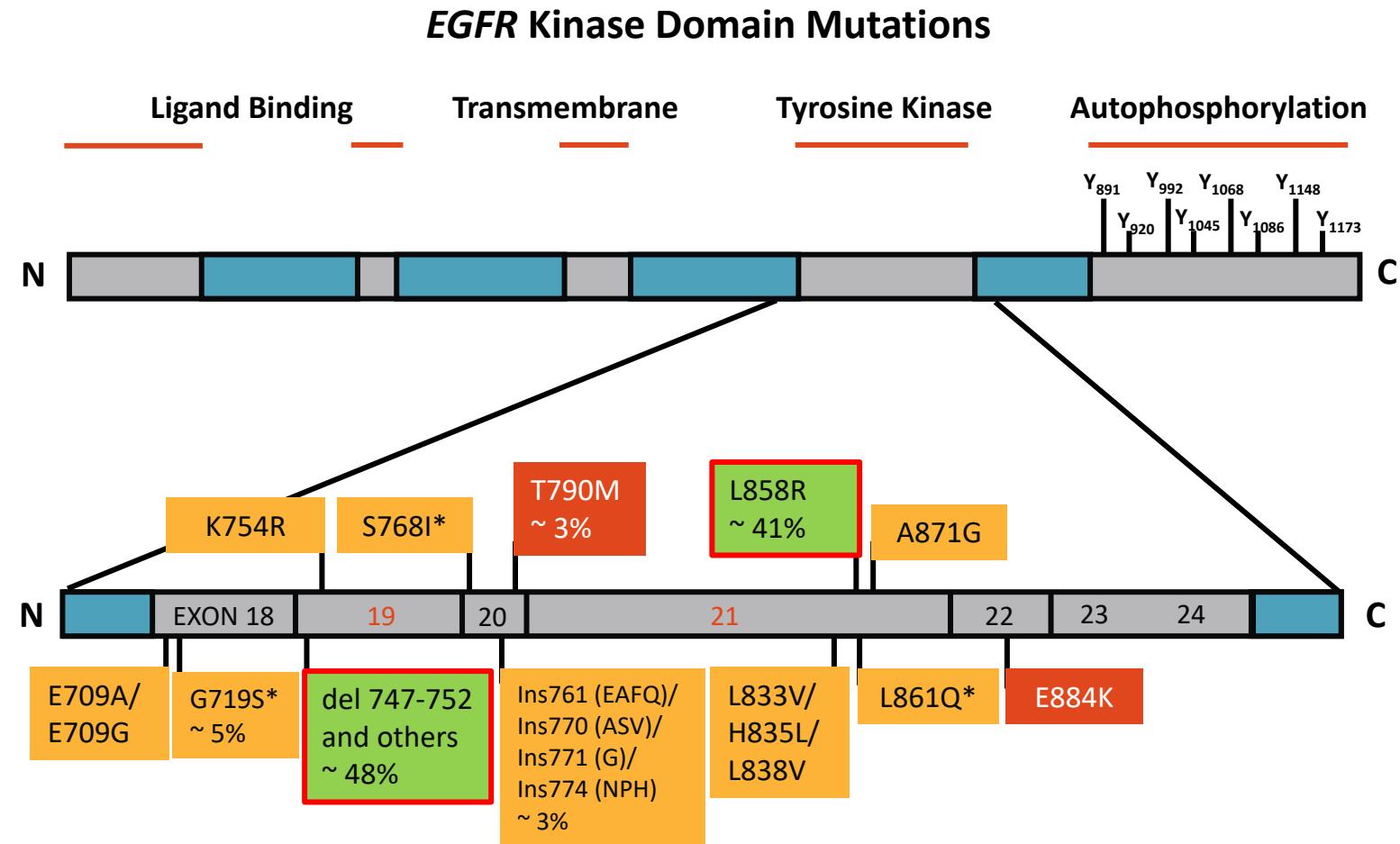


**HERE FOR A GOOD TIME, NOT A  
LONG TIME, RIGHT?**

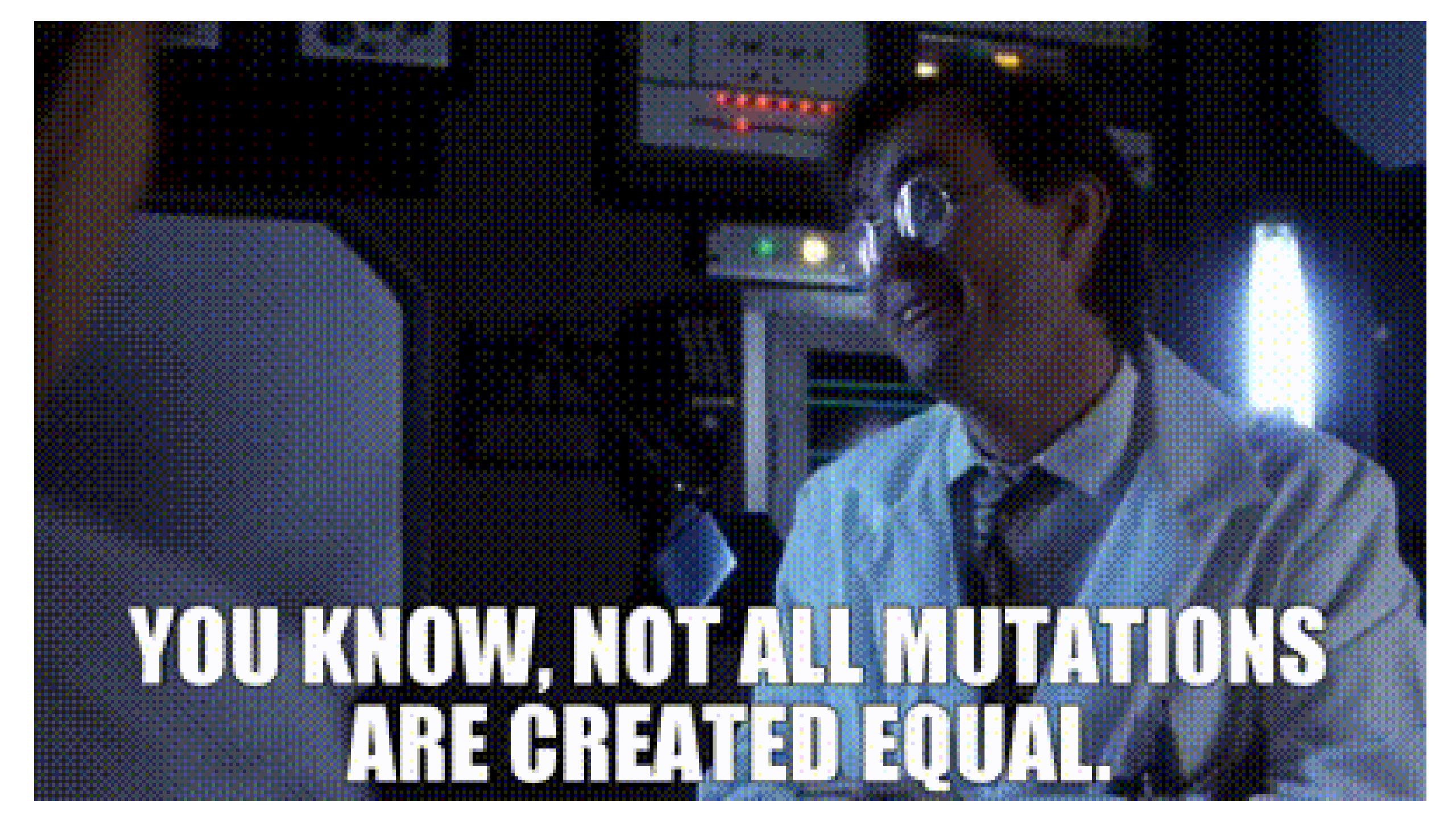
Krupa Shankar S  
Consultant Medical Oncologist  
NSR CanKure Center  
Coimbatore

# EGFR Mutational Epidemiology

- ~ 20% to 30% - NSCLC globally
- More common in never-smokers
- Adenocarcinomas, females, Asians
- Predominantly in *EGFR* exons 18-21
- Specific mutation is important:
- Sensitive mutations
- Primary resistance mutations
- De novo/acquired resistance mutations



\*Noncanonical *EGFR* mutations.

A man in a white lab coat and glasses is working in a dimly lit laboratory. He is focused on a task, possibly a computer screen or a piece of equipment, which is partially visible in the foreground. The background is filled with various pieces of scientific equipment, including a large machine with a digital display showing red numbers and several blue cylindrical containers or sensors mounted on a wall. The overall atmosphere is one of a high-tech, scientific environment.

YOU KNOW, NOT ALL MUTATIONS  
ARE CREATED EQUAL.

# EGFR TKIs: Properties

Parameter	Erlotinib	Gefitinib	Afatinib	Dacomitinib	Osimertinib
Generation	First	First	Second	Second	Third
EGFR mutations approved for in first-line setting	Ex19del, Ex21 L858R	Ex19del, Ex21 L858R	Ex18 G719X,* Ex19del, Ex20 S768I,* Ex21 L858R, Ex21 L861Q*	Ex19del, Ex21 L858R	Ex19del, Ex21 L858R <sup>†</sup>
EGFR binding	Reversible	Reversible	Irreversible	Irreversible	Irreversible
Half life, hr	36	48	37	59-85	48
Food effect (take on empty stomach)	Increase F from ~60% to ~100%	No change	Decrease AUC by 39%	No change	No change
CNS penetration, AUC ratio	0.03X CSF/plasma	0.01X CSF/serum	0.02X CSF/plasma	CNS activity reported	2X brain/plasma

\*Uncommon nonresistant EGFR mutations. <sup>†</sup>Also approved for resistant mutation T790M in second-line setting and a preferred option for EGFR G719X, S768I, L861Q per NCCN guidelines.

Afatinib PI. Dacomitinib PI. Erlotinib PI. Gefitinib PI. Osimertinib PI. Boehringer. Cell Cycle. 2011;10:3168. Togashi. Cancer Chemother Pharmacol. 2012;70:399. Tamiya. ESMO 2016. Abstr 1241P. Engelman. Cancer Res. 2007;67:11924. Gonzalez. Mol Cancer Ther. 2008;7:1880. Jänne. Clin Cancer Res. 2011;17:1131. Ou. Drugs Des Devel Ther. 2015;9:5641. Hochmair. Target Oncol. 2018;13:269. Mizusaki. Thorac Cancer. 2021;12:114. Kudo. Intern Med. 2020;59:1739. NCCN. Clinical practice guidelines in oncology: NSCLC. v.3.2022

# NEJ026, Take Home Points

- **Addition of bevacizumab to erlotinib improved PFS1**
  - But NOT PFS2 or OS
  - 29% receiving bevacizumab discontinued due to toxicity\*
- **How does this compare with 1<sup>st</sup> line later-gen TKIs or TKI + chemo?**
  - OS in BOTH arms outperformed FLAURA and ARCHER  
*<Likely due to impact of next-line therapy>*
  - OS appears similar to NEJ009 (also with 50% increase in toxicity over TKI alone)
  - Not clear if this will be better than TKI + chemo
- **No significant difference between different EGFR mutations**
- **Similar number in each arm received 2<sup>nd</sup> line osimertinib**
  - 25% is LOW compared with expected T790M rates
- **Issues: Cost, added toxicity, QOL adding IV to oral**
  - Do not support the combination outside of clinical trial

\*Saito, Lancet Oncol 2019

# Available Data on EGFR-VEGF Combination Therapy in *EGFR*+ Advanced NSCLC

Study	Phase	N	Intervention	ORR, %	Median PFS, Mo	Median OS, Mo
BELIEF <sup>1,2</sup>	II	109	Erlotinib + bevacizumab	77	13.2	28.2
ACCRU <sup>1,3</sup>	II	88	Erlotinib + bevacizumab vs erlotinib	81 vs 83	17.9 vs 13.5 (HR: 0.81)	32.4 vs 50.6 (HR: 1.41; <i>P</i> = .33)
J025567 <sup>1,4,5</sup>	II	154	Erlotinib + bevacizumab vs erlotinib	69 vs 64	16.0 vs 9.7 (HR: 0.54)	47.0 vs 47.4 (HR: 0.81; <i>P</i> = .33)
NEJ026 <sup>1,6,7</sup>	III	228	Erlotinib + bevacizumab vs erlotinib	72 vs 66	16.9 vs 13.3 (HR: 0.63)	50.7 vs 46.2 (HR: 1.00; <i>P</i> = .97)
ARTemis (CTONG 1509) <sup>1,8</sup>	III	311	Erlotinib + bevacizumab vs erlotinib	86 vs 85	18.0 vs 11.3 (HR: 0.55)	Not reached
RELAY <sup>1,9</sup>	III	449	Erlotinib + ramucirumab vs erlotinib + placebo	76 vs 75	19.4 vs 12.4 (HR: 0.59)	Not reached
MSKCC <sup>1,10</sup>	I/II	49	Osimertinib + bevacizumab	80	19	Not reached

1. Le. J Thorac Oncol. 2021;16:205. 2. Rosell. Lancet Respir Med. 2017;5:435. 3. Stinchcombe. JAMA Oncol. 2019;5:1448. 4. Seto. Lancet Oncol. 2014;15:1236

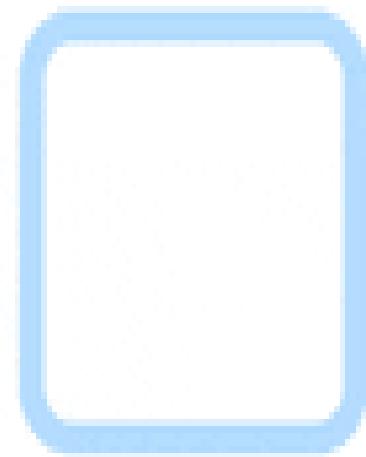
5. Yamamoto. Lung Cancer. 2021;151:20. 6. Saito. Lancet Oncol. 2019;20:625. 7. Maemondo. ASCO 2022. Abstr 9506. 8. Zhou. ESMO 2019. Abstr 14800

