

Consensus or Controversy? Clinical Investigators Provide Perspectives on the Current and Future Clinical Care of Patients with EGFR Mutation-Positive Non-Small Cell Lung Cancer

Friday, May 30, 2025

6:30 PM – 8:30 PM CT (7:30 PM – 9:30 PM ET)

Faculty

Nicolas Girard, MD, PhD

Jonathan Goldman, MD

Pasi A Jänne, MD, PhD, FASCO

Suresh S Ramalingam, MD

Joshua K Sabari, MD

Moderator

Helena Yu, MD

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Moderator

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Dr Love — Disclosures

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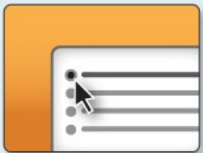
Friday May 30	Immunotherapy and Antibody-Drug Conjugates in Lung Cancer 11:15 AM – 12:45 PM CT (12:15 PM – 1:45 PM ET)
	Colorectal Cancer 6:30 PM – 8:30 PM CT (7:30 PM – 9:30 PM ET)
	EGFR Mutation-Positive Non-Small Cell Lung Cancer 6:30 PM – 8:30 PM CT (7:30 PM – 9:30 PM ET)
Saturday May 31	Urothelial Bladder Cancer 6:45 AM – 7:45 AM CT (7:45 AM – 8:45 AM ET)
	Non-Hodgkin Lymphoma 7:00 PM – 9:00 PM CT (8:00 PM – 10:00 PM ET)
	Prostate Cancer 7:00 PM – 9:00 PM CT (8:00 PM – 10:00 PM ET)
Sunday June 1	Chronic Lymphocytic Leukemia (Webinar) 7:00 AM – 8:00 AM CT (8:00 AM – 9:00 AM ET)
	HER2-Positive Gastrointestinal Cancers 7:00 PM – 8:30 PM CT (8:00 PM – 9:30 PM ET)
	Ovarian and Endometrial Cancer 7:00 PM – 9:00 PM CT (8:00 PM – 10:00 PM ET)
Monday June 2	Renal Cell Carcinoma (Webinar) 7:00 AM – 8:00 AM CT (8:00 AM – 9:00 AM ET)
	Multiple Myeloma (Webinar) 6:00 PM – 7:00 PM CT (7:00 PM – 8:00 PM ET)
	Metastatic Breast Cancer 7:00 PM – 9:00 PM CT (8:00 PM – 10:00 PM ET)
Tuesday June 3	Soft Tissue Sarcoma and Other Connective Tissue Neoplasms (Webinar) 7:00 AM – 8:00 AM CT (8:00 AM – 9:00 AM ET)

Clinicians in the Meeting Room

Networked iPads are available.



Review Program Slides: Tap the Program Slides button to review speaker presentations and other program content.



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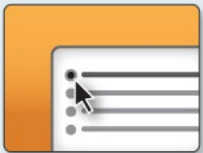
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About the Enduring Program

- The live meeting is being video and audio recorded.
- The proceedings from today will be edited and developed into an enduring web-based program. An email will be sent to all attendees when the activity is available.
- To learn more about our education programs, visit our website, www.ResearchToPractice.com



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Agenda

MODULE 1: Evolving First-Line Treatment for Metastatic EGFR Mutation-Positive Non-Small Cell Lung Cancer (NSCLC) — Dr Yu

MODULE 2: EGFR-Targeted Approaches for Relapsed EGFR-Mutant NSCLC; Strategies to Facilitate Delivery of Recently Approved Agents — Dr Sabari

MODULE 3: Potential Utility of TROP2-Targeted Therapy in the Management of EGFR-Mutant NSCLC — Dr Ramalingam

MODULE 4: Contemporary Care for Patients with Nonmetastatic EGFR-Mutant NSCLC — Dr Goldman

MODULE 5: Current and Future Management of EGFR Exon 20 Mutation-Positive NSCLC — Prof Girard

MODULE 6: Emerging Role of HER3-Targeted Therapy in the Management of EGFR-Mutant NSCLC — Dr Jänne

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Evolving First-Line Treatment for Metastatic EGFR Mutation-Positive Lung Cancers

Risk stratification and patient preference

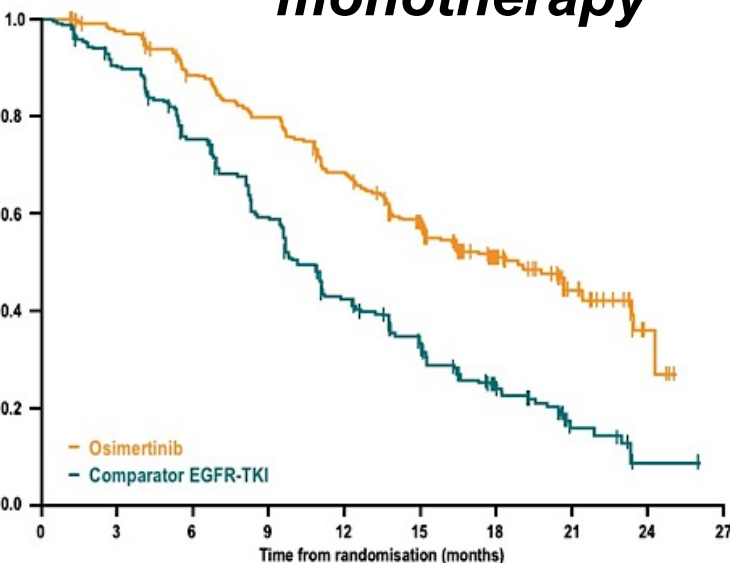


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Associate Attending
Thoracic Oncology Service
May 2025

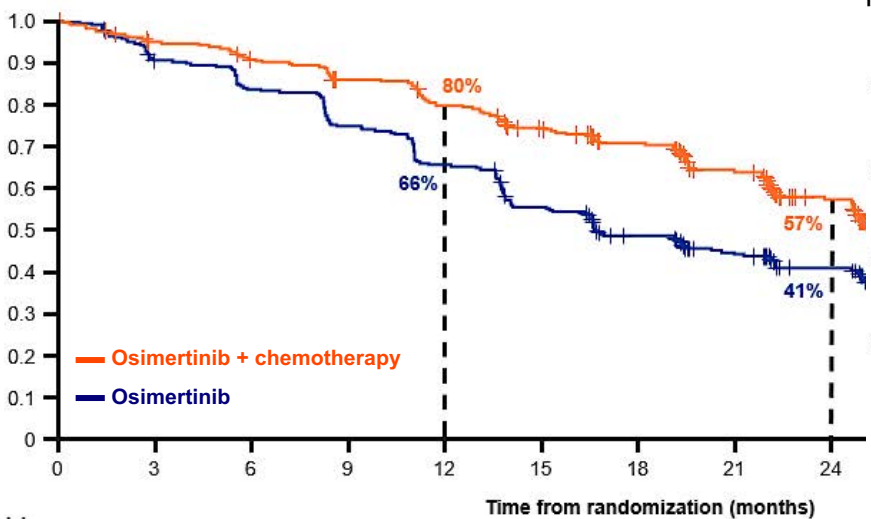
Current options for 1L treatment for EGFR+ lung cancers

FLAURA
*Osimertinib
monotherapy*



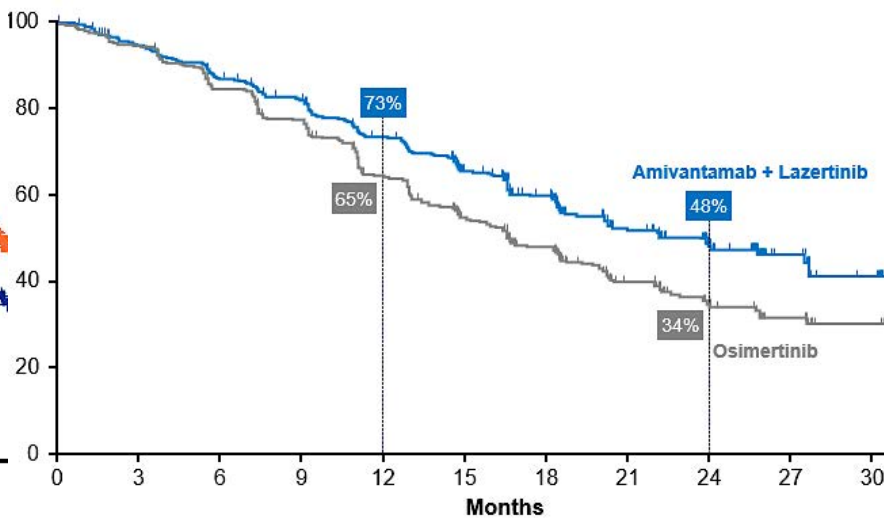
Progression-free survival
Osimertinib 18.9 mo
1st gen TKI 10.2 mo

FLAURA 2
*Osimertinib +
chemotherapy*



Progression-free survival
Osi+chemo 25.5 mo
Osimertinib 16.7 mo

MARIPOSA
*Amivantamab +
Lazertinib*



Progression-free survival
Ami+Laz 23.7 mo
Osimertinib 16.6 mo

Soria NEJM 2018, Planchard
NEJM 2023, Cho NEJM 2024

Considerations for 1L treatment

Quality of life

Side effects
Time and effort
Financial cost
Patient preference

LOWER-RISK

No brain metastases
No liver metastases
No TP53 co-mutation
ctDNA clearance
No baseline ctDNA



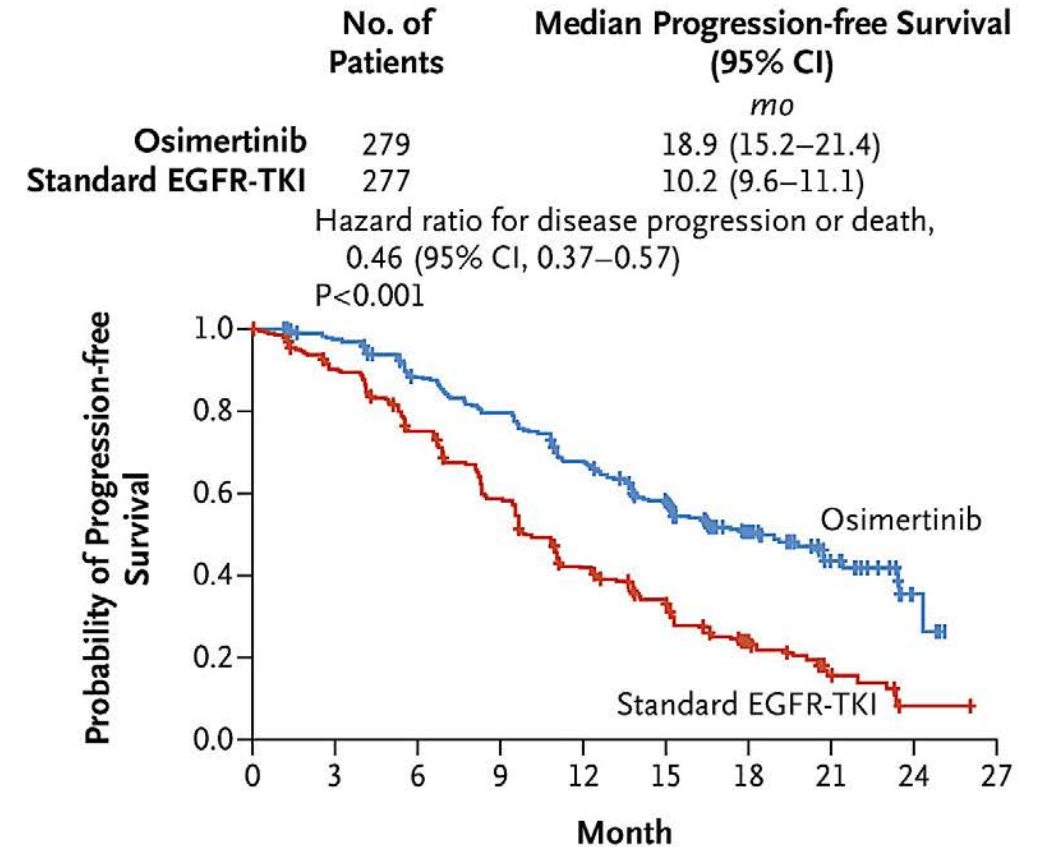
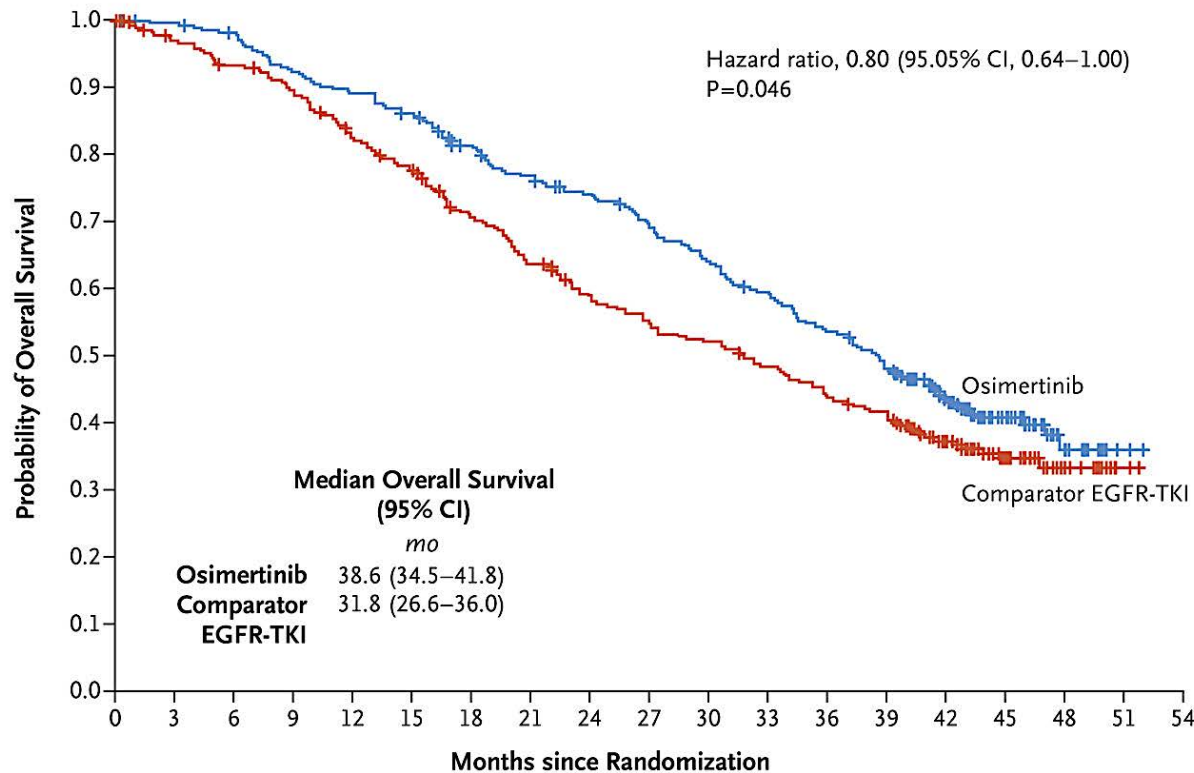
Efficacy

Progression-free survival
Overall survival
Ability to sequence treatments
CNS outcomes

HIGH-RISK

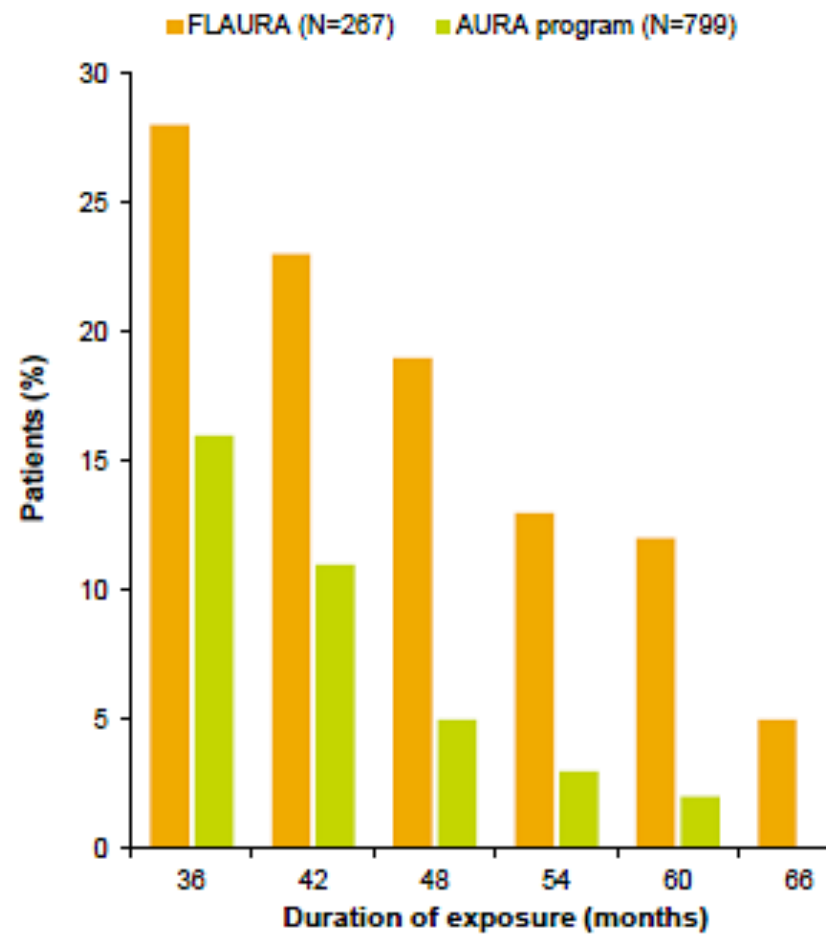
Brain metastases
Liver metastases
TP53 co-mutation
ctDNA persistence
Baseline ctDNA

Osimertinib monotherapy



- well-tolerated standard of care with clear improvement in PFS and OS over earlier-generation EGFR TKIs
- oral therapy with typical MD visit schedule of every 3 months
- toxicity profile is manageable, low rate of treatment discontinuation
- real-world studies have shown similar efficacy and safety in the larger patient population

Osimertinib long term safety

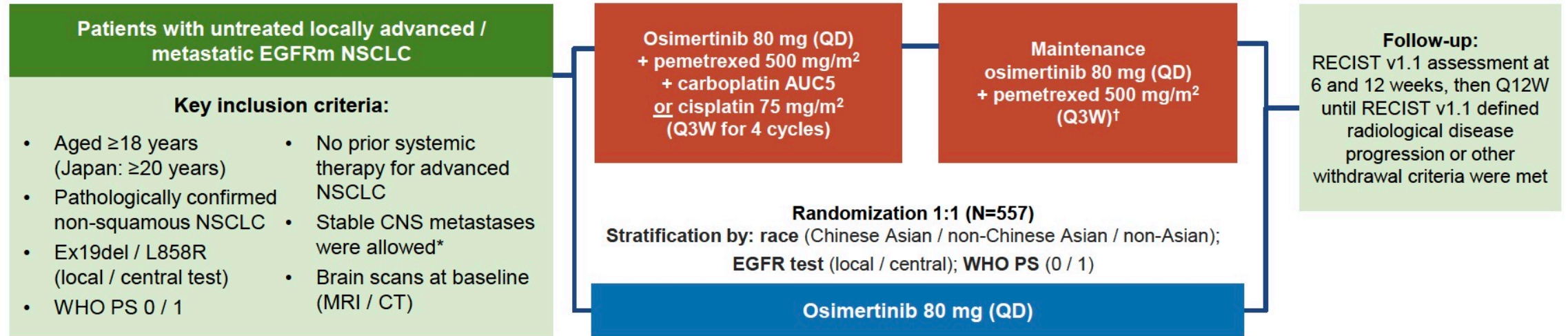


In FLAURA, 28% and 13% received osi for >3 yrs or 4.5 yrs

On study data for pts with exposure > 36mo

Adverse event, n (%)	FLAURA (n=76)	AURA program (n=124)
Any AE	73 (96)	123 (99)
Any treatment-related* AE	68 (89)	113 (91)
Any AE ≥Grade 3	27 (36)	48 (39)
Any treatment-related* AE ≥Grade 3	8 (11)	16 (13)
Any AE resulting in death (including TRAEs)*	0	1 (1)
Any SAE (including outcome of death)	13 (17)	44 (35)
Any treatment-related* SAE (including outcome of death)	2 (3)	6 (5)
Any SAE leading to interruption of treatment	8 (11)	19 (15)
Any SAE leading to discontinuation of treatment	0	2 (2)

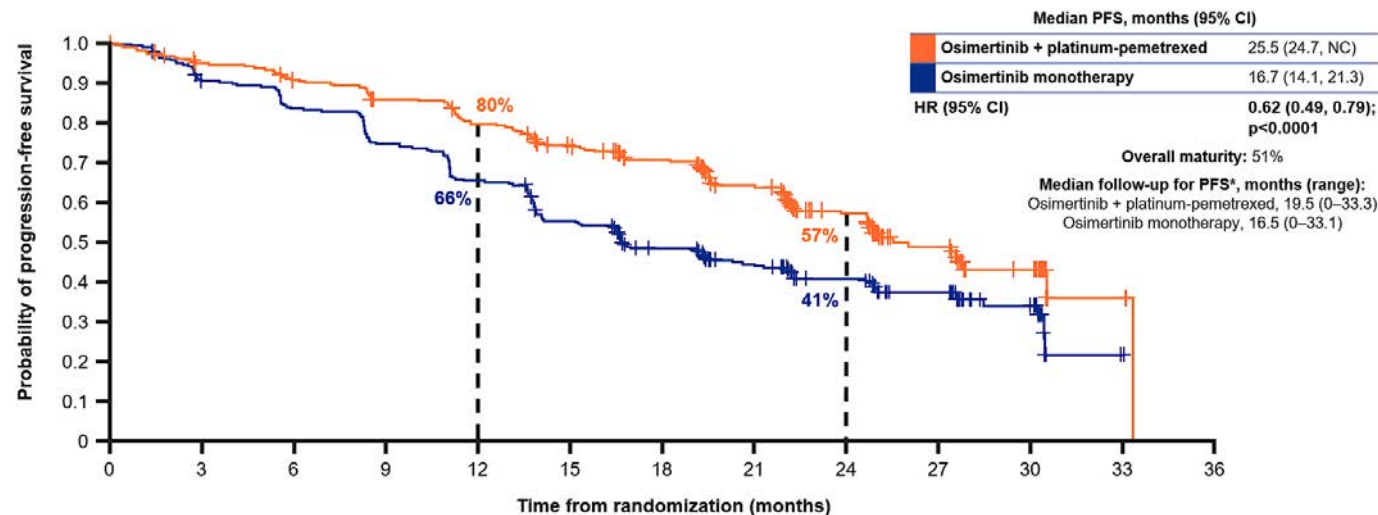
FLAURA2: Osimertinib + chemotherapy



- Primary endpoint:** PFS by investigator assessment per RECIST v1.1^{‡§}
- Secondary endpoints include:** OS, ORR, DoR, DCR, HRQoL and safety (AEs by CTCAE v5) and PFS2[‡]

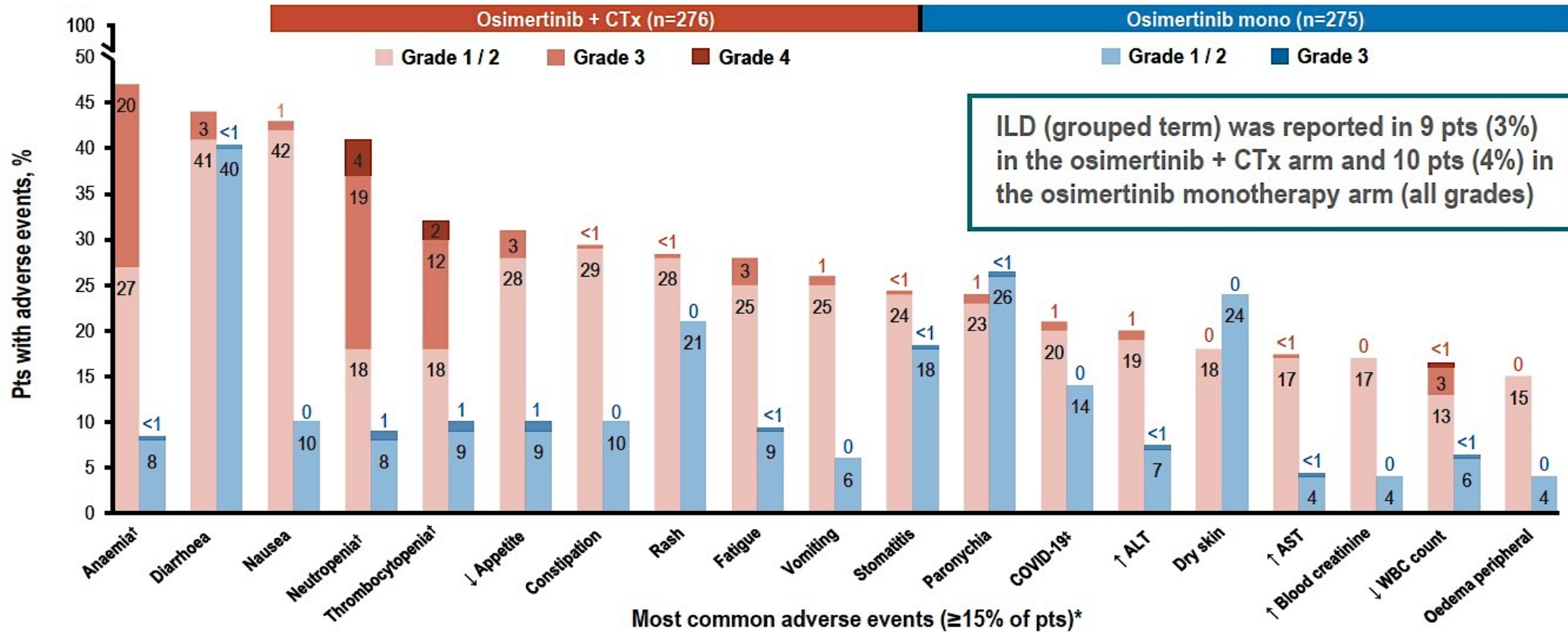
Progression-free survival per investigator

- Median PFS was improved by ~8.8 months with osimertinib plus platinum-pemetrexed vs osimertinib monotherapy



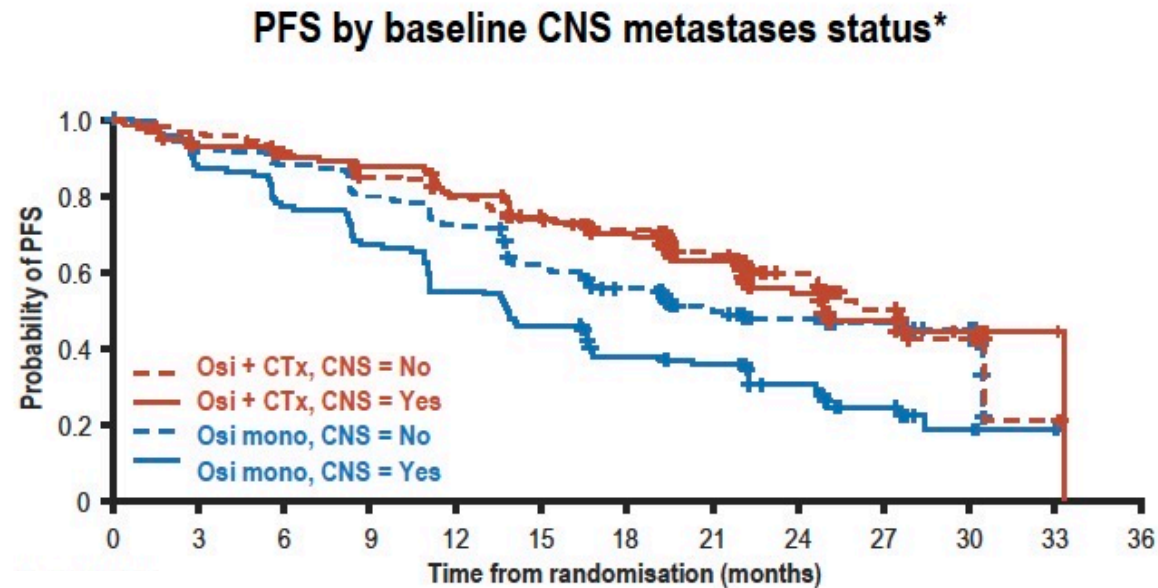
Clear PFS benefit ~ 9mo
HR 0.62 (CI 0.49-0.79)

Osimertinib + chemotherapy – Safety



- More toxicity than osimertinib monotherapy and for a longer duration
- Chemotherapy toxicities include cytopenia, renal insufficiency, edema
- QOL and financial cost of frequent infusions and clinic visits
- Using two lines of effective therapy in one line.

Osimertinib + chemotherapy – CNS efficacy



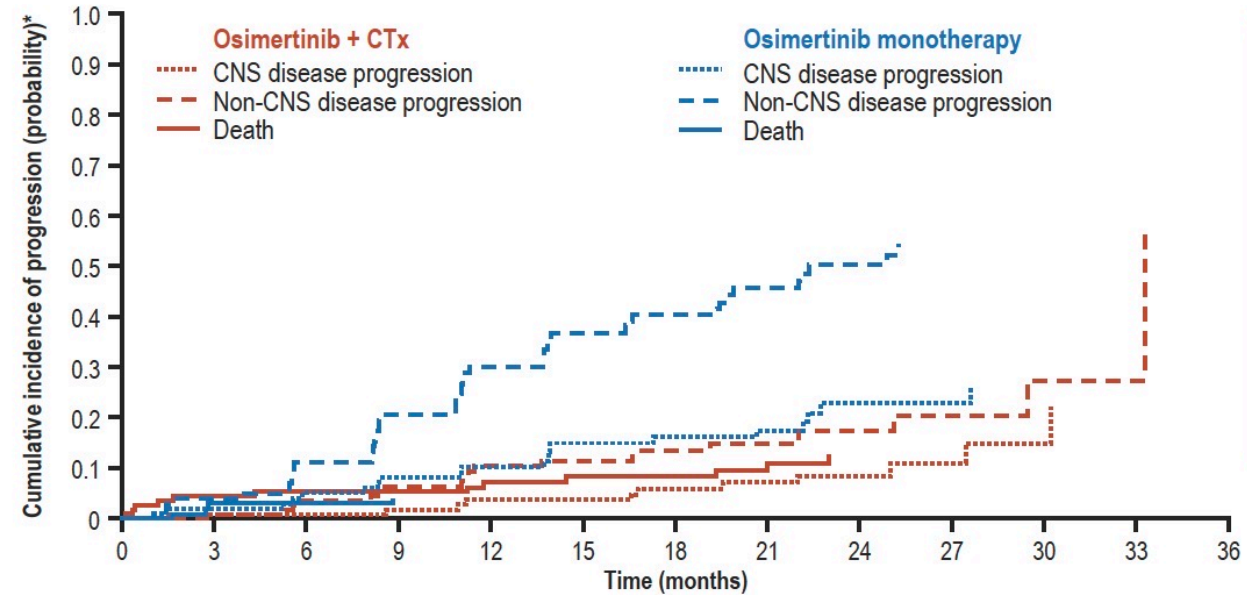
PFS w/ CNS mets

HR 0.47 (25 vs 14mo)

PFS w/o CNS mets

HR 0.75 (28 vs 21mo)

Not just prognostic but predictive – added benefit of chemo in pts with CNS metastases

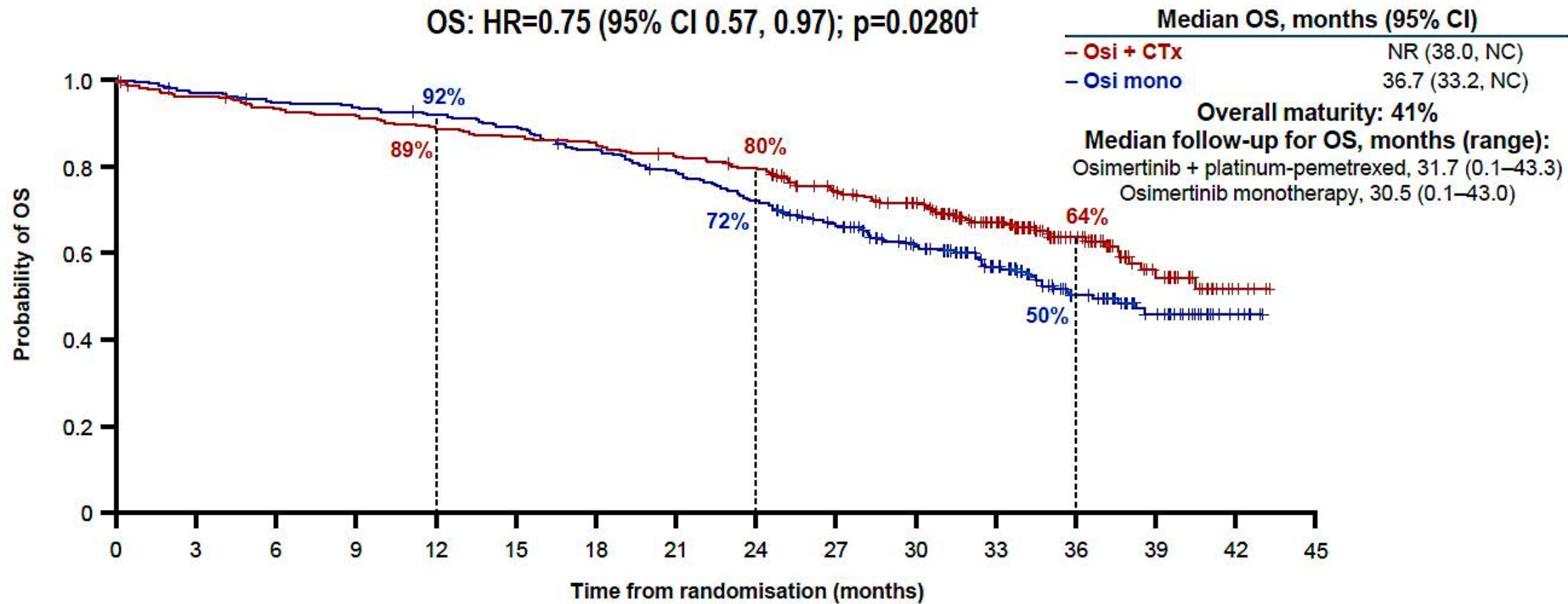


CNS

In pts with CNS metastases at baseline (by CNS BICR), the addition of CTx to osimertinib:

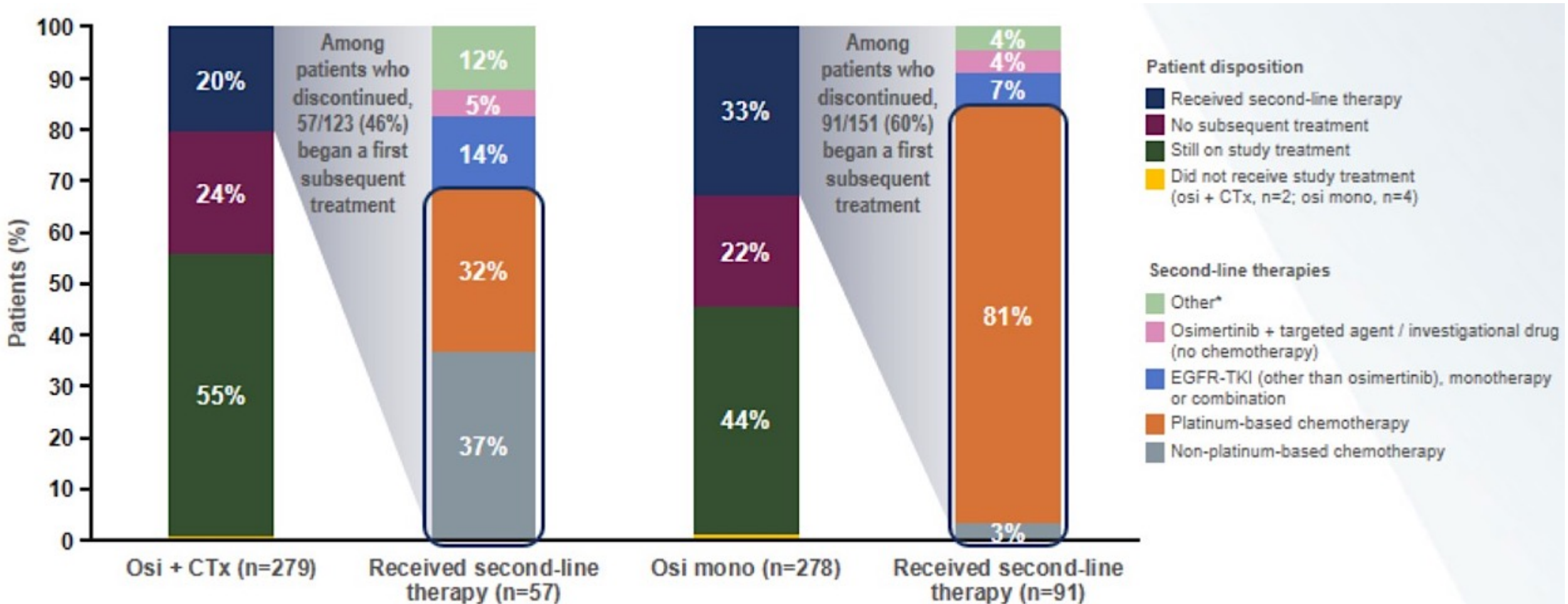
- Reduced the risk of CNS progression or death
 - cFAS: CNS PFS HR 0.58 (95% CI 0.33, 1.01)
 - cEFR: CNS PFS HR 0.40 (95% CI 0.19, 0.84)
- Increased CNS ORR, and the proportion of pts achieving CNS complete response
 - cFAS: complete responses 59% vs 43%
 - cEFR: complete responses 48% vs 16%
- Improved durability of CNS responses
 - cFAS: mDoR NR (95% CI 23.8, NC) vs 26.2 months (95% CI 19.4, NC)
 - cEFR: mDoR NR (95% CI 21.6, NC) vs 20.9 months (95% CI 12.6, NC)

Osimertinib + chemotherapy – Overall survival (immature)