9. Nakagawa. Lancet Oncol. 2019;20:1655. 10. Yu. JAMA Oncol. 2020;6:1048

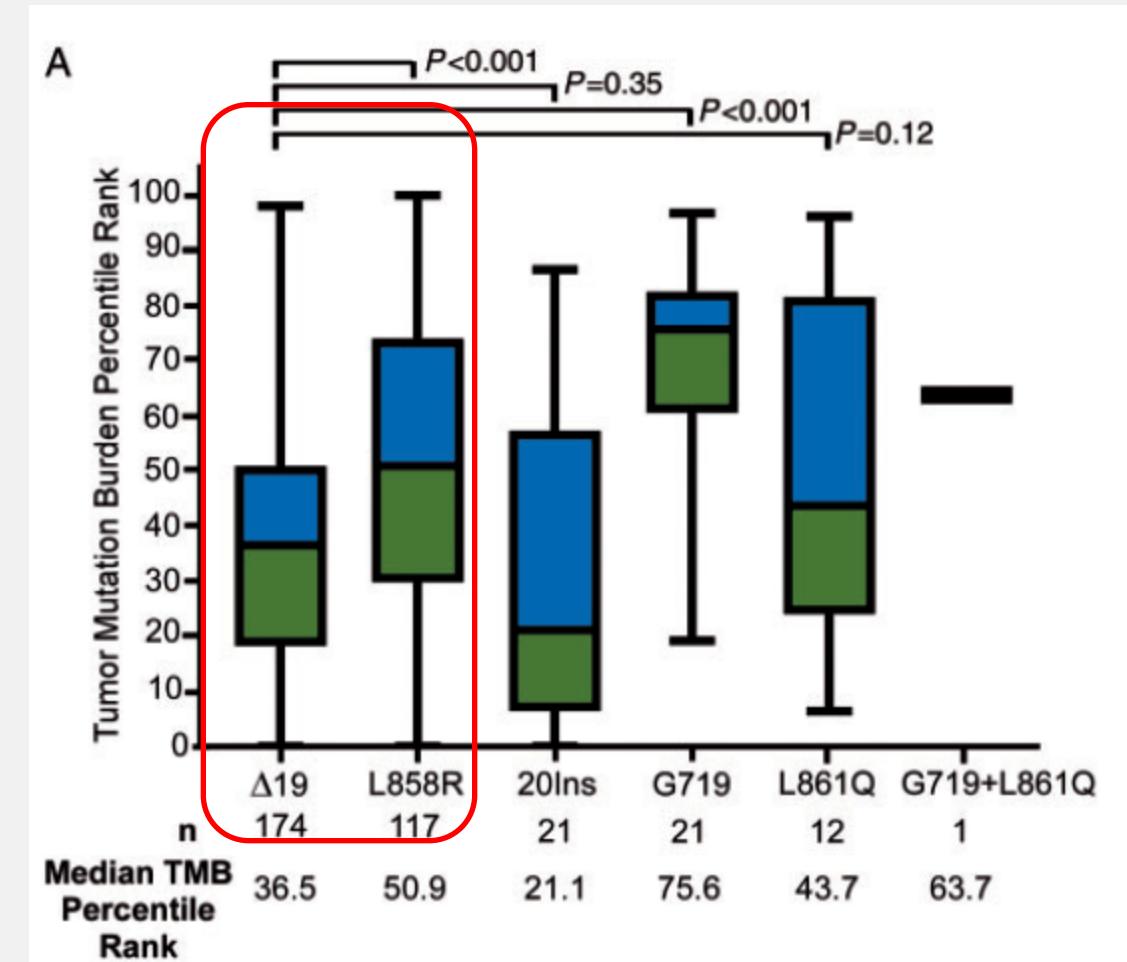
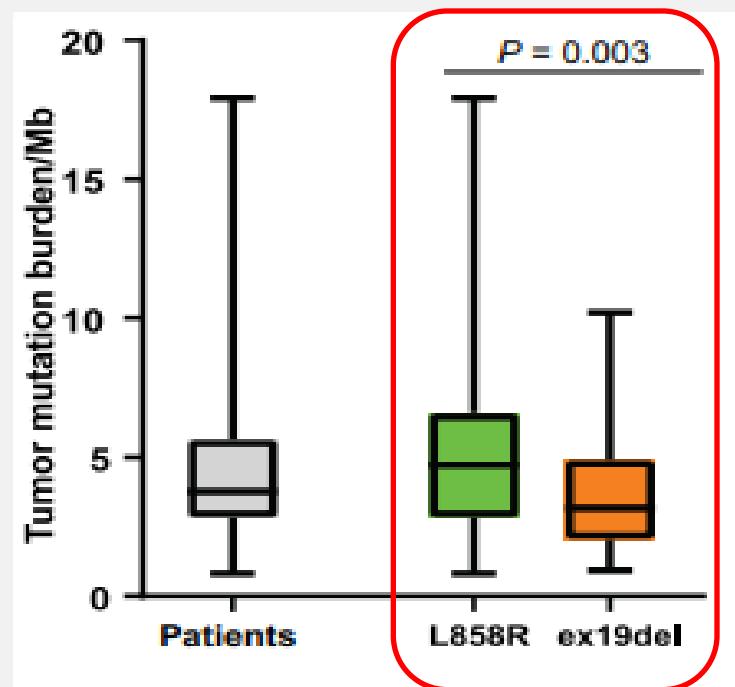


# Hypothesis

confirmed



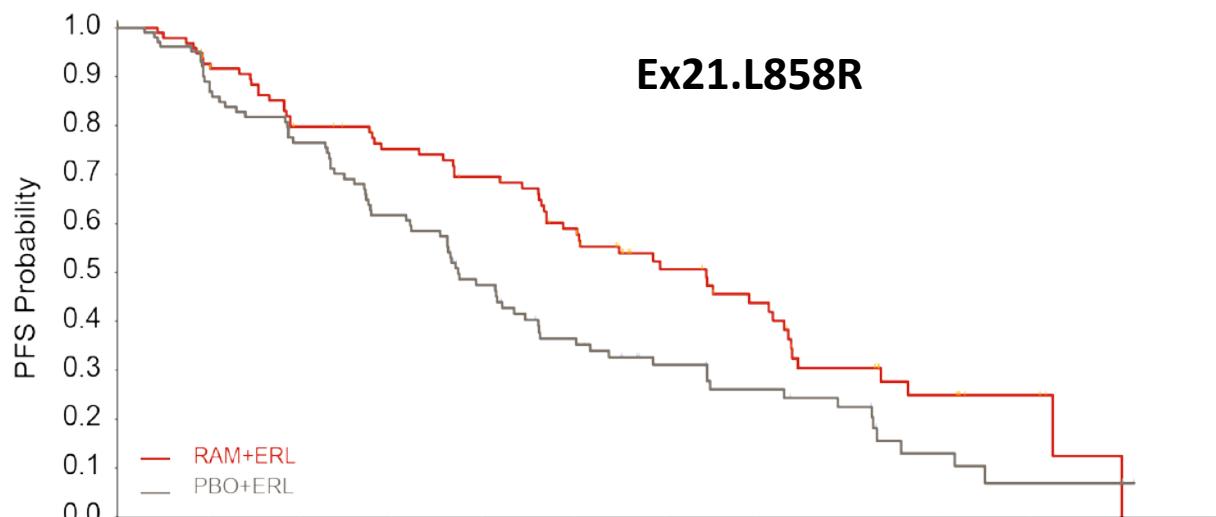
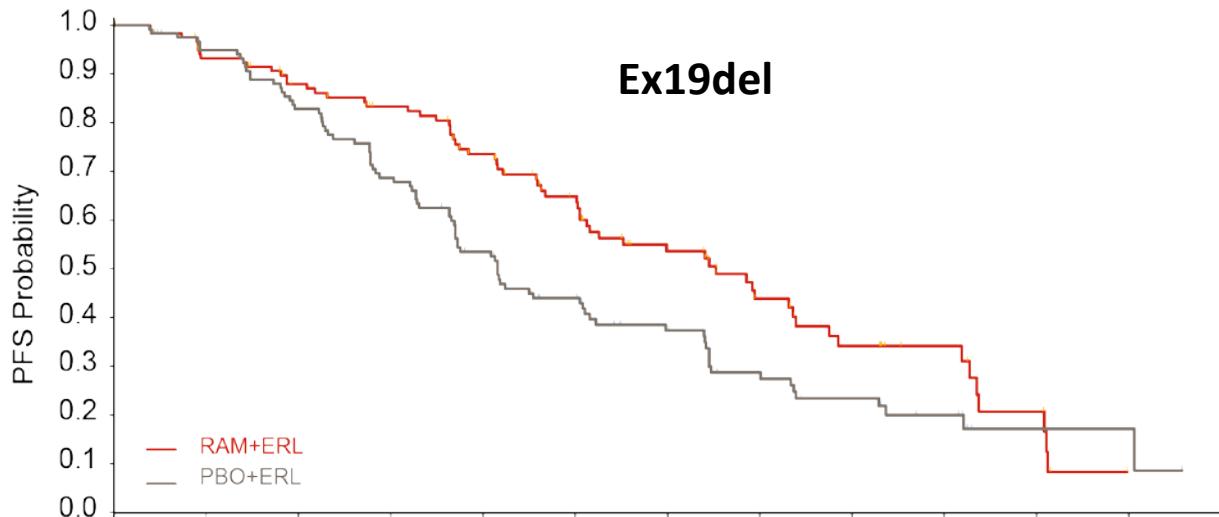
# TMB was Higher in L858R Tumors Compared with Del19 Tumors



A close-up portrait of a woman wearing a traditional nun's habit, consisting of a white wimple and a dark veil. She has short, light-colored hair visible at the edges of her habit. Her gaze is directed straight at the viewer with a neutral, slightly somber expression. The lighting is soft, highlighting her face against a dark, indistinct background.

You may have no choice.

# RELAY: PFS by EGFR mutation type



**Consistent mPFS Benefit in pre specified subgroups of both Exon 19 deletion & Exon 21 substitution mutations**

123	108	96	87	72	54	38	25	17	11	6	0	0
120	110	94	78	58	43	32	22	15	10	2	0	0

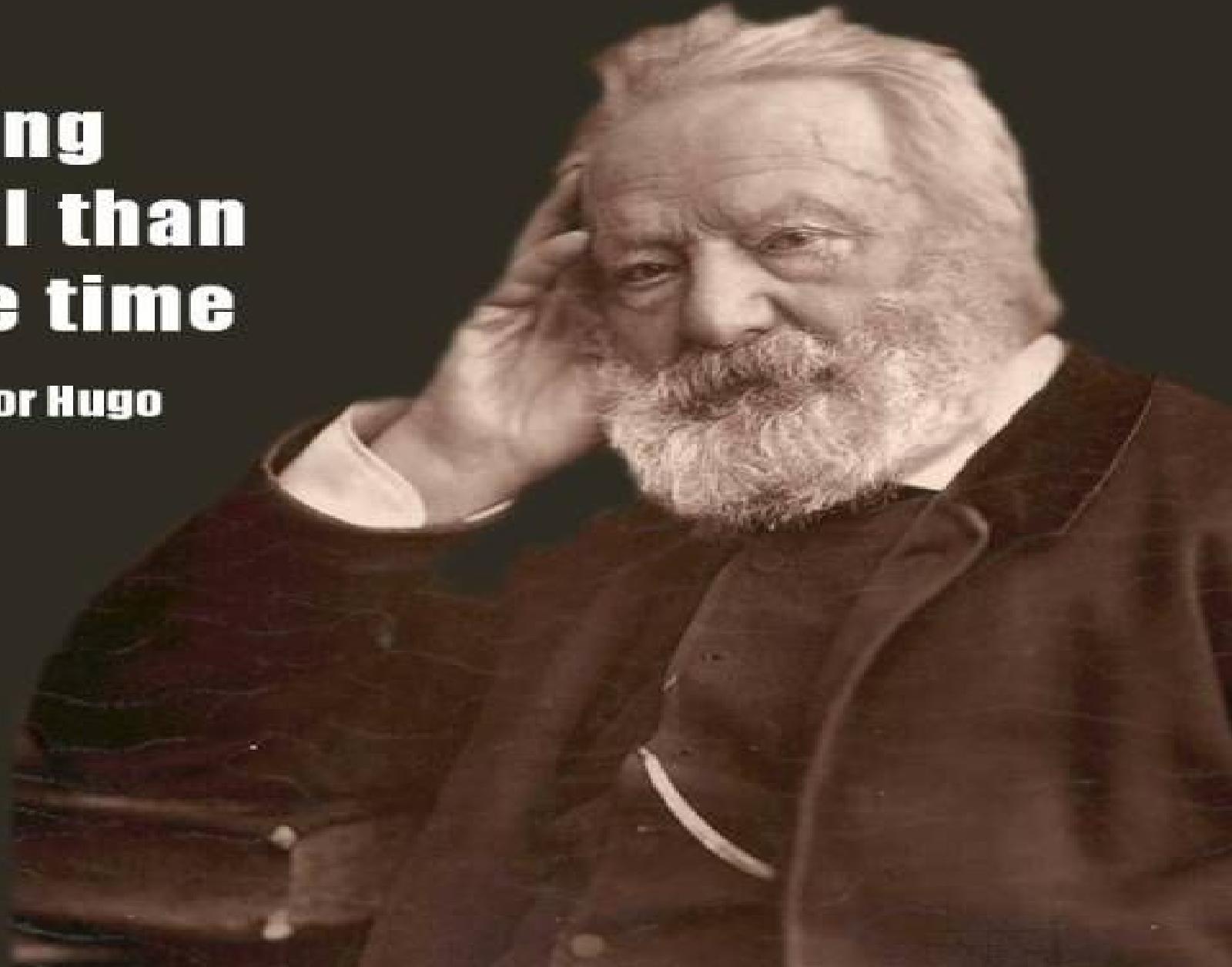
99	87	73	66	60	49	31	24	15	12	9	4	1	0
105	86	73	58	41	29	20	15	12	5	2	1	0	0

Ex19del	RAM + ERL (n = 123)		PBO + ERL (n = 120)	
	Events	64	Events	84
Median, mo	<b>19.6</b>		<b>12.5</b>	
(95% CI)	(15.1, 22.2)		(11.1, 15.3)	
HR (95% CI); p-value	<b>0.651 (0.469, 0.903); 0.0098</b>			

Ex21.L858R	RAM + ERL (n = 99)		PBO + ERL (n = 105)	
	Events	58	Events	74
Median, mo	<b>19.4</b>		<b>11.2</b>	
(95% CI)	(14.1, 21.9)		(9.6, 13.8)	
HR (95% CI); p-value	<b>0.618 (0.437, 0.874); 0.006</b>			

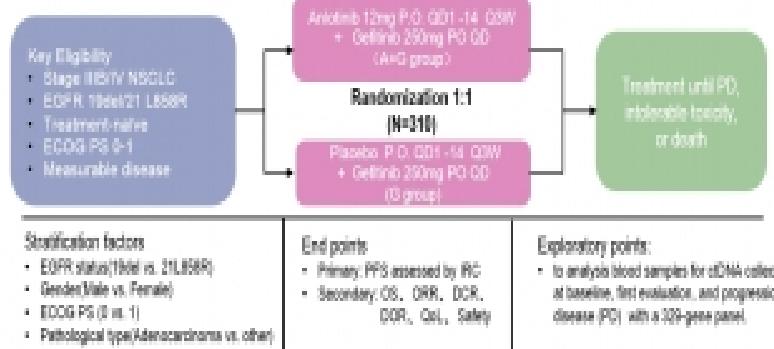
**“ There is nothing  
more powerful than  
an idea whose time  
has come.”**

**Victor Hugo**



## Study design

Phase III, randomized, Double-Blind, multicenter study in 1L EGFR+ advanced or metastatic NSCLC (NCT04025178)



Cut-off date: July 31, 2022.