Immature OS data (41% maturity)
Trend towards OS benefit, HR 0.75

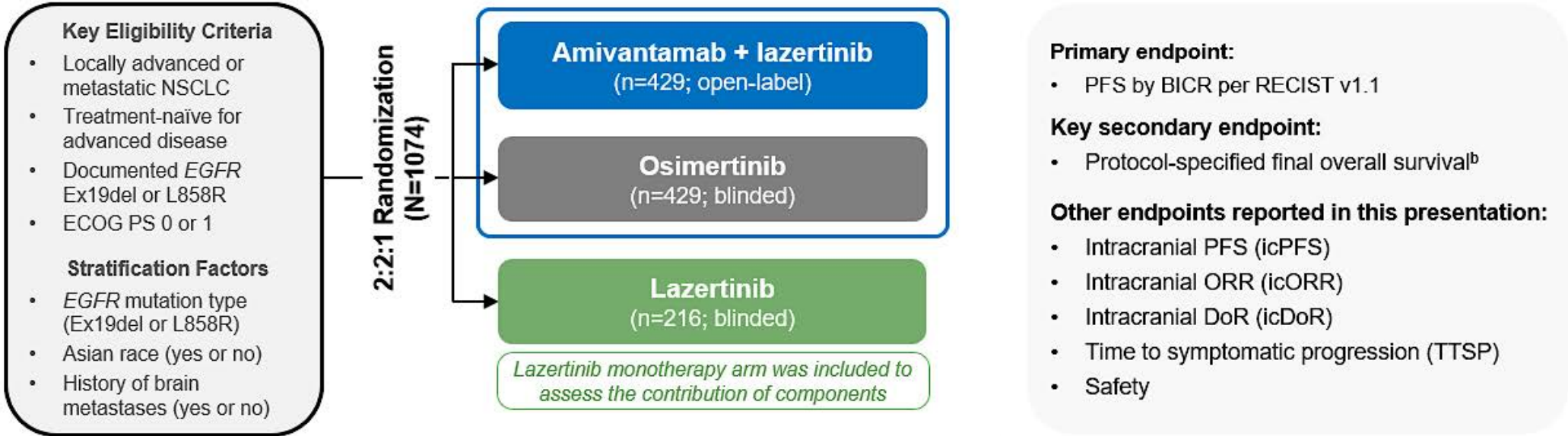
Osimertinib + chemotherapy



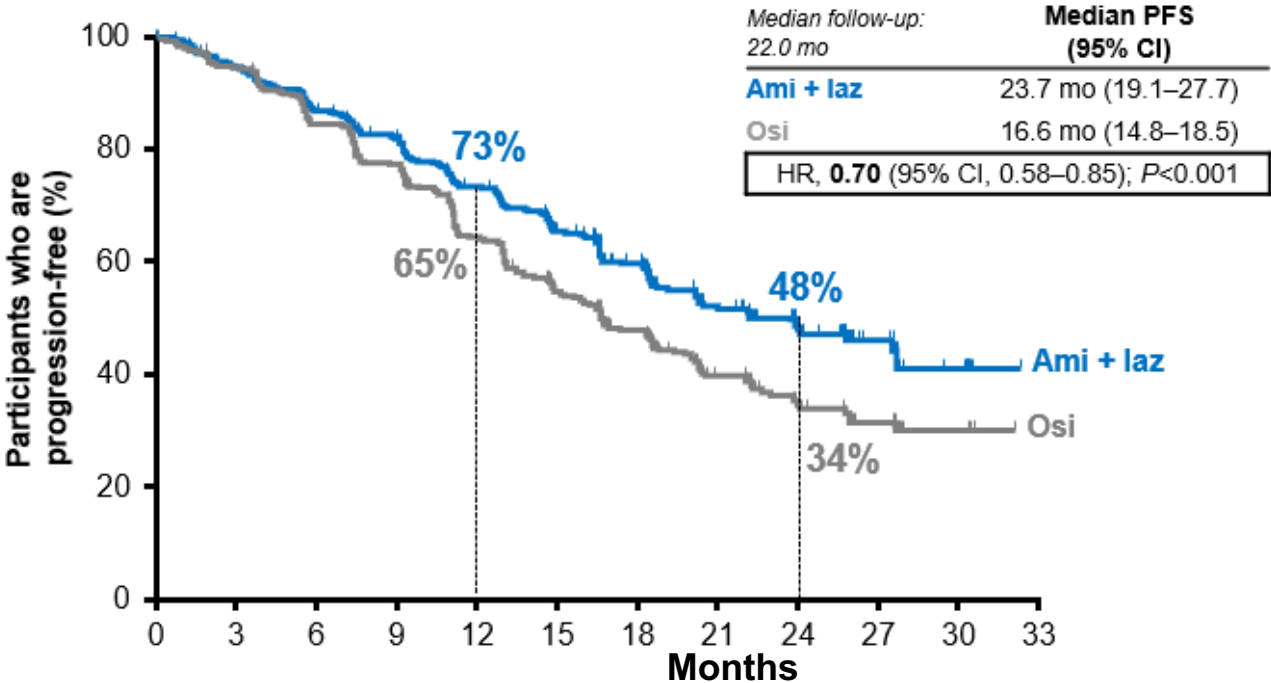
- Vast majority (81%) of pts on osimertinib received 2L platinum-based chemotherapy
- 22% of patients on osimertinib monotherapy did not receive subsequent 2L therapy

Use your best therapy first! Don't always get a second chance

Amivantamab + Lazertinib



PFS



Clear PFS benefit ~ 7mo
HR 0.70 (CI 0.58-0.85)

Amivantamab + Lazertinib – Safety

TEAEs, n (%)	Amivantamab + Lazertinib (n=421)	Osimertinib (n=428)
Any AE	421 (100)	425 (99)
Grade ≥3 AEs	316 (75)	183 (43)
Serious AEs	205 (49)	143 (33)
AEs leading to death	34 (8)	31 (7)
Any AE leading to:		
Treatment interruptions of any agent	350 (83)	165 (39)
Treatment reductions of any agent	249 (59)	23 (5)
Treatment discontinuations of any agent	147 (35)	58 (14)

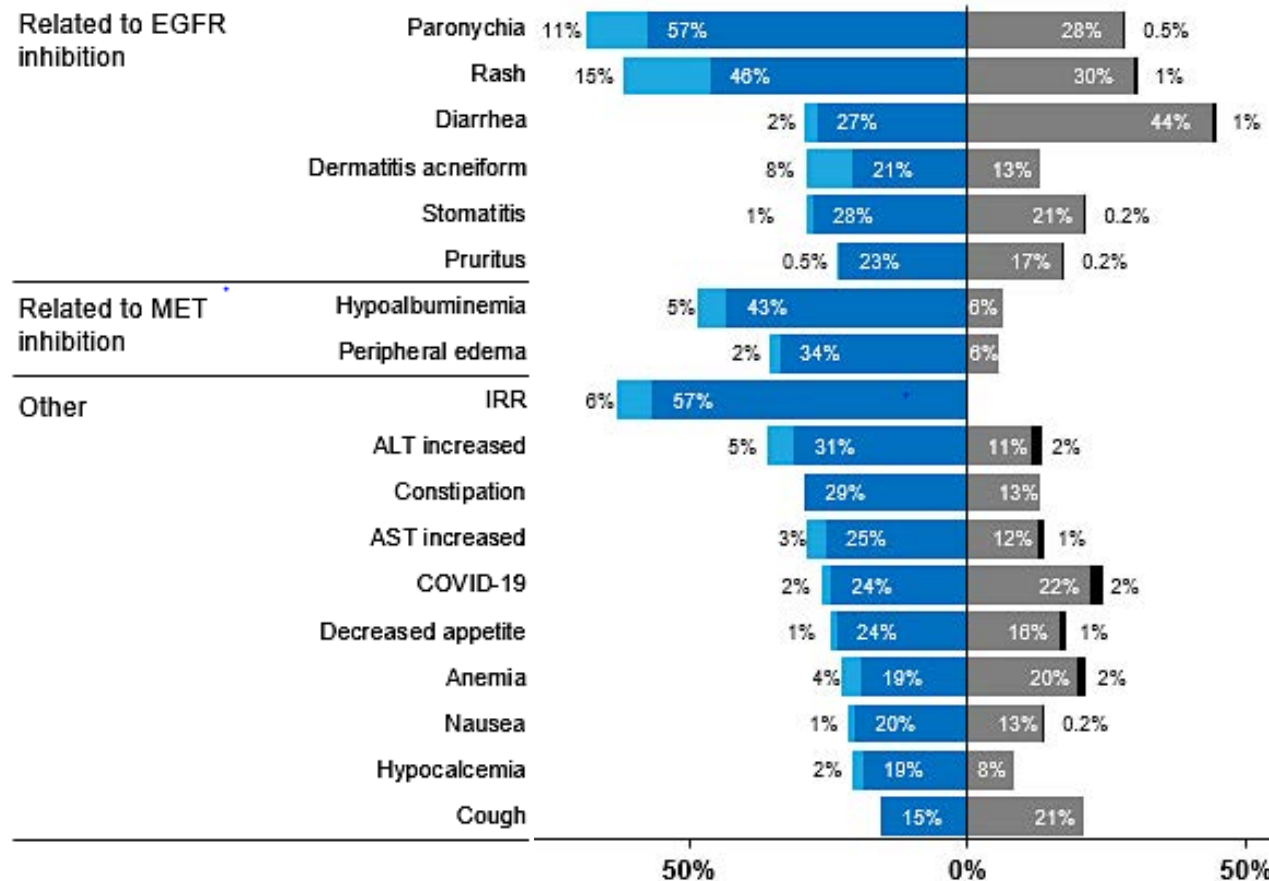
	Amivantamab + Lazertinib (n=421)	Osimertinib (n=428)
Any VTE, n (%)	157 (37)	39 (9)
Grade 1	5 (1)	0
Grade 2	105 (25)	24 (6)
Grade 3	43 (10)	12 (3)

- More toxicity than osimertinib monotherapy and for a longer duration

Wild type EFR toxicity (paronychia, acneiform rash), MET toxicity (swelling) and VTE (37%).

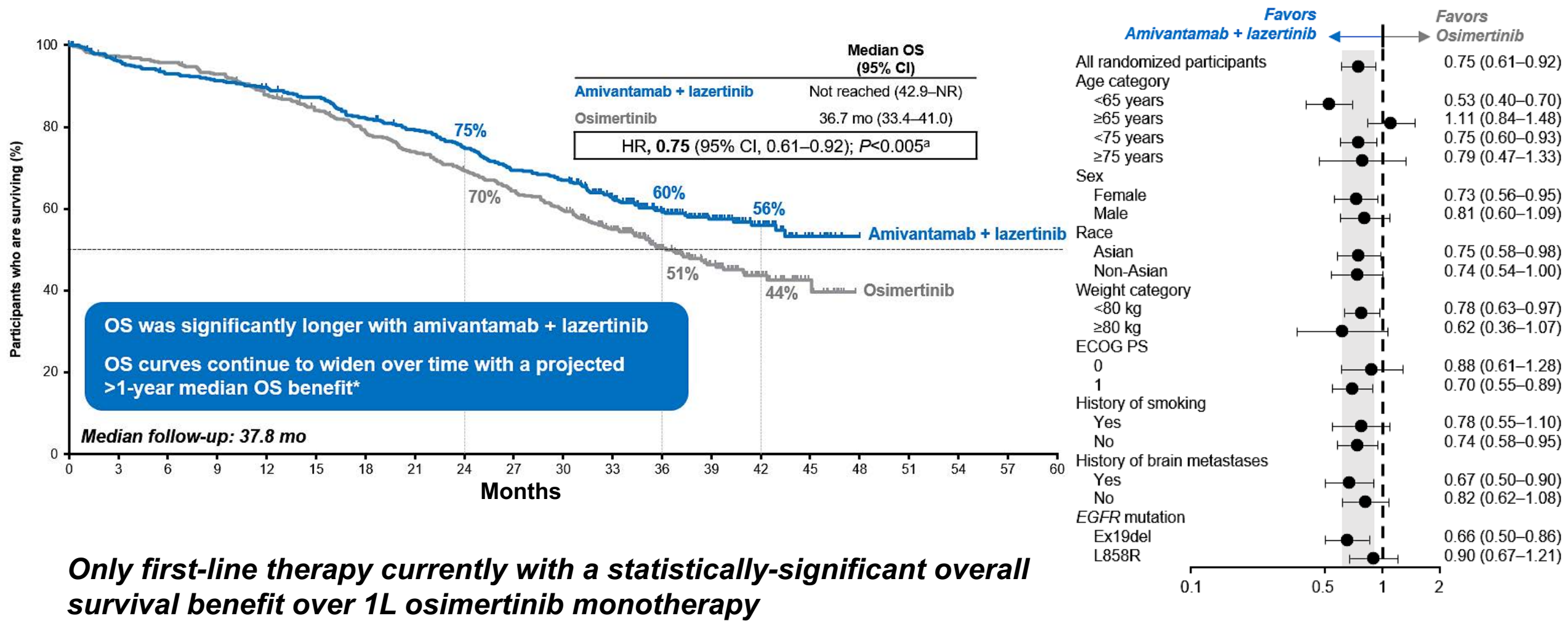
- QOL and financial cost of frequent infusions and clinic visits

Most common TEAEs (≥20%) by preferred term, n (%)



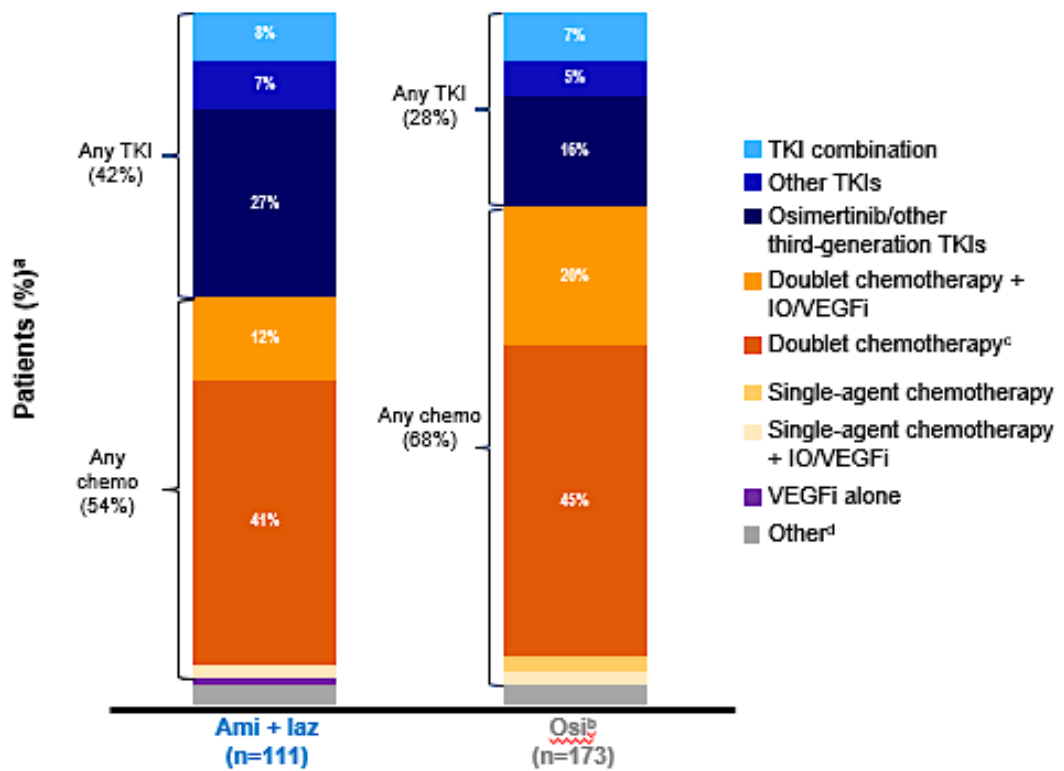
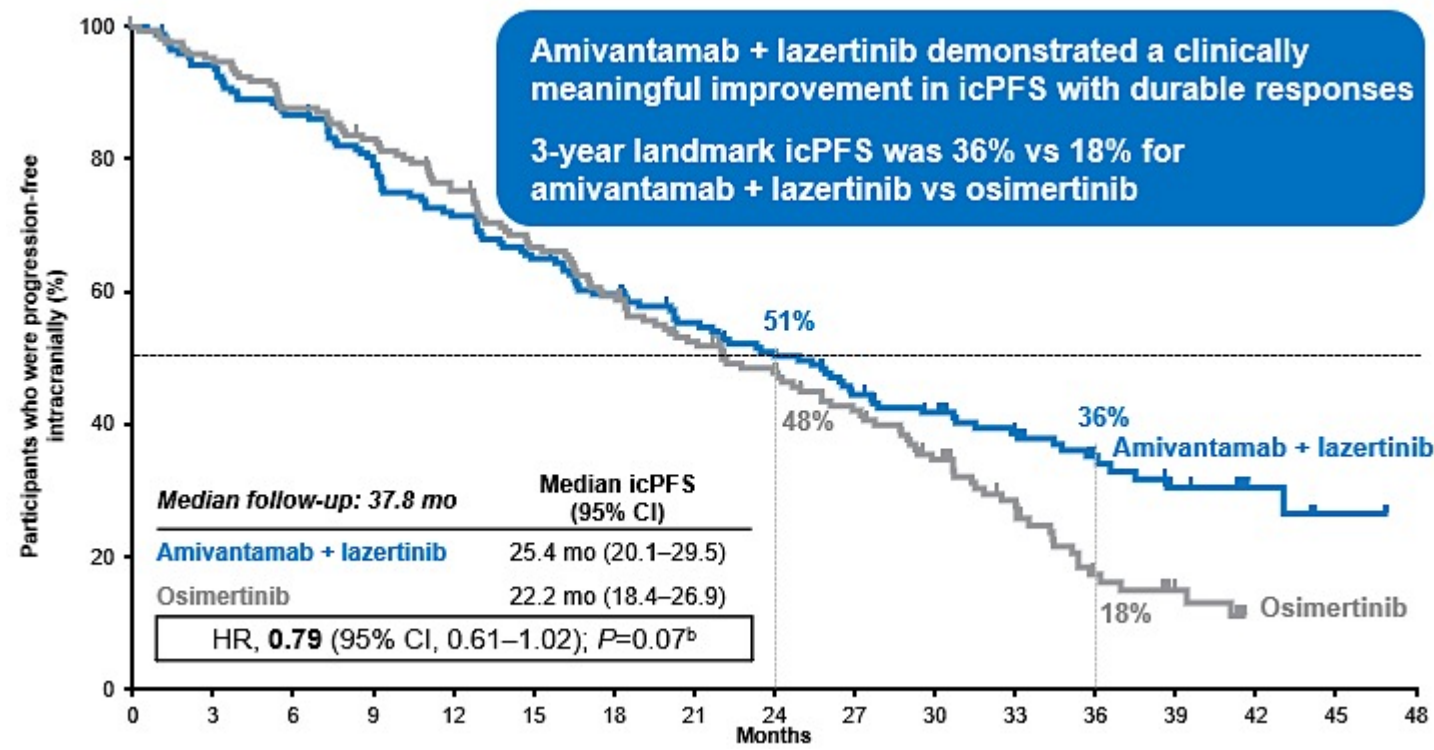
- Rash, paronychia, stomatitis, VTE all front-loaded in first 4 mo
- COCOON trial, SKIPPirr and anticoagulation all significantly decrease rash, IRR and VTE events

Amivantamab + Lazertinib – Overall Survival



Only first-line therapy currently with a statistically-significant overall survival benefit over 1L osimertinib monotherapy

Amivantamab + Lazertinib – CNS Efficacy



Improved CNS control with Amivantamab and lazertinib

3 yr landmark icPFS 36 vs 18%

How to interpret OS in the setting of no crossover?

3/173 (1%) pts in osimertinib arm received Amivantamab

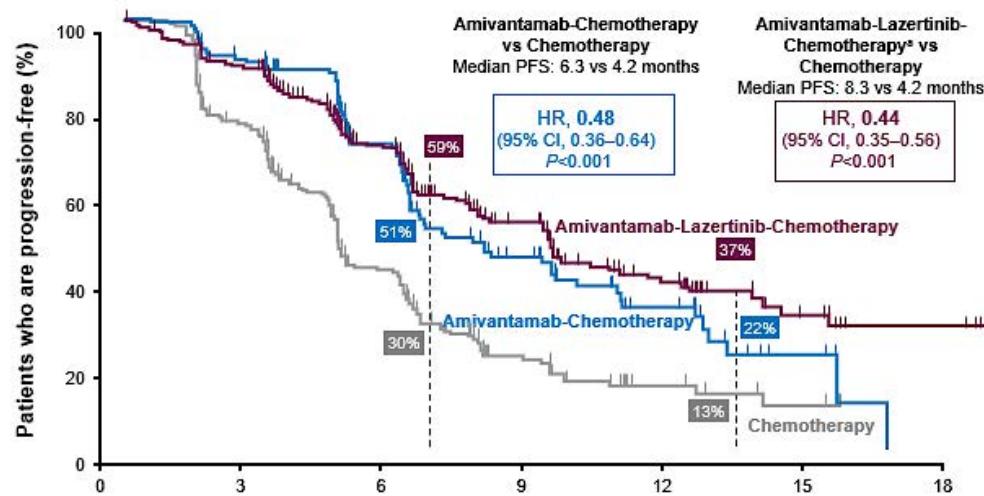
We have access to these drugs in the second-line setting.

How do we best sequence when we balance efficacy and toxicity?

Amivantamab – use in 1L vs second-line

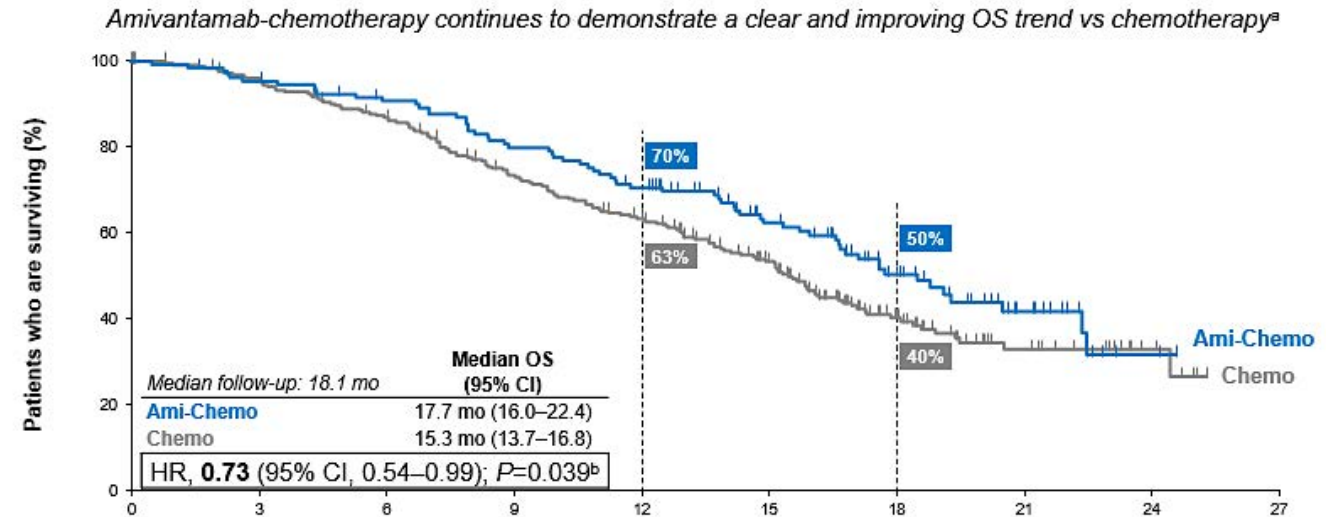
PFS: MARIPOSA 2

Primary Endpoint: Progression-free Survival by BICR



OS: MARIPOSA 2

Overall Survival



Chemotherapy with Amivantamab approved as a 2L therapy after osimertinib

MARIPOSA OS benefit – does it demonstrate survival benefit of amivantamab anytime vs no amivantamab?

MARIPOSA2 chemotherapy arm with n=3 (2%) with amivantamab in subsequent line of therapy – OS HR 0.73 (NS)

Perhaps better to reserve efficacious, but more toxic therapy for later-line, when other options are limited

What do patients want?

Patient Perspective: Patients With EGFR+ NSCLC May Still Opt for Quality Over Quantity After FLAURA2

How will my husband keep working if he has to take care of me?
 What will my quality of life on treatment be like?
 Will I still be able to be an active participant in my family's lives?
 How will this impact us financially?



By: Ivy Elkins, MBA

I obviously wanted to extend my life as long as possible, but I also had concerns about what that life would be like. I think this is the true crux of the issue regarding combining chemotherapy and osimertinib upfront. Patients want improved efficacy, but not necessarily at the expense of their quality of life. Combination treatment comes with increased toxicities, which make maintaining a normal life more difficult. Even grade 1 side effects such as diarrhea or nausea can make it difficult to hold a job or enjoy activities. Increased side effects also come with more doctor's appointments and additional medications to treat these issues. Many of these medications are not covered

Because of my ability to take an EGFR targeted therapy, I was able to actively raise my children, get involved in advocacy work for lung cancer research, and travel for both advocacy and personal reasons. I was able to limit my scans and visits to my oncologist to every 3 months as long as I was doing well on a treatment. And I was able to live my life fairly normally the rest of the time. I wasn't tied to an every-three-week chemotherapy cycle. I could "forget" (even though I never really forgot) that I had advanced lung cancer for more extended periods of time.

A possible additional 9 months of PFS would not have been enough for me to choose to start treatment with a combination of chemotherapy and osimertinib.

FINANCIAL COST

Estimated monthly OOP costs \$316-741

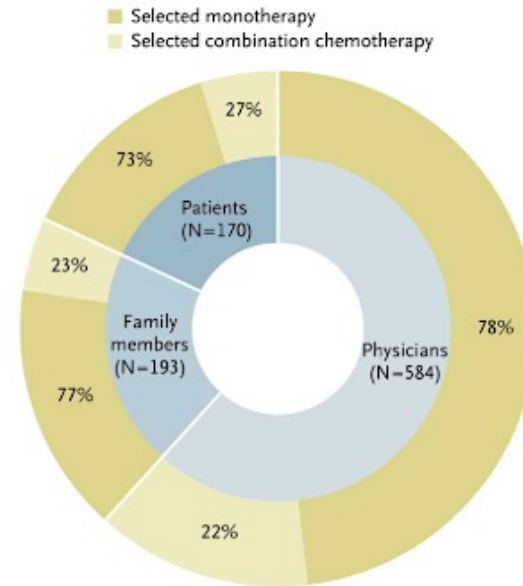
Only 54% of NCI-designated cancer centers have free parking

Lung cancer specifically:

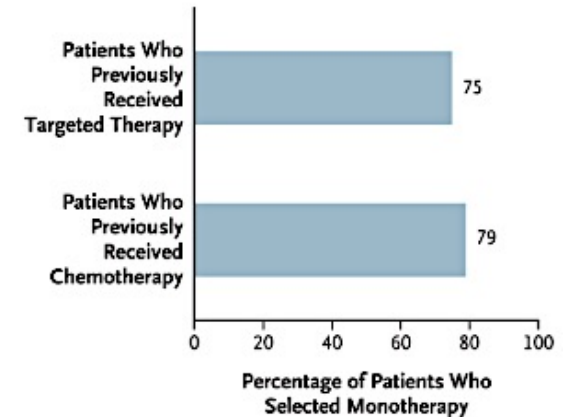
At 6 mo follow up, 28% made sacrifices to pay for care (savings, borrowing)

18% could not afford basic necessities (gas, food, bills)

A Survey of Patients, Family Members, and Physicians

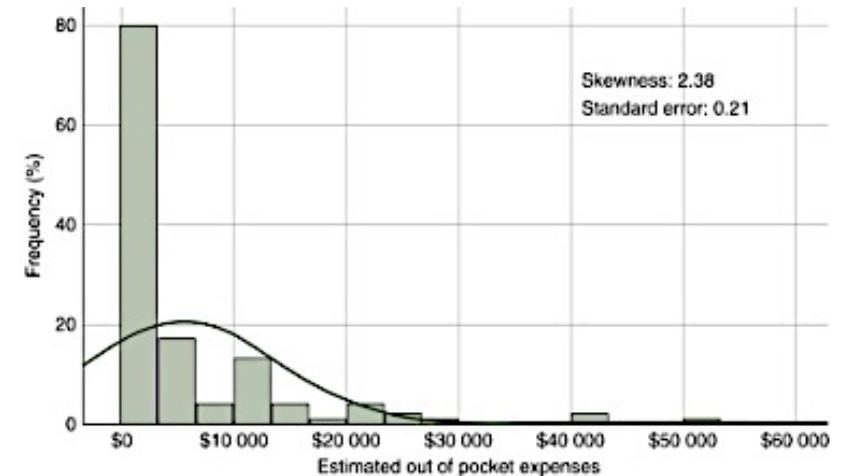


B Patients' Preference for Monotherapy over Combination Chemotherapy



- Chinese Thoracic Oncology Group Survey – 170 pts, 193 family members, 584 MDs
- Told that combination therapy would delay recurrence by 9 months

Estimated out of pocket costs for next 6 mo. for pts with lung cancer



Risk-adaptive treatment strategies

*Should we treat these patients the same? Right now, we do.
What factors can we use to risk-adapt treatment?*

76 yo, EGFR ex19 deletion only
Asymptomatic
Oligometastatic disease
Thoracic only disease
Slow growing
ctDNA neg
On osimertinib x 4 years

Median PFS on
1L osimertinib
↓
19 months

52yo, EGFR G719A, TP53, RB1
High symptom burden
Diffuse mets including brain, liver,
bone
Large tumor burden
ctDNA pos at 3 weeks
Progression within 4 mo on
osimertinib

LOW RISK

HIGH RISK

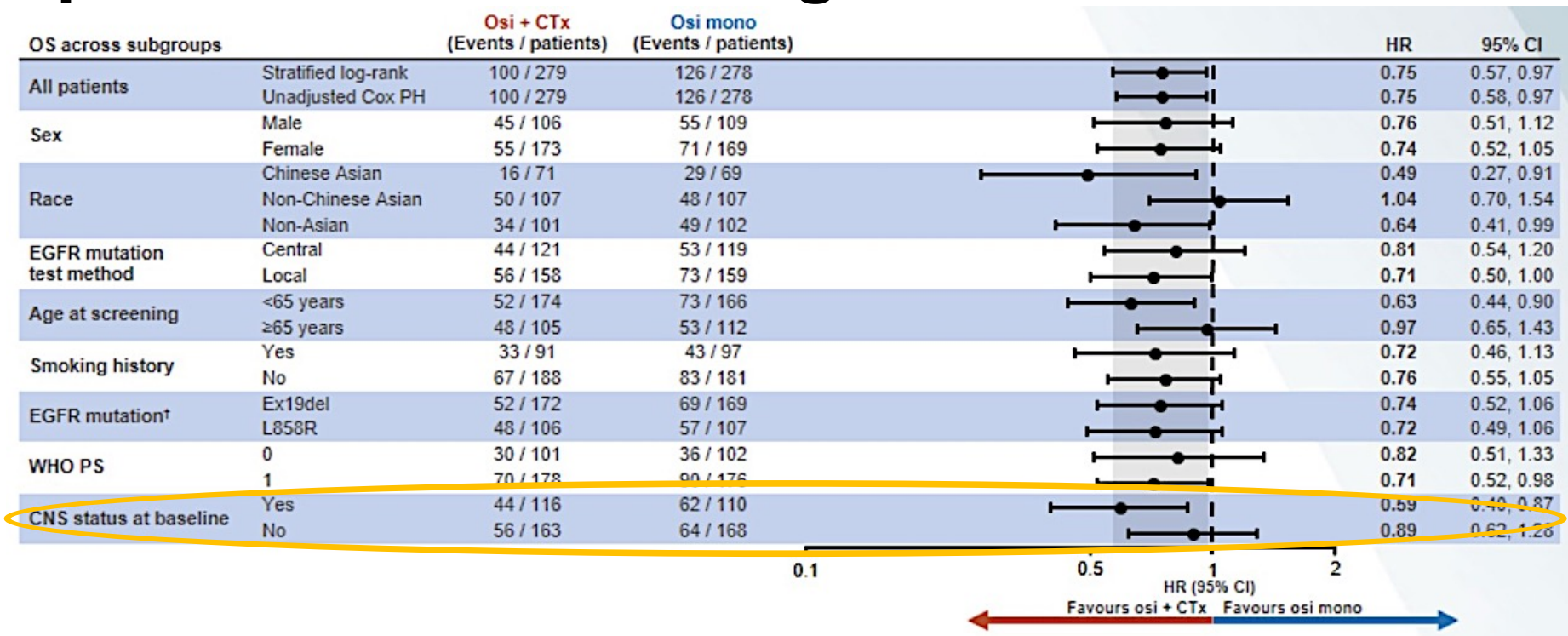
Increasing risk

How do we escalate treatment?

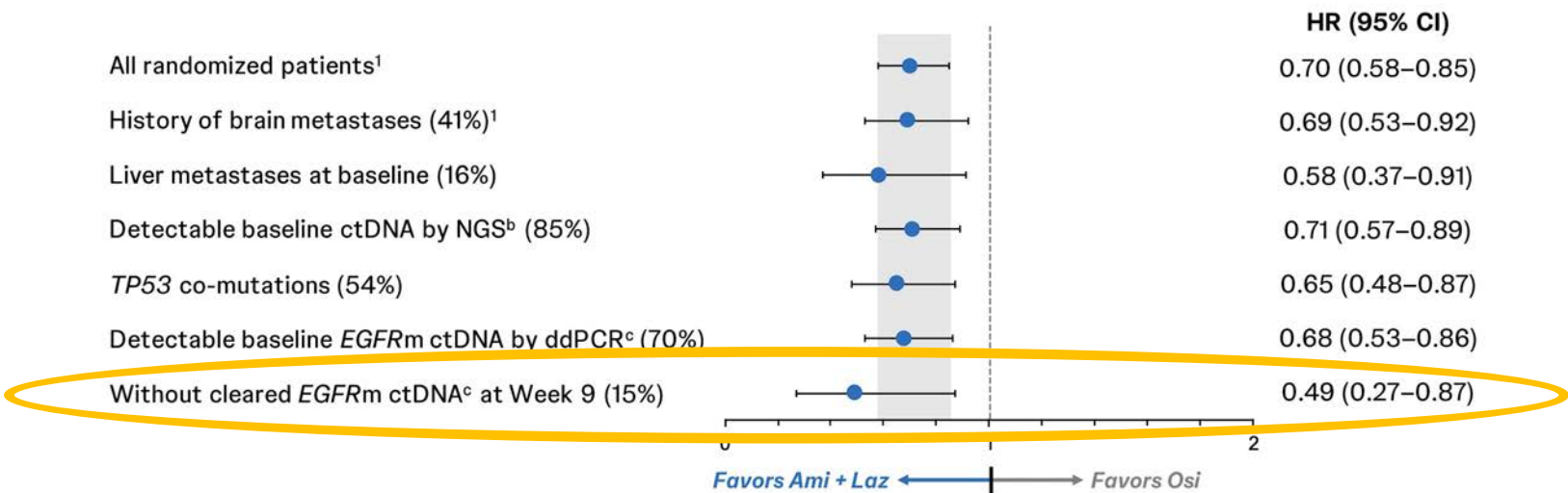
Who do we escalate?

At what timepoint should we escalate?

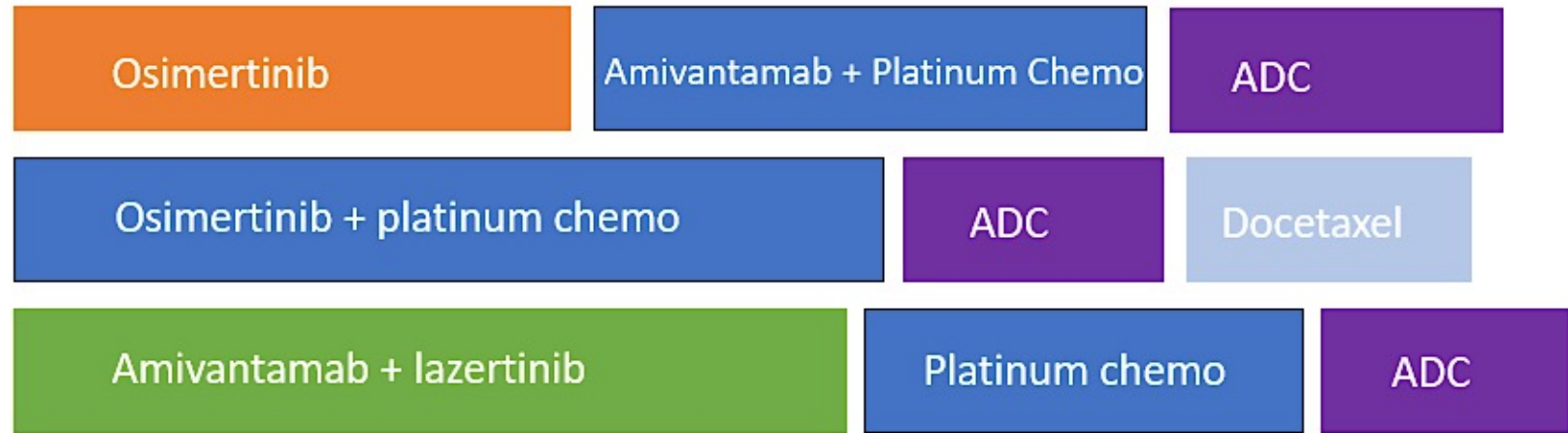
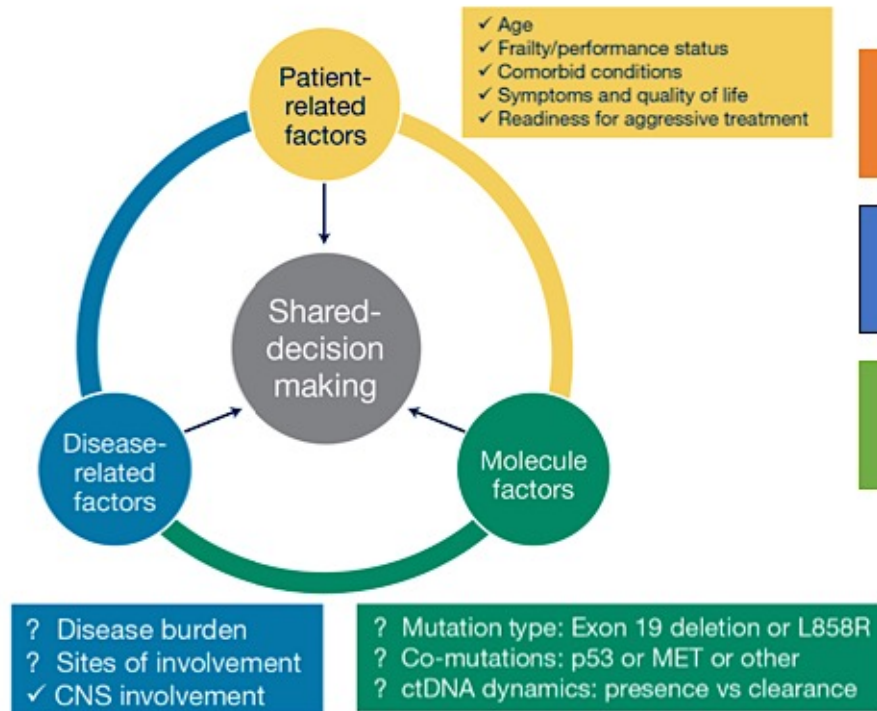
Risk-adaptive treatment strategies



Propose that CNS mets and lack of ctDNA clearance may be reasonable risk-stratification biomarkers



No size fits all: shared decision making + risk stratification



Risk stratification will select pts who need the most aggressive treatment upfront.

For low-risk patients, optimizing QOL and sequencing therapies considering toxicity makes sense.

With clear OS benefit with combination therapy, can opt out of combination therapy for treatment de-escalation.

Regulatory and reimbursement issues aside, which first-line systemic therapy would you recommend for an otherwise healthy 65-year-old patient with nonsquamous mNSCLC with minimal disease burden and symptoms and an EGFR exon 19 deletion, and a PD-L1 tumor proportion score (TPS) of 0?



Prof Girard

Amivantamab/lazertinib



Dr Goldman

Osimertinib + chemotherapy



Dr Jänne

Osimertinib



Dr Ramalingam

Osimertinib



Dr Sabari

Amivantamab/lazertinib



Dr Yu

Osimertinib



Dr Gadgeel

Osimertinib



Dr Spira

Osimertinib

Regulatory and reimbursement issues aside, which first-line systemic therapy would you recommend for an otherwise healthy 65-year-old patient with symptomatic nonsquamous mNSCLC with significant tumor bulk and disease burden (excluding the brain) and an EGFR exon 19 deletion, and a PD-L1 tumor proportion score (TPS) of 0?



Prof Girard

Amivantamab/lazertinib



Dr Goldman

Amivantamab/lazertinib



Dr Jänne

Osimertinib + chemotherapy



Dr Ramalingam

Osimertinib + chemotherapy



Dr Sabari

Amivantamab/lazertinib



Dr Yu

Osimertinib + chemotherapy



Dr Gadgeel

Amivantamab/lazertinib



Dr Spira

Amivantamab/lazertinib

Regulatory and reimbursement issues aside, which first-line systemic therapy would you recommend for an otherwise healthy 85-year-old patient with symptomatic nonsquamous mNSCLC with significant tumor bulk and disease burden (excluding the brain) and an EGFR exon 19 deletion, and a PD-L1 tumor proportion score (TPS) of 0?



Prof Girard

Osimertinib



Dr Goldman

Osimertinib



Dr Jänne

Osimertinib



Dr Ramalingam

Osimertinib



Dr Sabari

Osimertinib



Dr Yu

Osimertinib



Dr Gadgeel

Osimertinib



Dr Spira

Osimertinib

Regulatory and reimbursement issues aside, which first-line systemic therapy would you recommend for an otherwise healthy 65-year-old patient with nonsquamous mNSCLC with several symptomatic small brain metastases and an EGFR exon 19 deletion, and a PD-L1 tumor proportion score (TPS) of 0?



Prof Girard

Amivantamab/lazertinib



Dr Goldman

Amivantamab/lazertinib



Dr Jänne

Osimertinib + chemotherapy



Dr Ramalingam

Osimertinib + chemotherapy



Dr Sabari

Amivantamab/lazertinib



Dr Yu

Osimertinib + chemotherapy



Dr Gadgeel

Amivantamab/lazertinib



Dr Spira

Osimertinib

Regulatory and reimbursement issues aside, which first-line systemic therapy would you recommend for a 65-year-old patient with nonsquamous mNSCLC with an EGFR exon 19 deletion, loss of TP53 and RB1, and a PD-L1 TPS of 0?



Prof Girard

Amivantamab/lazertinib



Dr Goldman

Amivantamab/lazertinib



Dr Jänne

Osimertinib + chemotherapy



Dr Ramalingam

Osimertinib + chemotherapy



Dr Sabari

Amivantamab/lazertinib



Dr Yu

Osimertinib + chemotherapy



Dr Gadgeel









Amivantamab/lazertinib



Dr Spira

Amivantamab/lazertinib

Regulatory and reimbursement issues aside, what treatment would you recommend for a patient with locally advanced unresectable nonsquamous NSCLC with an EGFR exon 19 deletion and a PD-L1 TPS of 0 who received chemoradiation therapy followed by 2 years of osimertinib and experienced disease progression as described?

		9 months	2.5 years
	Prof Girard	Amivantamab + chemotherapy or ivonescimab	Amivantamab/lazertinib
	Dr Goldman	Amivantamab/lazertinib	Amivantamab/lazertinib
	Dr Jänne	Osimertinib	Osimertinib
	Dr Ramalingam	Osimertinib	Osimertinib
	Dr Sabari	Amivantamab/lazertinib	Amivantamab/lazertinib
	Dr Yu	Amivantamab/lazertinib	Osimertinib + chemotherapy
	Dr Gadgeel	Amivantamab/lazertinib	Amivantamab/lazertinib
	Dr Spira	Amivantamab/lazertinib	Amivantamab/lazertinib

Agenda

MODULE 1: Evolving First-Line Treatment for Metastatic EGFR Mutation-Positive Non-Small Cell Lung Cancer (NSCLC) — Dr Yu

MODULE 2: EGFR-Targeted Approaches for Relapsed EGFR-Mutant NSCLC; Strategies to Facilitate Delivery of Recently Approved Agents — Dr Sabari

MODULE 3: Potential Utility of TROP2-Targeted Therapy in the Management of EGFR-Mutant NSCLC — Dr Ramalingam

MODULE 4: Contemporary Care for Patients with Nonmetastatic EGFR-Mutant NSCLC — Dr Goldman

MODULE 5: Current and Future Management of EGFR Exon 20 Mutation-Positive NSCLC — Prof Girard

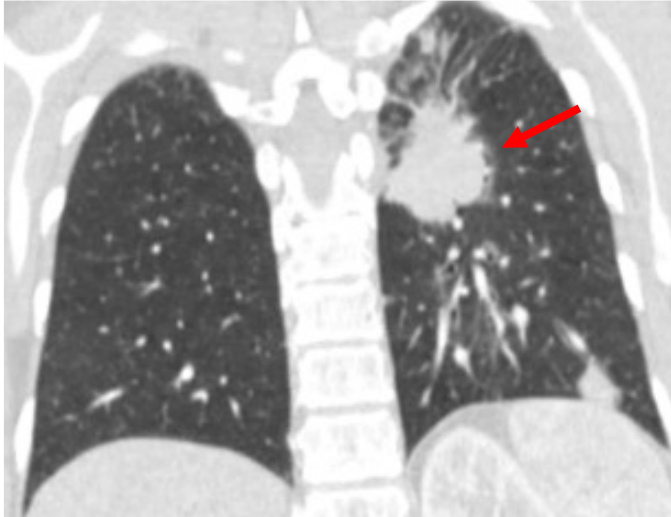
MODULE 6: Emerging Role of HER3-Targeted Therapy in the Management of EGFR-Mutant NSCLC — Dr Jänne

EGFR-Targeted Approaches for Relapsed EGFR-Mutant NSCLC: Strategies to Facilitate Delivery of Recently Approved Agents

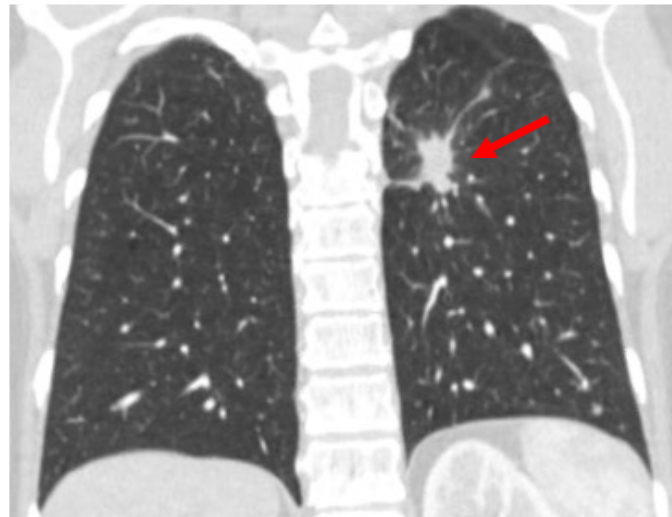
Joshua Sabari, MD
NYU Langone Health
New York, NY

Acquired Resistance

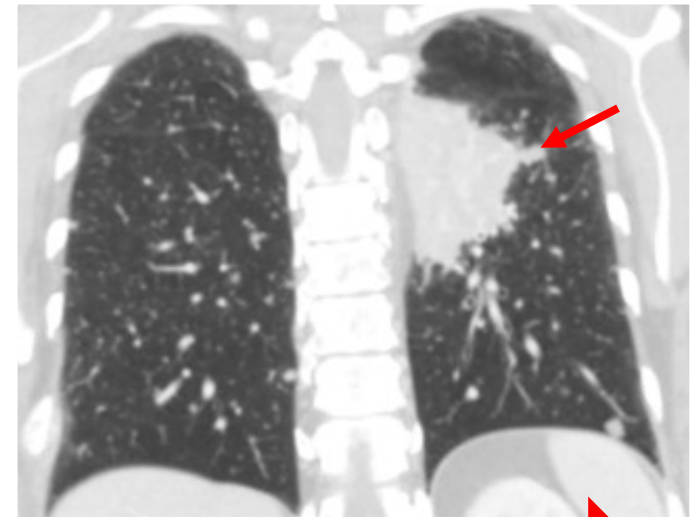
EGFR mutant NSCLC



Baseline



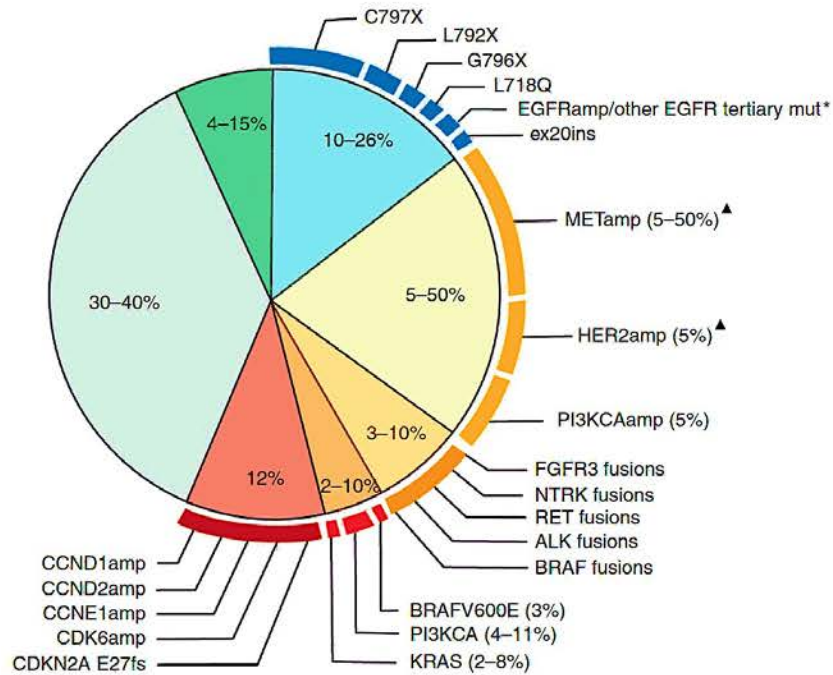
Response



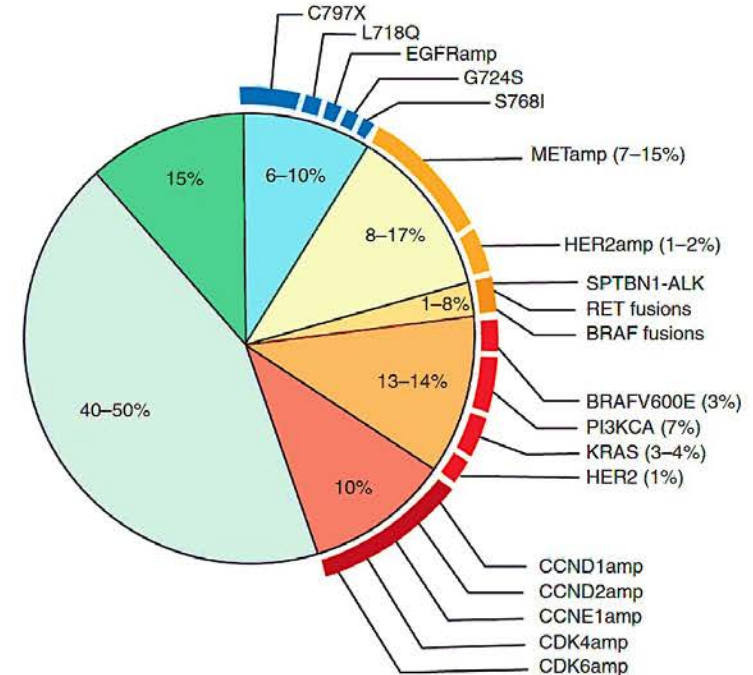
Resistance

Resistance Mechanisms to EGFR TKI

Resistance mechanisms to second-line osimertinib



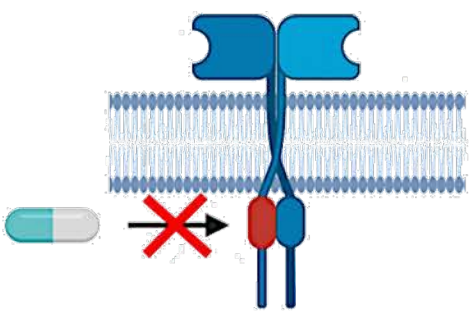
Resistance mechanisms to first-line osimertinib



- **EGFR T790M** is the predominant mechanism with 1st and 2nd generation TKIs
- Acquired *EGFR* or *HER2* mutations, and *EGFR*, *HER2*, or *MET* amplification are common with first-line osimertinib
 - ✓ Other mechanisms include acquired cell cycle gene alterations, MAPK-PIK3CA alterations (*BRAF V600E*, *KRAS*), and acquired oncogenic fusions (*ALK*, *RET*)

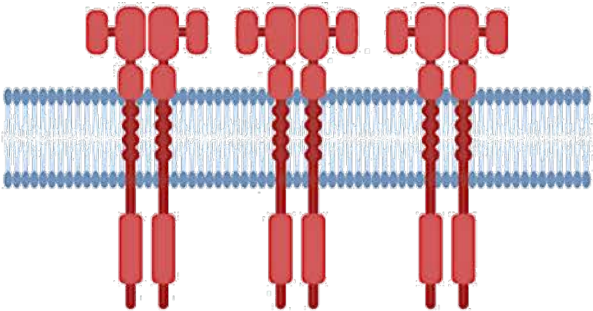
Mechanisms of Resistance to TKI

Mutations in the Drug Target

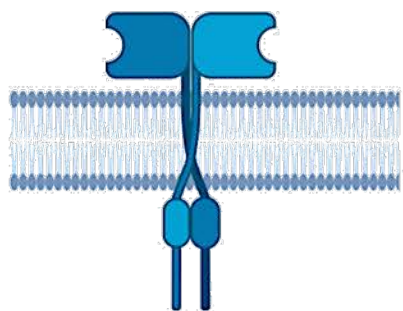


Impact drug binding

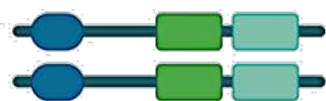
Bypass Signaling



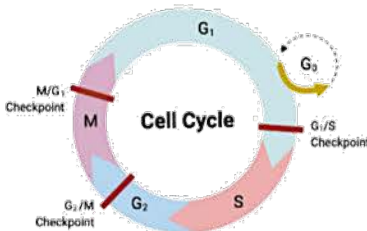
Mutations in Downstream Effectors



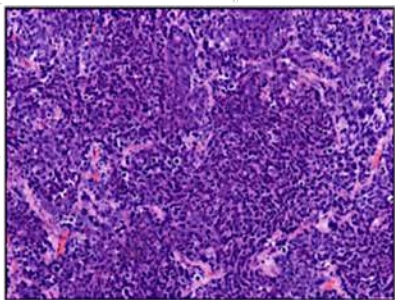
Oncogene Amplification



Oncogene Rearrangement



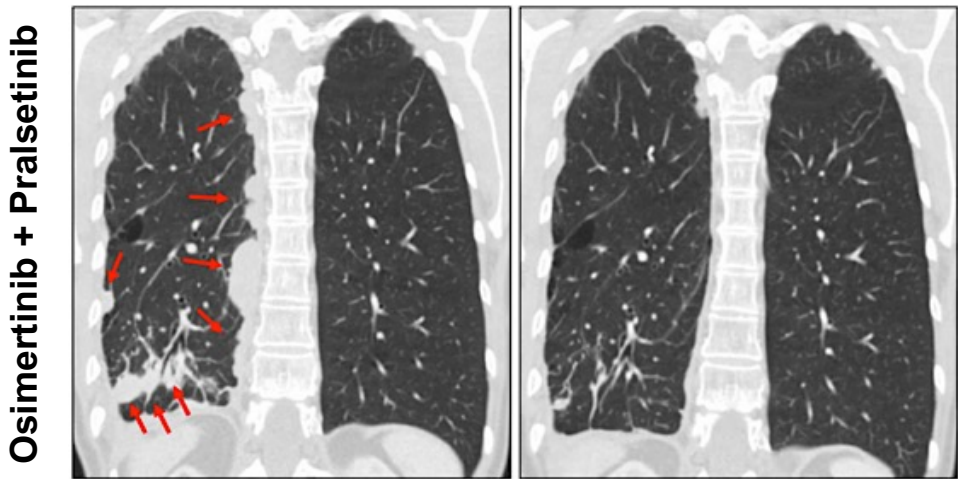
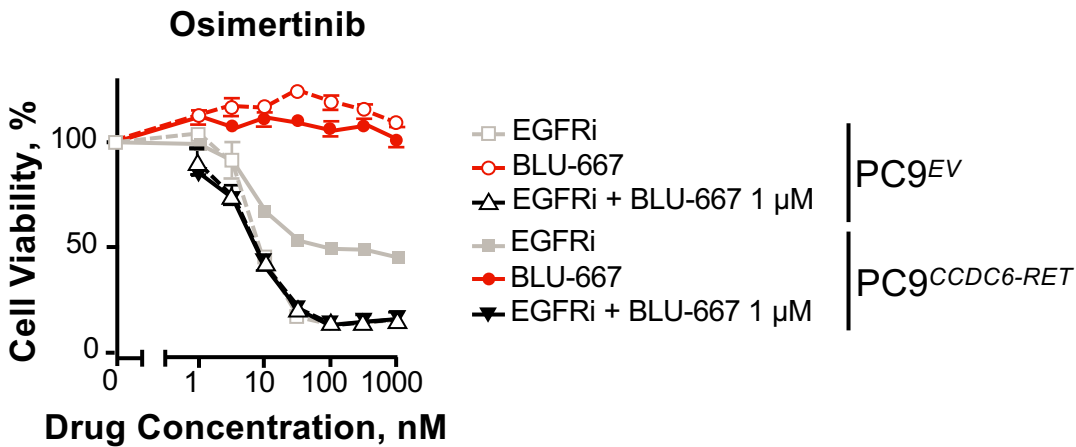
State Transformation



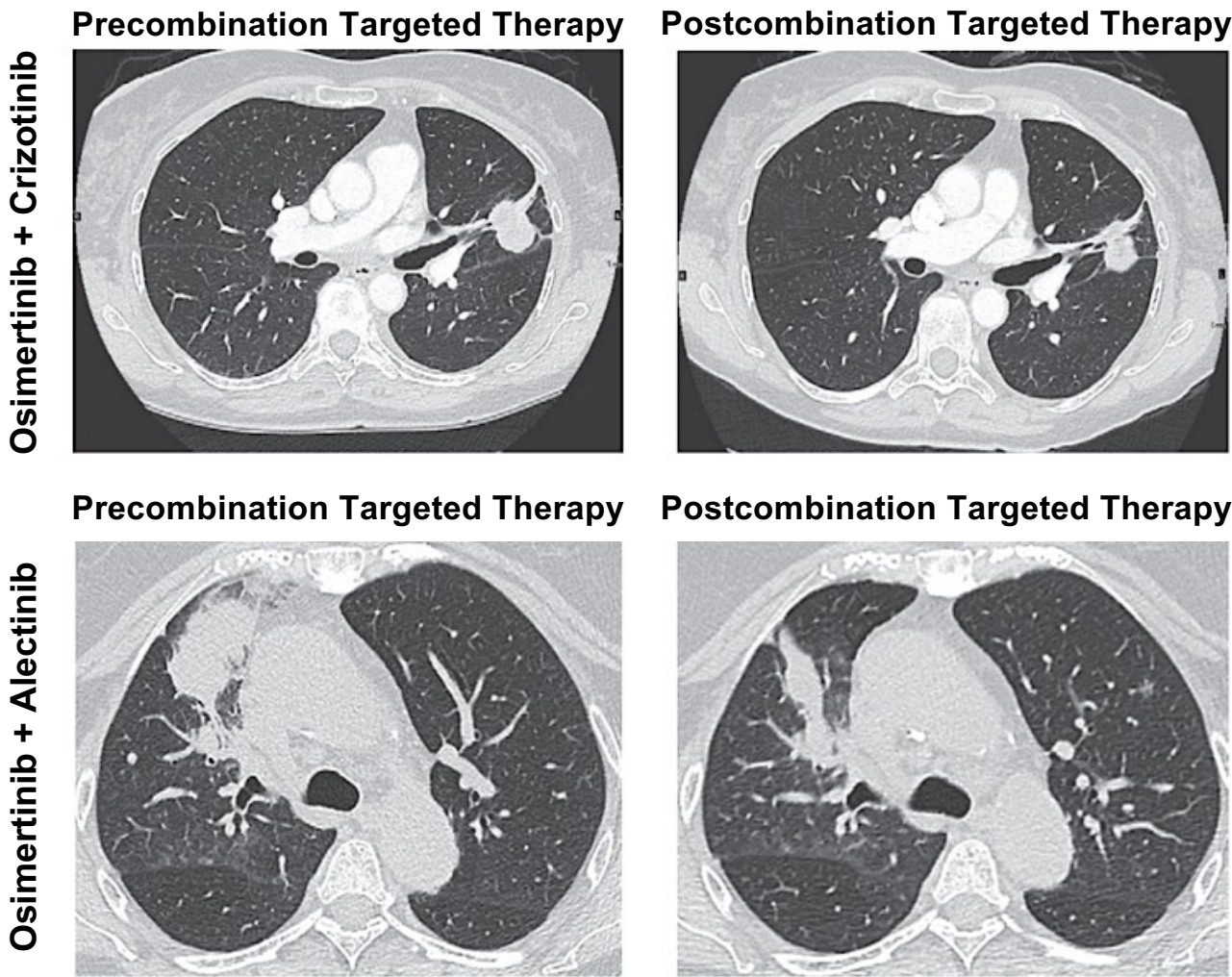
Small cell lung cancer
Squamous cell lung cancer

Targeting Acquired *RET*, *ALK*, and Other Fusions

Acquired *RET* Fusions



Acquired *ALK* Fusions

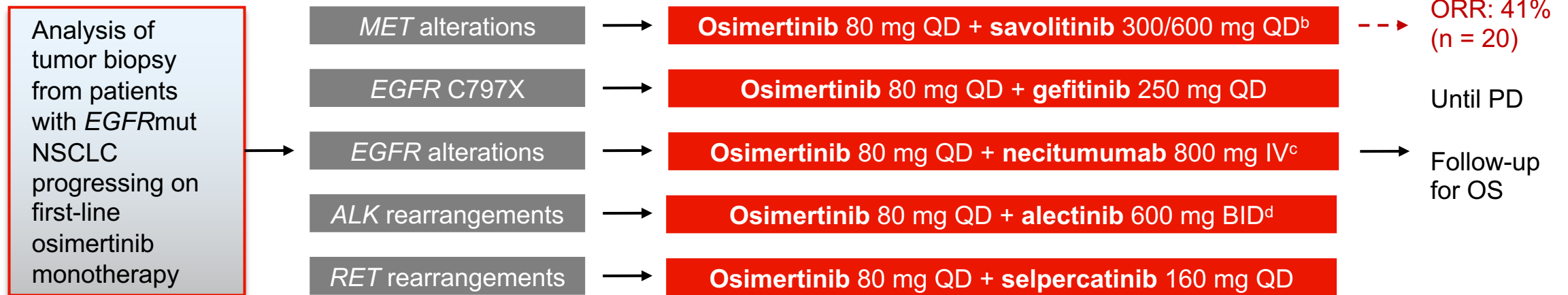


1. Piotrowska Z et al. *Cancer Discov.* 2018;8:1529-1539. 2. Offin M et al. *JCO Precis Oncol.* 2018;2:PO.18.00126.

ORCHARD: Biomarker-Directed Study in Advanced *EGFR*mut NSCLC Progressing on 1L Osimertinib

- Open-label, multicenter, multidrug, biomarker-directed phase 2 platform trial

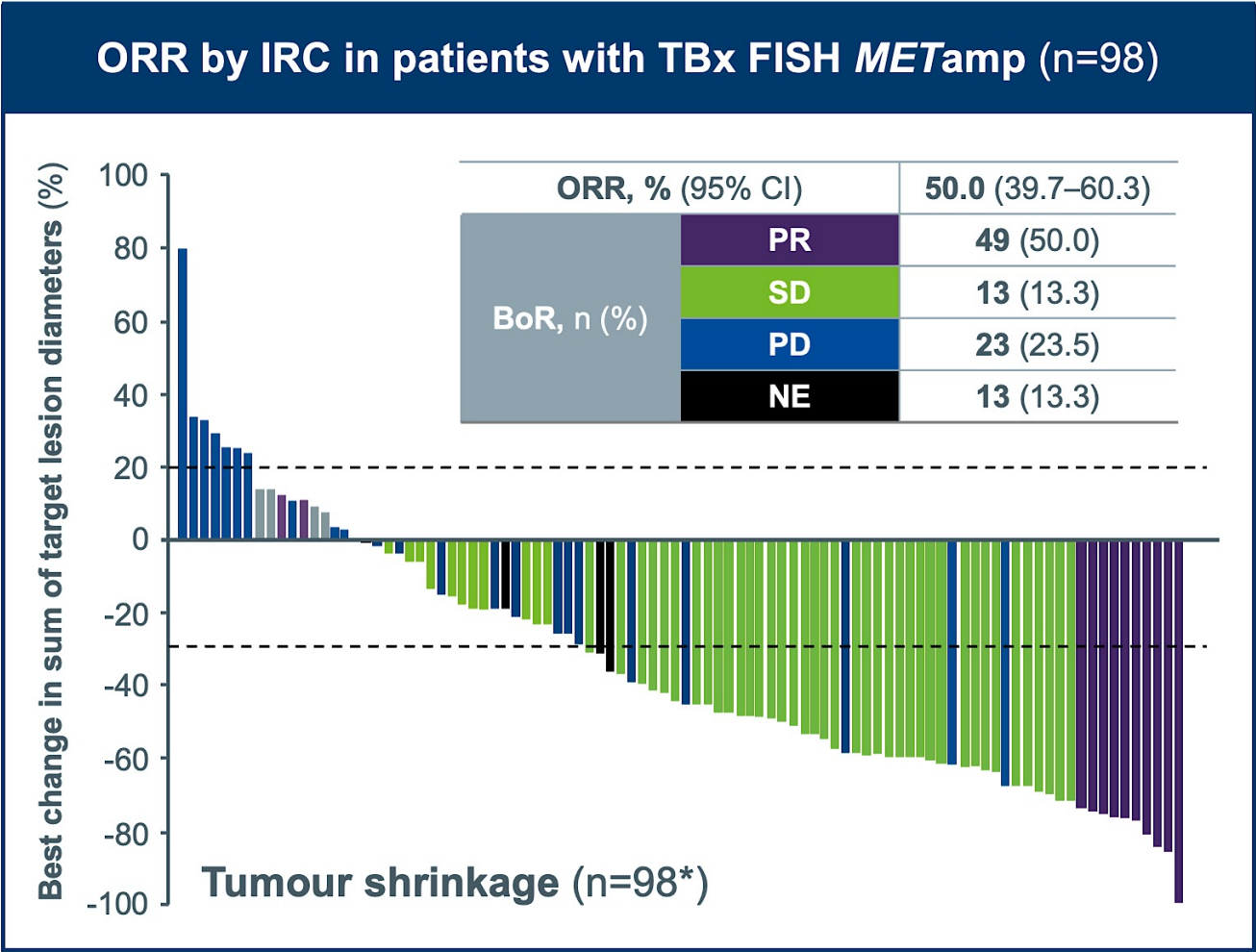
Group A: Treatment Based on Resistance Mechanism Detected^a



- Group B:** Nonmatched arm for patients without a detectable resistance mechanism will sequentially be assigned to durvalumab + chemotherapy > osimertinib + necitumumab > others
- Group C:** Observational arm for patients whose optimal treatment falls outside of group A or B (eg, transformation to SCLC)
- Patients with failed baseline NGS results go directly to follow-up

^a Future arms may be added. ^b Savolitinib dose 300 mg QD for all new patients. ^c Day 1 and 8 of 3 week cycle. ^d 300 mg BID in Japan.
1. Cho BC et al. *J Thorac Oncol*. 2021;16:S598. 2. Yu H et al. *Clin Lung Cancer*. 2021;22:601. 3. Yu H et al. ESMO 2021. Abstract 1239P.

INSIGHT 2: Tepotinib + osimertinib *MET*amp post-osimertinib



Patients with TBx FISH <i>MET</i> amp (n=98)	
ORR, % (95% CI)	50.0 (39.7–60.3)
mDoR, months (95% CI)	8.5 (6.1–NE)
mPFS, months (95% CI)	5.6 (4.2–8.1)
mOS, months (95% CI)	17.8 (11.1–NE)

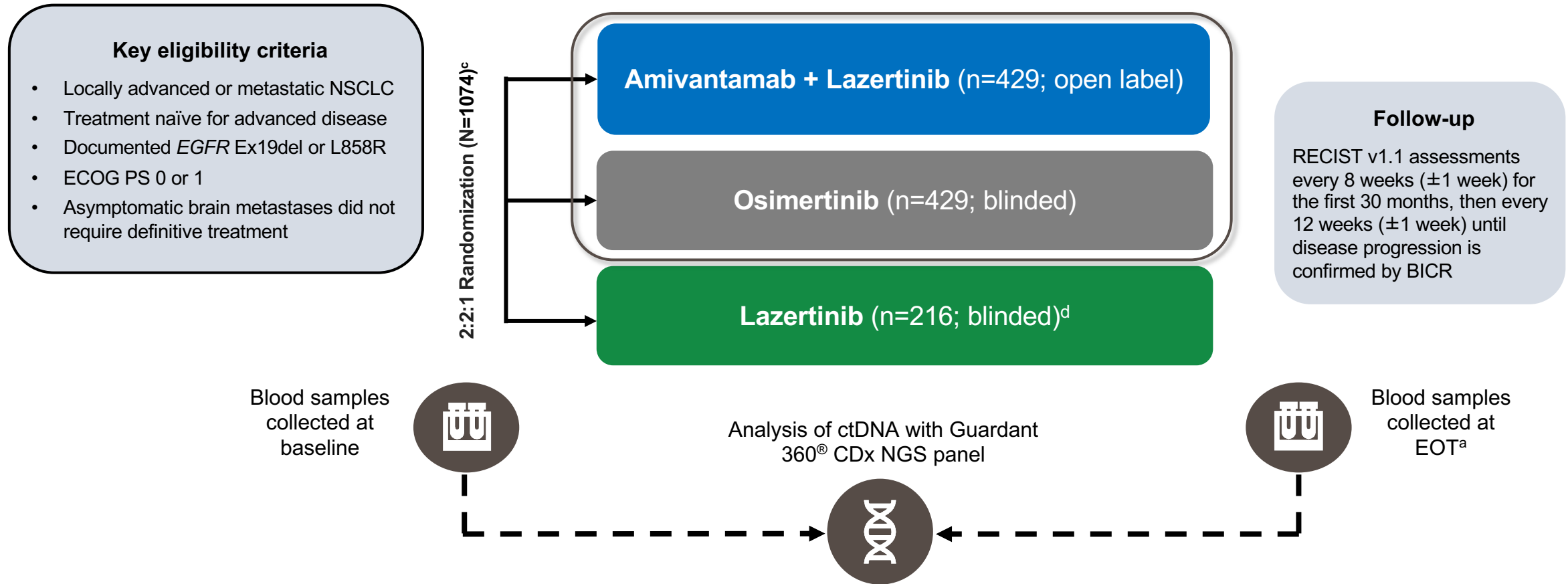
Patients with LBx NGS <i>MET</i> amp [†] (n=31)	
ORR, % (95% CI)	54.8 (36.0–72.7)
mDoR, months (95% CI)	5.7 (2.9–15.4)
mPFS, months (95% CI)	5.5 (2.7–7.2)
mOS, months (95% CI)	13.7 (9.6–NE)

Better outcomes were observed when there were no co-occurring mechanisms of osimertinib resistance

1st Line MARIPOSA Study Design

Paired blood samples were collected at baseline and EOT^a for analysis of detectable ctDNA by NGS^b

Focus of this presentation



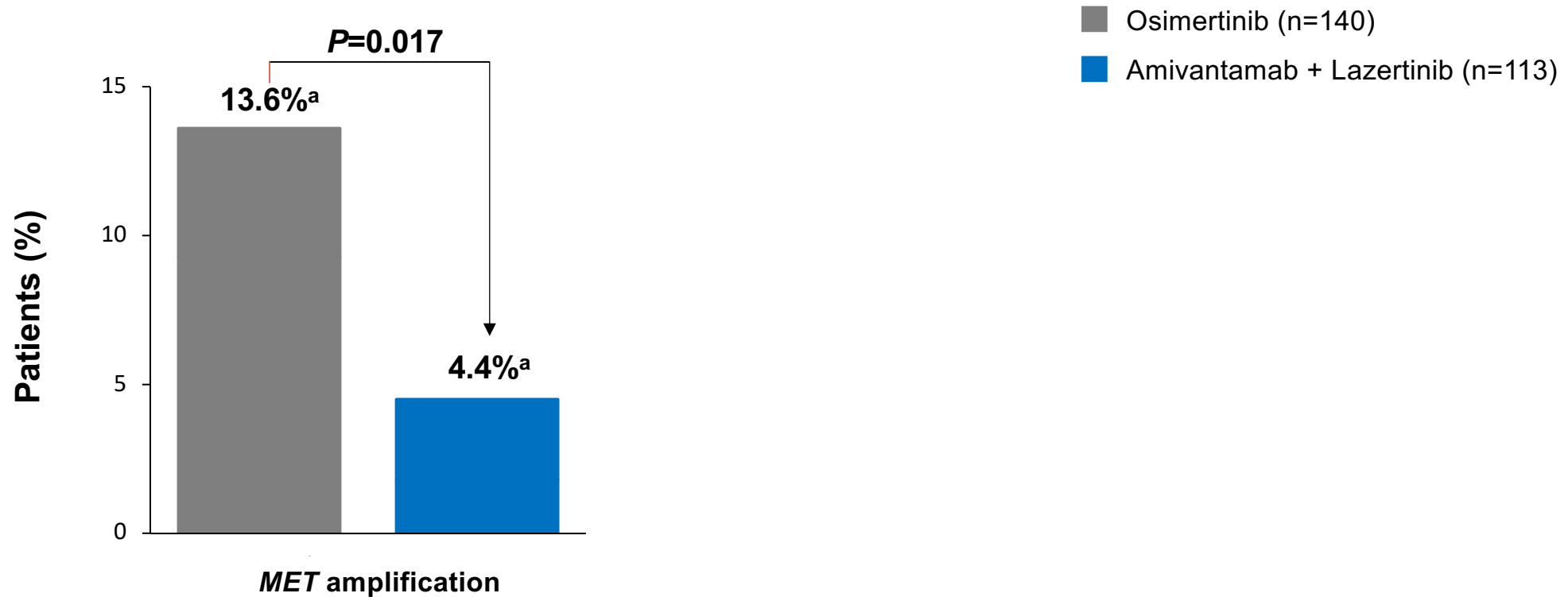
MARIPOSA (ClinicalTrials.gov Identifier: NCT04487080) enrollment period: November 2020 to May 2022. Last EOT sample was collected Feb 2024.

^aDefined as at disease progression/treatment discontinuation or within 90 days of discontinuation. ^bUsing Guardant 360[®] companion diagnostics. ^cStratification factors included *EGFR* mutation type (Ex19del or L858R), Asian race (yes or no), and history of brain metastases (yes or no). ^dLazertinib monotherapy arm was included to assess the contribution of components.

ctDNA, circulating tumor DNA; EOT, end of treatment; Ex19del, exon 19 deletion; NGS, next-generation sequencing.

***MET* and *EGFR*-based Resistance Mechanisms**

*Amivantamab + lazertinib significantly reduced the incidence of acquired *MET* amplifications and *EGFR* resistance mutations vs osimertinib*

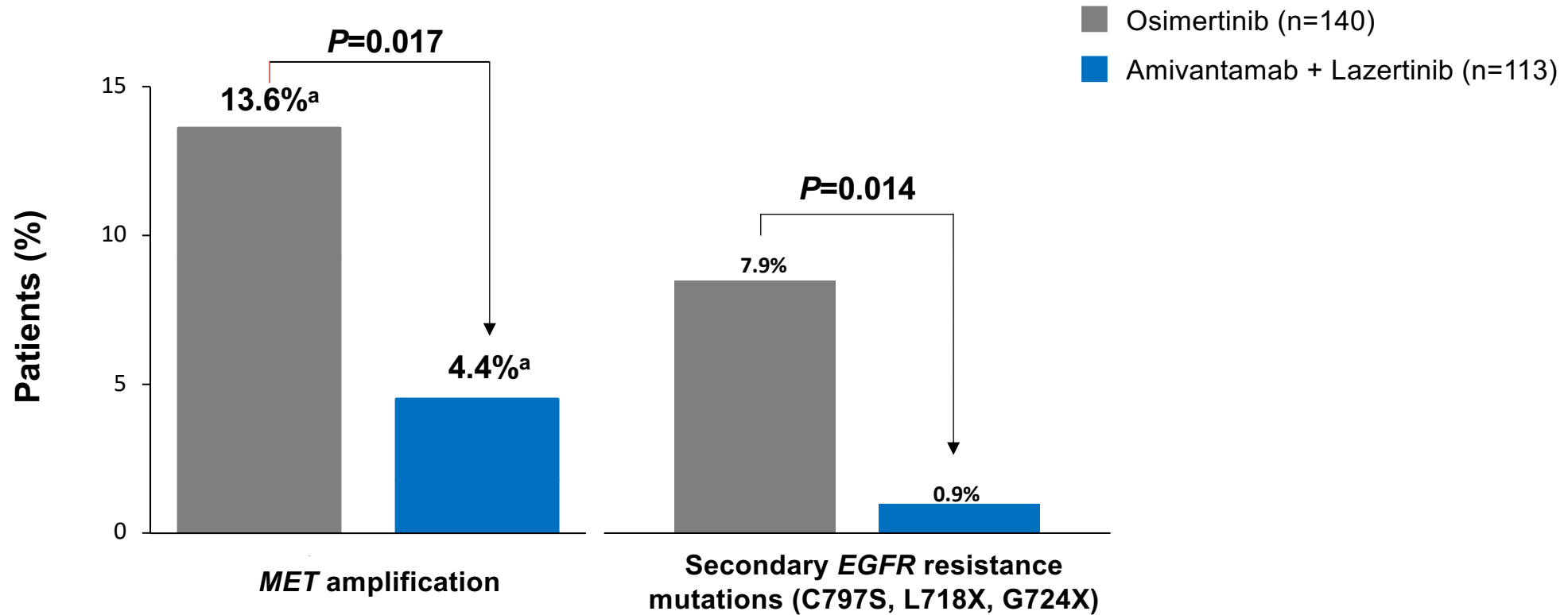


Acquired *MET* amplifications were ~3-fold lower and *EGFR* resistance mutations were ~8-fold lower for amivantamab + lazertinib versus osimertinib

^a9.3% of patients in the osimertinib arm had focal *MET* amplifications vs 1.8% in the amivantamab + lazertinib arm.

MET and ***EGFR***-based Resistance Mechanisms

Amivantamab + lazertinib significantly reduced the incidence of acquired MET amplifications and EGFR resistance mutations vs osimertinib



Acquired *MET* amplifications were ~3-fold lower and *EGFR* resistance mutations were ~8-fold lower for amivantamab + lazertinib versus osimertinib

^a9.3% of patients in the osimertinib arm had focal *MET* amplifications vs 1.8% in the amivantamab + lazertinib arm.