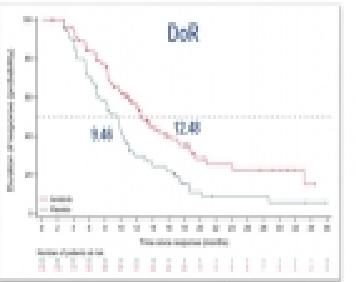
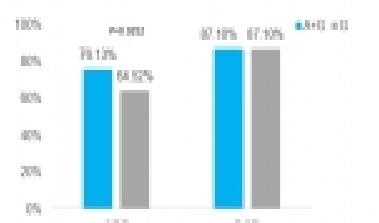


Working Party

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## Secondary endpoints: ORR, DCR and DoR

### Confirmed best objective response



# Is TKI/VEGF Better Than TKI/Chemo?

	NEJ026 (Erlot/Bev)	RELAY <sup>2</sup> (Erlot/Ram)		Tata Memorial <sup>3</sup> (Carbo/ Pemetrexed/ Gefit)	NEJ009 <sup>4</sup> (Carbo/ Pemetrexed/ Gefit)
OS	50.7 mo v 46.2 mo	Pending		NR v 17 mo 38.8 mo	50.9 mo v 38.8 mo
HR OS	1.0	Interim 0.8 (NS)		0.45	0.72
PFS	16.9 mo v 13.3 mo <sup>1</sup>	19.4 mo v 12.4 mo		16 mo v 8 mo mo	20.9 mo v 11.9
HR PFS	0.60	0.59		HR PFS	0.51
					0.49

<sup>1</sup>Saito, Lancet Oncol 2019; <sup>2</sup>Nakagawa Lancet Oncol 2019; <sup>3</sup>Noronha, J Clin Oncol 2019;

<sup>4</sup>Hosomi, J Clin Oncol 2020

**ONE SIZE DOES NOT FIT ALL.  
KEEP TRYING...**

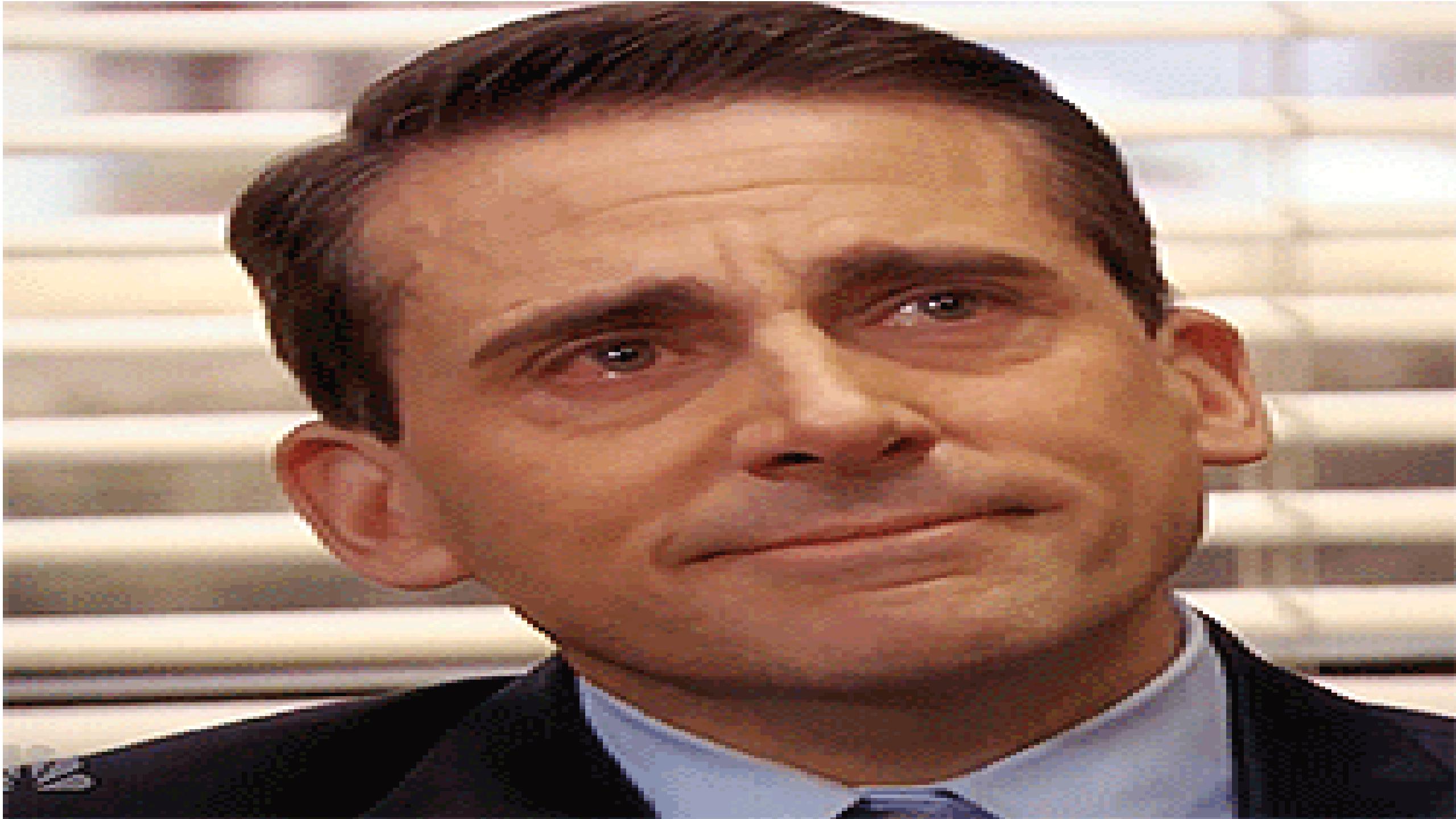


***AND EVENTUALLY YOU WILL FIND THE  
PERFECT FIT.***

# Select Ongoing Studies of 3<sup>rd</sup> Gen EGFR TKI Combination Therapy

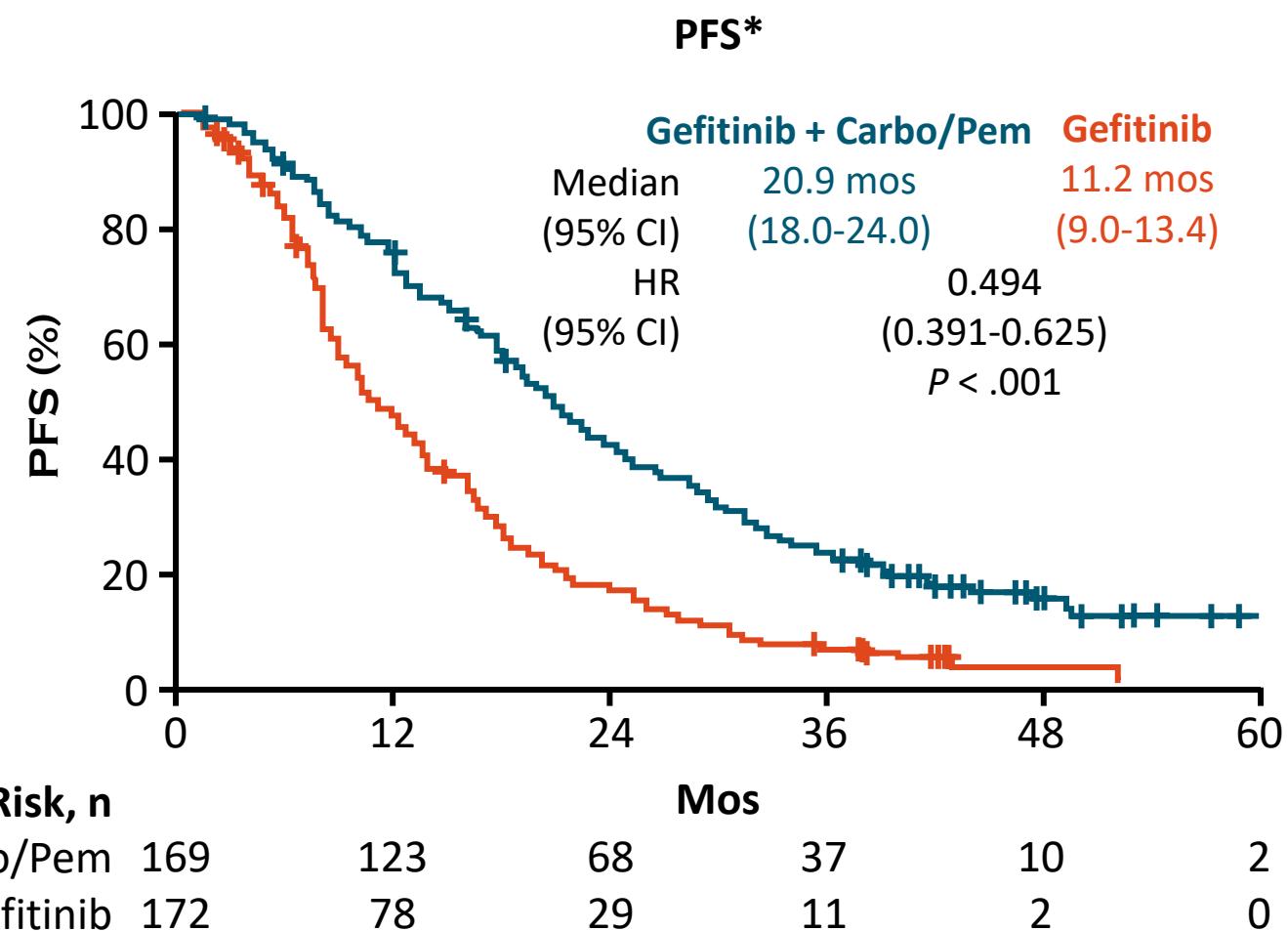
Trial	Phase	Planned N	Study Population	Treatment Arms	Primary Endpoint
WJOG9717L (UMIN000030206)	II	120	<i>EGFR</i> + NSCLC without brain metastases	Osimertinib ± bevacizumab	PFS
NCT04181060	III	300	Metastatic <i>EGFR</i> + NSCLC	Osimertinib ± bevacizumab	PFS
JapicCTI-184146	II	120	<i>EGFR</i> + NSCLC	Osimertinib ± ramucirumab	PFS
RAMOSE/HCRN LUN18-335 (NCT03909334)	II	150	<i>EGFR</i> + locally advanced or metastatic NSCLC	Osimertinib ± ramucirumab	PFS
NORTHSTAR (NCT03410043)	II	143	Stage IIIB or IV <i>EGFR</i> + NSCLC <sup>†</sup>	Osimertinib + radiation + surgery	PFS
FLAURA2 (NCT04035486)	III	587*	<i>EGFR</i> + NSCLC	Osimertinib ± platinum/pemetrexed	PFS
NCT03567642	I	20	<i>EGFR</i> + metastatic NSCLC with concurrent <i>RB1</i> and <i>TP53</i> alterations	Osimertinib + platinum/etoposide	MTD
MARIPOSA (NCT04487080)	III	1000	<i>EGFR</i> + locally advanced or metastatic NSCLC	Amivantamab + lazertinib vs osimertinib vs lazertinib	PFS

\*Actual N; study active, no longer recruiting. <sup>†</sup>Patients allowed to have *EGFR* T790M+ disease following PD on early-generation EGFR TKI

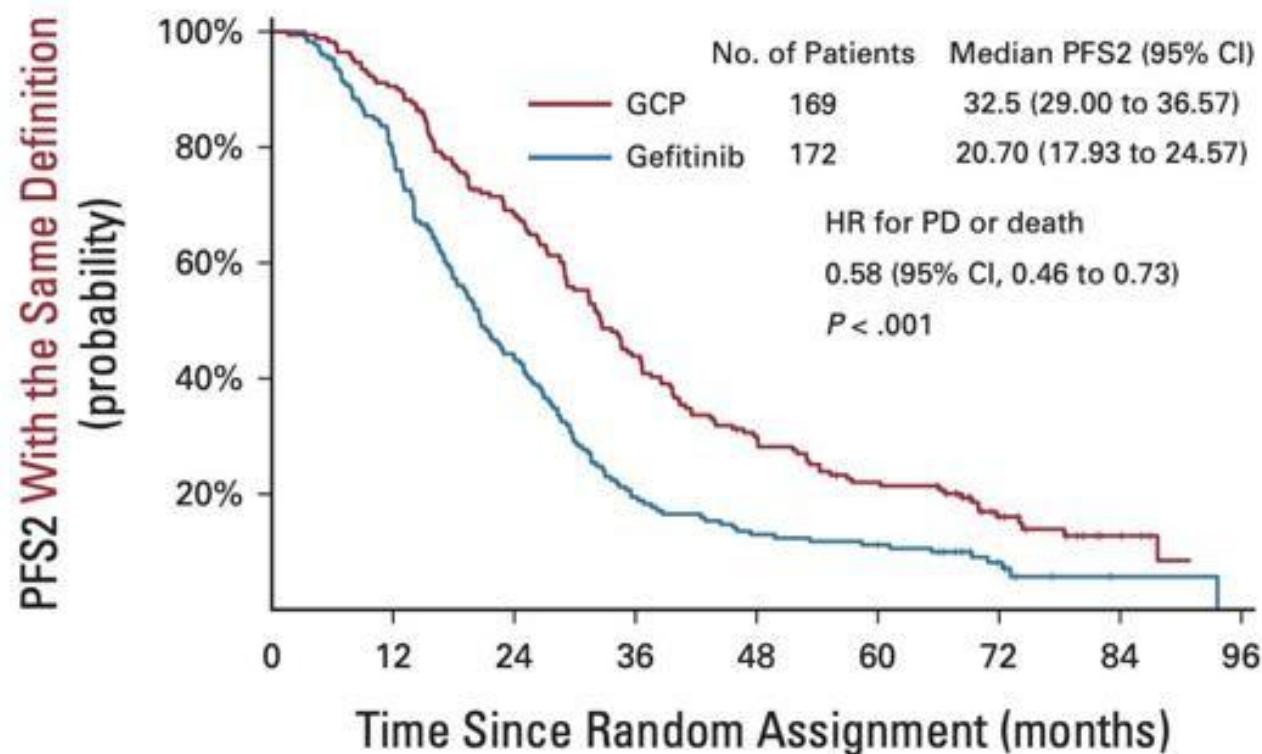
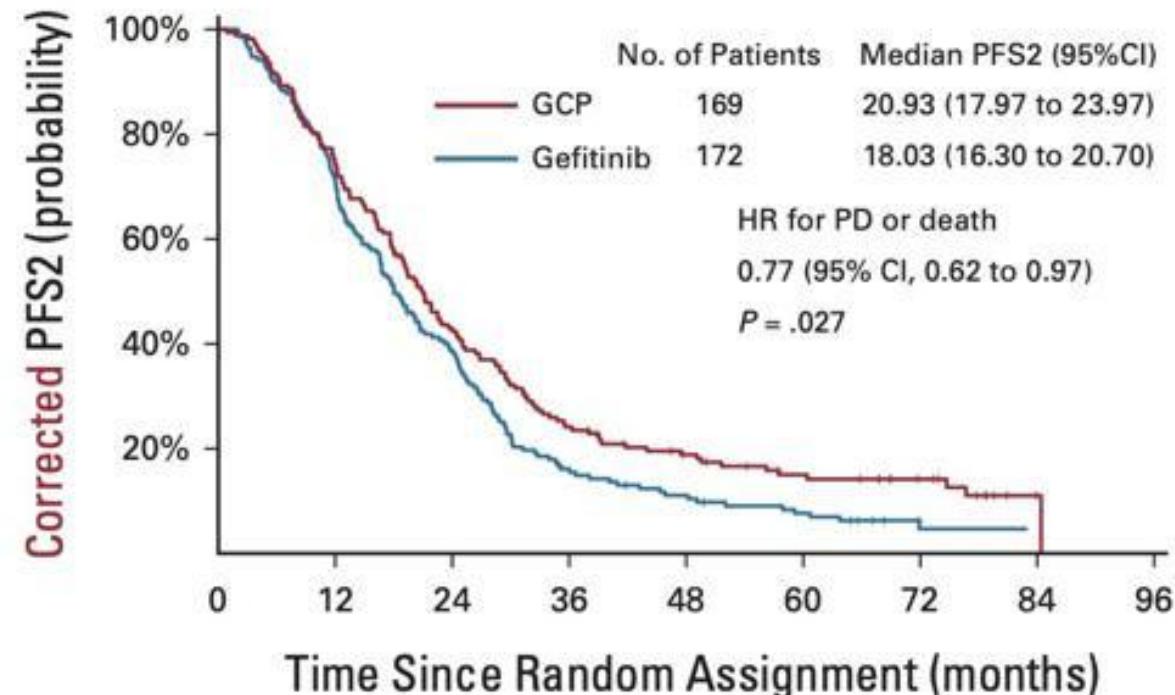


# NEJ009: Response & PFS

Response, %	Gefitinib + Carbo/Pem	Gefitinib
ORR	84.0	67.4
CR	4.7	3.5
PR	79.3	64.0
SD	13.6	25.0
PD	1.2	4.7



\*PFS data is PFS1, which for gefitinib arm is prior to any subsequent platinum CT post progression on gefitinib



A black and white photograph of a man wearing a flight helmet and goggles, looking out from what appears to be a cockpit window. He has a serious expression. The word "SURVIVAL" is overlaid in large, bold, white letters across the center of the image.