Biomarker agnostic approaches



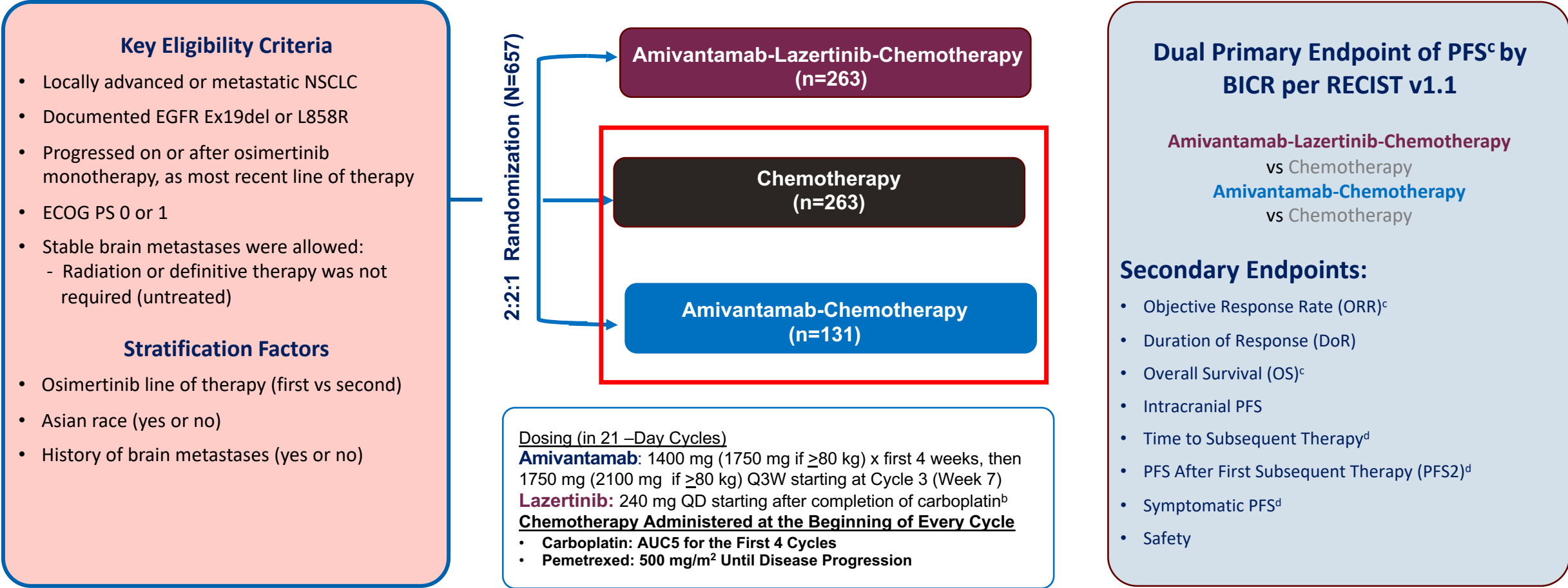
mAb



ADC

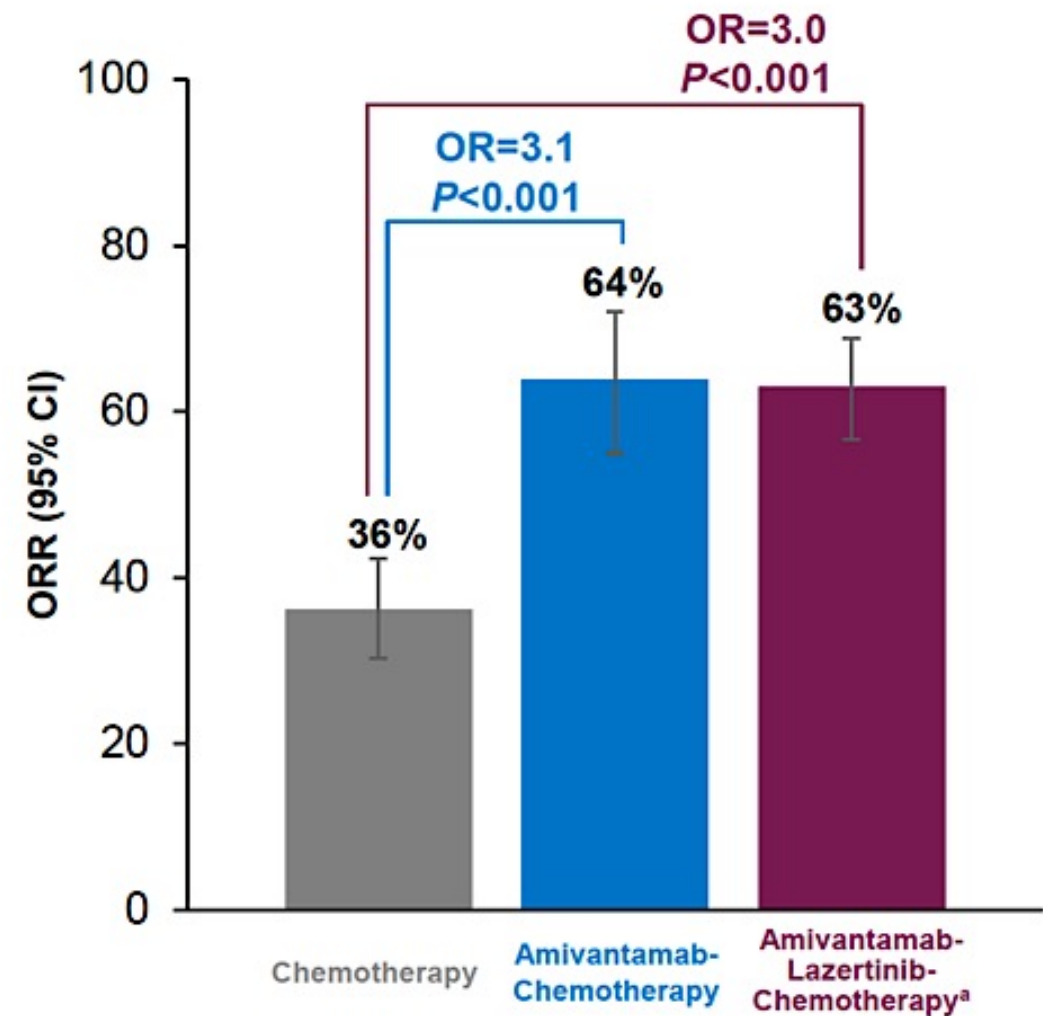
Phase III MARIPOSA 2: Study Design

Serial Brain MRIs Were Required for all Patients^a



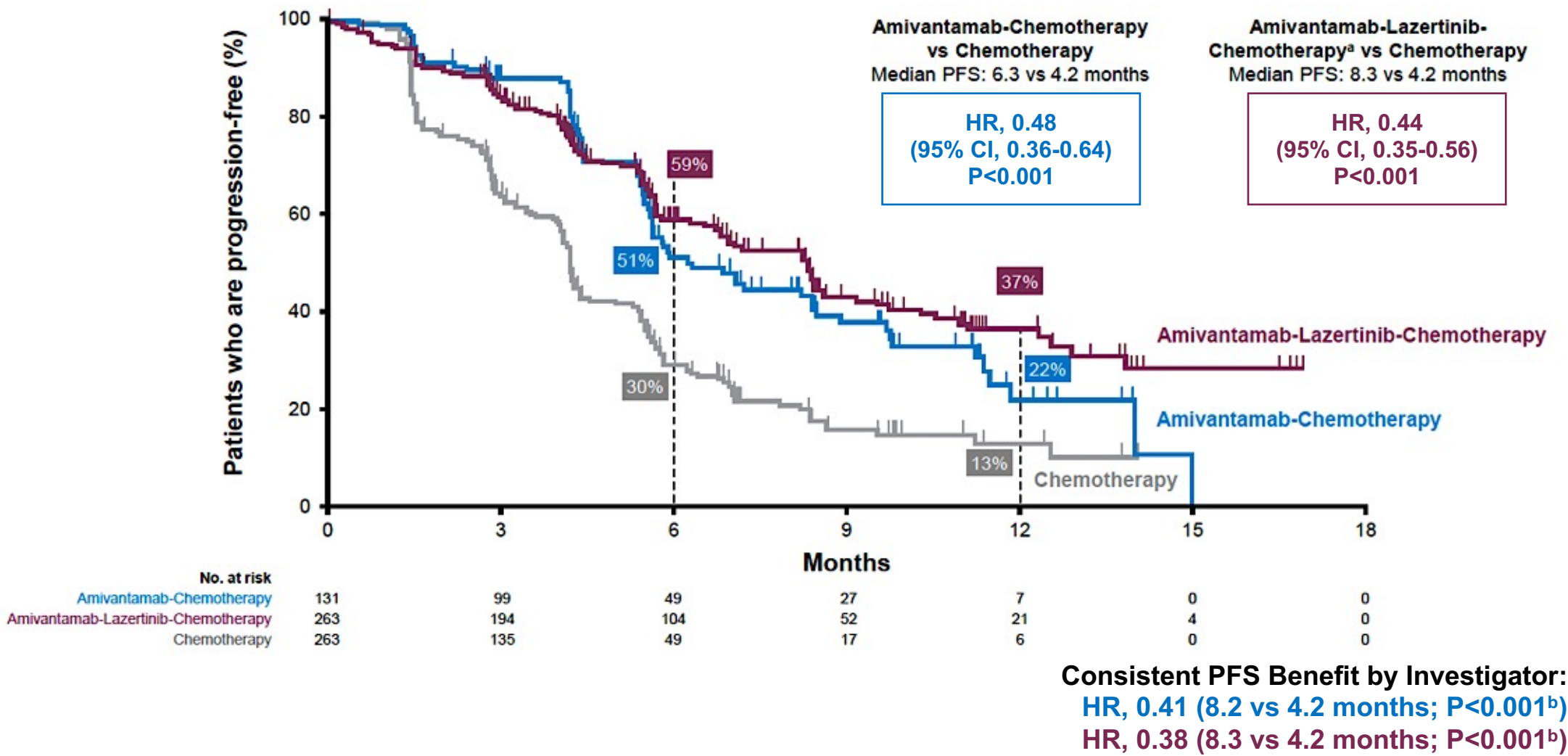
^aPatients who could not have MRI were allowed to have CT scans.
^bAll patients randomized before November 7, 2022, initiated lazertinib on the first day of Cycle 1
^cKey statistical assumptions: 600 patients with 350 events across all 3 arms would provide approximately 83% and 93% power for amivantamab-chemotherapy and amivantamab-lazertinib-chemotherapy, respectively, vs chemotherapy to detect a HR of 0.65 using a log-rank test, with an overall two-sided alpha of 0.05

MARIPOSA 2: Objective Response Rate and Duration of Response by BICR



BICR-assessed Response, n (%) ^b	Chemotherapy (n=263)	Amivantamab-Chemotherapy (n=131)	Amivantamab-Lazertinib-Chemotherapy (n=263)
Best Response			
CR	1 (0.4)	2 (2)	6 (2)
PR	93 (36)	81 (62)	157 (61)
SD	82 (32)	30 (23)	61 (24)
PD	52 (20)	10 (8)	14 (5)
NE/UNK	32 (12)	7 (5)	21 (8)
Median DoR ^c	5.6 mo (95% CI, 4.2–9.6)	6.9 mo (95% CI, 5.5–NE)	9.4 mo (95% CI, 6.9–NE)

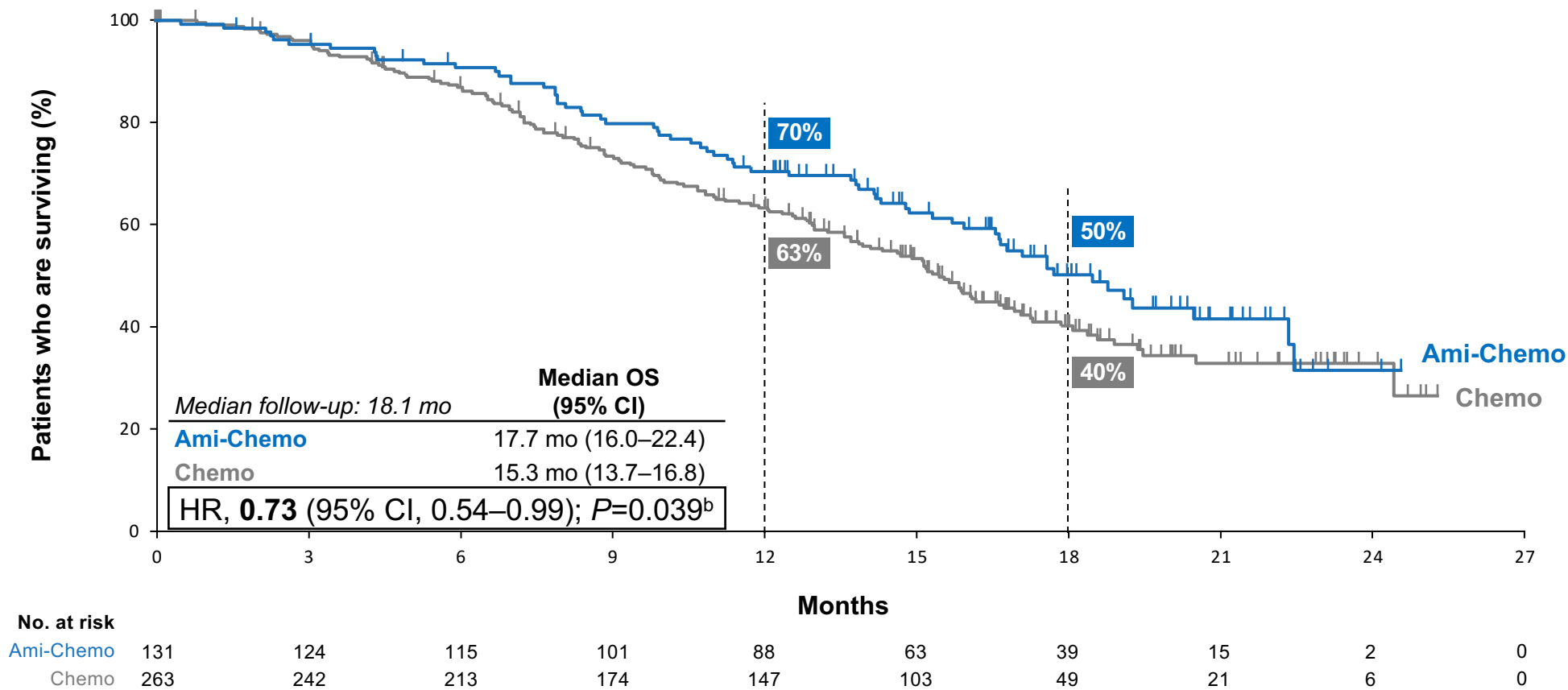
MARIPOSA 2: Progression-Free Survival by BICR



^aAmivantamab-lazertinib-chemotherapy arm includes all patients regardless of the dosing regimen received.
^bNormal P-value: endpoint not part of hierarchal hypothesis testing.
BICR, blinded independent central review; CI, confidence interval; HR, hazard ratio; PFS, progression-free survival
Median follow-up: 8.7 months..
Passaro A, et al. Presented at the European Society for Medical Oncology 2023 Meeting. 20-24 October 2023. Madrid, Spain. Abstract LBA15

MARIPOSA 2: Overall Survival

Amivantamab-chemotherapy continues to demonstrate a clear and improving OS trend vs chemotherapy^a



18-month landmark for OS was 50% for amivantamab-chemotherapy vs 40% for chemotherapy

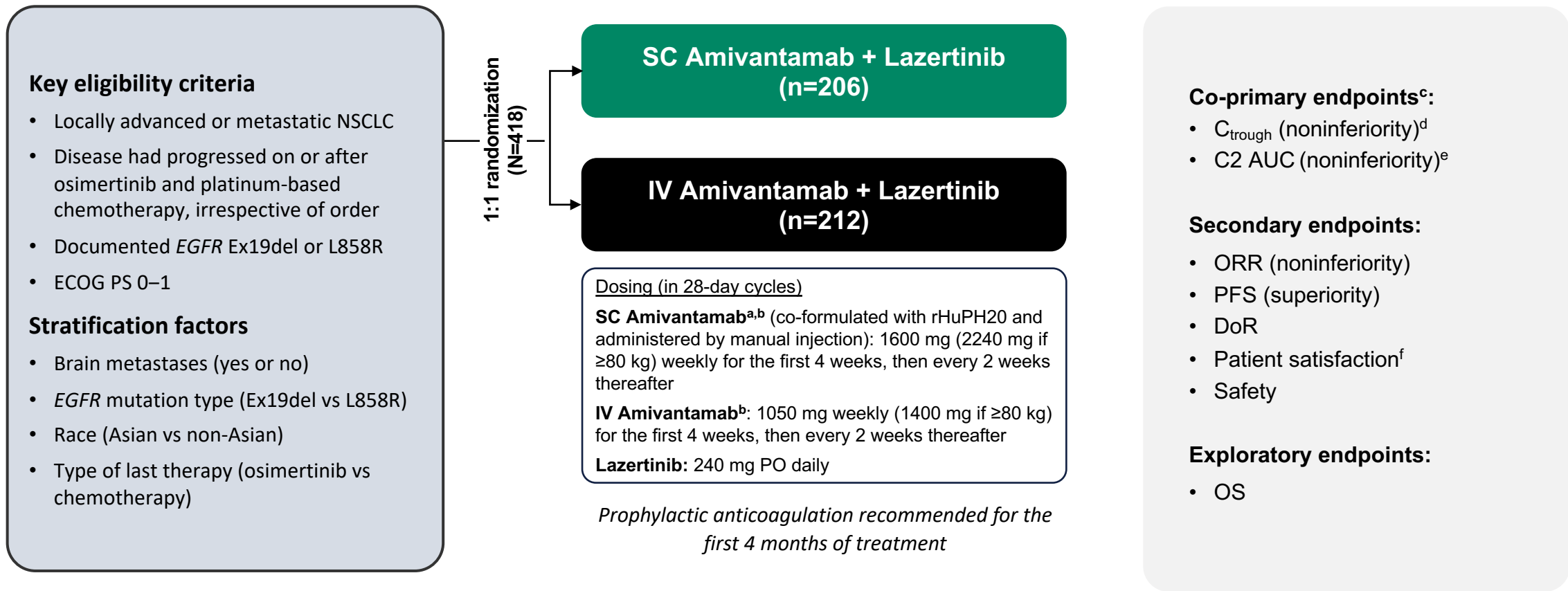
^aOS benefit of amivantamab-chemotherapy vs chemotherapy was generally consistent among pre-defined subgroups. ^bP-value is from a log-rank test stratified by osimertinib line of therapy (first-line vs second-line), history of brain metastases (yes or no), and Asian race (yes vs no). OS was evaluated at a 2-sided alpha of 0.0142.

Ami, amivantamab; chemo, chemotherapy; CI, confidence interval; HR, hazard ratio; OS, overall survival.

MARIPOSA-2: Summary of Adverse Events

	Amivantamab + Chemotherapy (n=130)	Chemotherapy (n=243)
Treatment duration, median (range)	6.3 months (0-14.7)	3.7 months (0-15.9)
No. of chemotherapy cycles, median (range)		
Carboplatin	4 (1-4)	4 (1-5)
Pemetrexed	9 (1-22)	6 (1-23)
TEAE, n (%)	Amivantamab + Chemotherapy (n=130)	Chemotherapy (n=243)
Any AEs	130 (100)	227 (93)
Grade ≥3 AEs	94 (72)	117 (48)
Serious AEs	42 (32)	49 (20)
AEs leading to Death	3 (2)	3 (1)
Any AE leading to treatment:		
Interruption of any agent	84 (65)	81 (33)
Reductions of any agent	53 (41)	37 (15)
Discontinuations of any agent	24 (18)	9 (4)
Discontinuations of all agents due to AE	14 (11)	10 (4)

PALOMA-3: Phase 3 Study Design



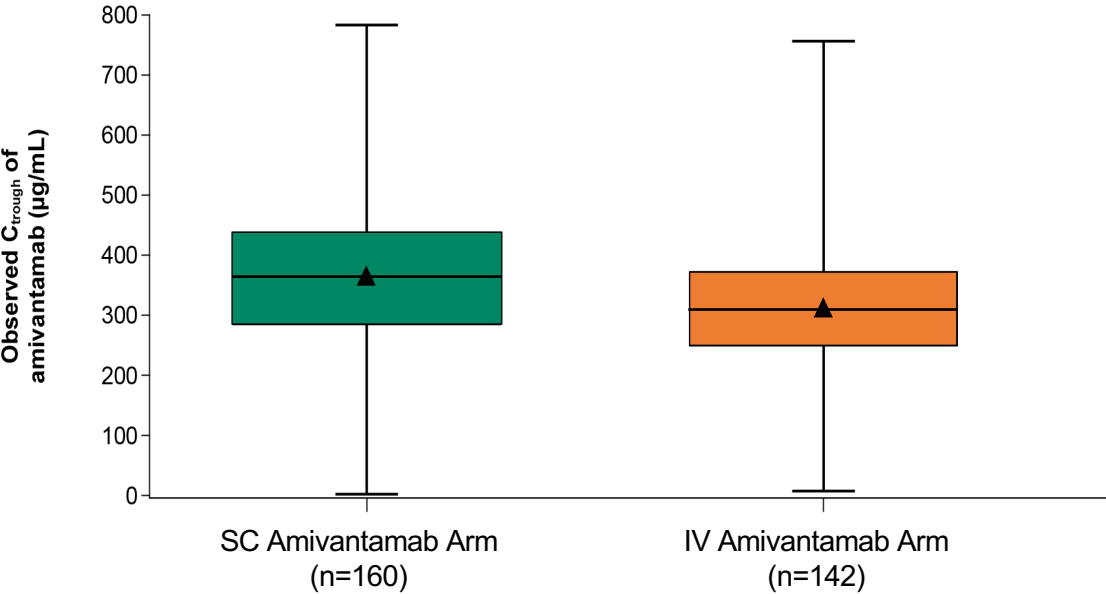
PALOMA-3 (ClinicalTrials.gov Identifier: NCT05388669) enrollment period: August 2022 to October 2023; data cutoff: 03-Jan-2024.

^aSC amivantamab was co-formulated with rHuPH20 at a concentration of 160 mg/mL. ^bC1 for IV: Days 1 to 2 (Day 2 applies to IV split dose only [350 mg on Day 1 and the remainder on Day 2]), 8, 15, and 22; C1 for SC: Days 1, 8, 15, and 22; after C1 for all: Days 1 and 15 (28-day cycles). ^cFor calculating primary and key secondary outcomes, we estimated that a sample size of 400 patients would provide >95% power for a 1-sided alpha of 0.05 allocated to each of the co-primary endpoints and 80% power with a 1-sided alpha of 0.025 allocated to ORR. A hierarchical testing approach at a 2-sided alpha of 0.05 was used for the co-primary endpoints (noninferiority), followed by ORR (noninferiority) and PFS (superiority), with a combined 2-sided alpha of 0.05. ^dTwo definitions of the same endpoint were used as per regional health authority guidance. ^eMeasured between C2D1 and C2D15. ^fAssessed by modified TASQ. AUC, area under the concentration-time curve; C, Cycle; C_{trough}, observed serum concentration of amivantamab at steady state; D, Day; DoR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; EGFR, epidermal growth factor receptor; Ex19del, Exon 19 deletion; IV, intravenous; NSCLC, non-small cell lung cancer; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; PO, orally; rHuPH20, hyaluronidase; SC, subcutaneous; TASQ, Therapy Administration Satisfaction Questionnaire.

Co-primary PK Endpoints Met Noninferiority Criteria

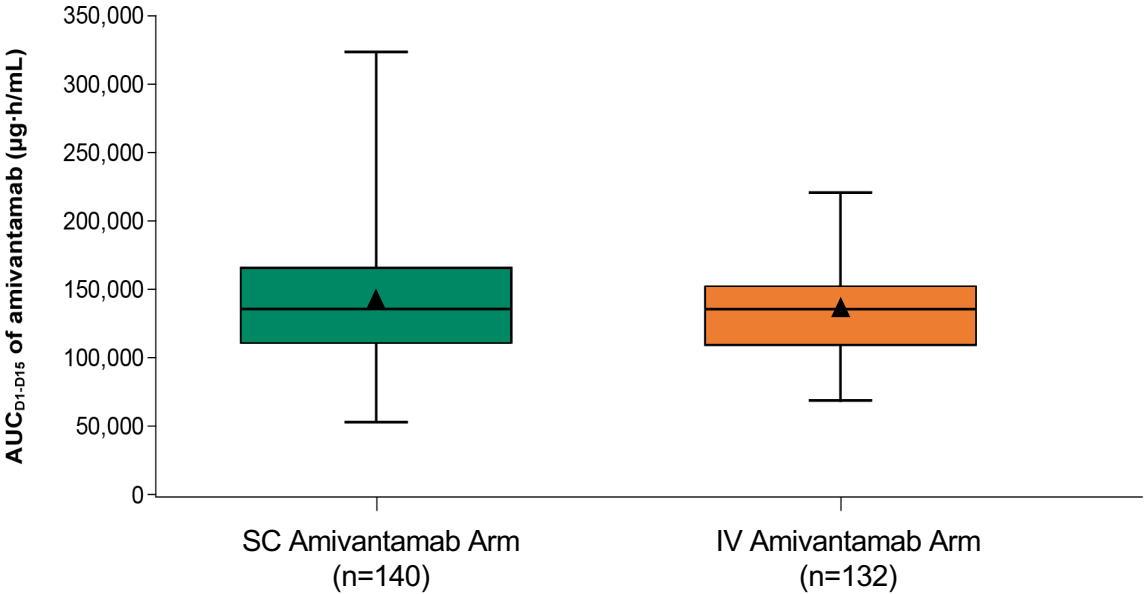
C_{trough} at C2D1

Geometric mean ratio=1.15
(90% CI, 1.04–1.26)



C2 AUC_{D1-D15}

Geometric mean ratio=1.03
(90% CI, 0.98–1.09)

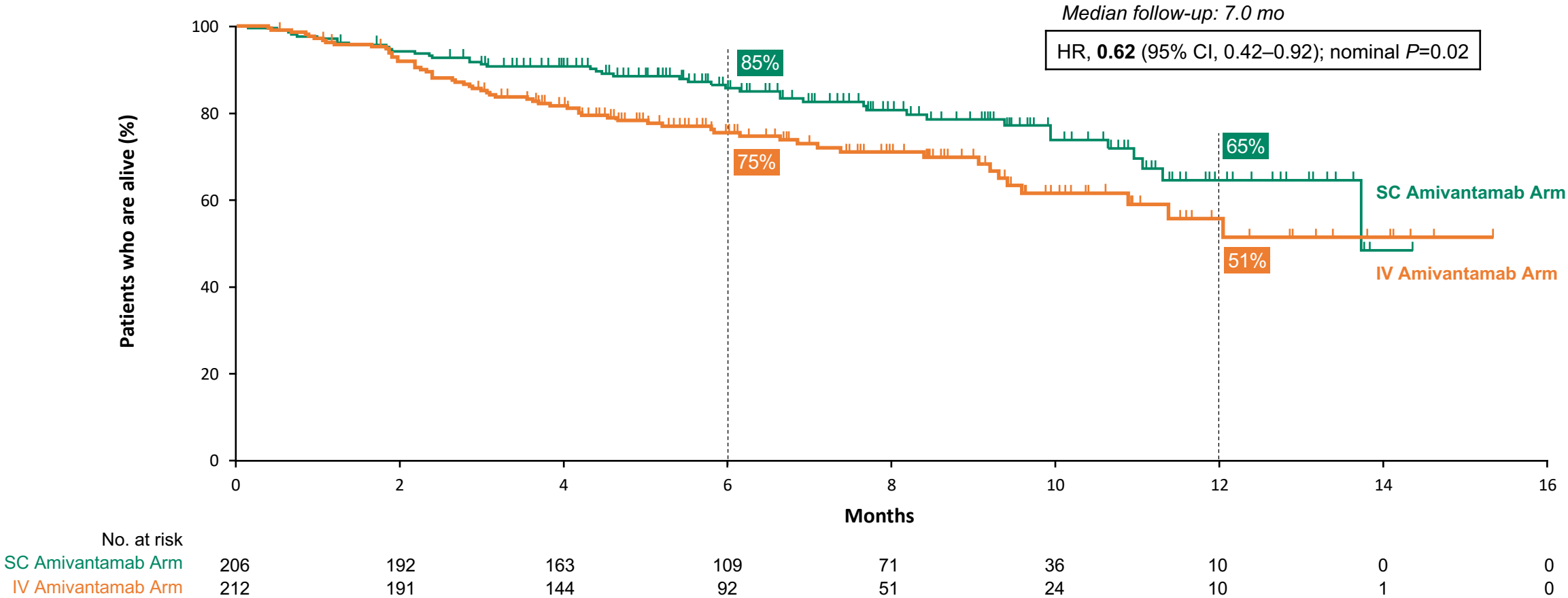


- Geometric mean ratio for C_{trough} at steady state (C4D1) was 1.43 (90% CI, 1.27–1.61)

Note: The pharmacokinetic analysis for primary endpoints included all patients who received all doses without dose modification and provided the required PK samples through the final required PK sample relevant to the endpoint. The upper and lower ends of the boxes indicate the 25th and 75th quartiles, the triangles indicate the means, the horizontal lines within the boxes indicate the medians, and the error bars indicate 95% CIs.
AUC, area under the concentration-time curve; C, Cycle; CI, confidence interval; C_{trough}, observed serum concentration of amivantamab at steady state; D, Day; GMR, geometric mean ratio; IV, intravenous; PK, pharmacokinetic; SC, subcutaneous.

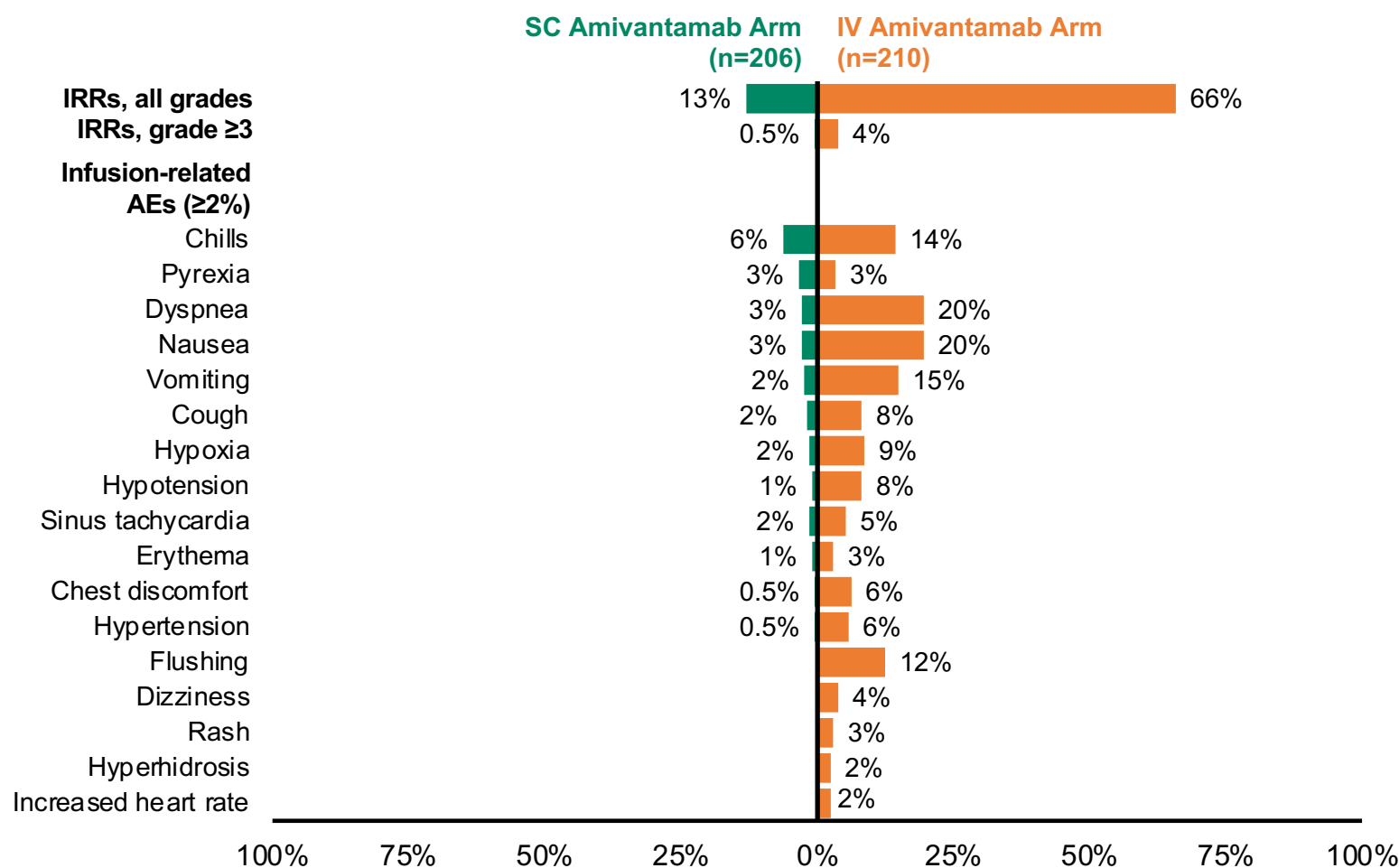
Overall Survival

There was an OS benefit associated with SC amivantamab, with an HR of 0.62 compared to the IV amivantamab arm^a



Note: The efficacy population included all the patients who had undergone randomization. ^aThere were 43 deaths in the SC amivantamab arm and 62 deaths in the IV amivantamab arm. Nominal *P* value was calculated from a log-rank test stratified by history of brain metastases, Asian race, *EGFR* mutation type (Ex19del or L858R), and last line of therapy (osimertinib or platinum-based therapy); the prespecified endpoint was exploratory and not part of hierarchical hypothesis testing. CI, confidence interval; *EGFR*, epidermal growth factor receptor; Ex19del, Exon 19 deletion; HR, hazard ratio; IV, intravenous; mo, months; OS, overall survival; SC, subcutaneous.

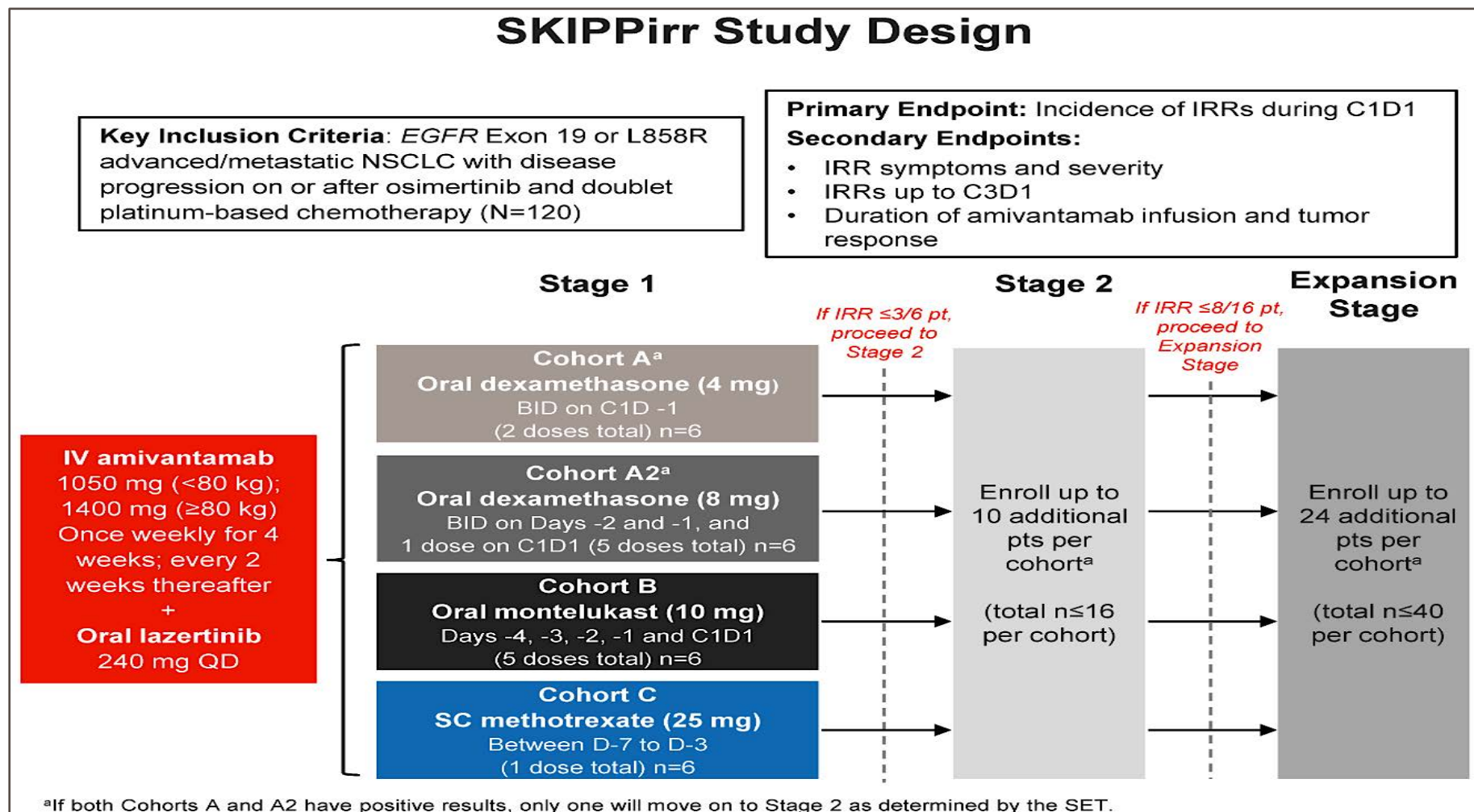
Incidence of IRR-related Symptoms



- IRRs were observed in 13% of patients in the SC arm versus 66% in the IV arm, representing a 5-fold reduction
 - There were no grade 4 or 5 IRRs
 - Most IRRs occurred during Cycle 1
- IRRs leading to hospitalization were not observed in the SC arm versus 2 events in the IV arm
- No IRR-related discontinuations occurred in the SC arm versus 4 events in the IV arm

Note: The safety population included all the patients who had undergone randomization and received ≥1 dose of any trial treatment.
AE, adverse event; IRR, infusion-related reaction; IV, intravenous; SC, subcutaneous.

Can we prevent infusion related reactions? SKIPPirr



Cocoon Trial

Enhanced Dermatological Care to Reduce Rash and Paronychia in Epidermal Growth Factor Receptor (EGFR)-Mutated Non-Small Cell Lung Cancer (NSCLC) Treated First-line With Amivantamab Plus Lazertinib (COCOON)



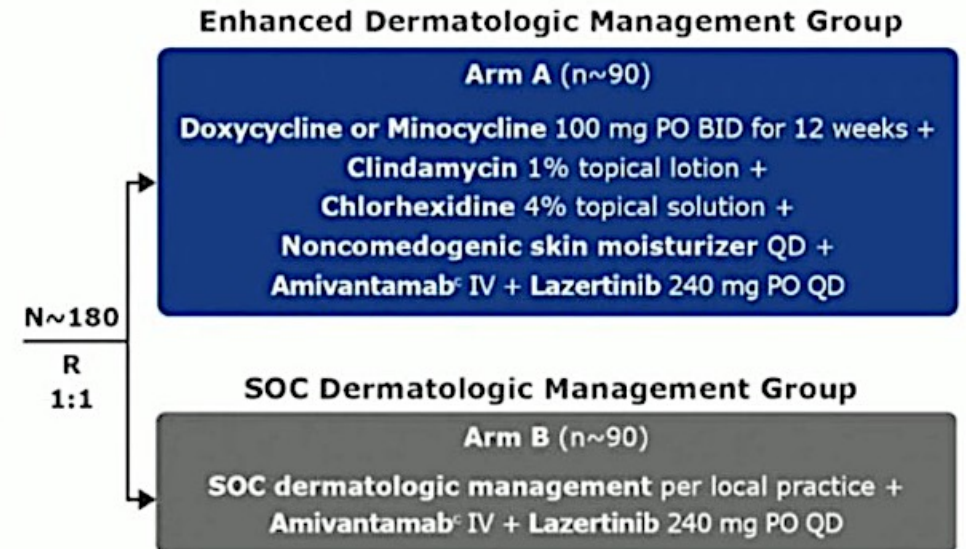
Management of cutaneous toxicities under amivantamab (anti MET and anti EGFR bispecific antibody) in patients with metastatic non-small cell lung cancer harboring *EGFR* Exon20ins: towards a proactive, multidisciplinary approach

Clémence Basse^{a,b}, Hédi Chabanol^c, Pierre-Emmanuel Bonte^d, Isabelle Fromantin^{c,e}, Nicolas Girard^{a,b,*}

Key Points:

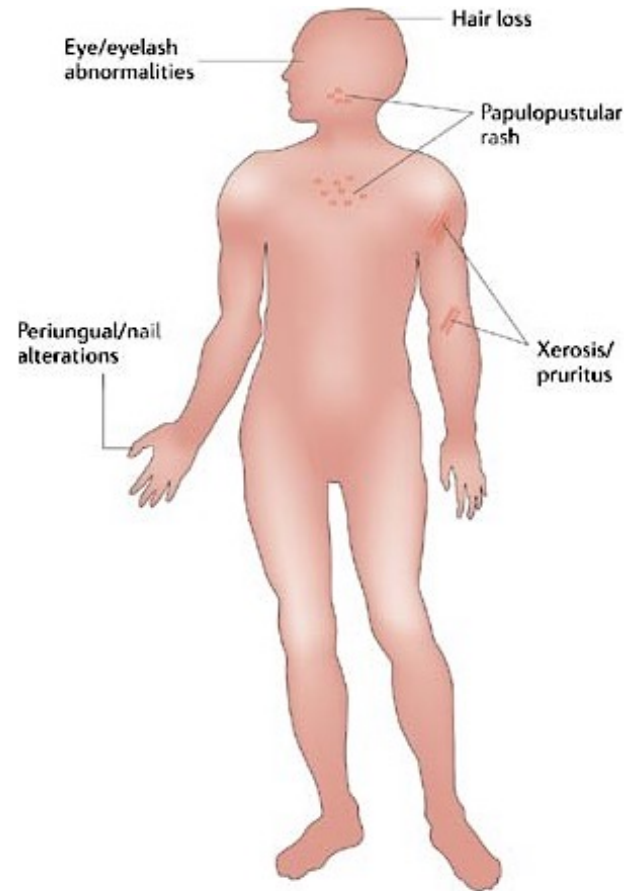
- Prophylactic tetracycline antibiotics at the start of treatment
- Early introduction of moisturizers and topical corticosteroids
- Consider treatment interruption if grade 2+
- Multi-disciplinary care with dermatology

COCOON Trial First-line Ami/Laz with Enhanced Dermatologic Care

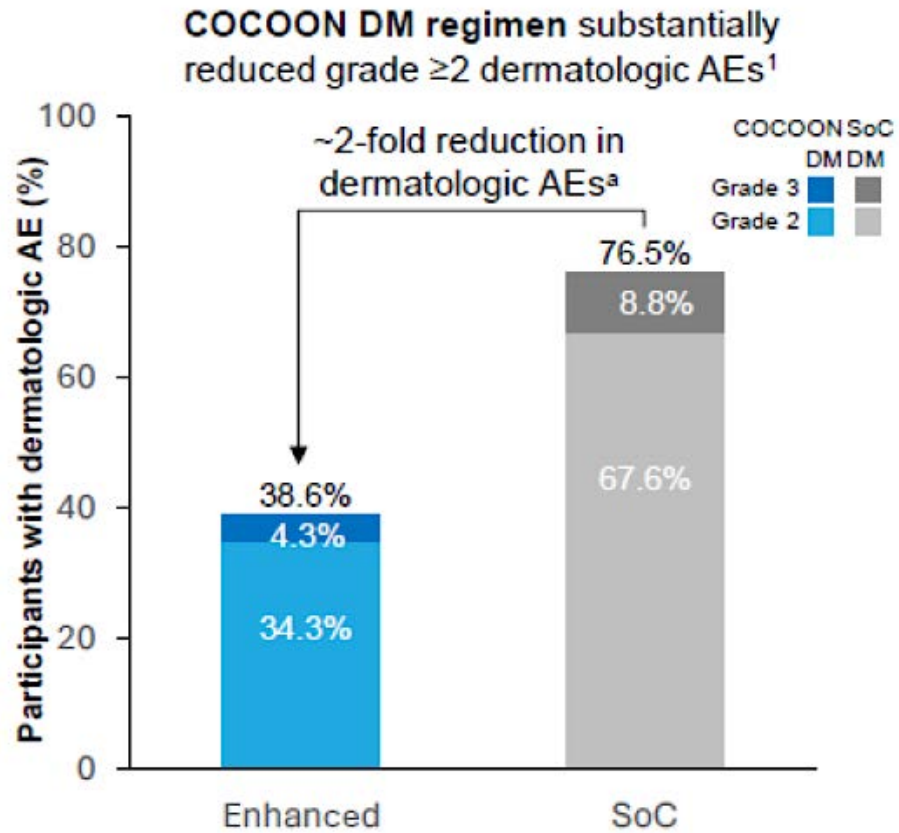


EGFR inhibition mediated cutaneous toxicities

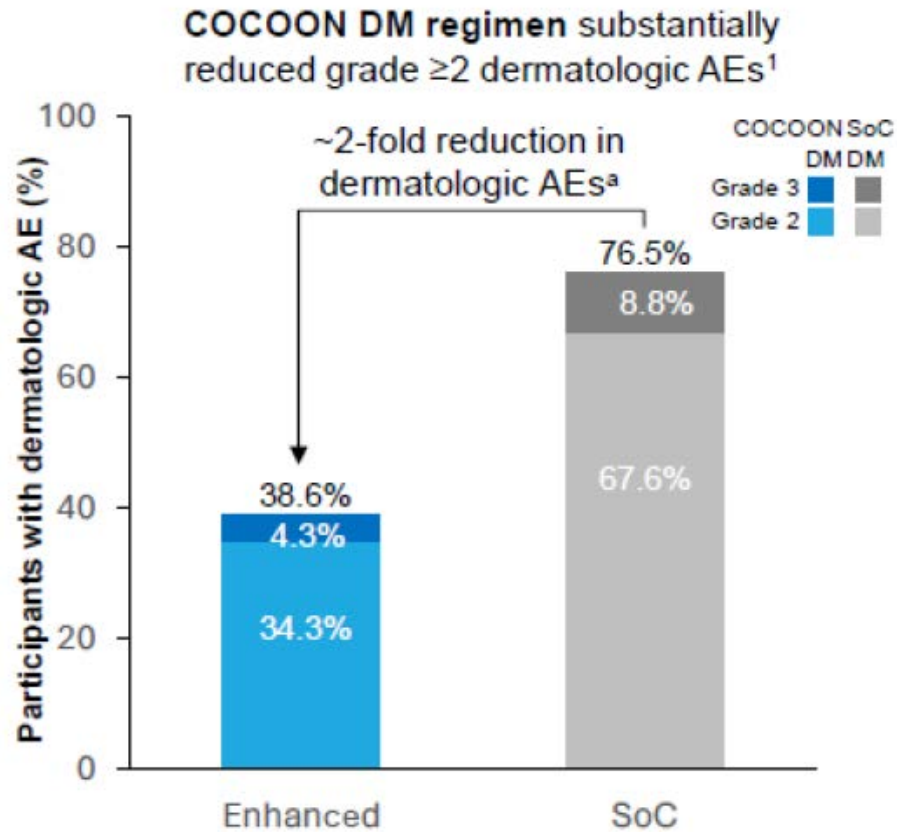
Cutaneous



Early Onset Adverse Events can be Reduced with Prophylactic Approaches



Early Onset Adverse Events can be Reduced with Prophylactic Approaches



Antibiotic
prophylaxis



Nail cleaning
agent



Long-acting
skin hydration



Dermatologic Prophylactic Regimen (COCOON)^b

Weeks 1–12

100-mg BID doxycycline
or minocycline

Weeks 13+

1% Topical clindamycin lotion
on the scalp daily

Weeks 1+

4% Chlorhexidine on the fingernails and toenails daily for 12 months

Weeks 1+

Ceramide-based moisturizer at least daily for 12 months^c

Conclusions

- Acquired Resistance (EGFR & non EGFR mediated) is inevitable!
 - EGFR C797S; MET AMP and others
- We need therapeutics with novel MOA targeting EGFR and non-EGFR mediated resistance
 - High risk features: brain metastases, EGFR L858R, co-mutation TP53, detectable ctDNA and lack of ctDNA clearance
 - Need better predictive biomarkers
- Due to heterogeneity of acquired resistance - targeting one resistance mechanism is often of limited benefit.
 - MARIPOSA 2: Ami + Chemo in 2L post Osimertinib – ORR 64%, mPFS 6.3m, intracranial mPFS 12.5m, OS immature
 - Most common TEAEs: neutropenia, thrombocytopenia, IRR, nausea and rash
 - Prophylaxis with SKIPPiRR, COCOON dermatologic regimen, and anticoagulation can reduce toxicity

Ivonescimab Plus Chemotherapy Demonstrates Statistically Significant and Clinically Meaningful Improvement in PFS in Patients with EGFR-Mutant NSCLC after EGFR TKI Therapy in Global Study

Press Release: May 30, 2025

[The manufacturer] today announced topline results from the Phase III clinical trial, HARMONi, the first global Phase III study evaluating ivonescimab, successfully met the progression-free survival (PFS) primary endpoint and showed a positive trend in the other primary endpoint, overall survival (OS).

HARMONi is a multiregional, double-blinded, placebo-controlled, Phase III study evaluating ivonescimab plus platinum-doublet chemotherapy compared to placebo plus platinum-doublet chemotherapy in patients with epidermal growth factor receptor (EGFR)-mutated, locally advanced or metastatic non-squamous non-small cell lung cancer (NSCLC) who have progressed after treatment with a 3rd generation EGFR tyrosine kinase inhibitor (TKI).

At the prespecified primary data analysis, ivonescimab in combination with chemotherapy demonstrated a statistically significant and clinically meaningful improvement in progression-free survival, with a hazard ratio of 0.52 (95% CI: 0.41 – 0.66; $p < 0.00001$).

Ivonescimab in combination with chemotherapy showed a positive trend in OS in the primary analysis without achieving a statistically significant benefit with a hazard ratio of 0.79 (95% CI: 0.62 – 1.01; $p = 0.057$).

In general, for a patient with metastatic nonsquamous NSCLC with an EGFR exon 19 deletion and a PD-L1 TPS of 0 who receives first-line targeted treatment with response followed by disease progression, would you recommend repeat mutation testing?



Prof Girard

Yes



Dr Goldman

Yes, both tissue and liquid biopsy



Dr Jänne

Yes, tissue biopsy



Dr Ramalingam

Yes, liquid biopsy and then tissue if liquid is negative



Dr Sabari

Yes, liquid biopsy and then tissue if liquid is negative



Dr Yu

Yes, both tissue and liquid biopsy



Dr Gadgeel

Yes, liquid biopsy and then tissue if liquid is negative



Dr Spira

Yes, liquid biopsy

A 65-year-old patient with nonsquamous NSCLC with an EGFR exon 19 deletion and a PD-L1 TPS of 0 responds to first-line osimertinib and then experiences asymptomatic disease progression after 18 months. Regulatory and reimbursement issues aside, what would be your second-line treatment recommendation if the patient had acquired no further mutations?



Prof Girard

Amivantamab + chemotherapy



Dr Goldman

Amivantamab + chemotherapy



Dr Jänne

Continue osimertinib and add chemotherapy



Dr Ramalingam

Amivantamab + chemotherapy



Dr Sabari

Amivantamab + chemotherapy



Dr Yu

Amivantamab + chemotherapy



Dr Gadgeel

Continue osimertinib and add chemotherapy



Dr Spira

Amivantamab + chemotherapy

A 65-year-old patient with nonsquamous NSCLC with an EGFR exon 19 deletion and a PD-L1 TPS of 0 responds to first-line osimertinib with chemotherapy and then experiences asymptomatic disease progression after 18 months. Regulatory and reimbursement issues aside, what would be your second-line treatment recommendation if the patient had acquired no further mutations?



Prof Girard

Amivantamab + chemotherapy



Dr Goldman

Patritumab deruxtecan



Dr Jänne

Amivantamab + chemotherapy



Dr Ramalingam

Amivantamab + chemotherapy



Dr Sabari

Amivantamab + chemotherapy



Dr Yu

Patritumab deruxtecan



Dr Gadgeel

Patritumab deruxtecan



Dr Spira

Amivantamab/lazertinib

A 65-year-old patient with nonsquamous NSCLC with an EGFR exon 19 deletion and a PD-L1 TPS of 0 responds to first-line amivantamab/lazertinib and then experiences asymptomatic disease progression after 18 months. Regulatory and reimbursement issues aside, what would be your second-line treatment recommendation if the patient had acquired no further mutations?



Prof Girard

Chemotherapy + ivonescimab; HER3-DXd; Dato-DXd



Dr Goldman

Chemotherapy +/- bevacizumab



Dr Jänne

Osimertinib + chemotherapy



Dr Ramalingam

Chemotherapy +/- bevacizumab



Dr Sabari

Patritumab deruxtecan



Dr Yu

Osimertinib + chemotherapy



Dr Gadgeel

Patritumab deruxtecan











Dr Spira

Chemotherapy +/- bevacizumab

Dato-DXd = datopotamab deruxtecan; HER3-DXd = patritumab deruxtecan

Do you generally use enhanced dermatologic management, as evaluated in the COCOON study, for your patients receiving first-line amivantamab/lazertinib?

		Enhanced dermatologic management	Effective
	Prof Girard	Yes	Yes
	Dr Goldman	Yes	Too early in treatment to tell
	Dr Jänne	Yes	Yes
	Dr Ramalingam	No	N/A
	Dr Sabari	Yes	Yes
	Dr Yu	Yes	Modest improvement only
	Dr Gadgeel	Yes	Too early in treatment to tell
	Dr Spira	Yes	Yes

Do you believe that subcutaneous amivantamab has better tolerability compared to intravenous amivantamab?

	Prof Girard	Yes, less IRR; possibly fewer cutaneous side effects
	Dr Goldman	Yes, somewhat better
	Dr Jänne	Yes, somewhat better
	Dr Ramalingam	Yes, somewhat better
	Dr Sabari	Yes, somewhat better
	Dr Yu	No
	Dr Gadgeel	Yes, significantly better
	Dr Spira	Yes, significantly better

IRR = infusion-related reaction

Agenda

MODULE 1: Evolving First-Line Treatment for Metastatic EGFR Mutation-Positive Non-Small Cell Lung Cancer (NSCLC) — Dr Yu

MODULE 2: EGFR-Targeted Approaches for Relapsed EGFR-Mutant NSCLC; Strategies to Facilitate Delivery of Recently Approved Agents — Dr Sabari

MODULE 3: Potential Utility of TROP2-Targeted Therapy in the Management of EGFR-Mutant NSCLC — Dr Ramalingam

MODULE 4: Contemporary Care for Patients with Nonmetastatic EGFR-Mutant NSCLC — Dr Goldman

MODULE 5: Current and Future Management of EGFR Exon 20 Mutation-Positive NSCLC — Prof Girard

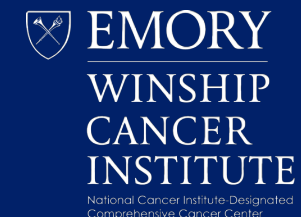
MODULE 6: Emerging Role of HER3-Targeted Therapy in the Management of EGFR-Mutant NSCLC — Dr Jänne



TROP₂ TARGETED THERAPY FOR EGFR-MUTATED NSCLC

Suresh S. Ramalingam, MD
Executive Director

Winship Cancer Institute
of Emory University



National Cancer Institute-Designated
Comprehensive Cancer Center

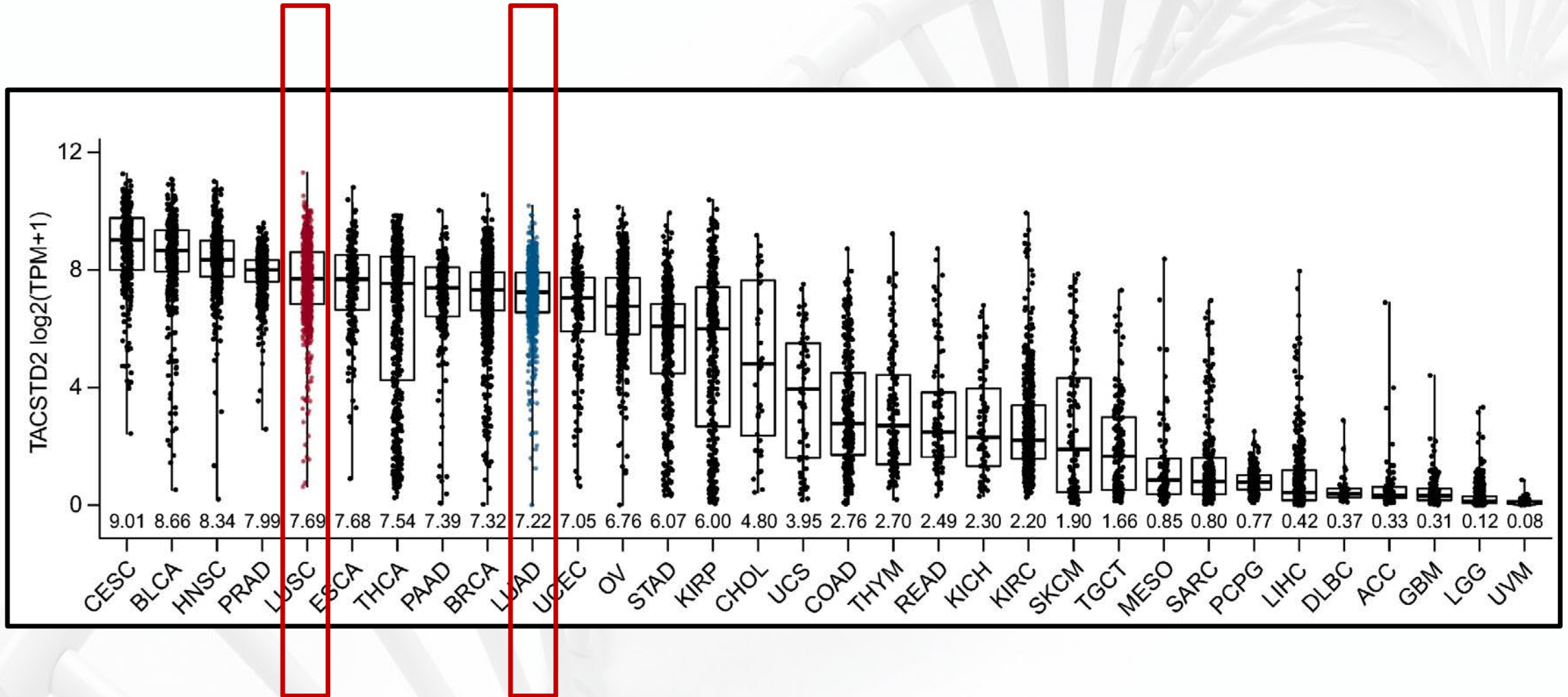


Where Science Becomes Hope®

FDA BREAKTHROUGH THERAPY DESIGNATION IN EGFR^{MT} NSCLC

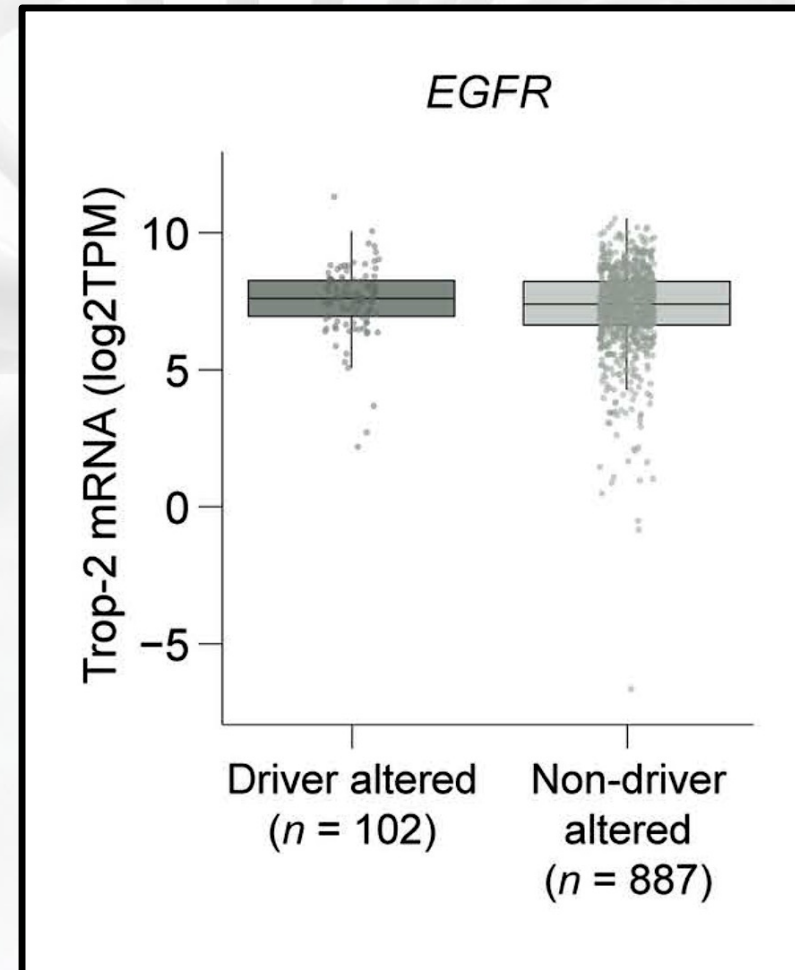
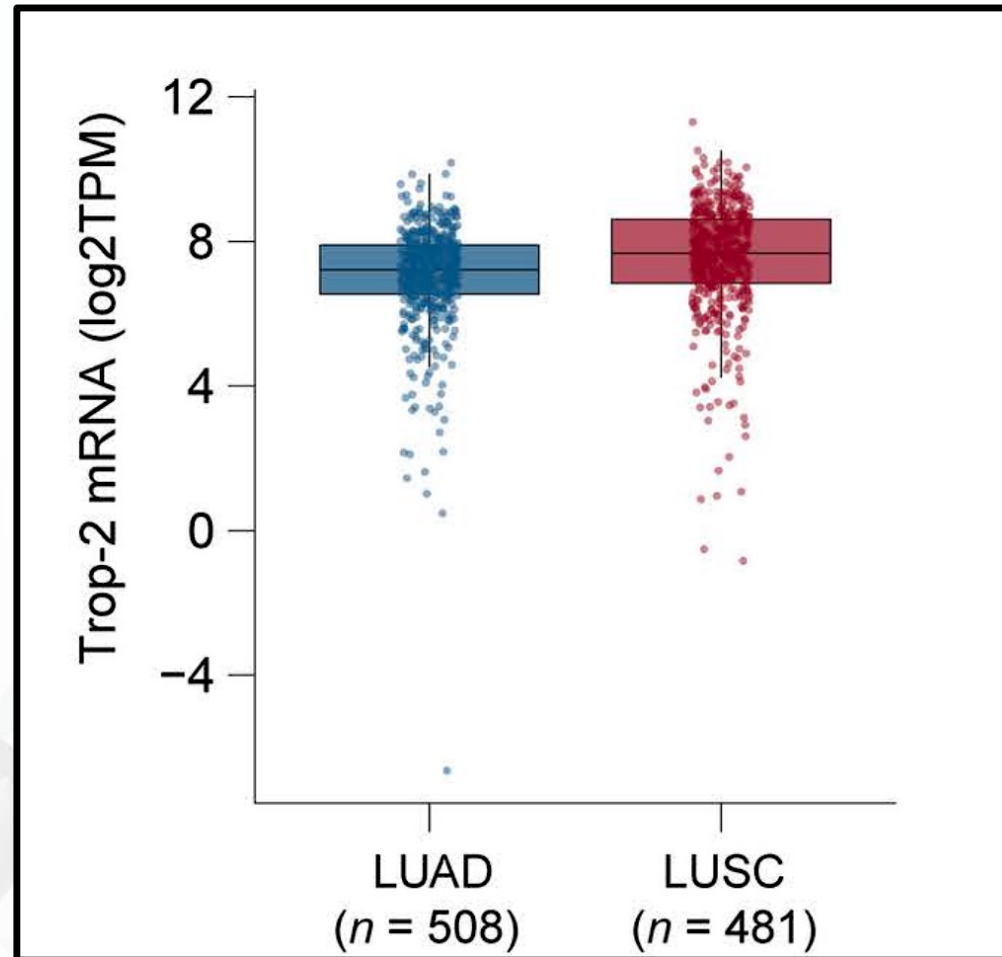
Drug	Mechanism of Action	Key Differentiators
Datopotamab Deruxtecan	TROP2-directed ADC delivering a topoisomerase I inhibitor (DXd) payload via a cleavable tetrapeptide linker.	Uses proprietary DXd payload and linker system for controlled release.
Sacituzumab Tirumotecan	TROP2-directed ADC delivering a SN-38 (irinotecan active metabolite) payload via a hydrolysable linker.	Utilizes a hydrolysable linker with a well-characterized SN-38 payload.

TROP2 EXPRESSION ACROSS SOLID ORGAN MALIGNANCIES: TCGA DATA



Kuo P et al, PLoS One, 2025.

TROP-2 EXPRESSION IN NSCLC



Kuo P et al, PLoS One, 2025.

TROPION LUNG 05 STUDY

Screening ≤28 days

Key eligibility criteria:

- a/m NSCLC
- Presence of actionable genomic alteration (e.g. *EGFR*, *ALK*, *ROS1*, *NTRK*, *BRAF*, *MET* exon 14 skipping, or *RET*)
- ECOG PS = 0 or 1
- Previously treated with one to two cytotoxic therapies (including a platinum therapy) in the metastatic setting and at least one therapy specific for the actionable genomic alteration harbored
- Radiographic disease progression on/after most recent treatment for a/m disease
- No prior treatment with a topoisomerase I chemotherapy or TROP2-directed agent

Treatment Until permanent discontinuation

Dato-DXd
6.0 mg/kg
Q3W

Follow-up 28 days (+7 for safety) Long-term survival: Q3mo

- Until:
- Disease progression
 - Death
 - Loss to follow-up
 - Withdrawal of consent

Study objectives Assessed after all patients have received Dato-DXd for ≥9 months or have discontinued

Primary objective

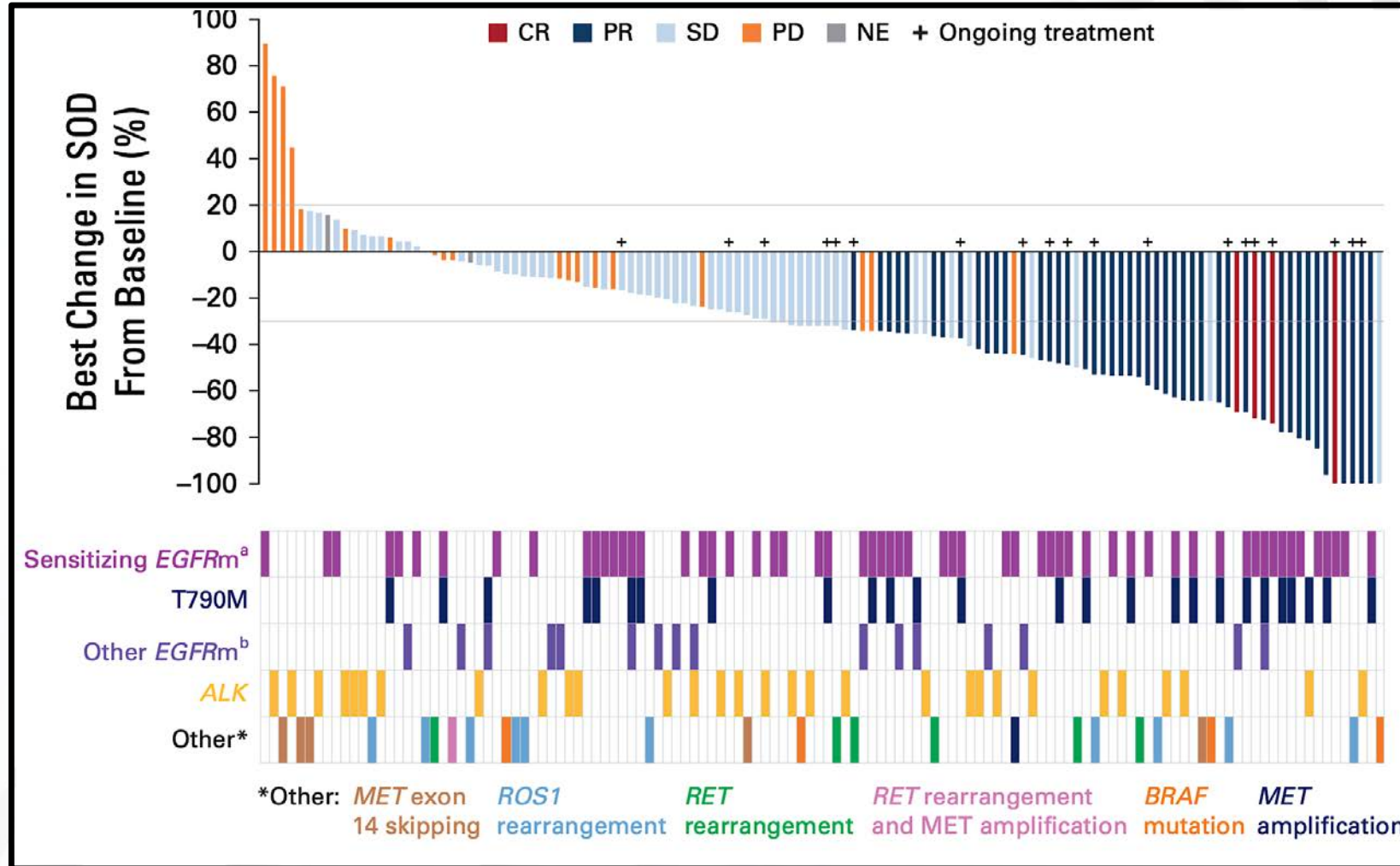
- ORR

Secondary objectives

- Efficacy^a
- Safety^b
- PK
- Immunogenicity

Sands J et al, J Clin Oncol, 2025.

TROPION LUNG 05: EFFICACY

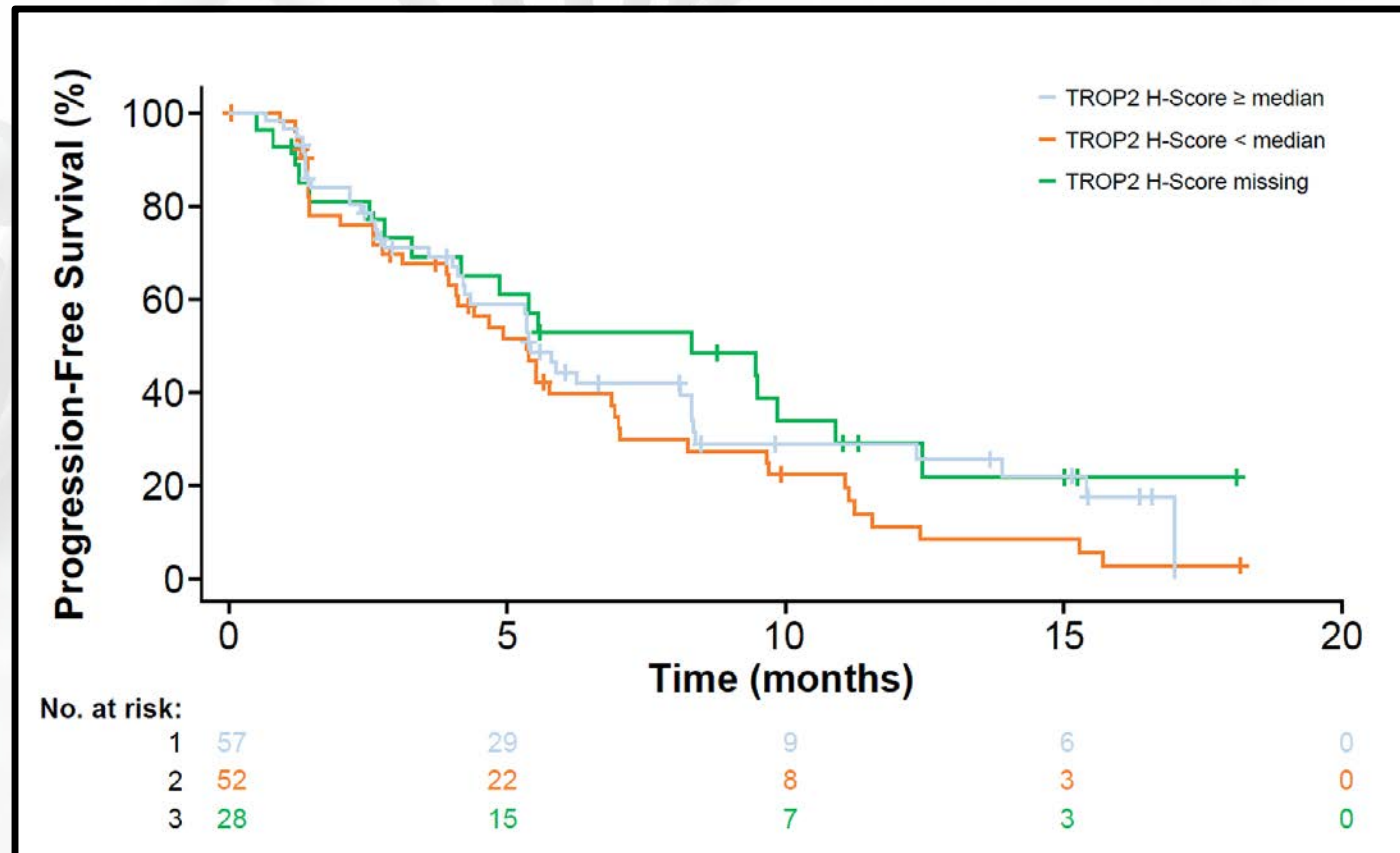
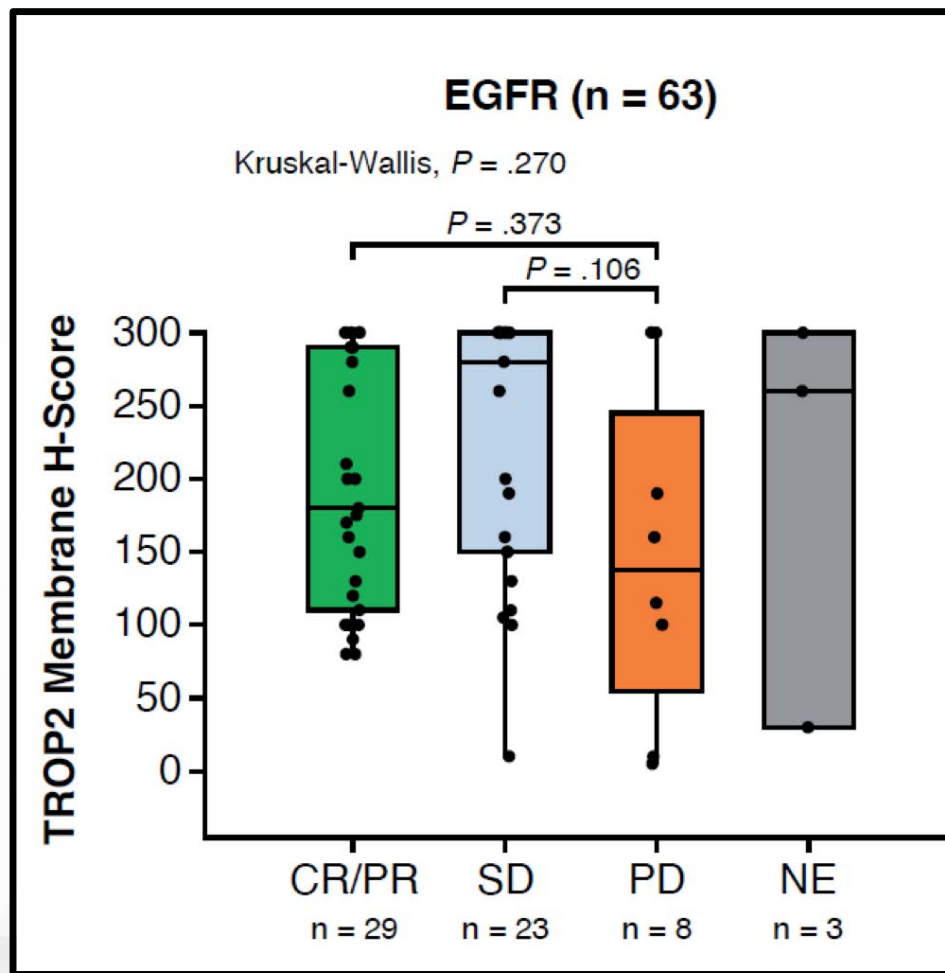


EGFR^{MT} NSCLC
Cohort

N=78 pts
RR=44%
mDOR: 7.0m
mPFS: 5.8m

Sands J et al, J Clin Oncol, 2025.

TROPION LUNG 05: EFFICACY BASED ON TROP-2 EXPRESSION LEVELS



Sands J et al, J Clin Oncol, 2025.

TROPION LUNG 05: TOXICITY

AESI	Any grade	Grade 1	Grade 2	Grade ≥3
Oral mucositis/stomatitis	90 (65.7)	45 (32.8)	30 (21.9)	15 (10.9)
Treatment discontinuation	1 (0.7)	1 (0.7) ^a	0	0
Patients with reported events (PTs)				
Stomatitis	80 (58.4)	39 (28.5)	28 (20.4)	13 (9.5)
Oropharyngeal pain	8 (5.8)	6 (4.4)	2 (1.5)	0
Dysphagia	7 (5.1)	5 (3.6)	0	2 (1.5)
Aphthous ulcer	4 (2.9)	4 (2.9)	0	0
Pharyngeal inflammation	2 (1.5)	1 (0.7)	0	1 (0.7)

Sands J et al, J Clin Oncol, 2025.

TROPION LUNG 05: TOXICITY

Ocular surface events	36 (26.3)	26 (19.0)	7 (5.1)	3 (2.2)
Treatment discontinuation	0	0	0	0
Patients with reported events (PTs)				
Dry eye	15 (10.9)	13 (9.5)	2 (1.5)	0
Vision blurred	12 (8.8)	10 (7.3)	2 (1.5)	0
Keratitis	7 (5.1)	5 (3.6)	2 (1.5)	0
Corneal disorder	2 (1.5)	0	1 (0.7)	1 (0.7)
Cornea verticillate	1 (0.7)	0	0	1 (0.7)
Punctate keratitis	1 (0.7)	0	0	1 (0.7)

Sands J et al, J Clin Oncol, 2025.