**SURVIVAL**

**TABLE A1.** Subsequent Therapy After Protocol Treatment and Tumor Response

Chemotherapy Regimen	Second-Line Therapy		Third-Line Therapy	
	Gefitinib (n = 172), No. (%)	GCP (n = 170), No. (%)	Gefitinib (n = 172), No. (%)	GCP (n = 170), No. (%)
Any treatment	153 (89.0)	125 (73.5)	114 (66.3)	88 (51.8)
Platinum-based with or without bevacizumab	102 (59.3)	16 (9.4)	18 (10.5)	6 (3.5)
Pemetrexed	0 (0.0)	0 (0.6)	6 (3.5)	2 (1.2)
Docetaxel with or without ramucirumab	4 (2.3)	37 (21.8)	26 (15.1)	13 (7.6)
Tegafur, gimeracil, and oteracil	0 (0.0)	1 (0.6)	4 (2.3)	4 (2.4)
Osimertinib	10 (5.8)	11 (6.5)	6 (3.5)	9 (5.3)
Gefitinib or erlotinib	22 (12.8)	29 (17.1)	20 (11.6)	21 (12.4)
Afatinib	3 (1.7)	15 (8.8)	15 (8.7)	19 (11.2)
Immune checkpoint inhibitors	0 (0.0)	3 (1.8)	6 (3.5)	8 (4.7)
Others	12 (7.0)	13 (7.6)	13 (7.6)	6 (3.5)
Response rate (95% CI)	34.0 (26.5 to 41.5)	20.8 (13.7 to 27.9)	16.7 (9.8 to 23.5)	19.3 (11.1 to 27.6)
Disease control rate (95% CI)	72.5 (65.5 to 79.6)	66.4 (58.1 to 74.7)	64.0 (55.2 to 72.8)	58.0 (47.6 to 68.3)

Abbreviation: GCP, gefitinib and carboplatin plus pemetrexed.



# Critique of our trial

- Negatives:

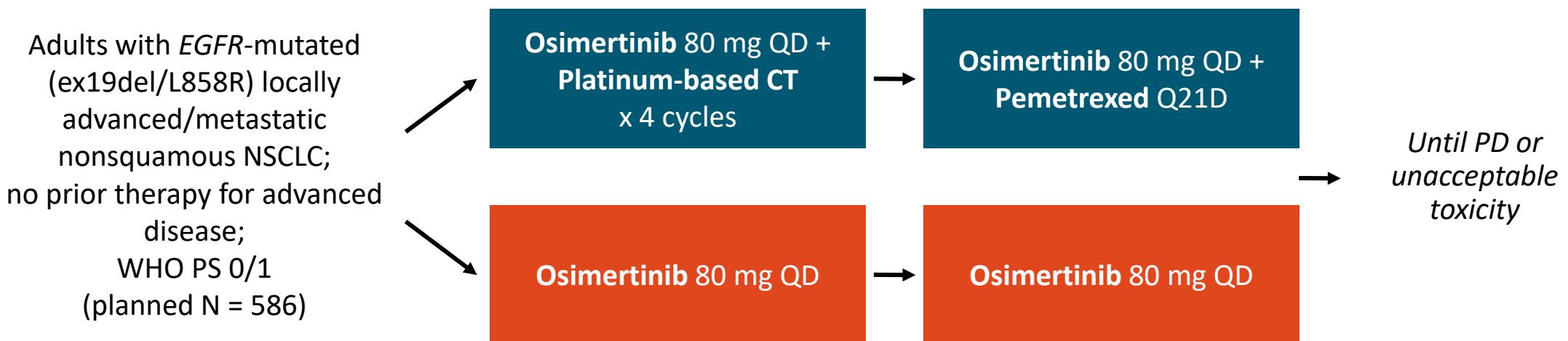
- Single institution
- Open label design
- Demographic pattern may vary from other countries (84% non-smokers)
- No centralized independent radiology review
- QOL data not analyzed yet

- Positives:

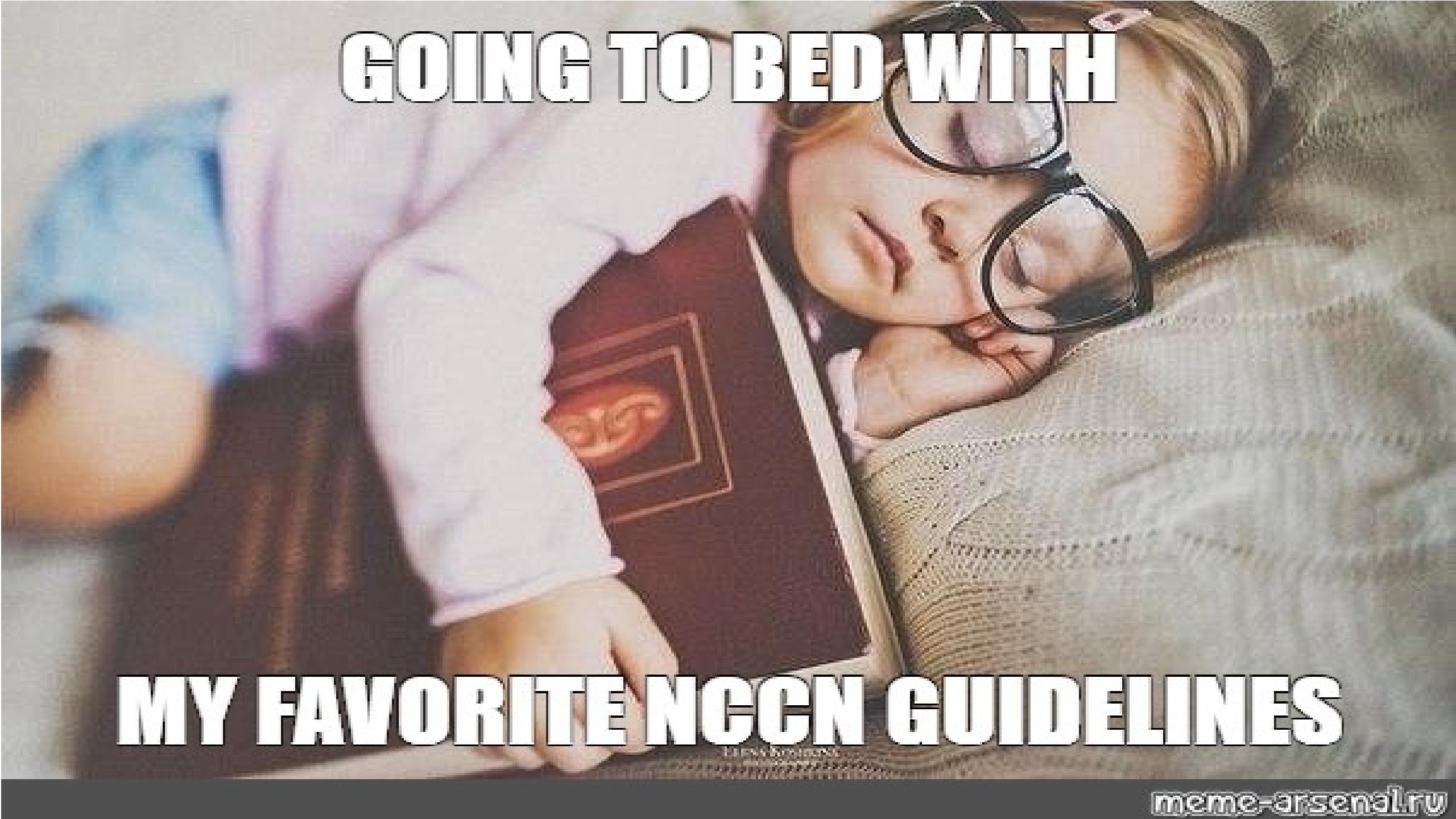
- Use of easily available, accessible and affordable medications
- Use of standard of care chemo (pem + platinum induction → pem maint)
- All *EGFR* testing done in the molecular lab of medical oncology dept of TMH
- Included PS 2 pts, brain mets, rare *EGFR* mutations: L861Q, S761I, G791X

# FLAURA2: First-line Osimertinib ± Chemotherapy in Advanced or Metastatic *EGFR*-Mutated NSCLC

- International, randomized, open-label phase III trial



- **Primary endpoint:**
- PFS by BICR per RECIST v1.1
- **Secondary endpoints:**
- OS, ORR, DoR, DCR, PFS2, PROs, PK



**GOING TO BED WITH**

**MY FAVORITE NCCN GUIDELINES**

A man with glasses is lying in bed, propped up on his left arm. He is holding a book open with his right hand and examining it with a magnifying glass held over his left eye. The book has a dark cover with gold-colored rectangular patterns. The background shows a bedroom setting with a lamp and some pillows.



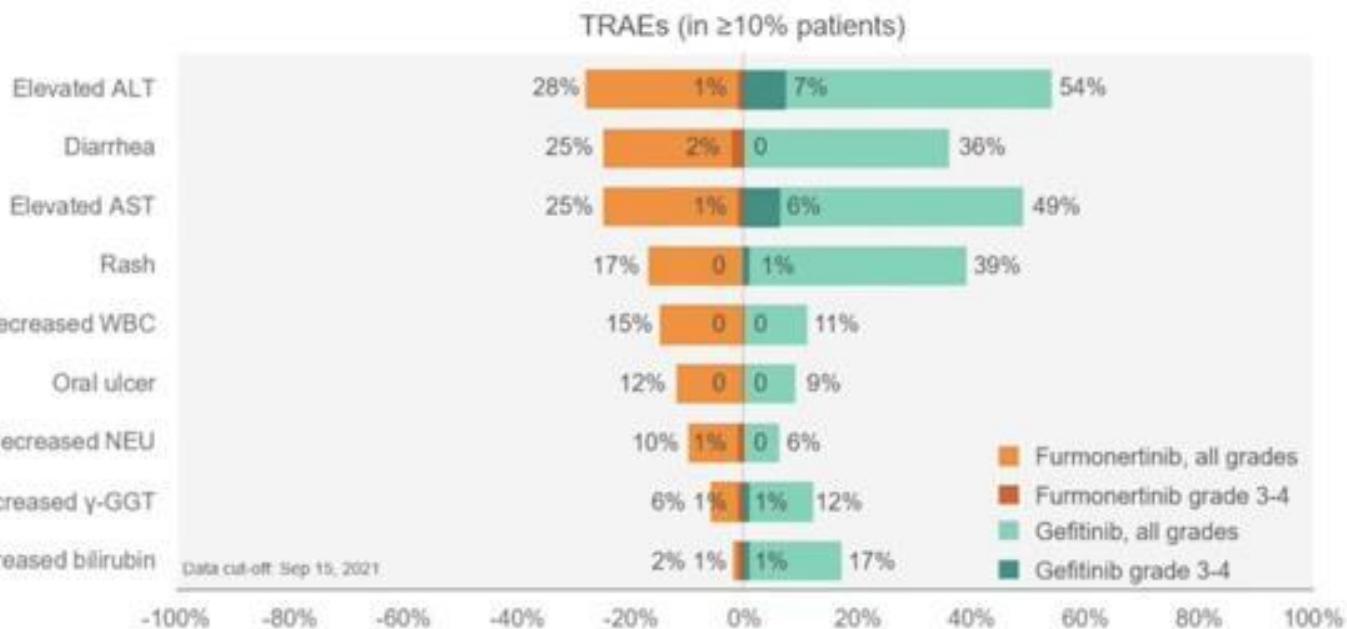
sarah byland  
**THERE ARE TOO MANY CHOICES.**



Yuan-Kai Shi

## The most frequent treatment-related adverse events

Median duration of exposure: 18.3 months with furmonertinib and 11.2 months with gefitinib

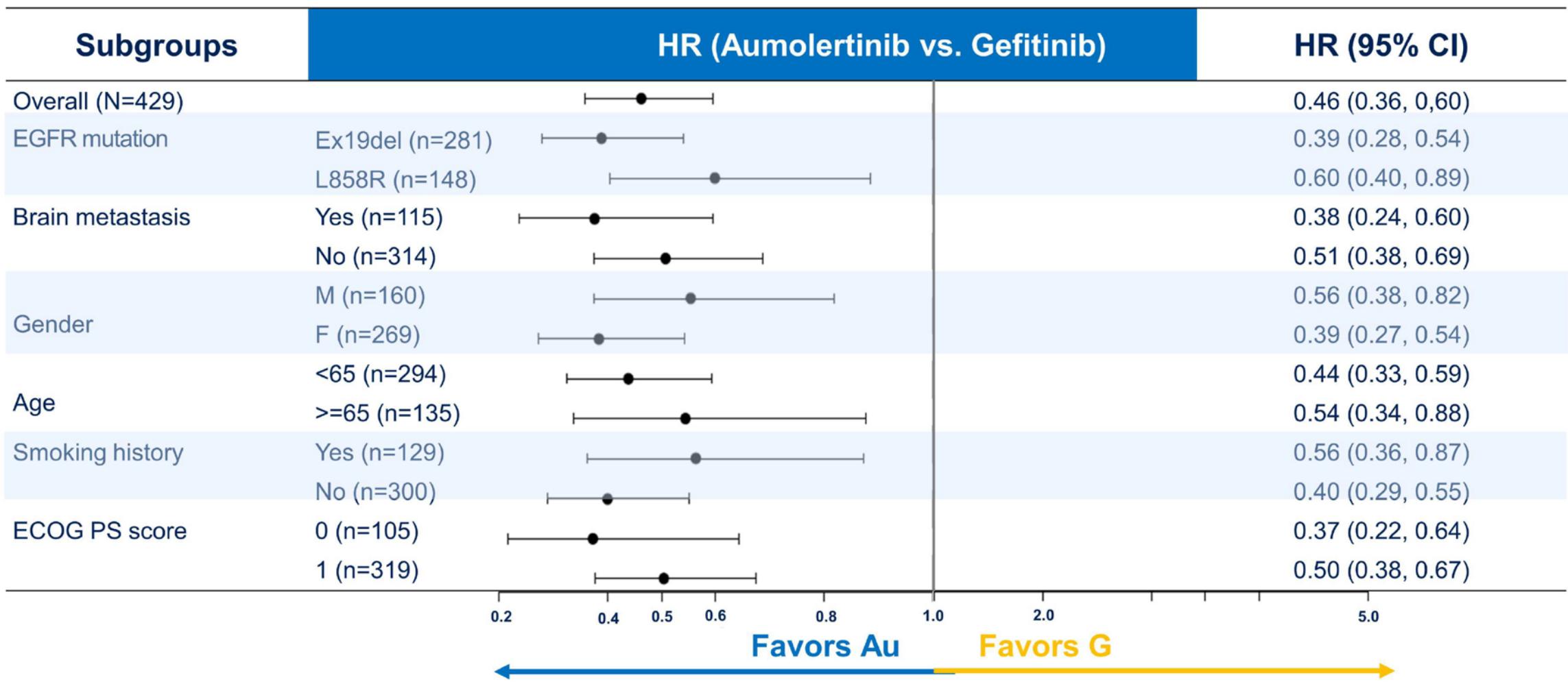


### AEs of interest:

- interstitial lung disease (ILD) was recorded in 1 patient in each group (grade 1 in furmonertinib group, grade 2 in gefitinib group)
- QT prolongation was recorded in 9% and 7% patients in furmonertinib group and gefitinib group, respectively.