POOLED ANALYSIS OF TROPION-LUNG05 AND TROPION-LUNG01

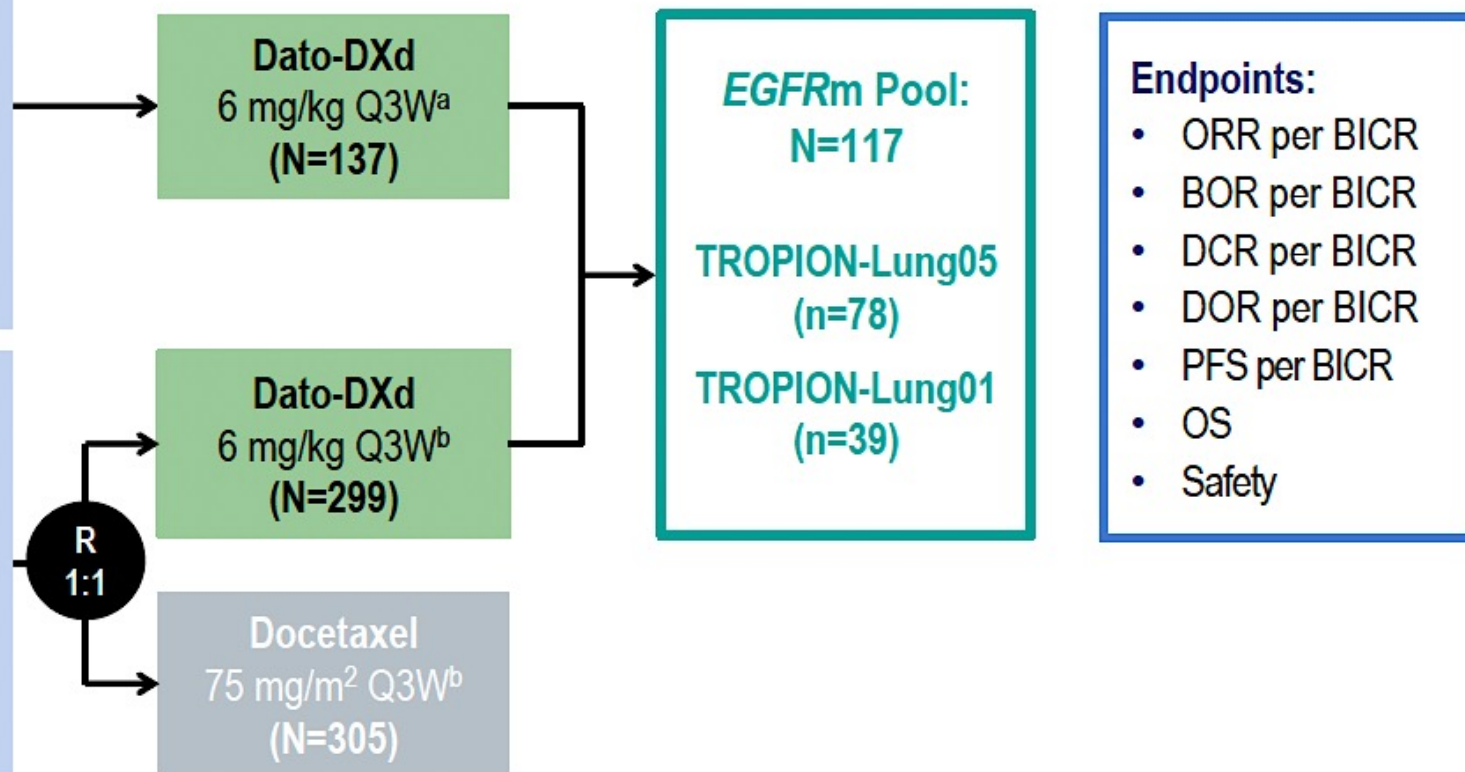
Patients with *EGFRm* NSCLC who received Dato-DXd 6 mg/kg Q3W were included in the pool

TROPION-Lung05 (Phase II study)

- Presence of ≥ 1 actionable genomic alteration (*EGFR*, *ALK*, *ROS1*, *NTRK*, *BRAF*, *MET* exon 14 skipping, or *RET*)
- ≥ 1 line of targeted therapy
- 1–2 prior cytotoxic agent-containing therapies including Pt-CT in the metastatic setting
- Radiographic disease progression after most recent therapy

TROPION-Lung01 (Phase III study)

- In those with actionable genomic alterations (*EGFR*, *ALK*, *ROS1*, *NTRK*, *BRAF*, *MET* exon 14 skipping, or *RET*)
- 1–2 prior approved targeted therapies + Pt-CT, and ≤ 1 anti-PD-(L)1 mAb
- No prior docetaxel

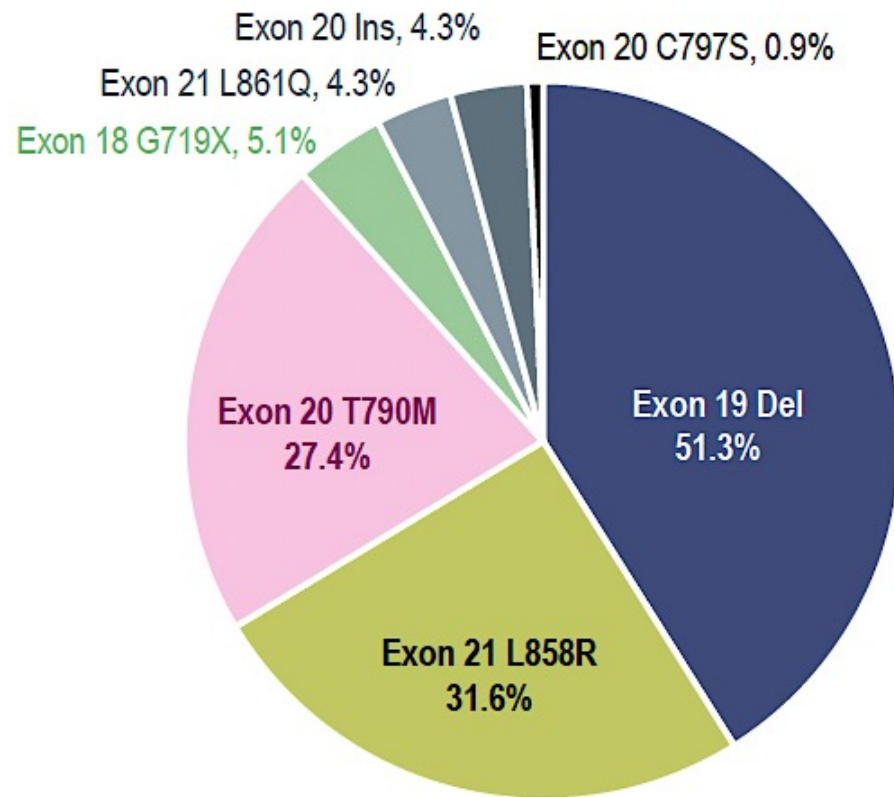


Ahn M et al. ESMO 2024;Abstract LBA7.

POOLED ANALYSIS OF TROPION-LUNG05 AND TROPION-LUNG01

Characteristic	EGFRm Pool (N=117)	TROPION-Lung05 (N=78)	TROPION-Lung01 (N=39)
Median age (range), years	63 (36–81)	63 (36–77)	62 (39–81)
Sex, female, n (%)	73 (62.4)	52 (66.7)	21 (53.8)
Race, n (%)			
Asian	81 (69.2)	55 (70.5)	26 (66.7)
White	27 (23.1)	20 (25.6)	7 (17.9)
Black or African American	1 (0.9)	0	1 (2.6)
Other/missing	8 (6.8)	3 (3.8)	5 (12.8)
ECOG PS, n (%)			
0	39 (33.3)	24 (30.8)	15 (38.5)
1	78 (66.7)	54 (69.2)	24 (61.5)
Smoker ^a , n (%)	55 (47.0)	34 (43.6)	21 (53.8)
Nonsquamous histology ^b , n (%)	115 (98.3)	77 (98.7)	38 (97.4)
Brain metastasis at study entry, n (%)	36 (30.8)	21 (26.9)	15 (38.5)
Median lines systemic therapy (range) ^c	3 (1–5)	3 (1–5)	2 (1–5)
Prior osimertinib ^d , n (%)			
First line	96 (82.1)	61 (78.2)	35 (89.7)
Second line	47 (40.2)	27 (34.6)	20 (51.3)
Second line	34 (29.1)	20 (25.6)	14 (35.9)

EGFR Mutational Profile (N=117)^e



Ahn M et al. ESMO 2024;Abstract LBA7.

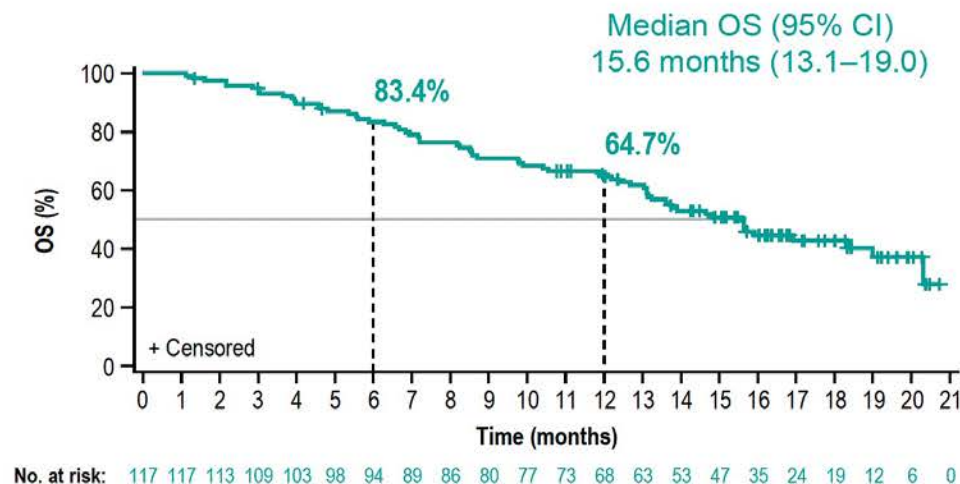
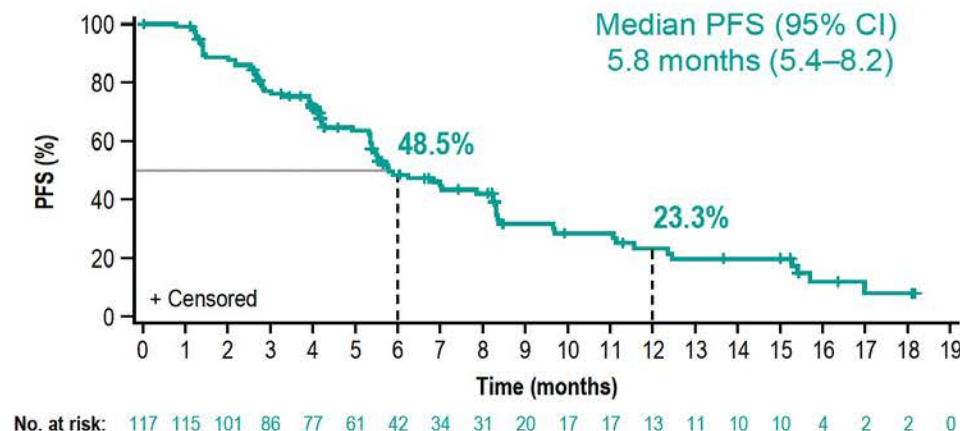
POOLED ANALYSIS OF TROPION-LUNG05 AND TROPION-LUNG01

Efficacy

Response	<i>EGFR</i> m Pool (N=117)	Prior Osimertinib (N=96)
Confirmed ORR,^a n (%) [95% CI]	50 (42.7) [33.6–52.2]	43 (44.8) [34.6–55.3]
BOR, n (%)		
CR	5 (4.3)	4 (4.2)
PR	45 (38.5)	39 (40.6)
SD	48 (41.0)	37 (38.5)
Non-CR/Non-PD	3 (2.6)	2 (2.1)
PD	12 (10.3)	10 (10.4)
NE	4 (3.4)	4 (4.2)
Median DOR, months (95% CI)	7.0 (4.2–9.8)	6.9 (4.2–9.8)
DCR,^b n (%) [95% CI]	101 (86.3) [78.7–92.0]	82 (85.4) [76.7–91.8]
Median PFS, months (95% CI)	5.8 (5.4–8.2)	5.7 (5.4–7.9)
Median OS, months (95% CI)	15.6 (13.1–19.0)	14.7 (13.0–18.3)

^aCR+PR; ^bCR+PR+SD or non-CR/non-PD. BICR, blinded independent central review; BOR, best overall response; CI, confidence interval; CR, complete response; DCR, disease control rate; DOR, duration of response; *EGFR*m, *EGFR* mutated; NE, not evaluable; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; PD, progressive disease; PR, partial response; SD, stable disease.

PFS and OS in the *EGFR*m Pool (N=117)



Ahn M et al. ESMO 2024;Abstract LBA7.

Datopotamab Deruxtecan Granted Priority Review in the US for Patients with Previously Treated Advanced EGFR-Mutated NSCLC

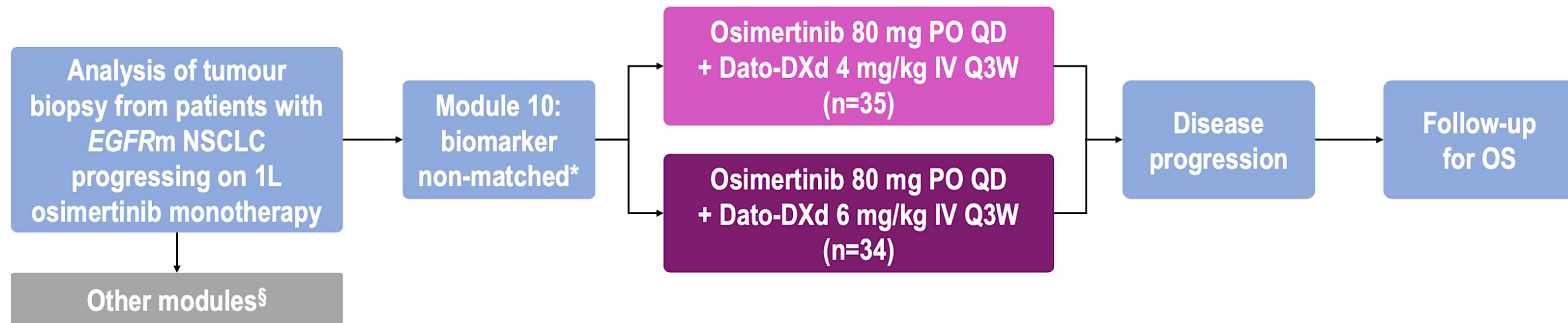
Press Release: January 13, 2025

“[The] Biologics License Application (BLA) for datopotamab deruxtecan (Dato-DXd) has been accepted and granted Priority Review in the US for the treatment of adult patients with locally advanced or metastatic epidermal growth factor receptor-mutated (*EGFR*m) non-small cell lung cancer (NSCLC) who have received prior systemic therapies, including an *EGFR*-directed therapy.

In a pooled analysis of patients with previously treated advanced or metastatic *EGFR*m NSCLC in the TROPION-Lung05 and TROPION-Lung01 trials presented at the European Society for Medical Oncology (ESMO) Asia 2024 Congress, datopotamab deruxtecan demonstrated a confirmed objective response rate (ORR) of 42.7% (95% confidence interval [CI] 33.6-52.2) as assessed by blinded independent central review (BICR) and a median duration of response (DoR) of 7.0 months (95% CI 4.2-9.8). The safety profile of datopotamab deruxtecan was consistent with previous reports from the TROPION-Lung05 and TROPION-Lung01 trials, with no new safety concerns identified.”

[https://www.astrazeneca.com/media-centre/press-releases/2025/datopotamab-deruxtecan-granted-priority-review-in-the-us-for-patients-with-previously-treated-advanced-egfr-mutated-non-small-cell-lung-cancer.html#:~:text=AstraZeneca%20and%20Daiichi%20Sankyo's%20Biologics,small%20cell%20lung%20cancer%20\(NSCLC\)](https://www.astrazeneca.com/media-centre/press-releases/2025/datopotamab-deruxtecan-granted-priority-review-in-the-us-for-patients-with-previously-treated-advanced-egfr-mutated-non-small-cell-lung-cancer.html#:~:text=AstraZeneca%20and%20Daiichi%20Sankyo's%20Biologics,small%20cell%20lung%20cancer%20(NSCLC))

ORCHARD module 10 study design



- **Primary endpoint:** ORR based on RECIST v1.1 by investigator assessment
- **Key secondary endpoints:** PFS[‡], DoR[‡], OS, AEs, SAEs

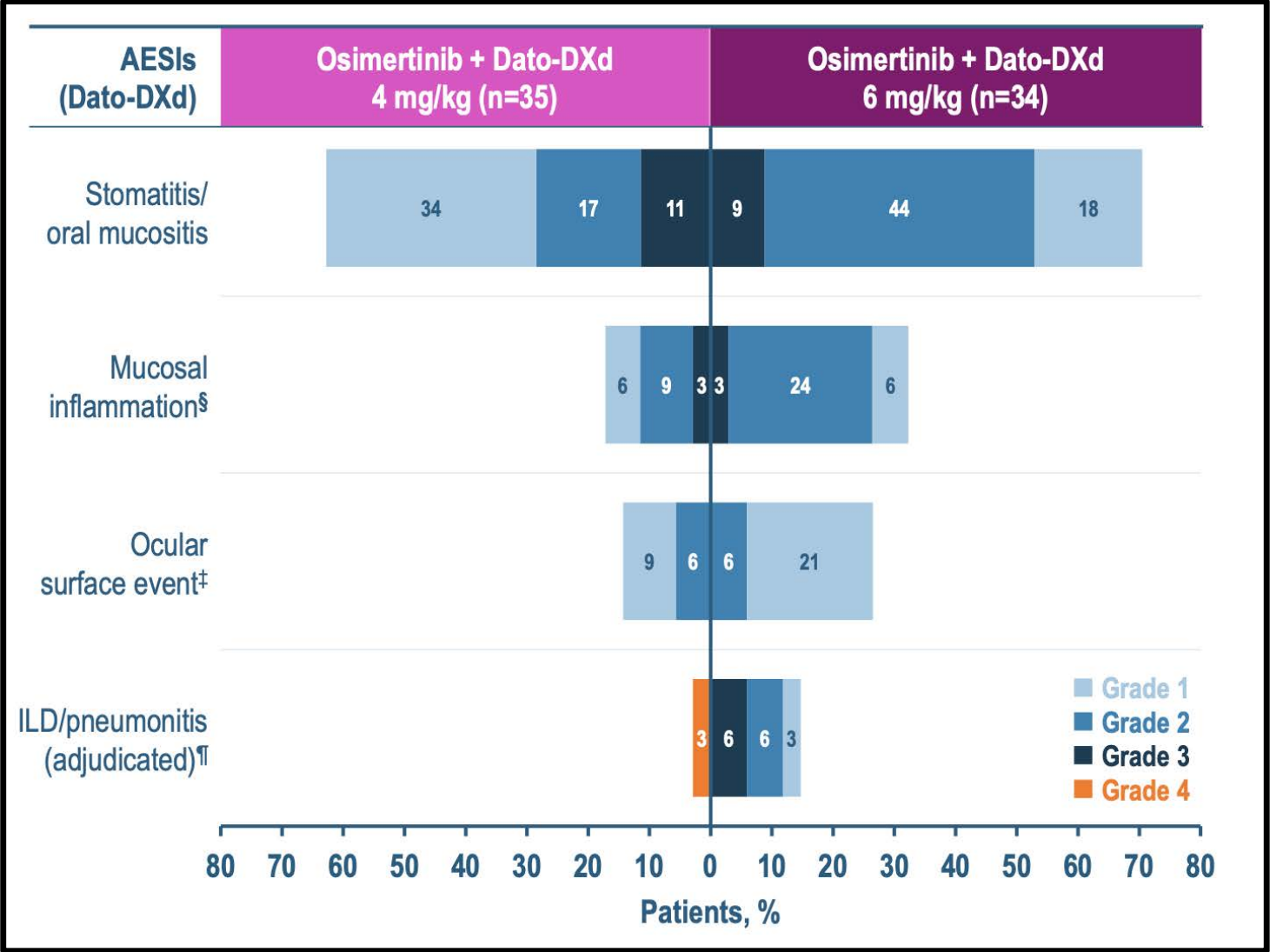
Le X et al, ELCC 2025.

ORCHARD MODULE 10: EFFICACY

	Osimertinib + Dato-DXd 4 mg/kg (n=35)	Osimertinib + Dato-DXd 6 mg/kg (n=33)
PFS		
mPFS, months (95% CI)	9.5 (7.2, 9.8)	11.7 (8.3, NC)
6-month rate, % (95% CI)	74 (56, 85)	80 (61, 91)
9-month rate, % (95% CI)	50 (33, 65)	70 (49, 83)
12-month rate, % (95% CI)	21 (9, 35)	39 (21, 57)
ORR, % (80% CI)	43 (31, 55)	36 (25, 49)
DoR		
mDoR, months (95% CI)*	6.3 (3.8, 8.2)	20.5 (6.2, NC)
6-month rate, % (95% CI)	60 (32, 80)	92 (54, 99)
9-month rate, % (95% CI)	15 (2, 38)	64 (30, 85)
Median time to onset of response, months (Q1, Q3)	2.7 (1.5, 4.1)	1.4 (1.2, 2.1)
Median duration of follow-up, months	13.4	13.8
OS events, n (%)	16 (46)	9 (27)

Sands J et al, J Clin Oncol, 2025.

ORCHARD MODULE 10: SALIENT TOXICITY



Sands J et al, J Clin Oncol, 2025.

ONGOING TRIAL

TROPION-Lung14

Phase III, randomized, open -label, multicenter, global study

Osimertinib
(EGFR)

Datopotamab
deruxtecan
(TROP2/TOP1i)



- *EGFR*m (Ex19del and/or L858R) locally advanced, metastatic (Stage IIIB/C or IV), or recurrent nonsquamous NSCLC
- No prior EGFR-TKI therapy or prior treatment for advanced disease
- WHO PS 0 or 1
- Measurable disease per RECIST v1.1
- Stable CNS metastases are allowed

N≈582^a

Safety run in
(n=20)

Dato-DXd 6 mg/kg
IV Q3W
+
Osimertinib 80 mg
PO QD

R 1:1

Randomized Phase 3 trial
(N=562)

Dato-DXd 6 mg/kg IV Q3W
+
Osimertinib 80 mg PO QD

Osimertinib 80 mg PO QD

Stratification Factors:

- Mutation type (Ex19Del vs L858R)
- WHO PS (0 vs 1)
- CNS metastasis (Yes vs No)

Primary Endpoint

- PFS by BICR

Secondary Endpoints

- OS
- CNS PFS^b
- PFS^c
- ORR (CR+PR)^d
- DoR^d
- Prevention of CNS metastases^e
- PF2
- PK
- ADA for Dato-DXd
- Safety

MANAGEMENT OF STOMATITIS RELATED TO DATOPOTAMAB

Grade	Symptoms	Recommended Interventions	Dose Modifications
Grade 1	Minimal symptoms, no impact on daily activities	Maintain oral hygiene, use mouth rinses	No dose modification
Grade 2	Moderate pain, some impact on daily activities	Topical analgesics, increase oral hygiene measures	Consider dose reduction if persistent
Grade 3	Severe pain, significant impact on daily activities	Systemic analgesics, consider dose reduction	Dose reduction or interruption until improvement
Grade 4	Life-threatening, urgent intervention required	Hospitalization, intravenous analgesics, discontinue treatment	Discontinue treatment

- ☐ Use dexamethasone oral solution 0.1 mg/mL for prophylaxis 4 times daily
- ☐ Hold ice chips in mouth during infusion

DATOPOTAMAB DERUXTECAN: MANAGEMENT OF KEY TOXICITY

Keratitis¹

Severity	Dose modification
Nonconfluent superficial keratitis	<ul style="list-style-type: none"> Monitor
Confluent superficial keratitis, a cornea epithelial defect, or 3-line or more loss in best corrected visual acuity	<ul style="list-style-type: none"> Withhold until improved or resolved, then maintain at same dose level or consider dose reduction
Corneal ulcer or stromal opacity or best corrected distance visual acuity 20/200 or worse	<ul style="list-style-type: none"> Withhold until improved or resolved, then reduce by 1 dose level
Corneal perforation	<ul style="list-style-type: none"> Permanently discontinue

ILD/pneumonitis¹

Severity	Dose modification
Asymptomatic Grade 1	<p>Withhold datopotamab deruxtecan until ILD/pneumonitis is completely resolved, then:</p> <ul style="list-style-type: none"> If resolved in ≤ 28 days, maintain dose If resolved in > 28 days, reduce by 1 dose level Consider corticosteroid treatment (eg, ≥ 0.5 mg/kg/day prednisolone or equivalent)
Symptomatic Grade ≥ 2	<ul style="list-style-type: none"> Permanently discontinue Promptly initiate systemic corticosteroid treatment (eg, ≥ 1 mg/kg/day prednisolone or equivalent) and continue for ≥ 14 days followed by gradual taper for ≥ 4 weeks

- ☐ Preservative-free lubricant eye drops at least 4 times daily
- ☐ Baseline ophthalmology evaluation
- ☐ Avoid using contact lenses during infusion

ONGOING TRIAL

TROPION-Lung15

Phase III, randomized, open -label study ¹⁻³

Osimertinib
(EGFR)

Datopotamab
deruxtecan
(TROP2/TOP1i)



Dual Primary Endpoint

- PFS by BICR (monotherapy vs chemotherapy)
- PFS by BICR (combination vs chemotherapy)

Secondary Endpoints

- OS
- CNS PFS^c
- ORR^d
- DoR^e
- PFS2
- ORR^f
- DoR^f
- TTD^g
- PK
- ADA for Dato-DXd
- Safety

- Patients with advanced/metastatic NSCLC
- EGFRm (Ex19del, L858R, G719X, S768I, or L861Q either alone or in combination with other EGFR mutations, which may include T790M)
- Locally advanced, metastatic (Stage IIIB/C or IV), or recurrent non-squamous NSCLC
- Progressed on ≤2 lines of EGFR TKIs^b
- WHO PS 0 or 1
- Measurable disease per RECIST v1.1

N≈630^a

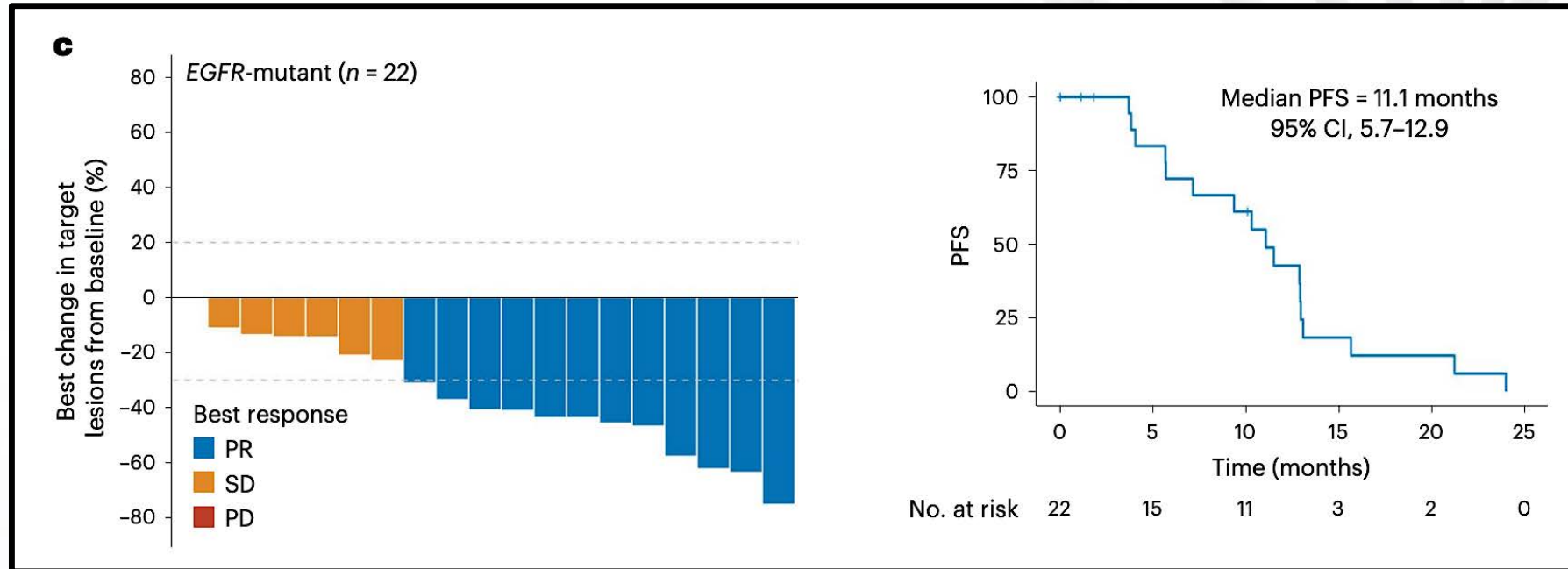
R
1:1:1

Dato-DXd 6 mg/kg IV Q3W
+
Osimertinib 80 mg PO QD

Dato-DXd 6 mg/kg IV Q3W

Pemetrexed 500 mg/m²
+
carboplatin AUC5 OR cisplatin 75 mg/m²
IV Q3W (max. 4 cycles)
Followed by
Pemetrexed 500 mg/m² IV Q3W

SACITUZUMAB TIRUMOTECAN IN EGFR^{MT} NSCLC



RR: 55%
mPFS 11.1m

Prior chemo cohort:

RR: 42%
mPFS: 7.2m

Chemo-naïve cohort:

RR: 70%
mPFS: 12.9m

Salient AE:
Neutropenia
Stomatitis

Zhao S et al, Nature Med, 2025.

KEY ASCO PRESENTATIONS

Oral Presentation

6/1/2025

8:00 AM-11:00 AM CDT

- Sacituzumab tirumotecan (sac-TMT) in patients (pts) with previously treated advanced EGFR-mutated non-small cell lung cancer (NSCLC): Results from the randomized OptiTROP-Lung03 study.
- ABSTRACT 8507

Poster

5/31/2025

1:30 PM-4:30 PM CDT

- Sacituzumab Tirumotecan (sac-TMT) in patients (pts) with previously treated locally advanced or metastatic (LA/M) non-small cell lung cancer (NSCLC) harboring uncommon EGFR mutations: Preliminary results from a phase 2 study.
- ABSTRACT 8615

Based on the published literature and/or your clinical experience, would you like to have access to datopotamab deruxtecan (Dato-DXd) right now for patients with nonsquamous mNSCLC with an EGFR mutation?



Prof Girard

I'm not sure



Dr Goldman

Yes



Dr Jänne

Yes



Dr Ramalingam

Yes



Dr Sabari

I'm not sure



Dr Yu

Yes



Dr Gadgeel









I'm not sure











Dr Spira

Yes

If Dato-DXd were to become available for the treatment of relapsed nonsquamous mNSCLC with an EGFR deletion mutation, when, if at all, would you integrate it into the treatment algorithm for patients who received first-line targeted therapy as described?









		Osimertinib	Osimertinib with chemotherapy	Amivantimab/ lazertinib
	Prof Girard	Third line after amivantamab + chemotherapy	Second line	Third line after chemotherapy + ivonescimab
	Dr Goldman	Third line after amivantamab + chemotherapy	Second line	Third line
	Dr Jänne	Second line	Second line	Second or third line
	Dr Ramalingam	Third line	Second line	Third line
	Dr Sabari	Third line	Second or third line	Third line
	Dr Yu	After amivantamab + chemotherapy	After amivantamab + chemotherapy	After osimertinib + chemotherapy
	Dr Gadgeel	After second line	Second or third line	Second or third line
	Dr Spira	After amivantamab + chemotherapy	After amivantamab + chemotherapy	—

Based on the published literature and/or your clinical experience, what is the primary toxicity patients experience during treatment with Dato-DXd that leads to withholding this regimen?









	Prof Girard	Stomatitis
	Dr Goldman	Mucositis
	Dr Jänne	Mucositis
	Dr Ramalingam	Stomatitis
	Dr Sabari	Stomatitis, ILD, hematologic toxicities
	Dr Yu	Mucositis; fatigue
	Dr Gadgeel	Fatigue
	Dr Spira	Mucositis

ILD = interstitial lung disease

Based on the published literature and/or your clinical experience, approximately what proportion of patients with EGFR mutation-positive nonsquamous mNSCLC receiving Dato-DXd experience mucositis? What preemptive strategies, if any, do you employ to prevent the development of mucositis associated with Dato-DXd?

	Chance of developing mucositis	Preemptive strategies
 Prof Girard	30%	Easy to manage
 Dr Goldman	65%	Oral dexamethasone rinse prophylaxis
 Dr Jänne	50%	Steroid mouthwash
 Dr Ramalingam	50%	Oral dexamethasone rinse prophylaxis
 Dr Sabari	40%	Oral dexamethasone; ice pops
 Dr Yu	60%	Oral dexamethasone rinse prophylaxis
 Dr Gadgeel	15%	Steroid mouthwash, ice chips
 Dr Spira	80%	Oral dexamethasone rinse prophylaxis

Based on the published literature and/or your clinical experience, approximately what proportion of patients with EGFR mutation-positive nonsquamous mNSCLC receiving Dato-DXd experience interstitial lung disease (ILD)?
What is your approach to screening for ILD in patients with EGFR mutation-positive nonsquamous mNSCLC receiving Dato-DXd?

		Chance of developing ILD	ILD screening approach
	Prof Girard	3%	Imaging assessments of disease
	Dr Goldman	5%	Imaging every 6-9 weeks; clinical symptoms
	Dr Jänne	5%-10%	Surveillance imaging and symptom-guided management
	Dr Ramalingam	10%	Clinical monitoring and radiographic images
	Dr Sabari	15%	Close CT chest monitoring, holding therapy for GI toxicity
	Dr Yu	10%	Clinical symptoms and scan assessments of disease
	Dr Gadgeel	6%	Scans every 2 cycles for the first 4 cycles, then every 3 cycles for the first year
	Dr Spira	5%	Imaging assessments of disease

Agenda

MODULE 1: Evolving First-Line Treatment for Metastatic EGFR Mutation-Positive Non-Small Cell Lung Cancer (NSCLC) — Dr Yu

MODULE 2: EGFR-Targeted Approaches for Relapsed EGFR-Mutant NSCLC; Strategies to Facilitate Delivery of Recently Approved Agents — Dr Sabari

MODULE 3: Potential Utility of TROP2-Targeted Therapy in the Management of EGFR-Mutant NSCLC — Dr Ramalingam

MODULE 4: Contemporary Care for Patients with Nonmetastatic EGFR-Mutant NSCLC — Dr Goldman

MODULE 5: Current and Future Management of EGFR Exon 20 Mutation-Positive NSCLC — Prof Girard

MODULE 6: Emerging Role of HER3-Targeted Therapy in the Management of EGFR-Mutant NSCLC — Dr Jänne

Optimal Care for Patients with Nonmetastatic EGFR-Mutant NSCLC

Jonathan Goldman, MD

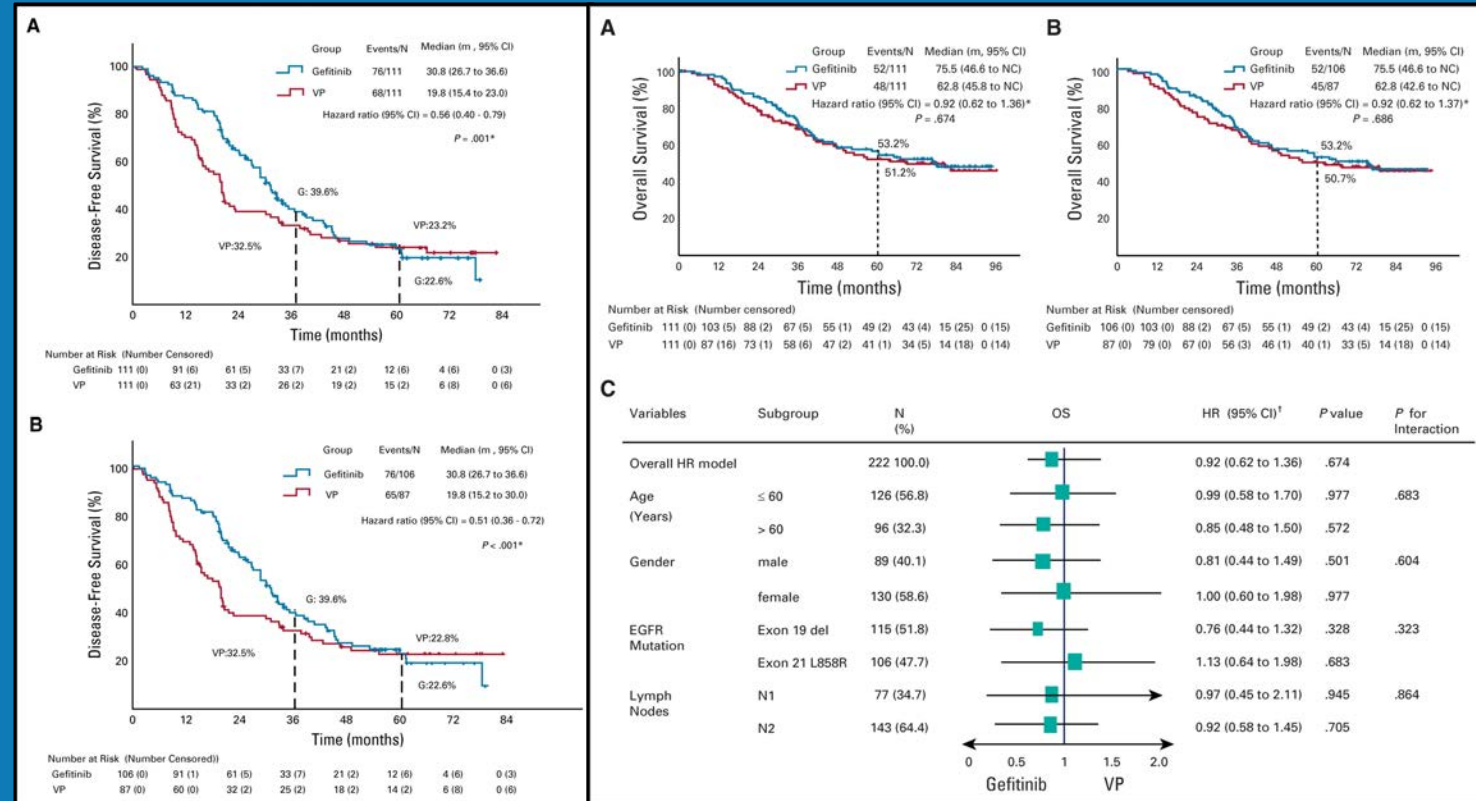
Professor, UCLA Hematology & Oncology
Director of Clinical Trials in Thoracic Oncology
Associate Director of Drug Development

Three Approaches to Adjuvant Systemic Therapy for NSCLC

1. Chemotherapy carries high toxicity, with high number to treat to lead to 1 cure (10-20:1)
2. Immunotherapy can provide a significant DFS benefit, with promising durability, especially in higher stage, high PDL1 disease
3. Mutation-targeted TKI based treatment has a high response rate but the duration of response in the metastatic setting is typically 1.5 to 3 years, which may or may not be associated with a *cure* in the adjuvant setting

1st Gen EGFR TKI Trials

1. **RADIANT**: erlotinib v placebo
 - 973 subjects, EGFR+, IHC or FISH.
 - Among EGFRm, DFS 46 v 29m, NS.
2. **SELECT**: erlotinib
 - 69% completed 2y course
 - 2 yr DFS 88%
3. **CTONG1104**: gefitinib v chemo
 - Improved DFS
 - OS 75 v 63 m, NS
4. **EVIDENCE**: icotinib v chemo
 - Improved DFS, similar OS (immature)



Kelly, JCO 2015. Pennell, JCO 2019. Zhong, JCO 2021. He, Lancet Respir Med, 2021.

Practice Changing:

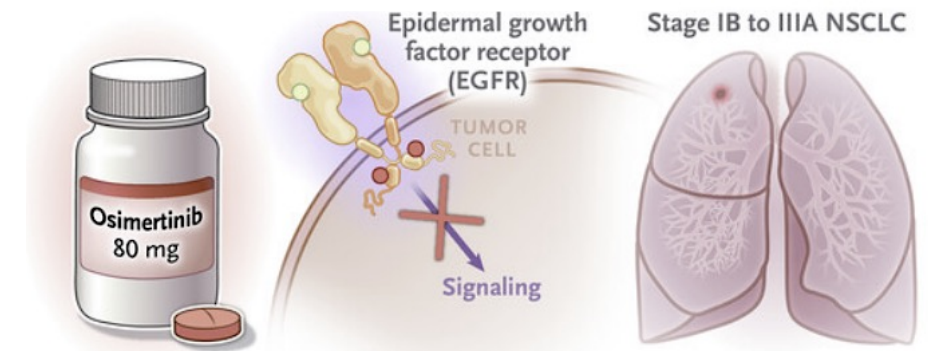
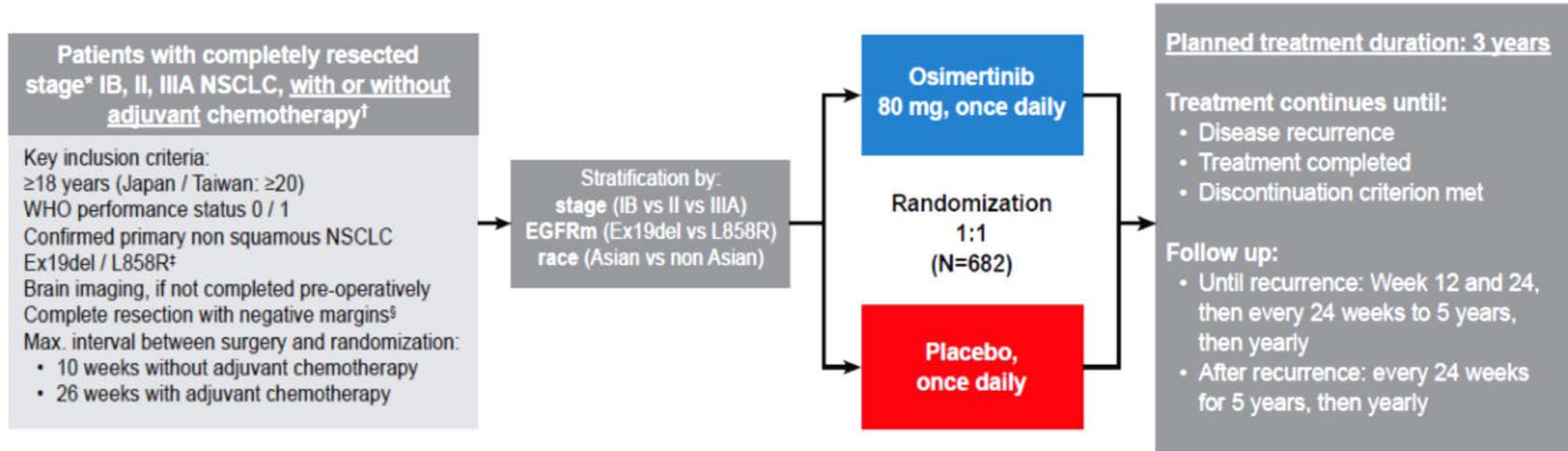
1. ADAURA: adjuvant osimertinib vs placebo for 3 years for stage IB-IIIa
2. LAURA: adjuvant osimertinib vs placebo until disease progression for stage IIIa/B/C

Practice Informing:

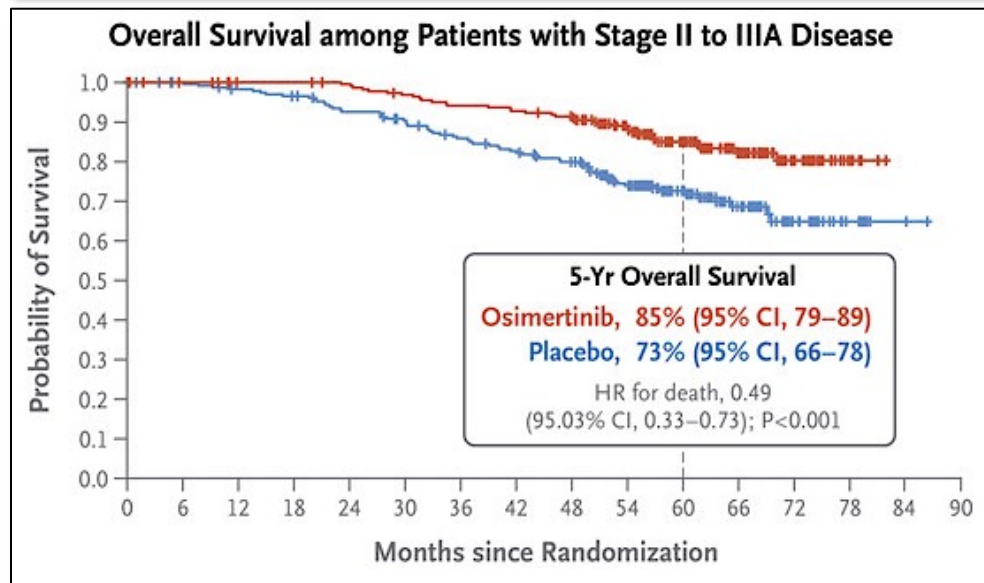
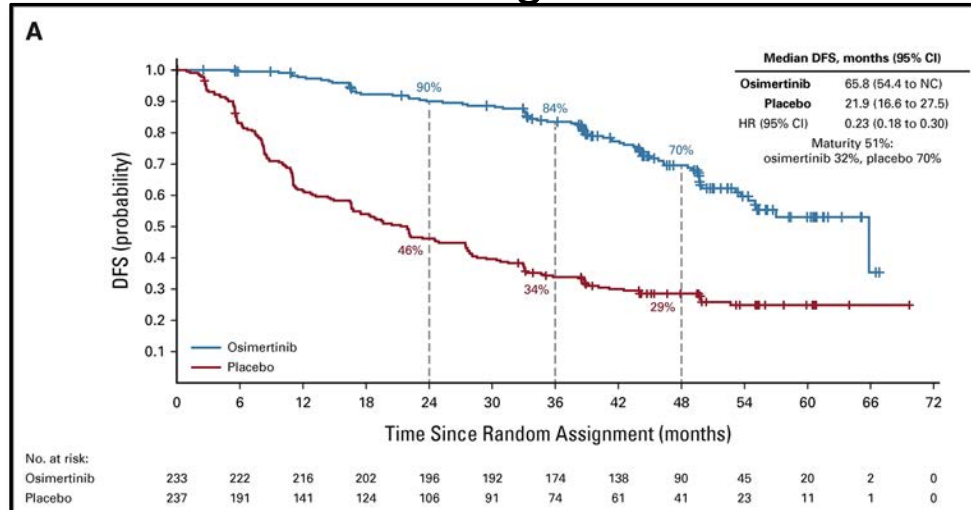
1. NEOS trial (Lv, et al, Lung Cancer 2023)
2. Neoadjuvant osimertinib for stage I-IIIa (Blakely, et al, JCO 2024)

Underway:

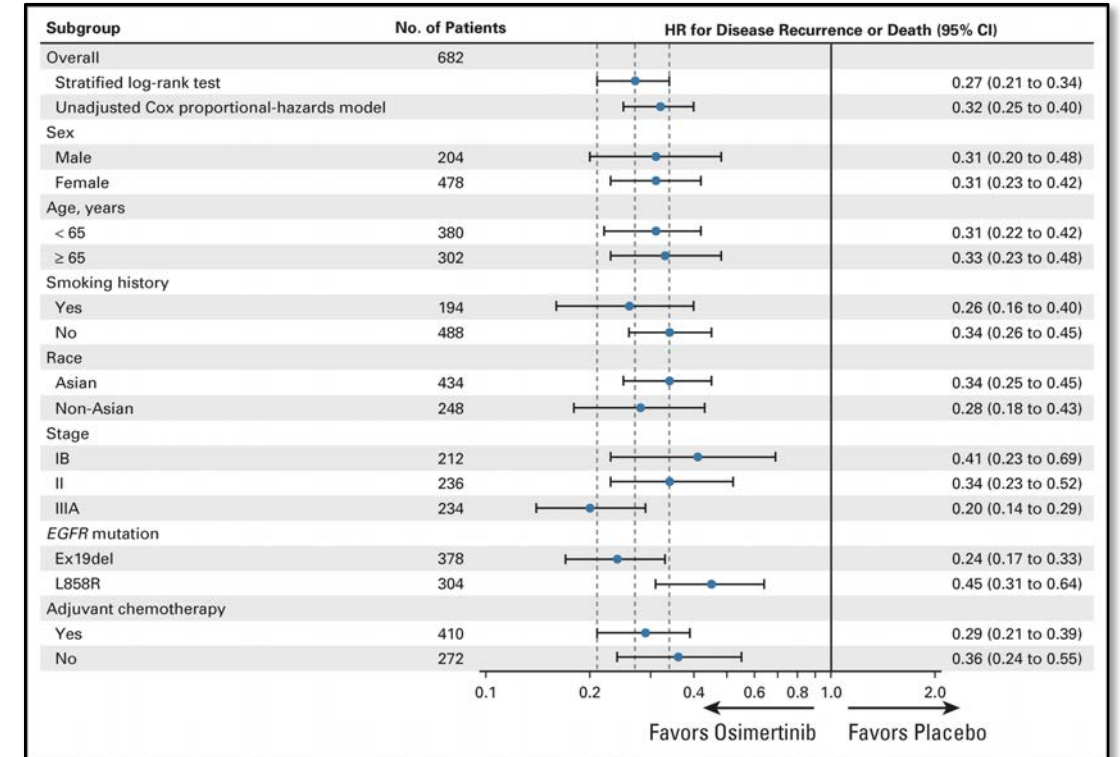
1. NeoADAURA: neoadjuvant chemotherapy, osimertinib, or chemo-osimertinib for stage II-IIIb N2, followed by adjuvant osimertinib, reporting at ASCO 2025.
2. ADAURA2: adjuvant osimertinib vs placebo for 3 years for stage IA2/3
3. TARGET: adjuvant osimertinib for 5 years for stage II-IIIb
4. PACIFIC-4 (EGFR subset): Osimertinib following SBRT in patients with stage I-II unresected EGFRm NSCLC



DFS in Stage II-IIIa



Forest Plot

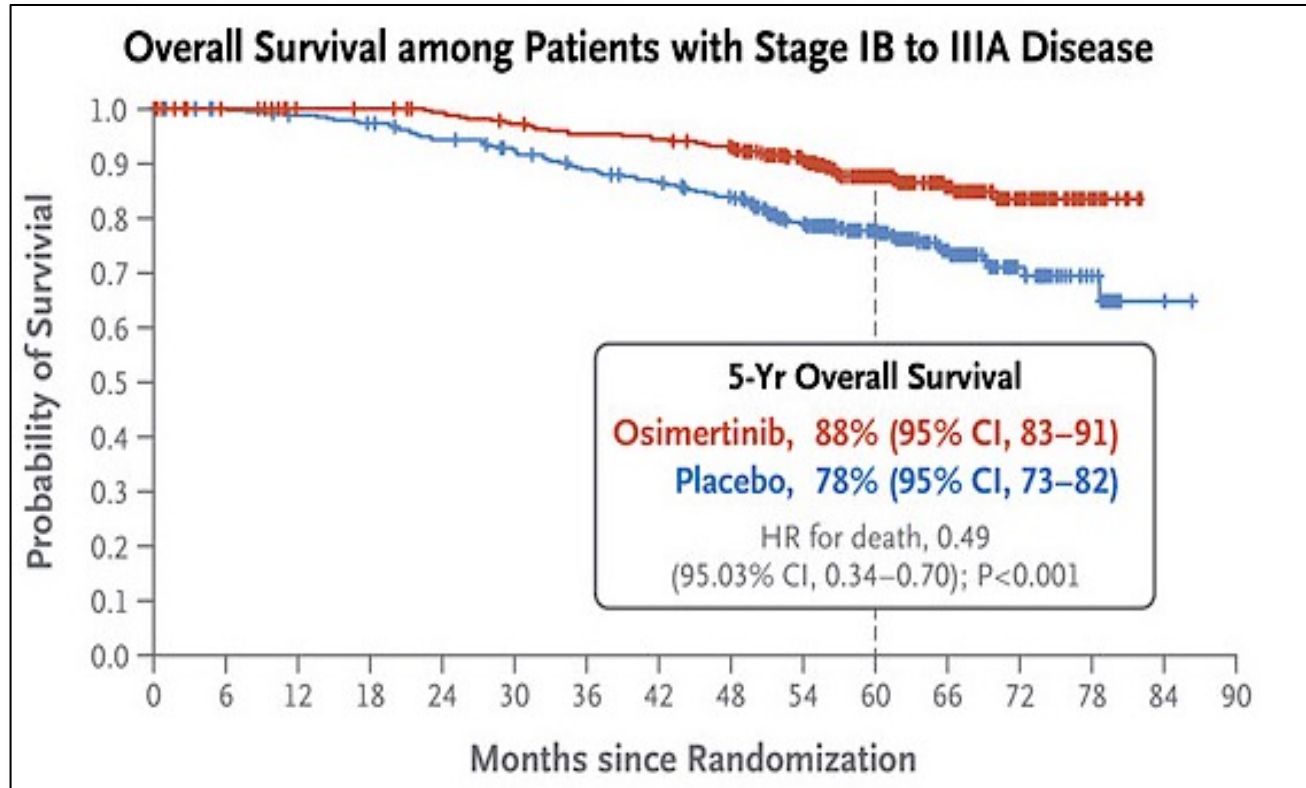


- 5-year OS with Osimertinib was 85%, vs placebo at 73%
- *Median follow up*: Greater than 5+ years for both arms
- mOS was not reached

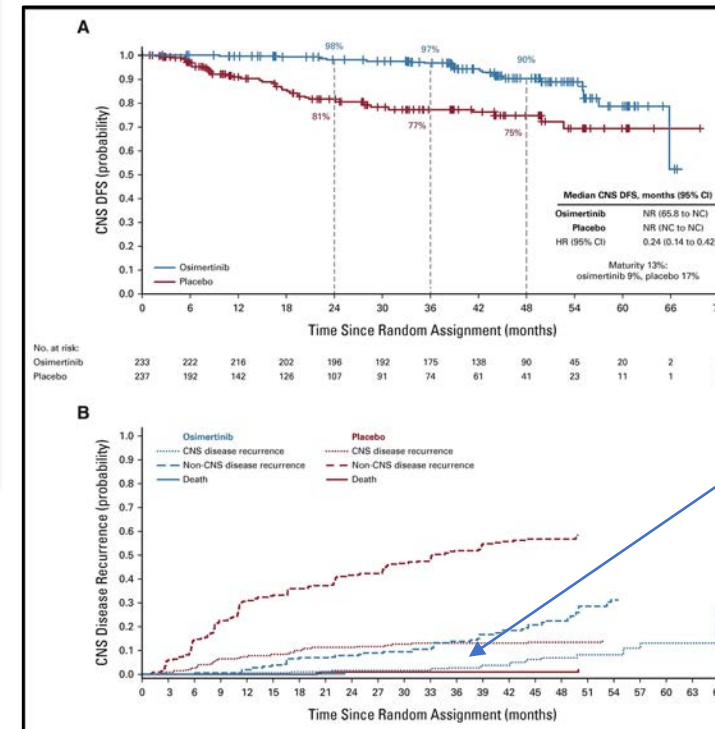
Wu, NEJM 2020.

Tsuboi, NEJM 2023 and Herbst, JCO 2023.

ADAURA: OS in Overall Population



- 5-year OS with Osimertinib was 88%
- Placebo at 78%
- *Median follow up for OS: 60.4 months with Osimertinib and 59.4 with placebo.*



CNS Control

CNS events creep up at 36 m

NSCLC Biomarker Testing in the Operative Setting

- EGFR mutation and ALK fusion are required based on FDA approvals
- PD-L1 testing may also be helpful to predict immunotherapy benefit for non-oncogene driven (non-AGA) pts

EGFR by PCR, ALK by IHC or FISH, and PD-L1 by IHC;
or, NGS (ideally from tissue) and PD-L1 by IHC;
or, a combination.

Sufficient tissue and rapid turn-around times are crucial.

- Future directions include testing for other optimally targeted oncogenes:
 - Yes: RET
 - No: KRAS G12C, BRAF
 - Maybe: ROS1, HER2, EGFR exon 20, MET, NTRK

Take home points:

- DFS and OS benefits for stage IB-III A strongly support adjuvant osimertinib for 3 years
- Necessary Triad for Potential Adjuvant TKI: high response rate (>50-60%), excellent tolerability for prolonged use, and good CNS penetration
- Adjuvant TKIs may or may not lead to “cures,” but a significant increase in DFS may lead to improved OS
- Future directions may include new targeted agents, longer durations of adjuvant therapy for higher stage and higher risk disease (possibly informed by an MRD analysis)

ADAURA-2: study design

ADAURA2 (NCT05120349) is a Phase III, global, randomised, double-blind study of adjuvant osimertinib in **stage IA2–IA3 EGFRm (Ex19del or L858R) NSCLC** following complete tumor resection

Adult participants with completely resected stage IA2 or IA3* EGFRm NSCLC

Key inclusion criteria:

- Aged ≥ 18 years
- Confirmed primary non-squamous pathological stage IA2 or IA3* NSCLC
- EGFR mutation (Ex19del or L858R) either alone or in combination with other EGFR mutations
- Complete (R0) surgical resection of the primary tumour with negative margins (by lobectomy, segmentectomy or sleeve resection)
- Tumour sample submission for central pathology assessment of:
 - Invasive tumour size
 - Presence of lymphovascular invasion
 - Tumour histology
- WHO performance status 0 / 1
- No pre- / post-operative radiotherapy or systemic therapy
- Not eligible for any other local SOC treatment

Stratification by:

- **Risk** (high risk vs low risk[†])
- **EGFR mutation type** (Ex19del vs L858R)
- **Race** (Chinese Asian vs non-Chinese Asian vs non-Asian)

**Osimertinib 80 mg
PO QD**

**Randomisation 1:1
(N=380)**

Placebo PO QD

**3-year treatment duration
until treatment completion
or discontinuation, or
disease recurrence**

*Based on the eighth edition UICC / AJCC TNM staging system. †High risk defined as presence of ≥ 1 of the following factors: largest diameter of invasive component of primary tumor > 2 cm, lymphovascular invasion and / or high-grade histology ($\geq 20\%$ micropapillary, solid or complex gland adenocarcinoma). Low risk defined as absence of any high-risk factors.

Primary endpoint:

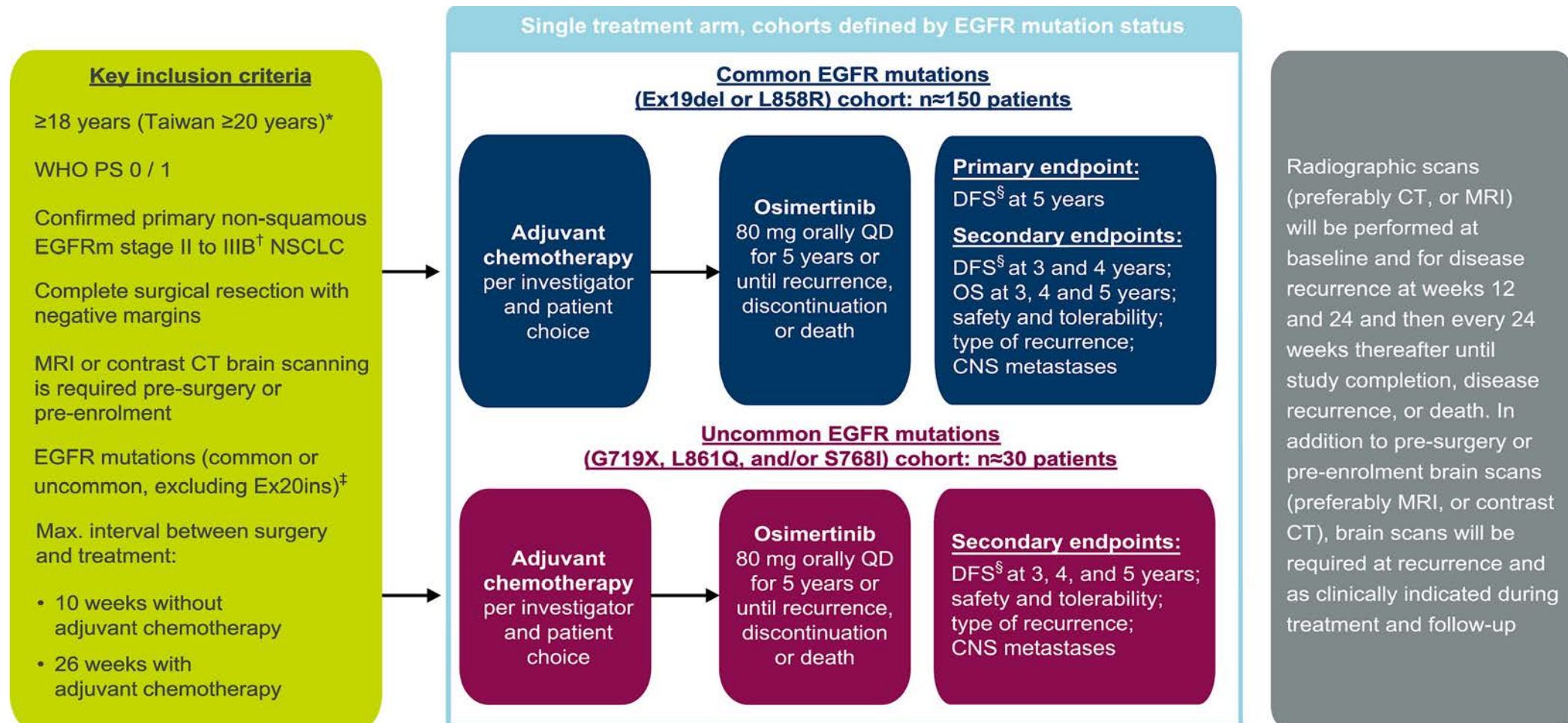
DFS per investigator assessment in high-risk[†] stratum

Secondary endpoints:

- DFS in overall population
- OS in high-risk[†] stratum
- OS in overall population
- HRQoL
- Safety / tolerability
- PK
- CNS DFS

TARGET: study design

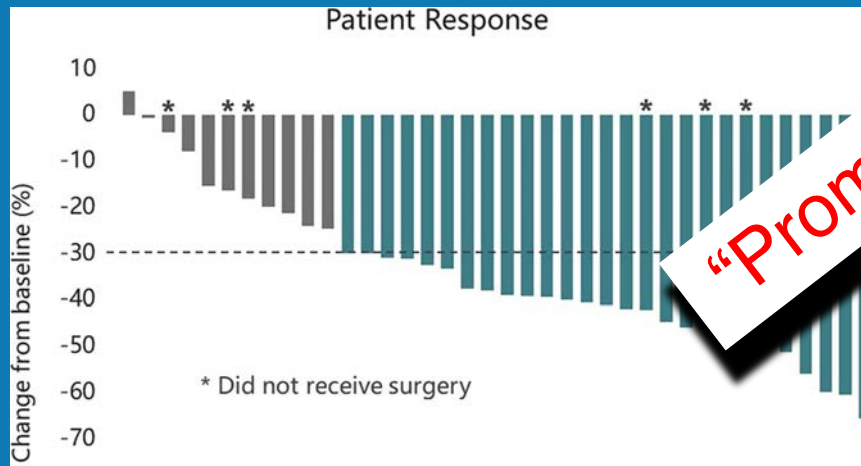
TARGET (NCT05526755) is a Phase II, multinational, open-label, single-arm study of adjuvant osimertinib **for 5 years** in stage II–IIIB EGFRm (common or **uncommon**) NSCLC following complete tumor resection



Neoadjuvant osimertinib

NEOS trial

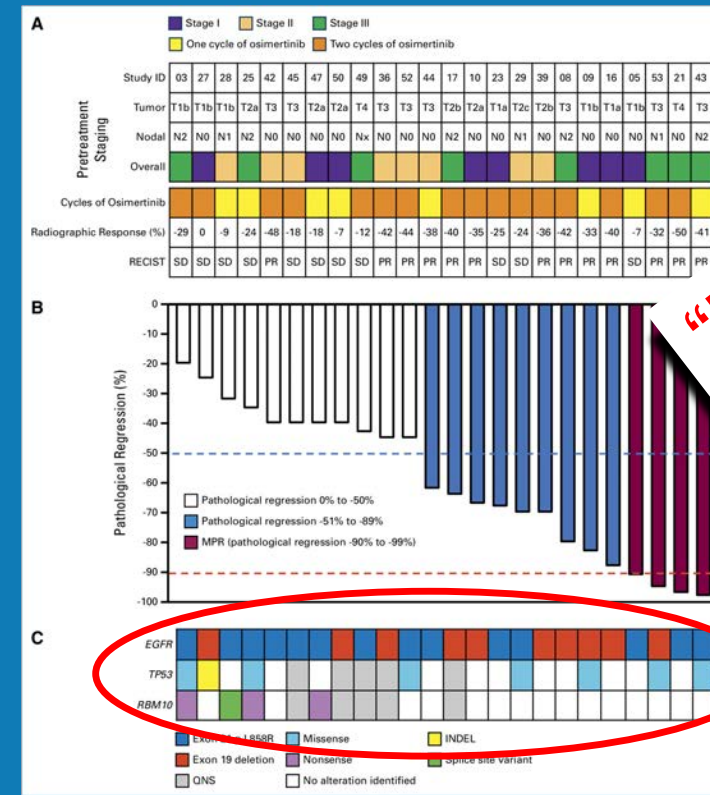
Enrolled 40 subjects, stage II-IIIb.
2 withdrew consent prior to completing 6w osimertinib.



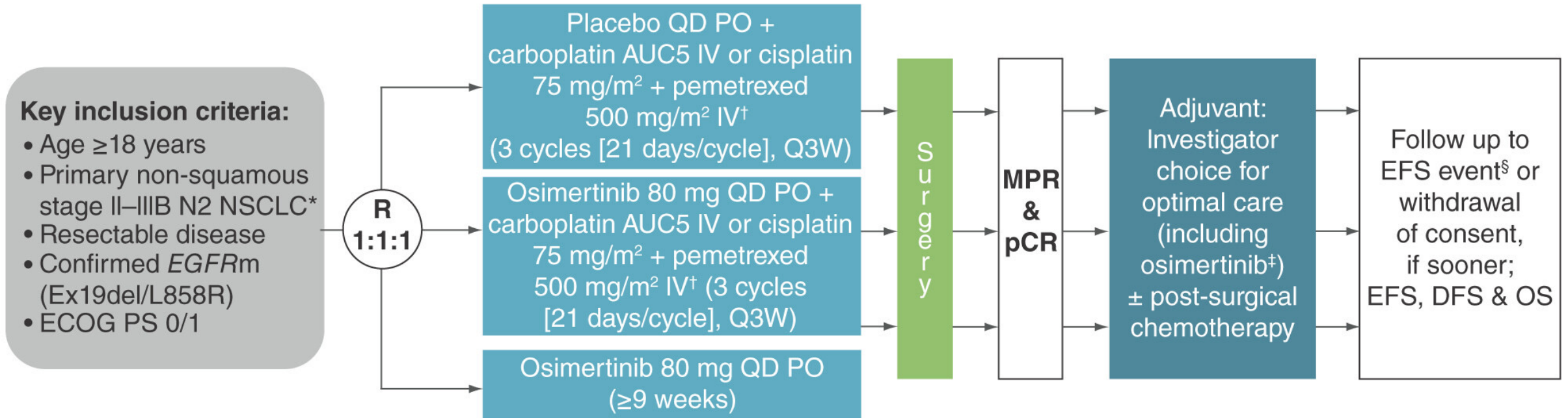
- ORR seen in 27/38 (71.1%)
- 30/32 (93.8%) R0 resections
- 3/28 (10.7%) major path response, incl 1 (3.6%) path CR
- Downstaging in 15/32 (46.9%)
 - 7/17 (41.2%) pts with N2 disease → N1 (2) or N0 (5)

Blakely trial

Enrolled 27 subjects, stage IA-IIIa, to receive 1-2 m osimertinib.



- ORR 51.9%
- 1/28 PD
- 23/24 (95.8%) R0 resections
- 3/28 (10.7%) major path response, incl 1 (3.6%) path CR
- Upstaging in 4 (12.5%)
- Downstaging in 13/24 (54.2%)
 - 3/5 (60%) pts with N2 disease → N1 (1) or N0 (2)
- mDFS 40.9 m



NeoADAURA (NCT04351555), is a phase III, randomized study that evaluates neoadjuvant osimertinib \pm chemotherapy. Planned to enroll 351 patients with resectable stage II–IIIB (8th ed) EGFR-mutated NSCLC. The primary endpoint is major pathological response. Secondary endpoints include event-free survival, pathological complete response, nodal downstaging at the time of surgery, disease-free survival, overall survival and health-related quality of life.

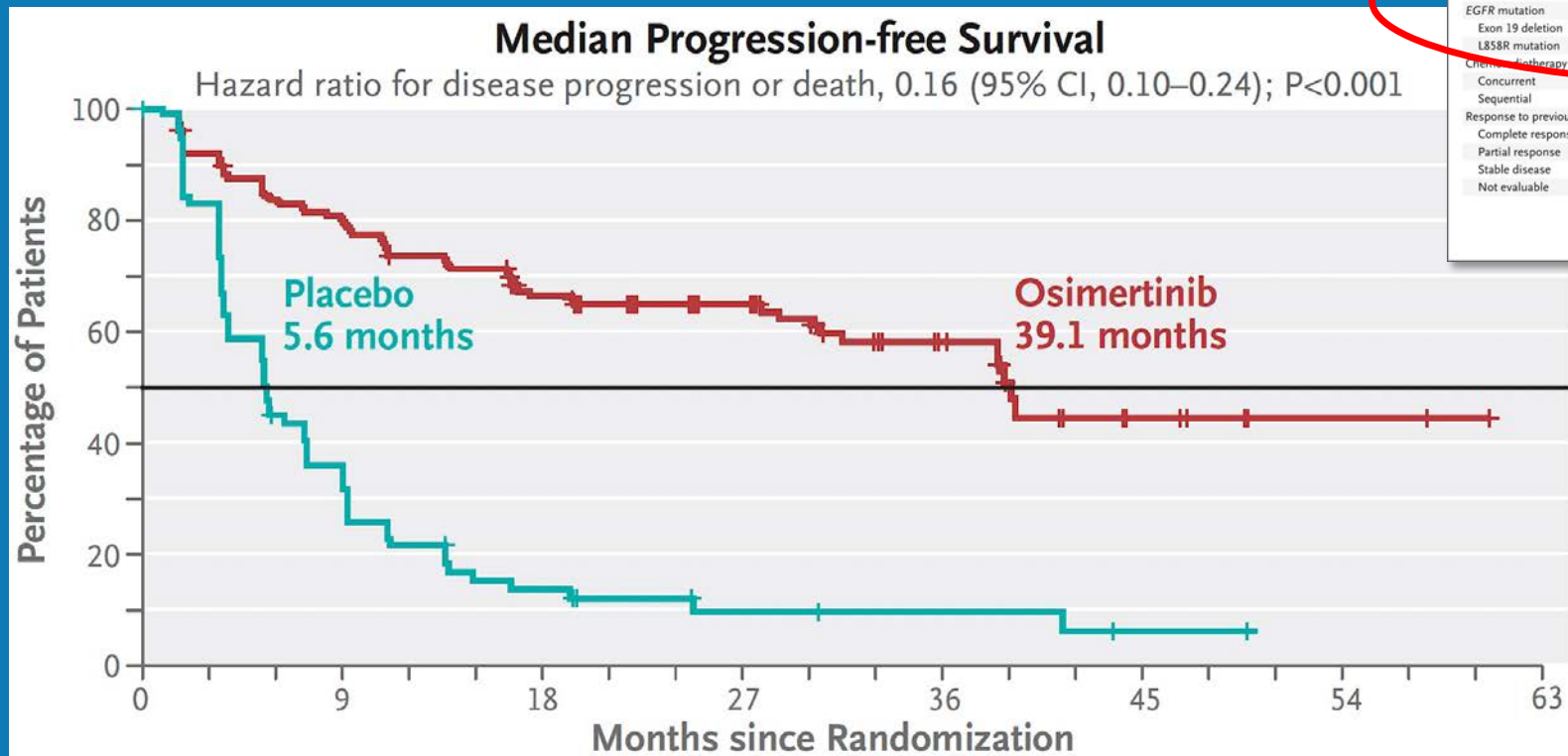
Abstract 8001 oral session, ASCO 2025, Chaft, et al. Major path response rate 26% and 25% in osi-containing arms, and 2% in PBO-chemo arm. pCR rate 4% and 9% vs 0%.

LAURA trial: consolidation osimertinib

Trial Design

216 pts, following chemoradiation, randomized 2:1 to osimertinib vs placebo until progression per BICR

Primary Endpoint: PFS



Subgroup	Osimertinib no. of events/no. of patients	Placebo no. of events/no. of patients	Hazard Ratio for Disease Progression or Death (95% CI)
Overall			
Stratified log-rank analysis	57/143	63/73	0.16 (0.10–0.24)
Unadjusted Cox proportional-hazards analysis	57/143	63/73	0.23 (0.16–0.33)
Sex			
Male	23/53	27/31	0.26 (0.15–0.46)
Female	34/90	36/42	0.21 (0.13–0.34)
Age			
<65 yr	31/81	36/39	0.16 (0.10–0.26)
≥65 yr	26/62	27/34	0.33 (0.19–0.57)
Smoking history			
Current or former	20/41	22/24	0.26 (0.14–0.48)
Never	37/102	41/49	0.22 (0.14–0.34)
Race or national group			
Chinese	7/27	11/13	NC (NC–NC)
Non-Chinese	50/116	52/60	0.26 (0.17–0.39)
Asian	49/116	52/60	0.20 (0.13–0.29)
Non-Asian	14/27	8/11	0.48 (0.20–1.19)
Stage			
IIIA	22/52	20/24	0.28 (0.15–0.52)
IIIB or IIIC	35/91	43/49	0.21 (0.13–0.33)
EGFR mutation			
Exon 19 deletion	26/74	39/43	
L858R mutation	31/68	24/30	
Chemotherapy			
Concurrent	63/133	63/73	
Sequential	4/12	9/11	
Response to previous CRT			
Complete response	1/4	2/3	
Partial response	28/67	25/27	
Stable disease	24/61	34/37	
Not evaluable	4/11	2/6	

12-MONTH SURVIVAL DATA

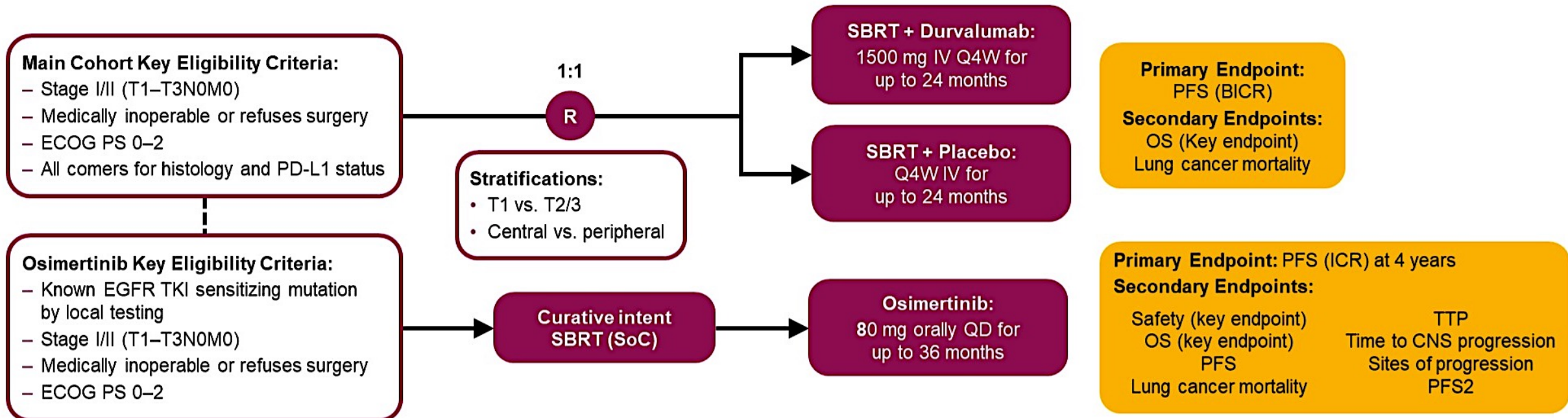


Nearly three fourths of osimertinib recipients were alive and progression free at 12 months, as compared with nearly one fourth of placebo recipients.



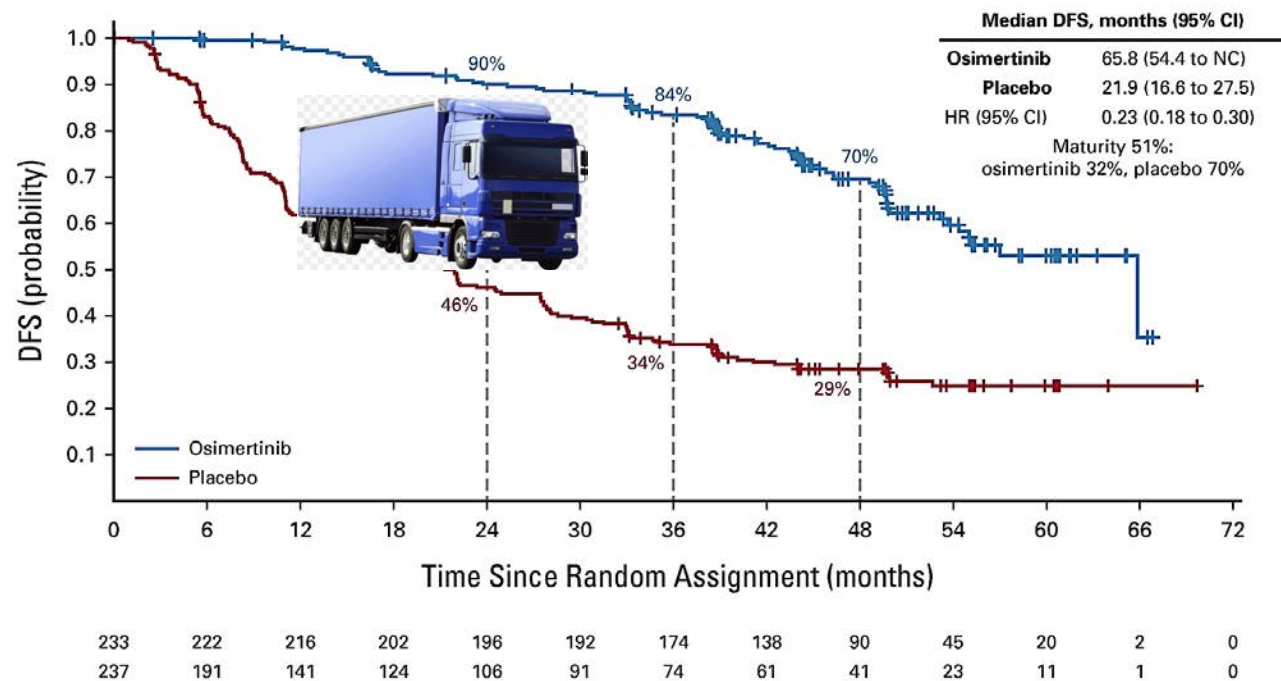
PACIFIC-4 Trial: consolidation after SBRT

- In PACIFIC-4, a main cohort of ~630 patients will be randomized (1:1) in a double-blind manner, stratified by tumor size (T1 vs. T2/3) and location (central vs. peripheral), to receive concurrent SoC SBRT with either durvalumab (1500 mg IV) or placebo Q4W for up to 26 cycles.
- The original protocol was amended (at version 4) to:
 - Exclude patients with an identified EGFR mutation by local testing from the main cohort, and
 - Add a separate cohort of ~60 patients with identified EGFR mutations (L858R or Ex19del) who will receive oral osimertinib 80 mg QD for up to 36 months, following SoC SBRT.
- This updated protocol is approved in all countries except France and the UK, where the osimertinib cohort is not available.