Treatment-related adverse events were judged by investigators. Treatment-related adverse events of ≥10% in either group are listed. ALT: alanine aminotransferase; AST: aspartate aminotransferase; WBC: white blood cell count; NEU: neutrophil count; GGT: glutamyltransferase. TRAE: treatment-related adverse events.

# EFFICACY: PFS ACROSS SUBGROUPS



Presented By: Prof. Shun Lu

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ANNUAL MEETING

A photograph of a young man in a blue and white plaid shirt looking over his shoulder at two women. On the left, a woman in a red top is smiling. On the right, a woman in a blue top looks surprised. The background is blurred.

**PASSED OPTION**

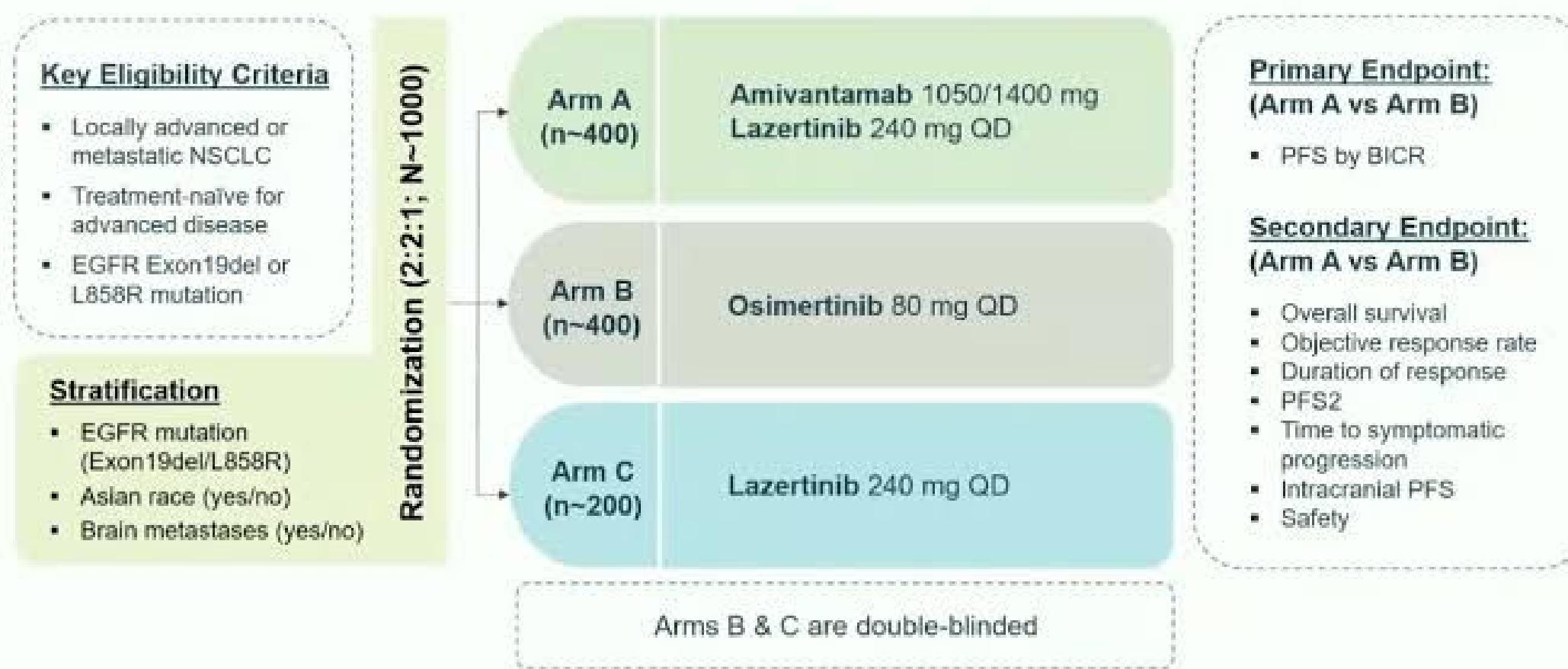
**ME**

**MY  
CHOICE**



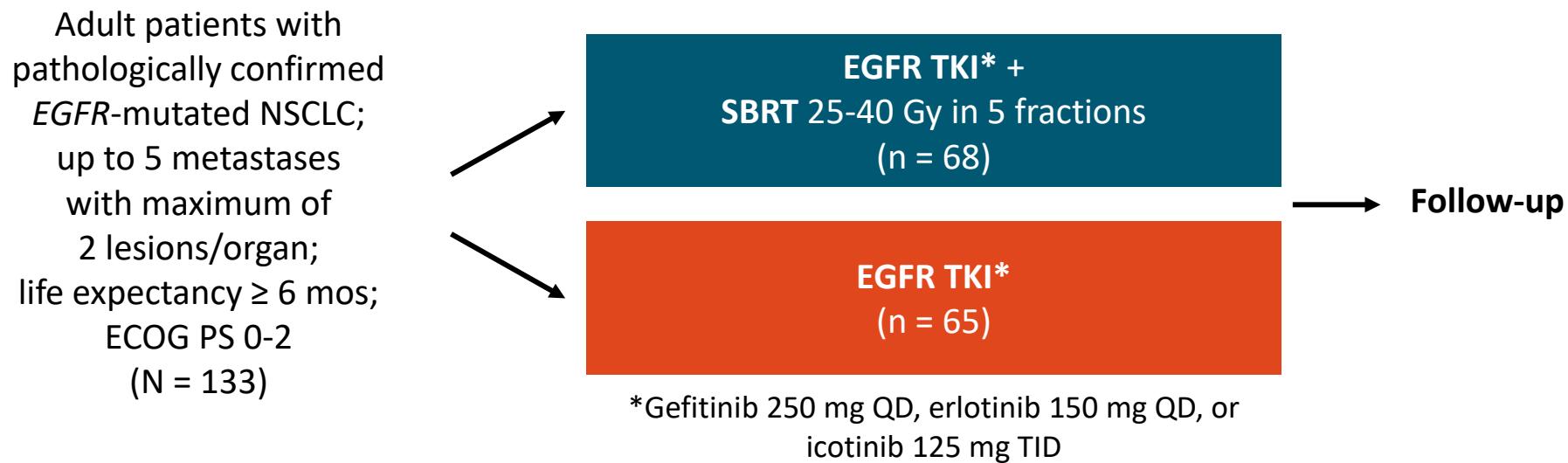
**CHINA USES TIKTOK TO HACK  
AND STEAL A PERSON'S DATA!**

# Phase 3 MARIPOSA Study (NCT04487080)



# SINDAS Interim Analysis: Study Design

- Multicenter, open-label, randomized phase III trial in China (January 2016 - June 2019)

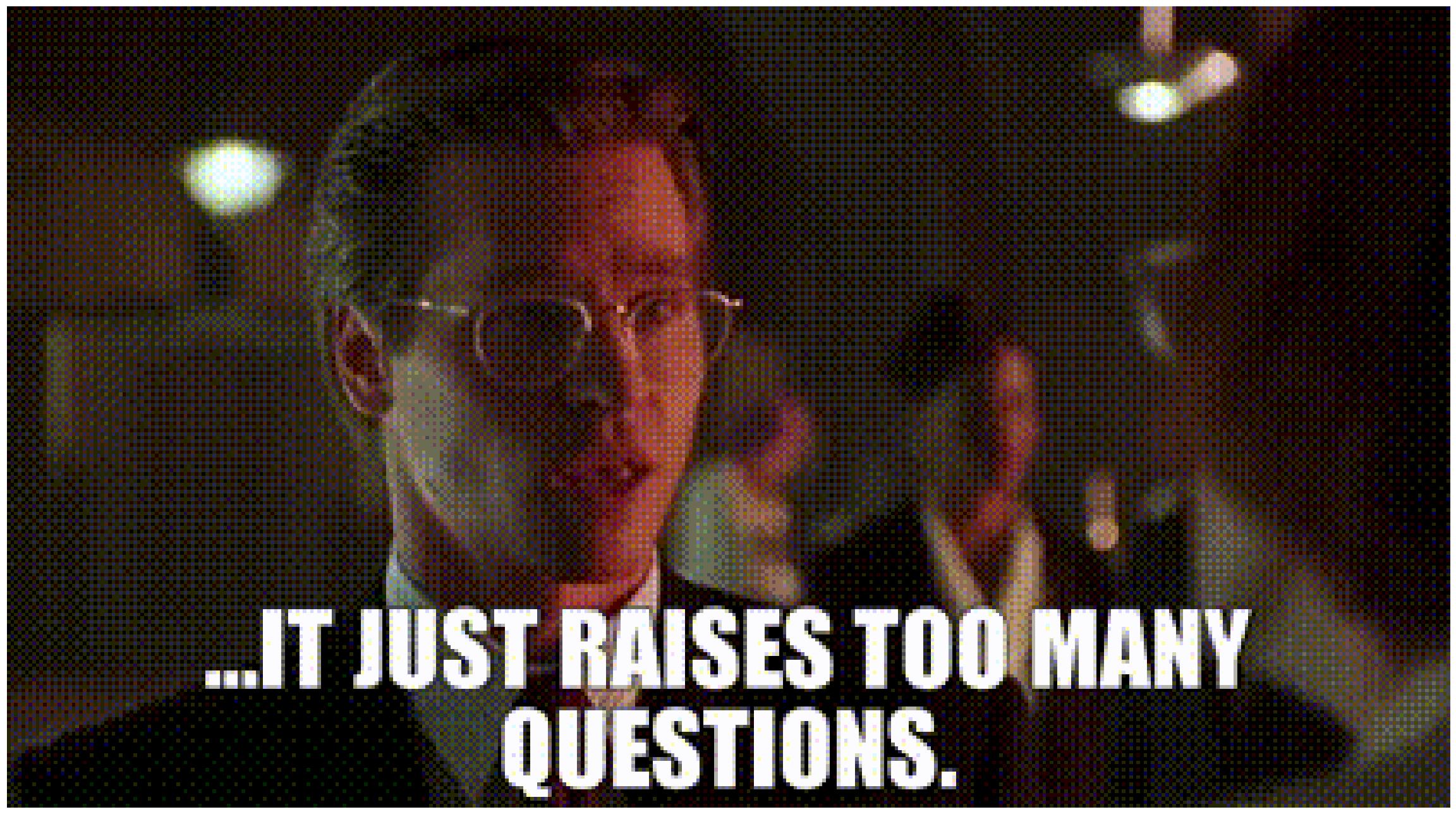


- Primary endpoint: PFS
- Secondary endpoint: OS
- Other endpoint: safety

# SINDAS Interim Analysis: PFS & OS

Median Outcome, Mos	EGFR TKI + SBRT (n = 68)	EGFR TKI Only (n = 65)	HR
PFS (primary endpoint)	20.2	12.5	0.618 (95% CI: 0.394-0.969; log-rank $P < .001$ )
OS (secondary endpoint)	25.5	17.4	0.682 (95% CI: 0.456-1.001; log-rank $P < .001$ )

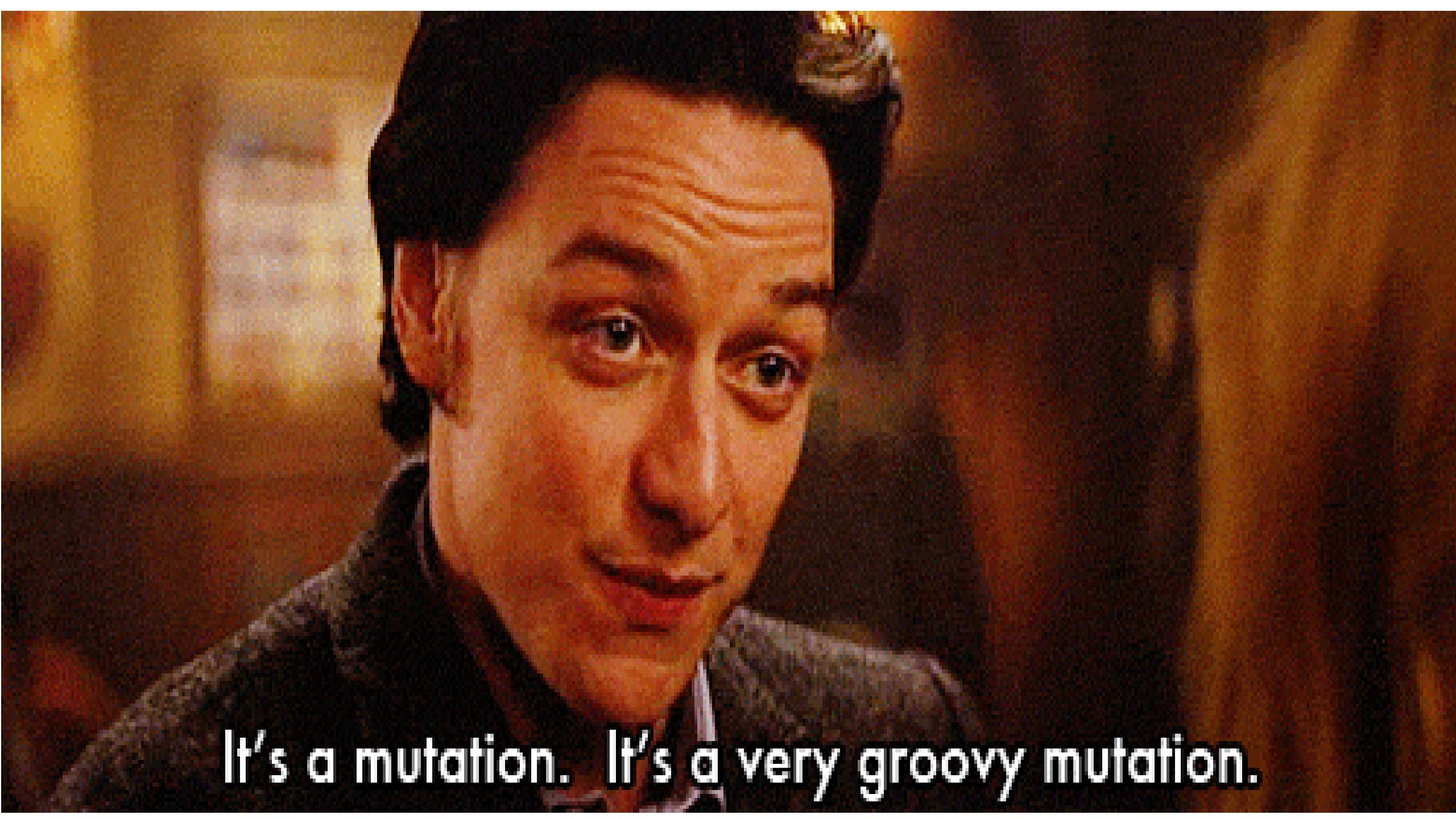
- After median follow-up of 19.6 mos
- EGFR TKI + SBRT significantly prolonged PFS and OS vs EGFR TKI only

A black and white photograph of a middle-aged man with short, light-colored hair. He is wearing a dark suit jacket over a white shirt and a patterned tie. His gaze is directed downwards and to his left, with a contemplative or weary expression. The background is dark and out of focus, showing what appears to be an interior room with some furniture and possibly a lamp.

...IT JUST RAISES TOO MANY  
QUESTIONS.

# SINDAS Trial, Take Home Points, 2

- No significant differences in toxicity
- Supportive data from prior Phase II studies for combination
- Surgery for oligomets?
  - SBRT less invasive
  - Better QOL expected
  - Relatively less resource utilization



It's a mutation. It's a very groovy mutation.

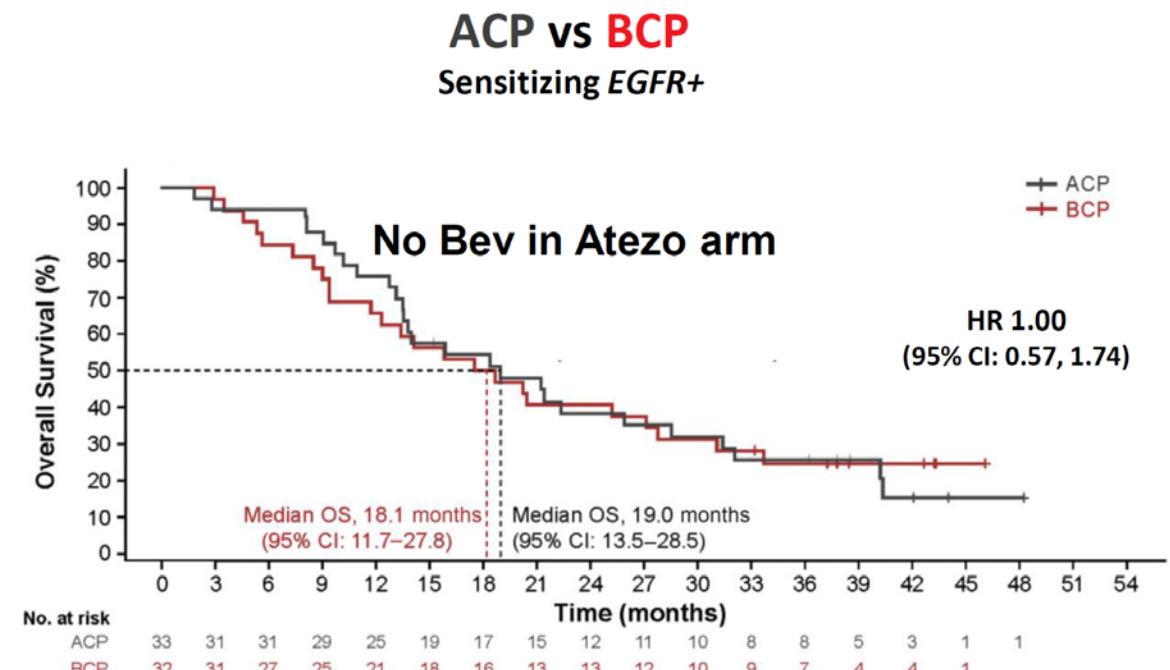
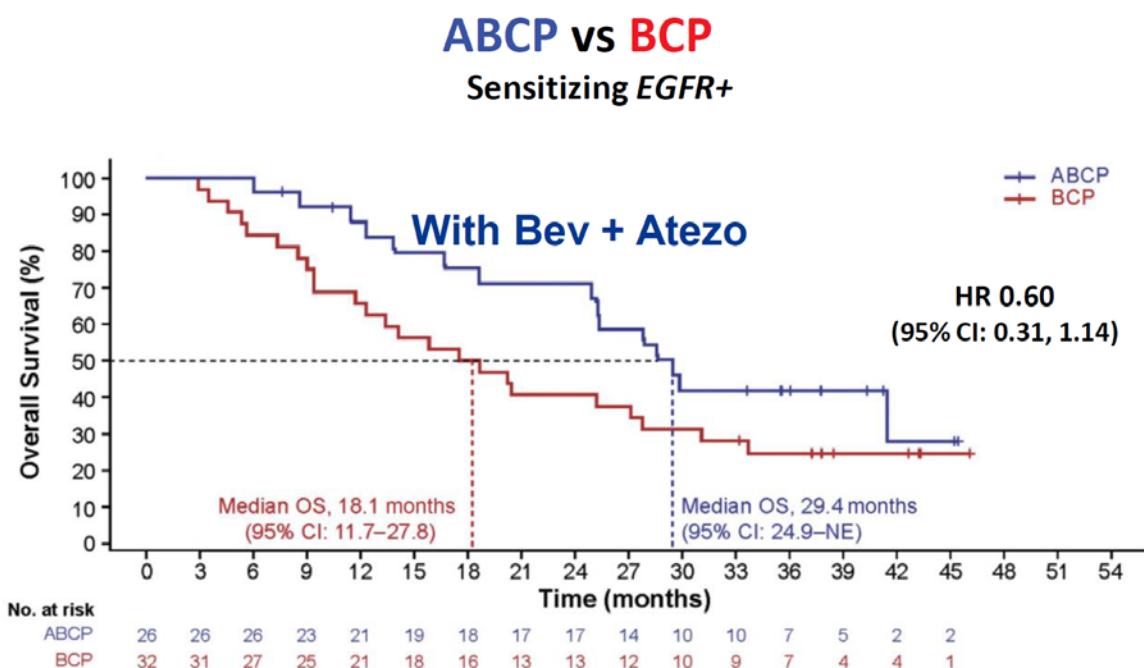
# IMMUNOTHERAPY



## SO HOT RIGHT NOW

# IMpower 150: IO + Chemo + VEGFi in EGFRm NSCLC

Sensitising EGFR Positive Patients (~7.6%)



# Conclusions

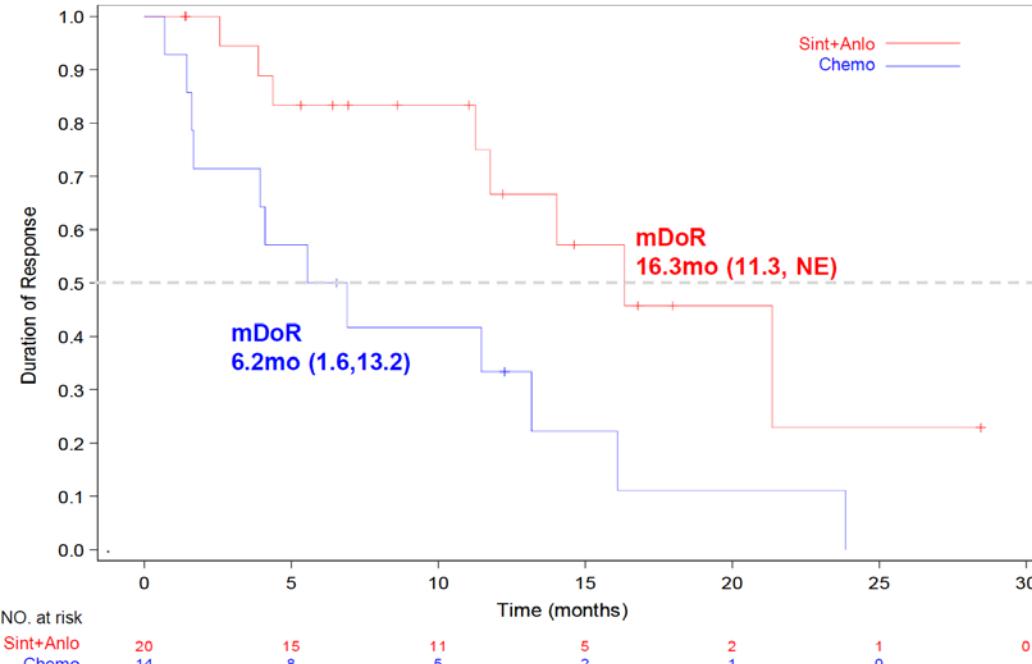
- ORIENT-31 demonstrated a significantly improved PFS with Arm B (Sintilimab + Pemetrexed + Cisplatin) versus Arm C (Pemetrexed + Cisplatin) as assessed by IRRC in patients with EGFRm nsqNSCLC who progressed after EGFR-TKIs therapy.
  - PFS HR for Arm B vs Arm C: HR 0.723 (95% CI: 0.552, 0.948),  $P = 0.0181^*$
- ORR, DCR and DOR were improved in Arm B versus Arm C.
  - Confirmed ORR for Arm B vs Arm C: 34.8% vs 29.4%
- The OS was immature yet.
- The safety profile was acceptable without new unexpected safety signals.
- This is the first randomized, double-blind, placebo-controlled study that indicates significant PFS benefit with platinum-based doublet chemotherapy plus anti-PD-1 antibody with or without VEGF-inhibitor versus chemotherapy alone.

\* For 2IA analysis, the two-sided  $\alpha$  boundary is 0.0444.

# SECONDARY ENDPOINTS

## Duration of Response and Progression-Free Survival

**DOR**

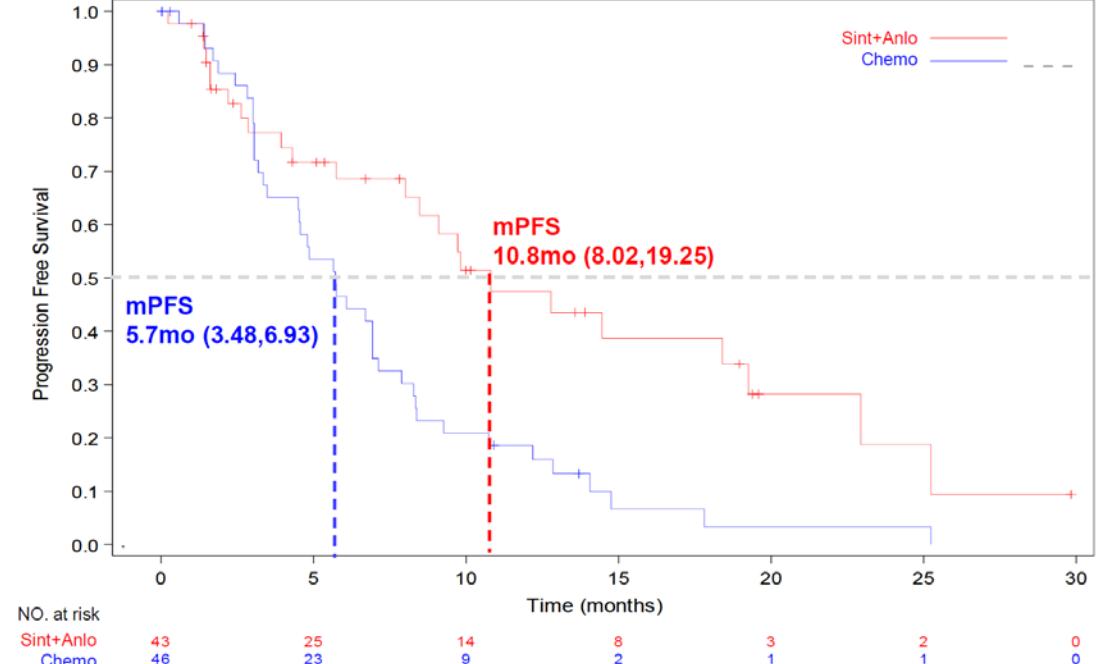


	Patients	Events	median DOR (95%CI)
<b>Sint+Anlo</b>	20	8 (40.0)	16.3 (11.3, NE)
<b>Chemo</b>	14	12 (85.7)	6.2 (1.6, 13.2)

HR was calculated with stratified Cox model, and was stratified by Histology(Squamous vs non-Squamous) PD-L1 expression( $\geq 1\%$  vs  $< 1\%$ )

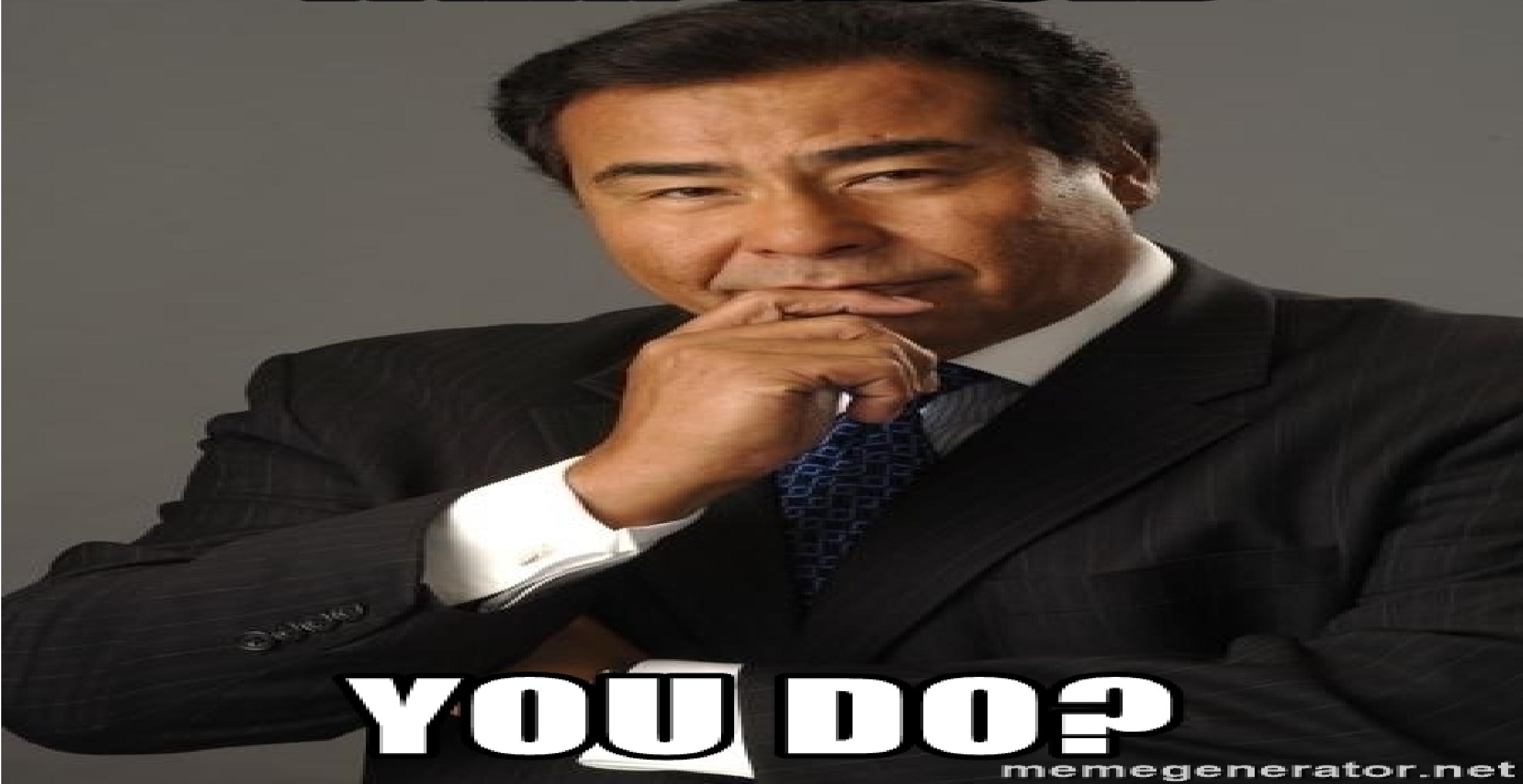
P value was calculated with stratified log rank test; Data cutoff : Jul. 15th 2022 ; Median follow-up 13.1 months

**PFS**



	Patients	Events	HR (95%CI)	P
<b>Sint+Anlo</b>	43	24 (55.8)	0.4 (0.25, 0.74)	0.002
<b>Chemo</b>	46	41 (89.1)		

**WHAT WOULD**

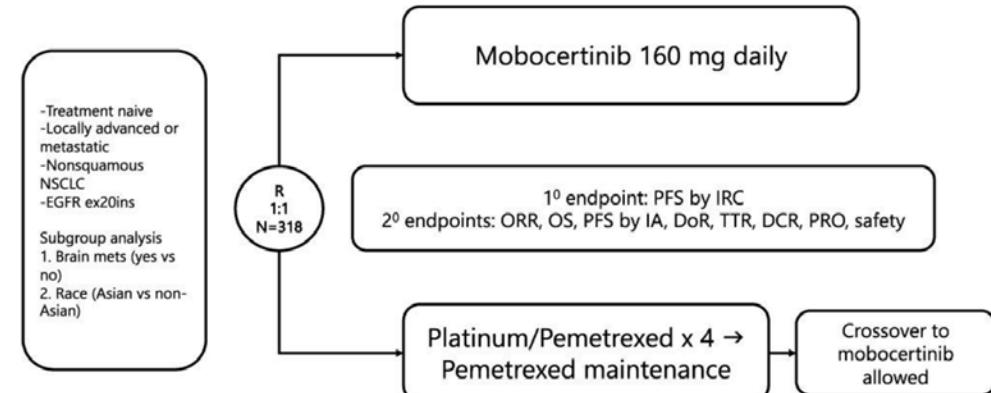


**YOU DO?**

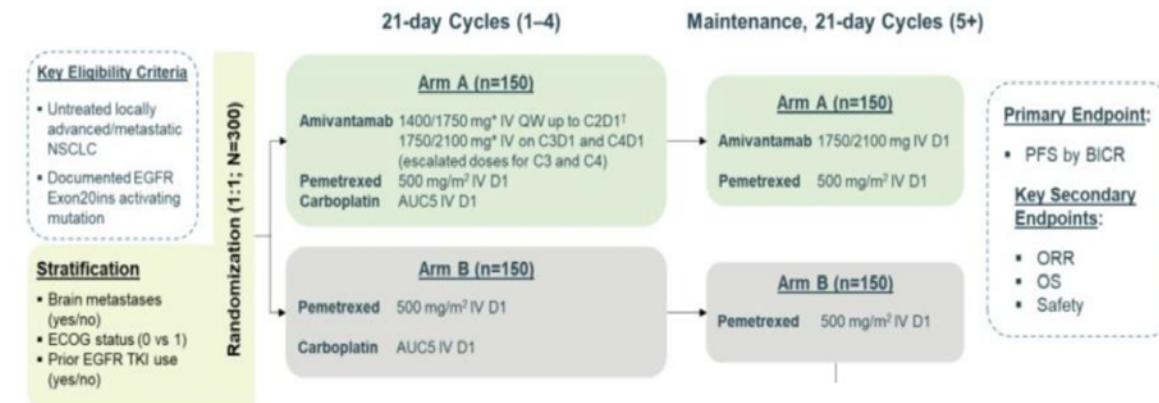
# Unanswered Questions in EGFR ins20

- Optimal First-Line Treatment Strategies
  - PAPILLON, EXCLAIM-2 may change the standard of care
- How should currently available therapies be sequenced?
  - TKI -> Amivantamab | Amivantamab -> TKI | Combinations
- Should treatment be tailored based on the location of the insertion?
- Management of CNS Metastases
  - Novel agents (BLU-451, ORIC 114) may have a role
- Overcoming acquired resistance

## EXCLAIM-2

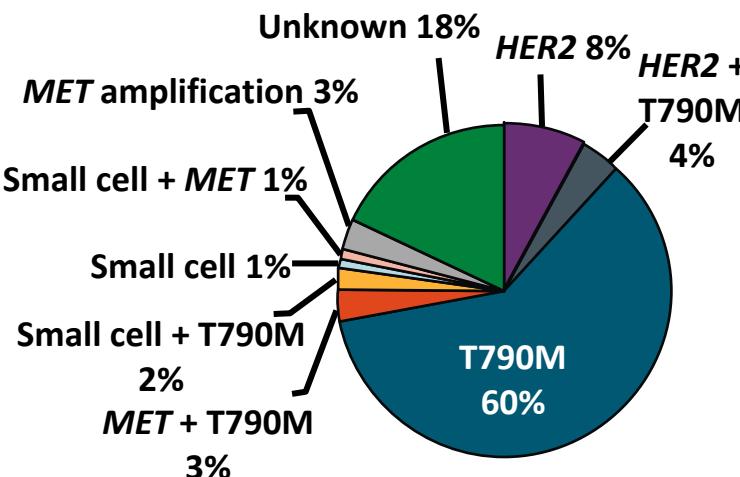


## PAPILLON



# Resistance More Challenging With Newer EGFR TKIs

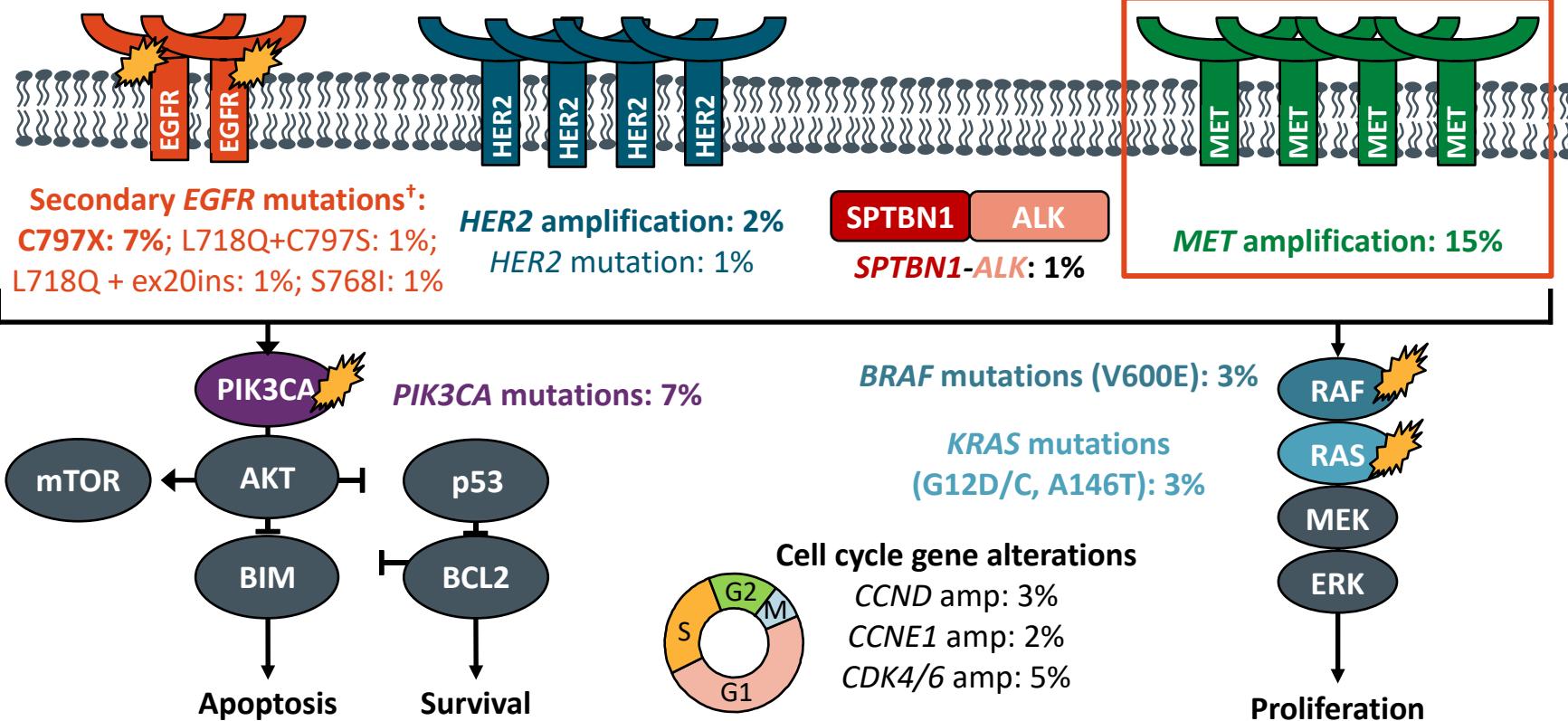
## Acquired Resistance Mechanisms With Early-Gen EGFR TKIs<sup>1</sup>



T790M – dominant mechanism of resistance to 1<sup>st</sup> & 2<sup>nd</sup> gen EGFR TKIs<sup>‡</sup>

<sup>‡</sup>In the phase III RELAY trial, the post-progression T790M rate was 43% and 47% with ramucirumab + erlotinib vs placebo + erlotinib, respectively.<sup>2</sup>

## Candidate Acquired Resistance Mechanisms With Osimertinib\*<sup>3</sup>



\*Overlap of reported resistance mechanism may occur. <sup>†</sup>n = 2 with de novo T790M mutations at BL; 1 acquired C797S at progression.

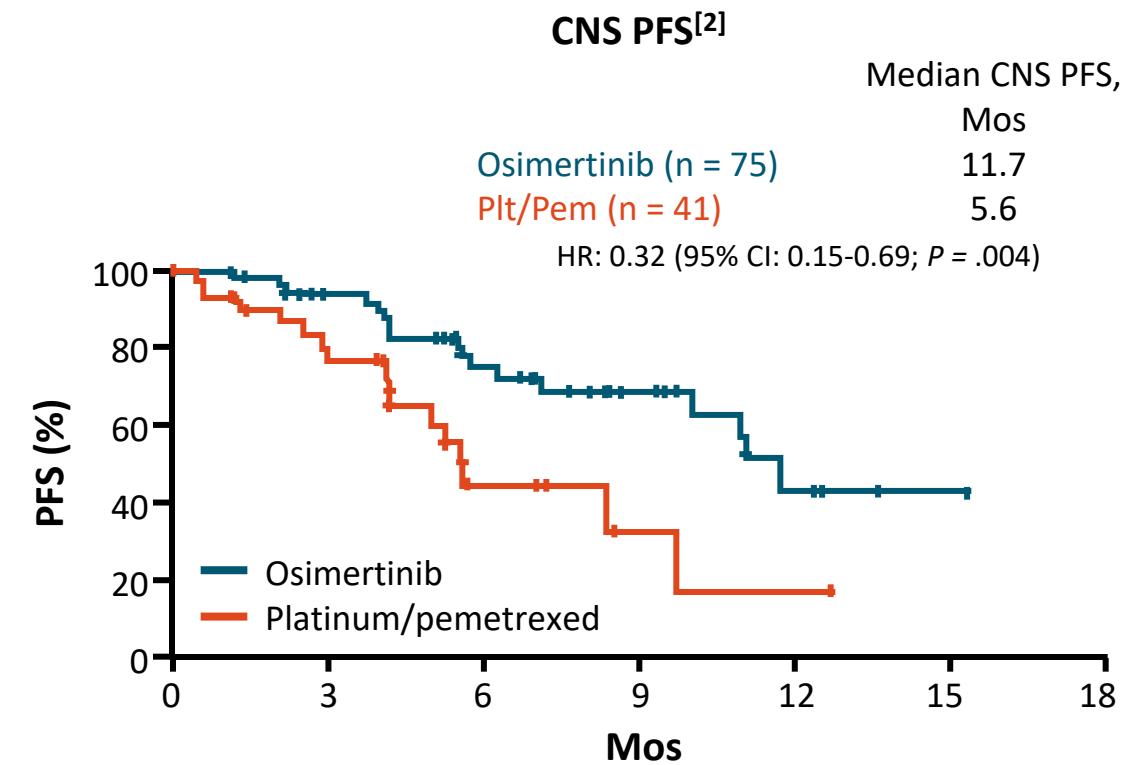
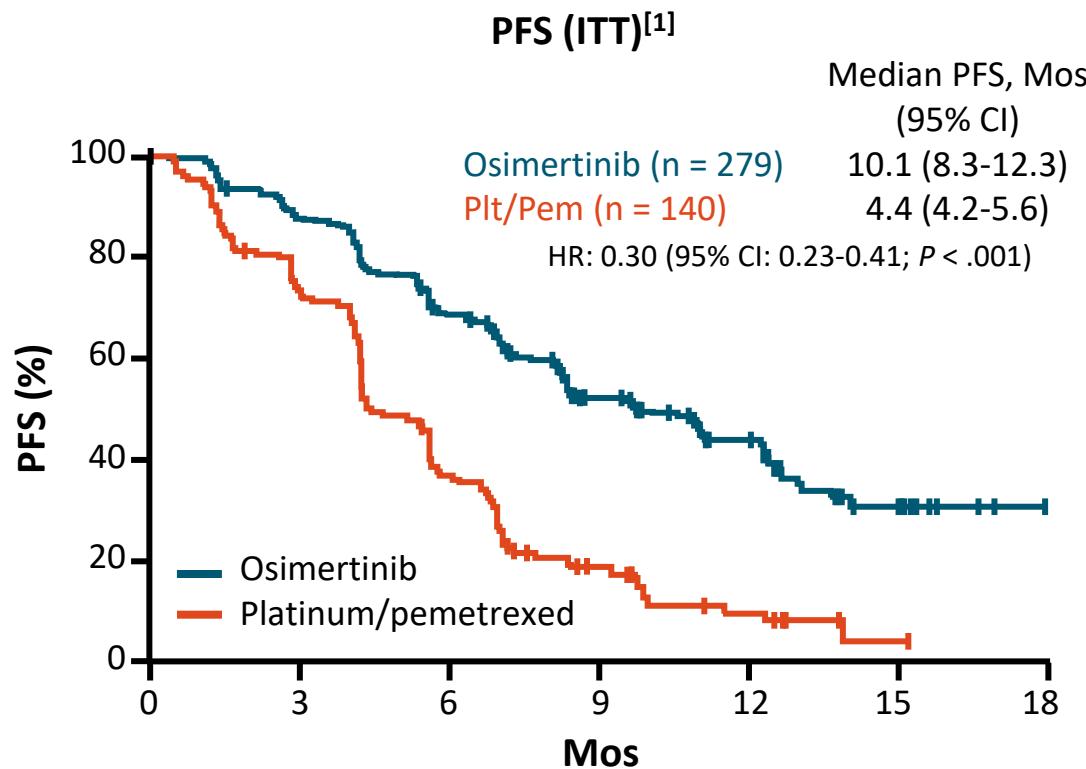
No dominant and more heterogeneous mechanisms of resistance to 3rd-gen EGFR TKI osimertinib

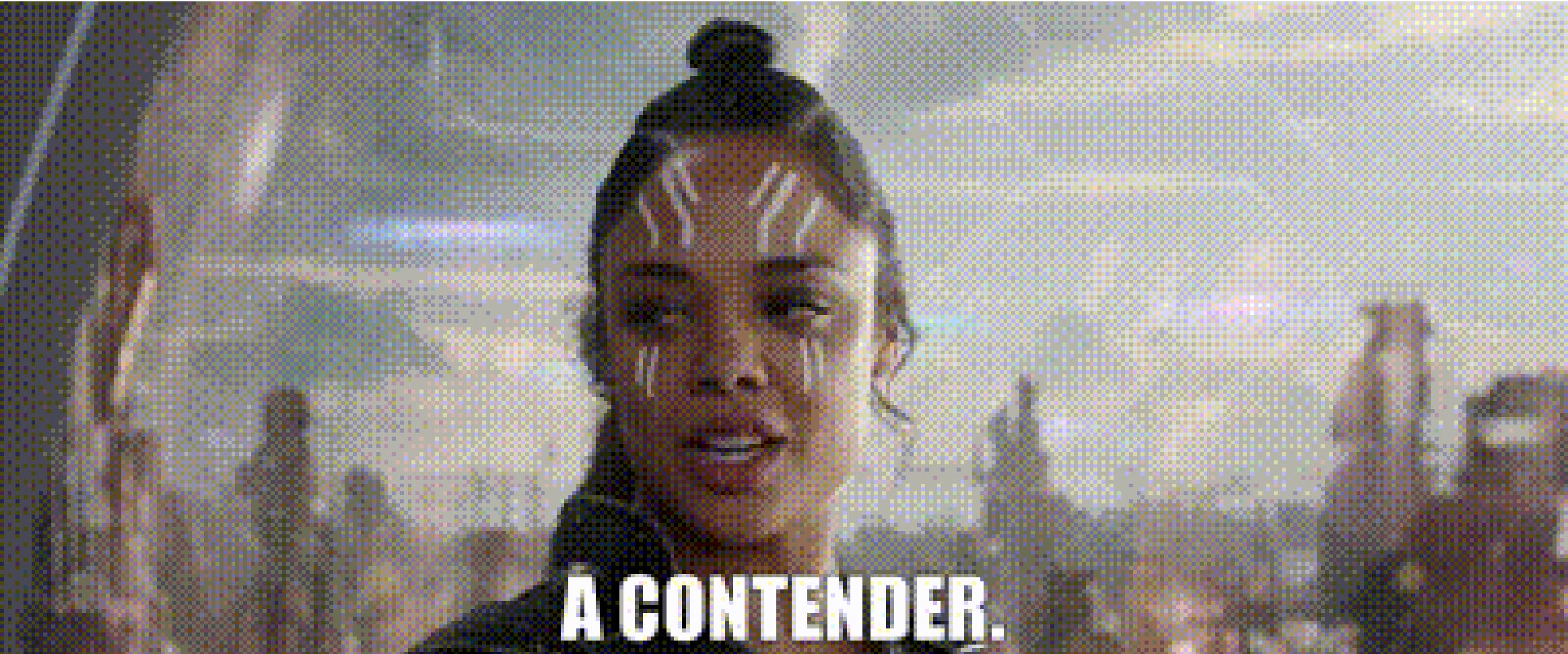
A woman with dark hair tied back, wearing a white dress with intricate gold embroidery on the shoulders and chest, looks over her shoulder with a slight smile. She is standing in what appears to be a grand hall with red curtains and a staircase in the background.

#CRAZYRICHASIANS

THIS... IS GOLD STANDARD

# AURA3: Osimertinib vs CT in NSCLC With EGFR T790M Mutation–Positive Acquired Resistance



A woman with dark hair tied back in a bun is standing in front of a bright, colorful city skyline at night. She is wearing a black, off-the-shoulder, knee-length dress. The background is a soft-focus view of buildings with lights, creating a bokeh effect.

A CONTENDER.

Endpoints	BIGR	Investigator
ORR %, n (95% CI)	57.6% (44.1, 70.4)	54.2% (40.8, 67.3)
CR, n (%)	0	1 (1.7%)
PR, n (%)	34 (57.6%)	31 (52.5%)
DCR %, n (95% CI)	98.3% (90.9, 99.9)	96.6% (88.3, 99.6)
Median PFS, months (95% CI)	12.4 (8.3, NA)	11.7 (8.2, 16.8)
Median DOR, months (95% CI)	15.2 (8.3, NA)	11.1 (7.2, NA)
Median OS, months (95% CI)	Not Reached	

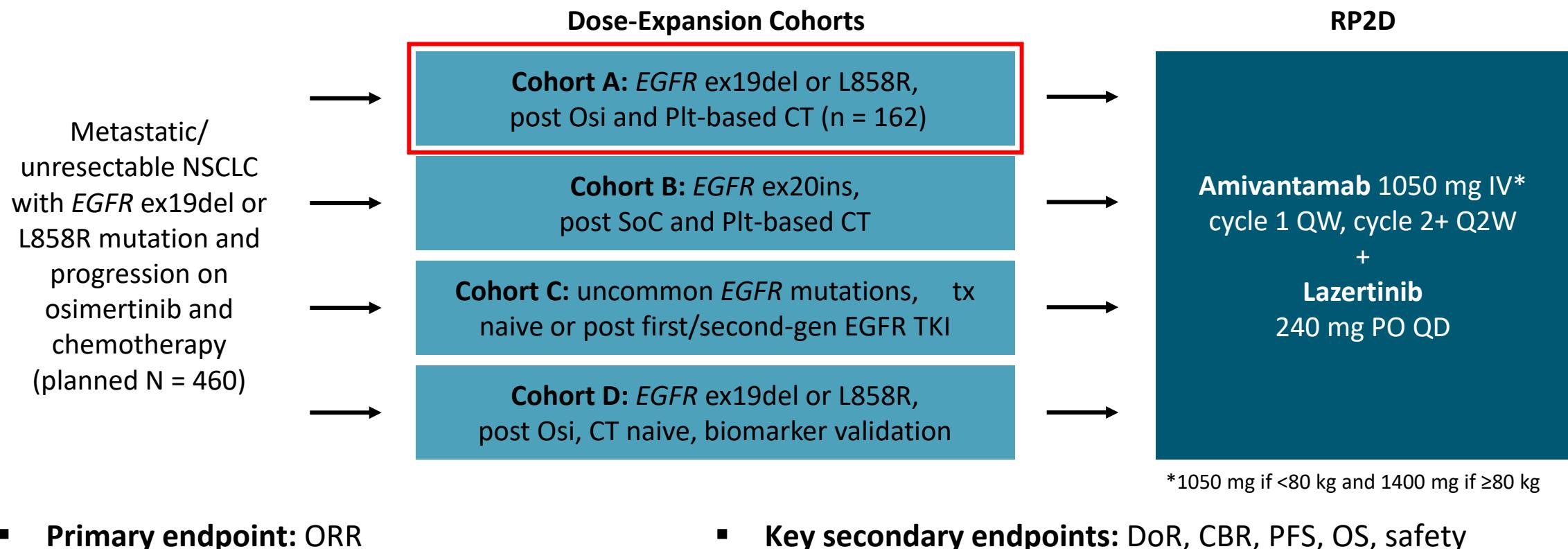
# LADIES AND GENTLEMEN!

A close-up photograph of a middle-aged man with grey hair, wearing a dark tuxedo jacket over a white shirt and a dark bow tie. He is holding a black microphone in his right hand and is singing into it with his eyes closed. The background is dark and out of focus.

# WE HAVE A WINNER!

# CHRYSTALIS-2: Amivantamab + Lazertinib in EGFR-Mutated NSCLC

- Multicohort dose-escalation and dose-expansion phase I study
  - Current report focused on cohort A**





**THE REAL DEAL**

# Select Ongoing Studies of Amivantamab Combination Regimens in *EGFR*-Mutated Advanced NSCLC

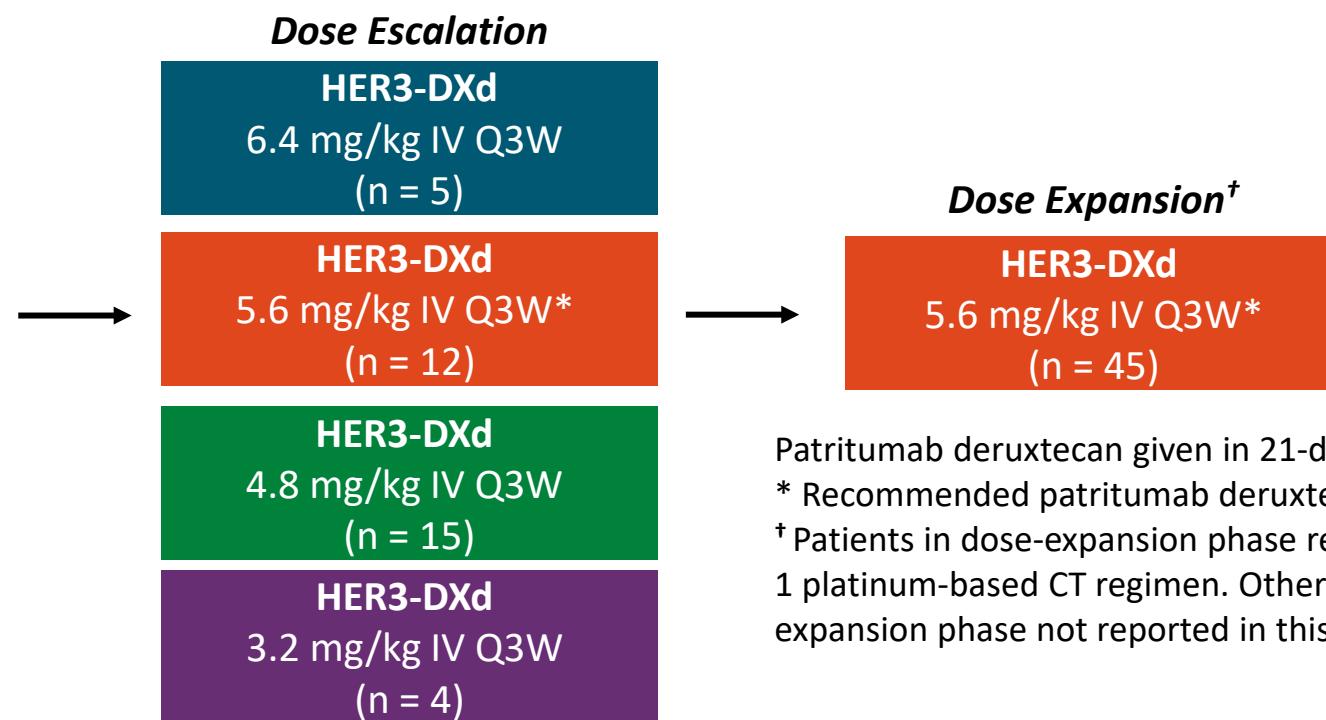
Trial	Phase	Planned N	Study Population	Treatment	Primary Endpoint(s)
CHRYSALIS-2 (NCT04077463)	I	460	<i>EGFR</i> -mutated advanced NSCLC with PD on or after EGFR TKI and plt-based CT	Amivantamab + lazertinib	ORR
NCT04965090	II	40	<i>EGFR</i> -mutated advanced NSCLC with CNS metastases or LM	Amivantamab + lazertinib	CNS ORR
MARIPOSA (NCT04487080)	III	1074*	<i>EGFR</i> -mutated advanced NSCLC	Amivantamab + lazertinib vs osimertinib	PFS
MARIPOSA-2 (NCT04988295)	III	600	<i>EGFR</i> -mutated advanced NSCLC with PD on or after EGFR TKI and plt-based CT	Amivantamab + lazertinib + plt-based CT vs amivantamab + plt-based CT vs plt-based CT	PFS
NCT05388669	III	640	<i>EGFR</i> -mutated advanced NSCLC after progression on osimertinib and plt-based CT	Lazertinib + SC amivantamab (manual injection) vs IV amivantamab vs SC amivantamab (on-body delivery)	$C_{\text{trough}}$ , AUC, $C_{\max}$

\*Actual N; study active, no longer recruiting

# Patritumab Deruxtecan in EGFR-Mutated NSCLC: Study Design

- Multicenter, open-label, multicohort phase I trial; current report focused on cohort of patients with EGFRm NSCLC adenocarcinoma after failure of EGFR TKI therapy

Patients with locally advanced or metastatic NSCLC with EGFR mutations and progression on previous EGFR TKI; stable brain metastases allowed; tumor biopsy required, but selection not based on HER3 expression (planned N = 264)



Patritumab deruxtecan given in 21-day cycles.

\* Recommended patritumab deruxtecan dose for dose expansion.

<sup>†</sup> Patients in dose-expansion phase required to have received 1 platinum-based CT regimen. Other cohorts included in dose-expansion phase not reported in this analysis.

- Efficacy evaluation: antitumor activity in patients receiving 5.6 mg/kg dose (n = 57)
- Safety evaluation: safety and tolerability in all patients in dose escalation and expansion (n = 81)



WOULD YOU LIKE TO KNOW  
YOUR FUTURE?

# Select Ongoing Studies of Patritumab Deruxtecan in EGFR-Mutated Advanced NSCLC

Trial	Phase	Planned N	Study Population	Treatment	Primary Endpoint(s)
NCT03260491*	I	264	<i>EGFR</i> -mutated advanced NSCLC with PD on or after <i>EGFR</i> TKI	HER3-DXd	<ul style="list-style-type: none"> <li>▪ DLT, AEs (dose escalation)</li> <li>▪ ORR (dose expansion)</li> </ul>
NCT04676477	I	252	<i>EGFR</i> -mutated advanced NSCLC: <ul style="list-style-type: none"> <li>▪ Newly diagnosed (1L dose expansion)</li> <li>▪ With PD following osimertinib (dose escalation, 2L dose expansion)</li> </ul>	HER3-DXd + osimertinib	<ul style="list-style-type: none"> <li>▪ DLT, AEs (dose escalation)</li> <li>▪ ORR (2L dose expansion)</li> <li>▪ AEs (1L dose expansion)</li> </ul>
HERTHENA-Lung 01 (NCT04619004)	II	420	<i>EGFR</i> -mutated advanced NSCLC with PD on or after $\geq 1$ <i>EGFR</i> TKI and plt-based CT	HER3-DXd	ORR
HERTHENA-Lung 02 (NCT05338970)	III	560	<i>EGFR</i> -mutated advanced NSCLC with PD on or after 1-2 <i>EGFR</i> TKIs, which must include a 3rd-gen <i>EGFR</i> TKI	HER3-DXd + plt-based CT	PFS