The Crucial Question

Will adjuvant TKI therapy improve the cure rate and OS?

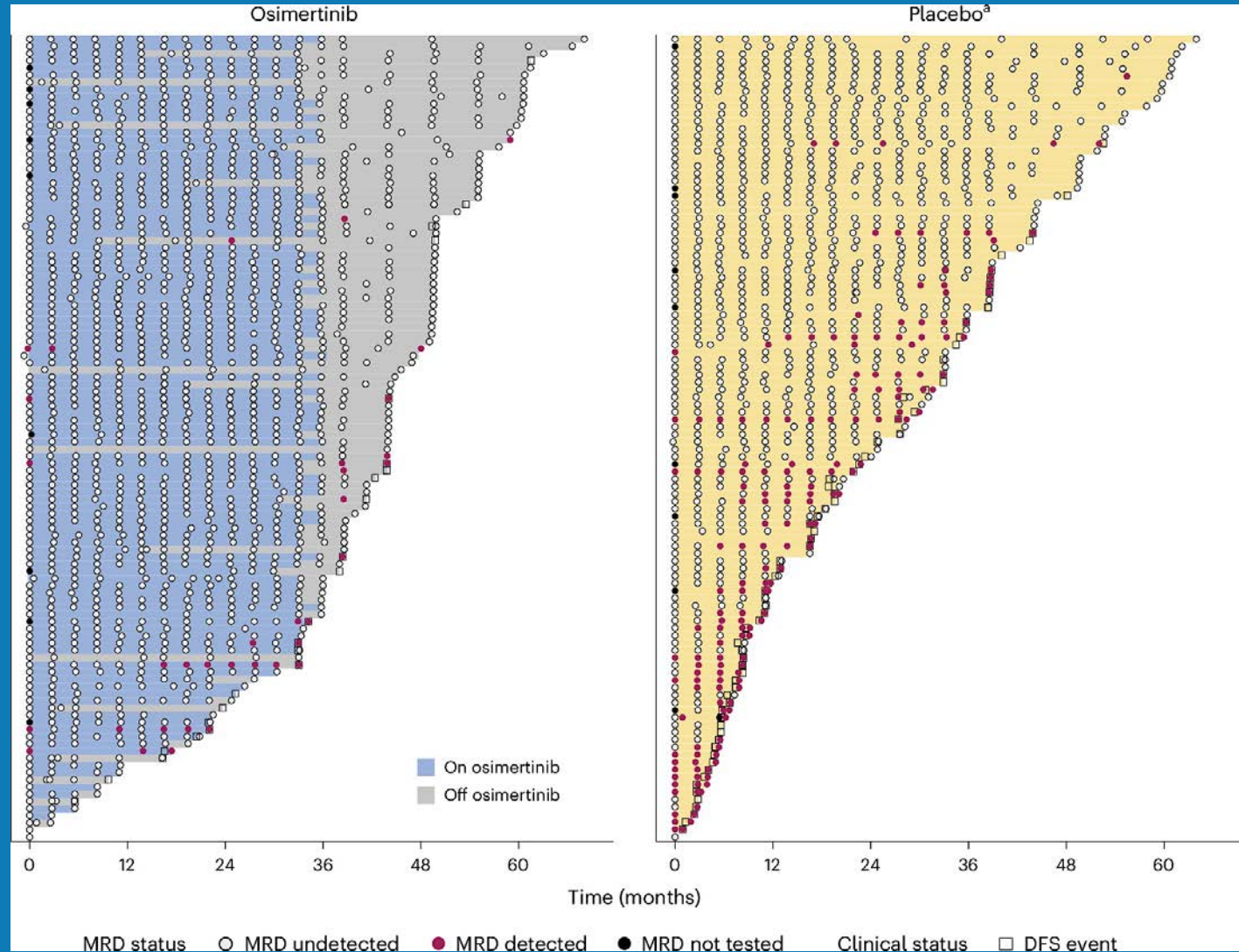


Herbst, JCO 2023.

- On placebo (natural history) median disease recurrence/death is at 21.9 m. If the average PFS of 1L osi at recurrence is 18.9 m, then at **40.8 m** the median patient will have recurred post chemo and progressed post TKI.
- On 3 yr adjuvant osi, median DFS **65.8 m**, to reach the same post-chemo & TKI point.
- The slope of the osimertinib line suggests that resistance develops more slowly in the adjuvant setting than in the metastatic one.

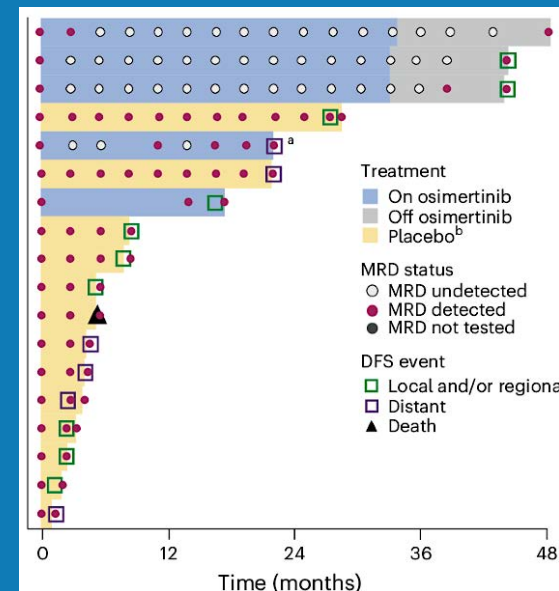
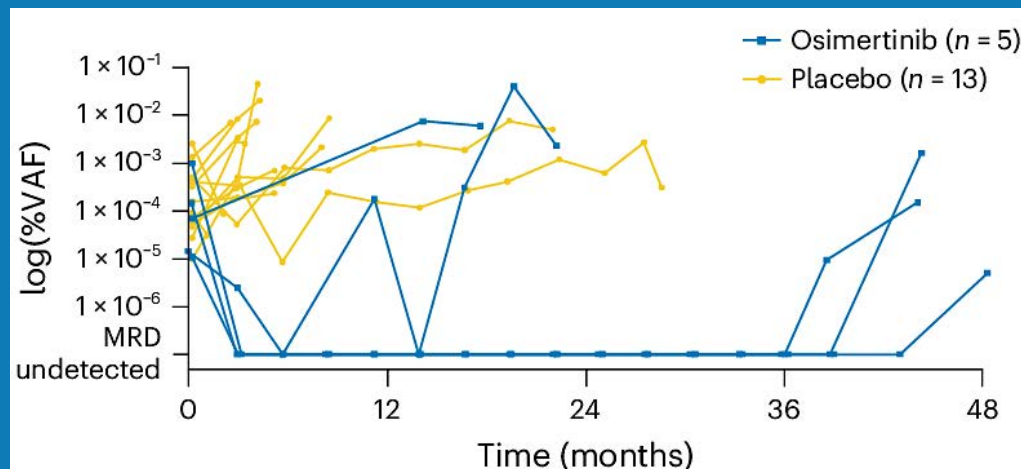
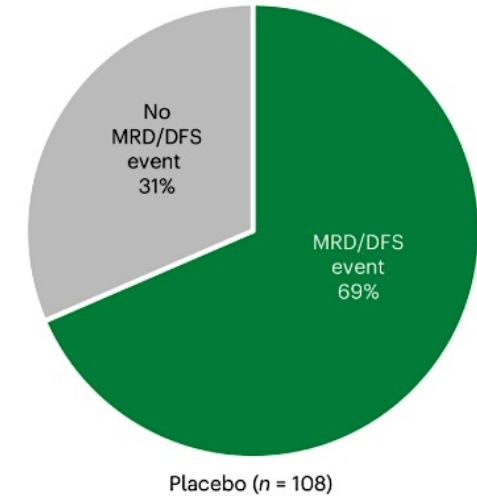
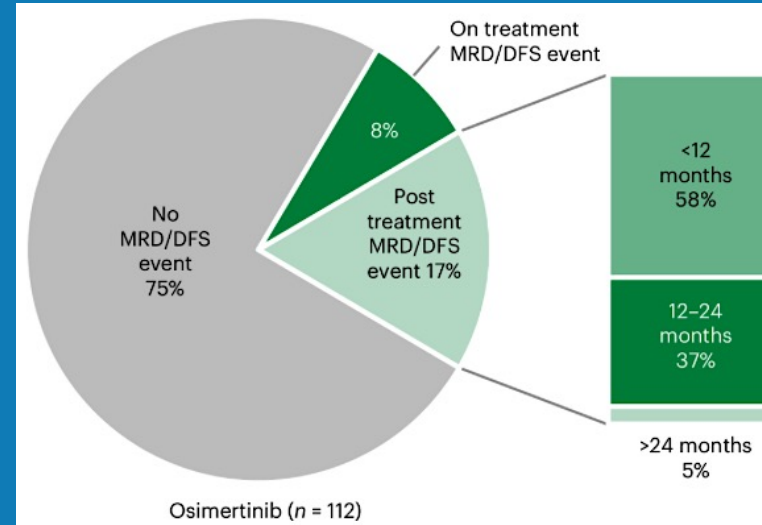
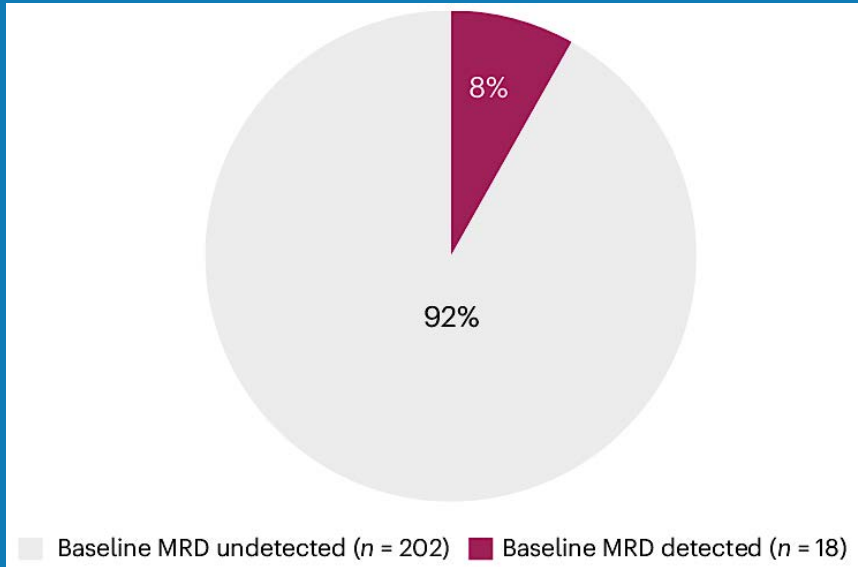
The Future?: MRD analysis

ADAURA post hoc analysis



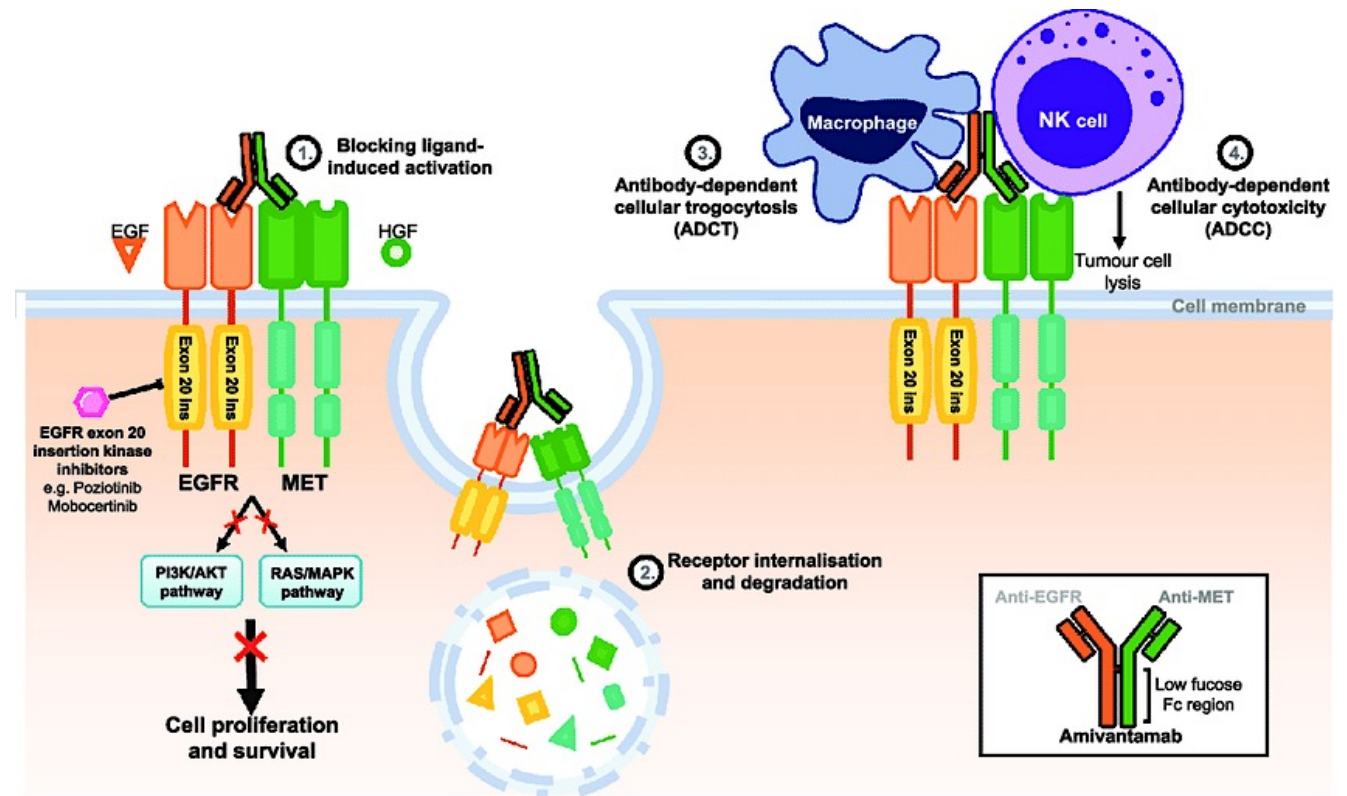
The Future?: MRD analysis

ADAURA post hoc analysis



Herbst, Nat Med 2025

1. Novel TKIs, eg for EGFR exon 20 insertion mutations
2. Cytotoxic combinations
3. Bispecific antibodies
4. Antibody drug conjugates



- **Biomarker testing is crucial to identify patients for targeted therapy.**
- **Necessary Triad for Potential Adjuvant TKI:** high response rate (>50-60%), excellent tolerability for prolonged use, and good CNS penetration
- Adjuvant TKIs may or may not lead to “cures,” but a significant increase in DFS may lead to improved OS
- Future directions may include new targeted agents, longer durations of adjuvant therapy for higher stage and higher risk disease (possibly informed by an **MRD analysis**)









Practice Changing Trials:

1. **ADAURA:** adjuvant osimertinib vs placebo for 3 years for stage IB-IIIA
2. **LAURA:** adjuvant osimertinib vs placebo until disease progression for stage IIIA/B/C









New data: NeoADAURA: neoadjuvant chemotherapy, osimertinib, or chemo-osi for stage II-IIIB N2, followed by adjuvant osimertinib, reporting at ASCO 2025.

Ongoing trials: ADAURA2, TARGET, PACIFIC-4 (EGFR subset)

Regulatory and reimbursement issues aside, in general, which adjuvant treatment would you recommend for an otherwise healthy 65-year-old patient with localized nonsquamous NSCLC as described with an EGFR exon 19 deletion and a PD-L1 TPS of 0?

	Stage IB	Stage IIA	Stage IIIA
 Prof Girard	Osimertinib	Chemotherapy → osimertinib	Chemotherapy → osimertinib
 Dr Goldman	Osimertinib	Chemotherapy → osimertinib	Chemotherapy → osimertinib
 Dr Jänne	Osimertinib	Chemotherapy → osimertinib	Chemotherapy → osimertinib
 Dr Ramalingam	None	Chemotherapy → osimertinib	Chemotherapy → osimertinib
 Dr Sabari	Osimertinib	Chemotherapy → osimertinib	Chemotherapy → osimertinib
 Dr Yu	Osimertinib	Chemotherapy → osimertinib	Chemotherapy → osimertinib
 Dr Gadgeel	None	Osimertinib + chemotherapy	Osimertinib + chemotherapy
 Dr Spira	None	Osimertinib	Osimertinib

Regulatory and reimbursement issues aside, how long would you continue adjuvant osimertinib for a patient with high-risk localized nonsquamous NSCLC with an EGFR exon 19 deletion who is tolerating therapy well?

	Prof Girard	Until progression
	Dr Goldman	36 months for Stage IB-II; indefinitely for Stage III
	Dr Jänne	36 months
	Dr Ramalingam	36 months
	Dr Sabari	Indefinitely
	Dr Yu	Indefinitely
	Dr Gadgeel	36 months (for Stage III may continue indefinitely)
	Dr Spira	36 months

Regulatory and reimbursement issues aside, what would you most likely recommend as consolidation treatment for a patient with unresectable locally advanced NSCLC who has completed chemoradiation therapy and is found to have an EGFR exon 19 deletion?



Prof Girard

Osimertinib



Dr Goldman

Osimertinib



Dr Jänne

Osimertinib



Dr Ramalingam

Osimertinib



Dr Sabari

Osimertinib



Dr Yu

Osimertinib



Dr Gadgeel

Osimertinib



Dr Spira

Osimertinib

To what degree do you believe adherence is an issue for patients receiving adjuvant osimertinib for localized NSCLC?



Prof Girard

Moderate



Dr Goldman

Not at all



Dr Jänne

Somewhat



Dr Ramalingam

Somewhat



Dr Sabari

Moderate



Dr Yu

Not at all



Dr Gadgeel

Moderate



Dr Spira

Moderate

Outside of a clinical trial setting, have you or would you employ neoadjuvant osimertinib for a patient with resectable NSCLC and a documented EGFR mutation?



Prof Girard

Not at this time, awaiting data to be presented



Dr Goldman

I have



Dr Jänne

I have



Dr Ramalingam

I have not but would for the right patient



Dr Sabari

I have



Dr Yu

I have



Dr Gadgeel

I have



Dr Spira

I have

Agenda

MODULE 1: Evolving First-Line Treatment for Metastatic EGFR Mutation-Positive Non-Small Cell Lung Cancer (NSCLC) — Dr Yu

MODULE 2: EGFR-Targeted Approaches for Relapsed EGFR-Mutant NSCLC; Strategies to Facilitate Delivery of Recently Approved Agents — Dr Sabari

MODULE 3: Potential Utility of TROP2-Targeted Therapy in the Management of EGFR-Mutant NSCLC — Dr Ramalingam

MODULE 4: Contemporary Care for Patients with Nonmetastatic EGFR-Mutant NSCLC — Dr Goldman

MODULE 5: Current and Future Management of EGFR Exon 20 Mutation-Positive NSCLC — Prof Girard

MODULE 6: Emerging Role of HER3-Targeted Therapy in the Management of EGFR-Mutant NSCLC — Dr Jänne



EGFR exon20 ins

Pr. Nicolas Girard

**Institut Curie,
INSERM U932,
Université Paris-Saclay**



New clinical strategies for EGFR Ex20ins mutated NSCLC

EGFR Ex20ins mutated NSCLC

Unmet needs for patients with *EGFR* exon20ins mutations in NSCLC



1. Viteri S, et al. *Mol Oncol*. 2023;17:230–7; 2. Hendriks LE, et al. *Ann Oncol*. 2023;34:339–57; 3. Meador CB, et al. *Cancer Discov*. 2021;11:2145–57; 4. Speaker's opinion; 5. Mountzios G, et al. *JTO Clin Res Rep*. 2022;4:100433.

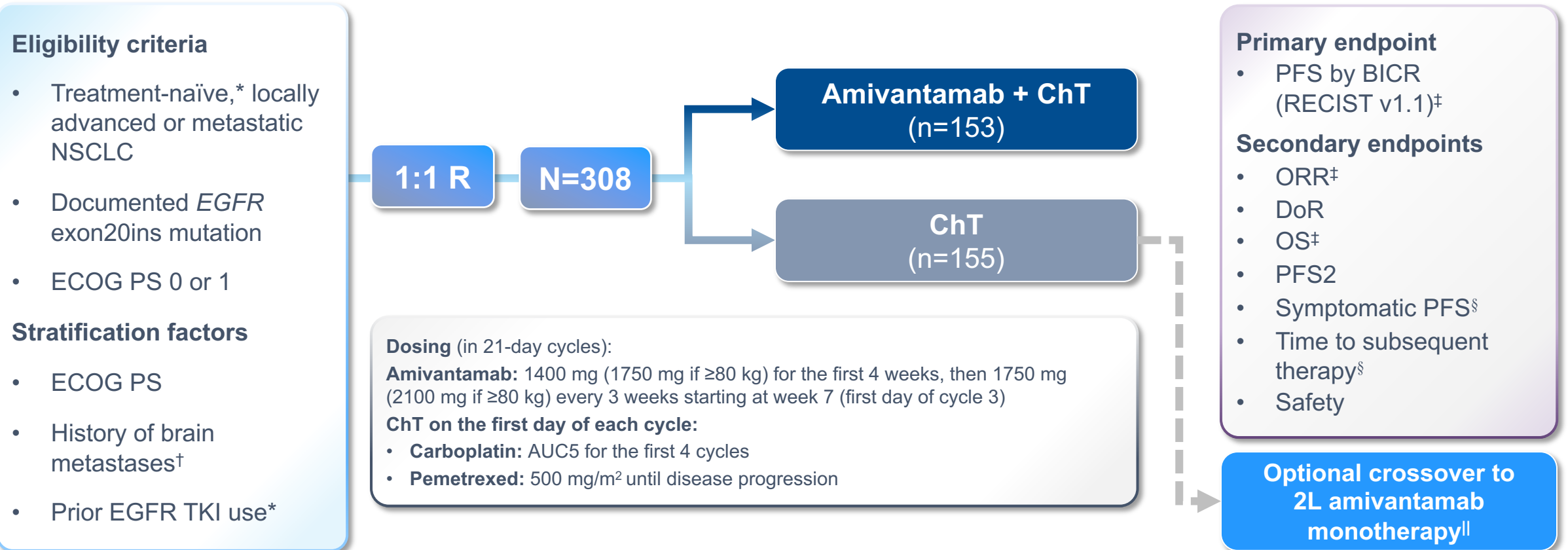
1L, first-line; CNS, central nervous system; exon20ins, exon 20 insertion; GI, gastrointestinal; IRR, infusion-related reaction; NGS, next-generation sequencing; PBC, platinum-based chemotherapy; PCR, polymerase chain reaction; SoC, standard of care.

New clinical strategies for EGFR Ex20ins mutated NSCLC

EGFR Ex20ins mutated NSCLC

**Amivantamab as first-line therapy
PAPILLON as current standard-of-care**

PAPILLON: Global, randomized, phase 3 trial in treatment-naïve, NSCLC with *EGFR* Exon20ins mutation



Data cut-off: 3 May 2023.

*Removed as stratification factor since only 4 patients had prior *EGFR* TKI use (brief monotherapy with common *EGFR* TKIs was allowed if lack of response was documented);

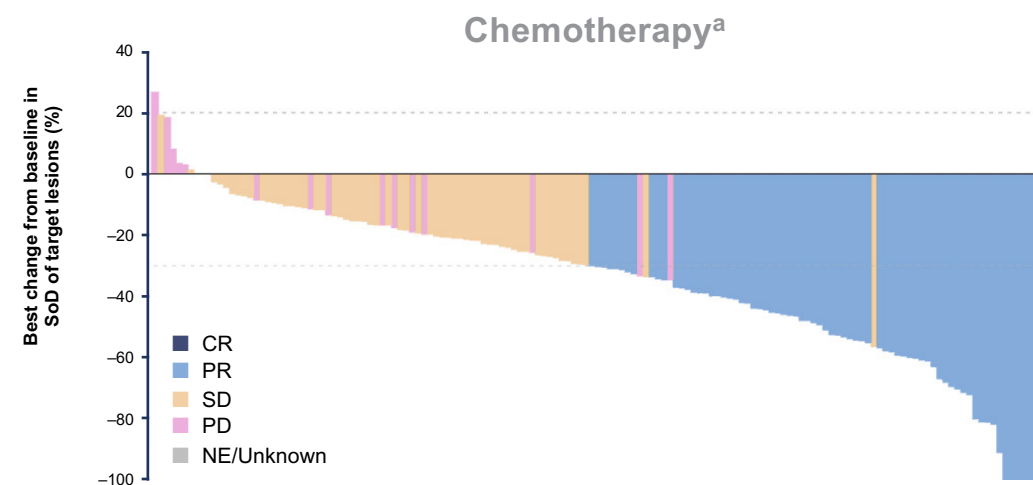
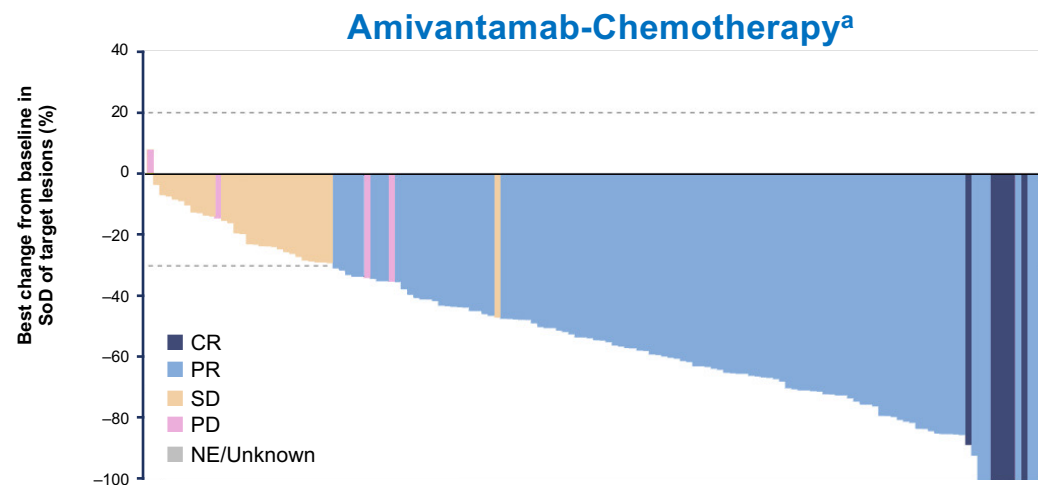
[†]Patients with brain metastases were eligible if they received definitive treatment and were asymptomatic, clinically stable, and off corticosteroid treatment for ≥2 weeks prior to randomisation;

[‡]Key statistical assumption: 300 patients with 200 events needed for 90% power to detect an HR of 0.625 (estimated PFS of 8 vs 5 months). PFS, ORR, and then OS were included in hierarchical testing;

[§]These secondary endpoints (time to subsequent therapy and symptomatic PFS) will be presented at a future congress; ^{||}Crossover was only allowed after BICR confirmation of disease progression, amivantamab monotherapy on Q3W dosing per main study.

1/2L, first/second-line; AUC, area under the curve; BICR, blinded independent central review; ChT, chemotherapy; DoR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; exon20ins, exon 20 insertion; HR, hazard ratio; ORR, overall response rate; PFS2, second PFS; Q3W, every 3 weeks; R, randomised; RECIST, Response Evaluation Criteria in Solid Tumours.

PAPILLON: Secondary endpoint Objective Response



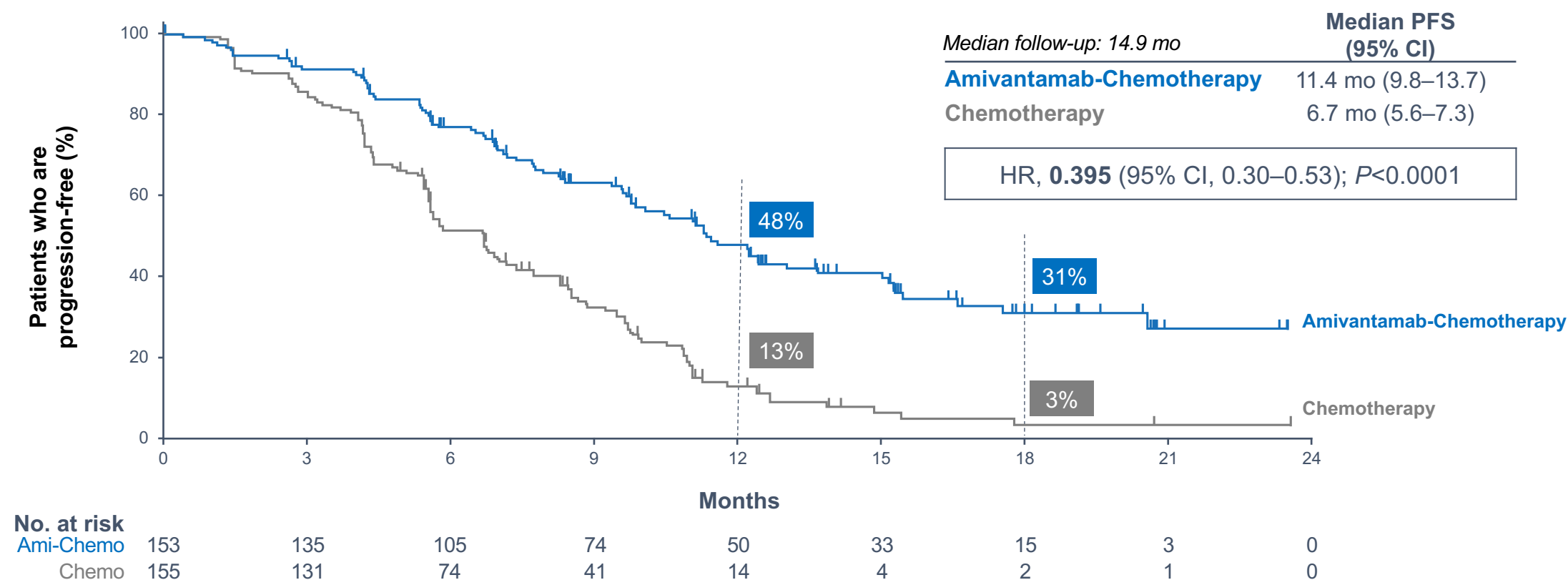
BICR-assessed response ^b	Amivantamab-Chemotherapy (n=153)	Chemotherapy (n=155)
Mean percent change of SoD	-53% ^c	-34%
ORR	73% (95% CI, 65–80)	47% (95% CI, 39–56)
Odds ratio	3.0 (95% CI, 1.8–4.8); $P<0.0001$	
Best response, n (%)		
Complete response	6 (4)	1 (1)
Partial response	105 (69)	71 (47)
Stable disease	29 (19)	62 (41)
Progressive disease	4 (3)	16 (11)
NE/Unknown	8 (5)	2 (1)
Median time to response	6.7 wk (range, 5.1–72.5)	11.4 wk (range, 5.1–60.2)

Consistent results with investigator assessment: ORR of 66% vs 43% (OR, 2.6; $P<0.0001$)

^aPatients without postbaseline tumor assessment were not included in this plot. ^bNo. of patients with measurable disease at baseline by BICR was 152 in both arms; response data presented among all responders. ^cNominal $P<0.001$; endpoint not part of hierarchical testing.

BICR, blinded independent central review; CI, confidence interval; CR, complete response; mo, month; NE, not evaluable; ORR, objective response rate; PD, progressive disease; PR, partial response; SD, stable disease; SoD, sum of diameters; wk, weeks.

PAPILLON: Primary endpoint Progression-Free Survival

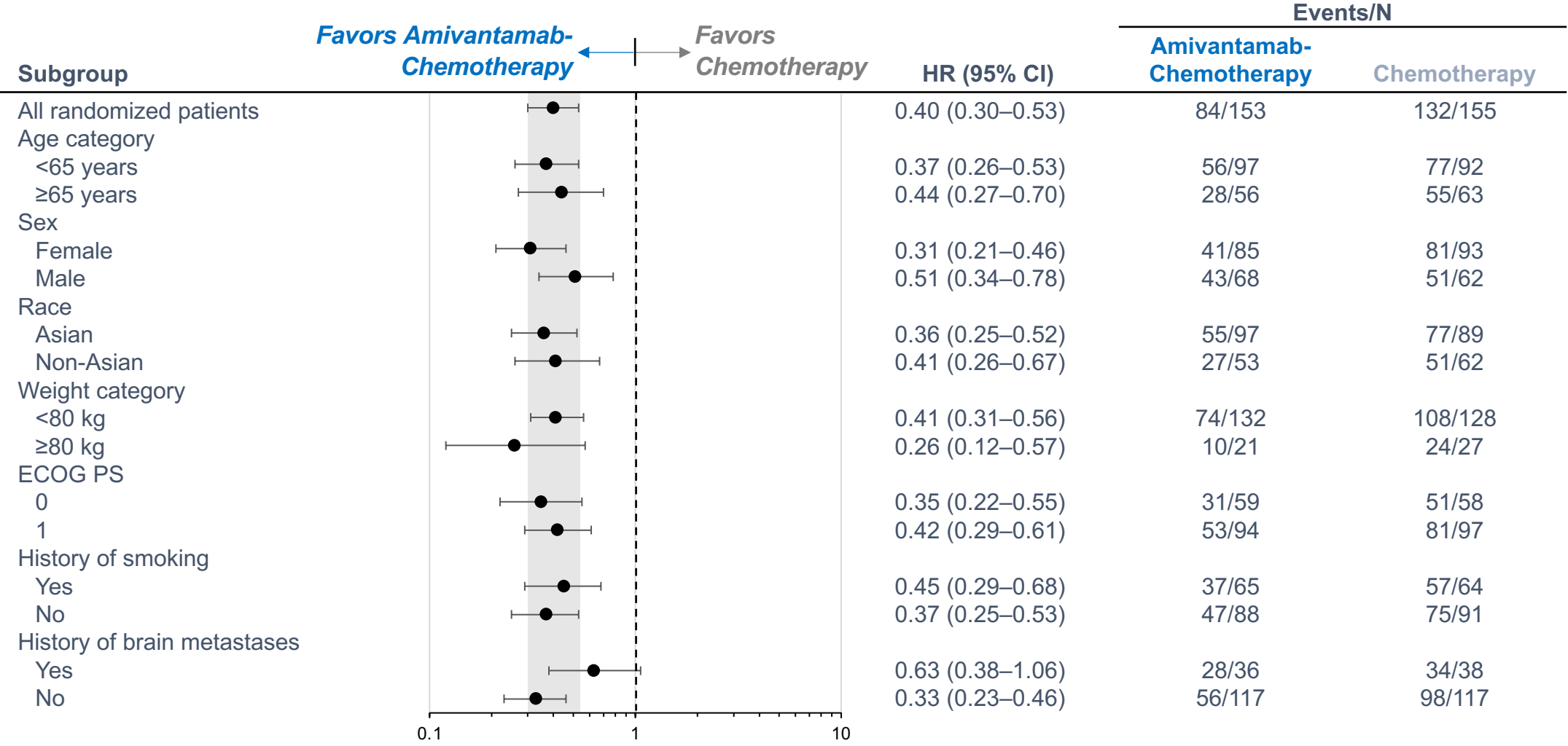


- **Consistent PFS benefit by investigator: 12.9 vs 6.9 mo (HR, 0.38; 95% CI, 0.29–0.51; $P < 0.0001$)**

Ami-Chemo, Amivantamab-Chemotherapy; BICR, blinded independent central review; Chemo, Chemotherapy; CI, confidence interval; EGFR, epidermal growth factor receptor; Ex20ins, Exon 20 insertions; HR, hazard ratio; mo, months; NSCLC, non-small cell lung cancer; PFS, progression-free survival; US, United States.

1. Zhou C, et al. *N Engl J Med*. 2023;389(22):2039–2051. 2. Girard N, et al. Presented at: European Society for Medical Oncology (ESMO) 20-24 October 2023; Madrid, Spain. 3. U.S. Food & Drug Administration. *FDA*. Published online March 1, 2024. Accessed March 7, 2024. <https://www.fda.gov/drugs/resources-information-approved-drugs/fda-approves-amivantamab-vmjw-egfr-exon-20-insertion-mutated-non-small-cell-lung-cancer-indications>.

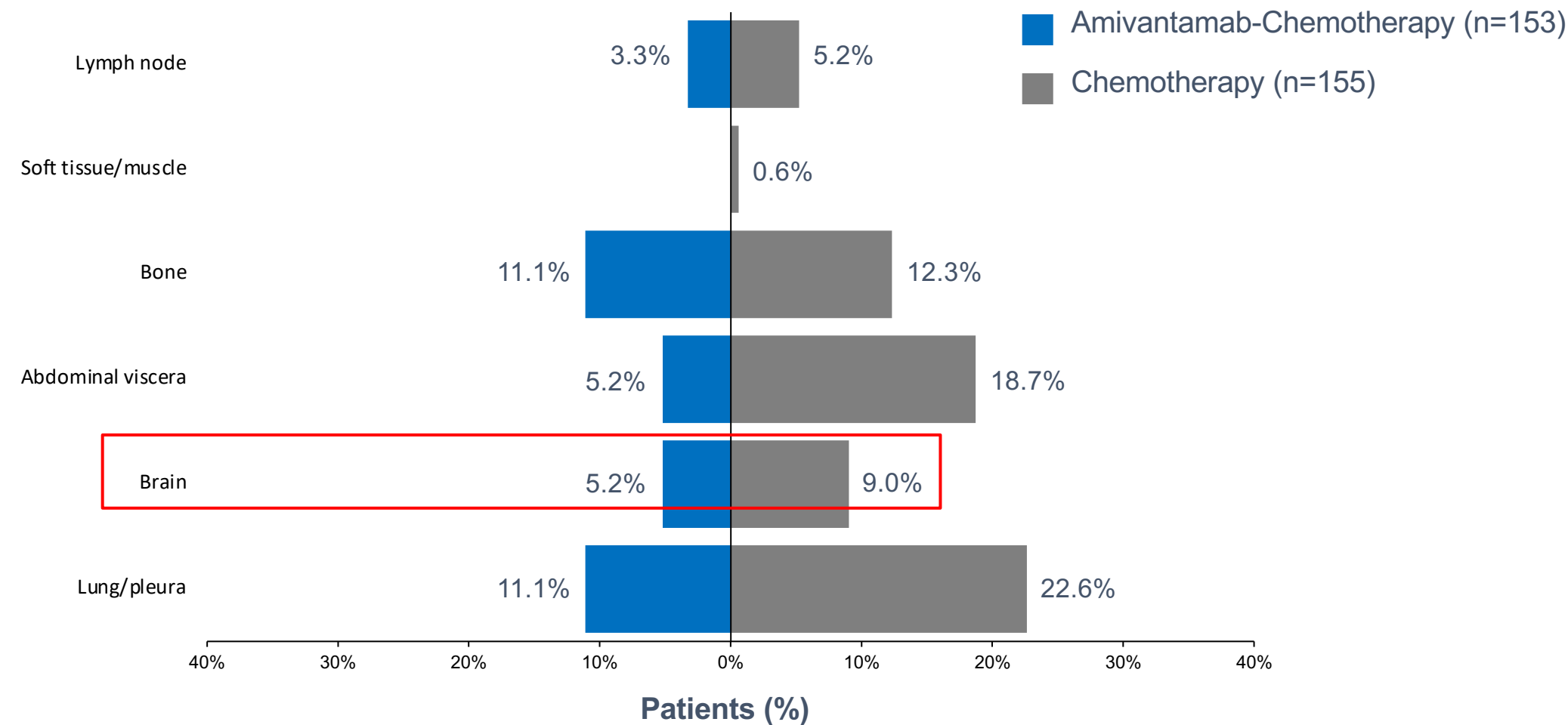
PAPILLON: Primary endpoint Progression-Free Survival



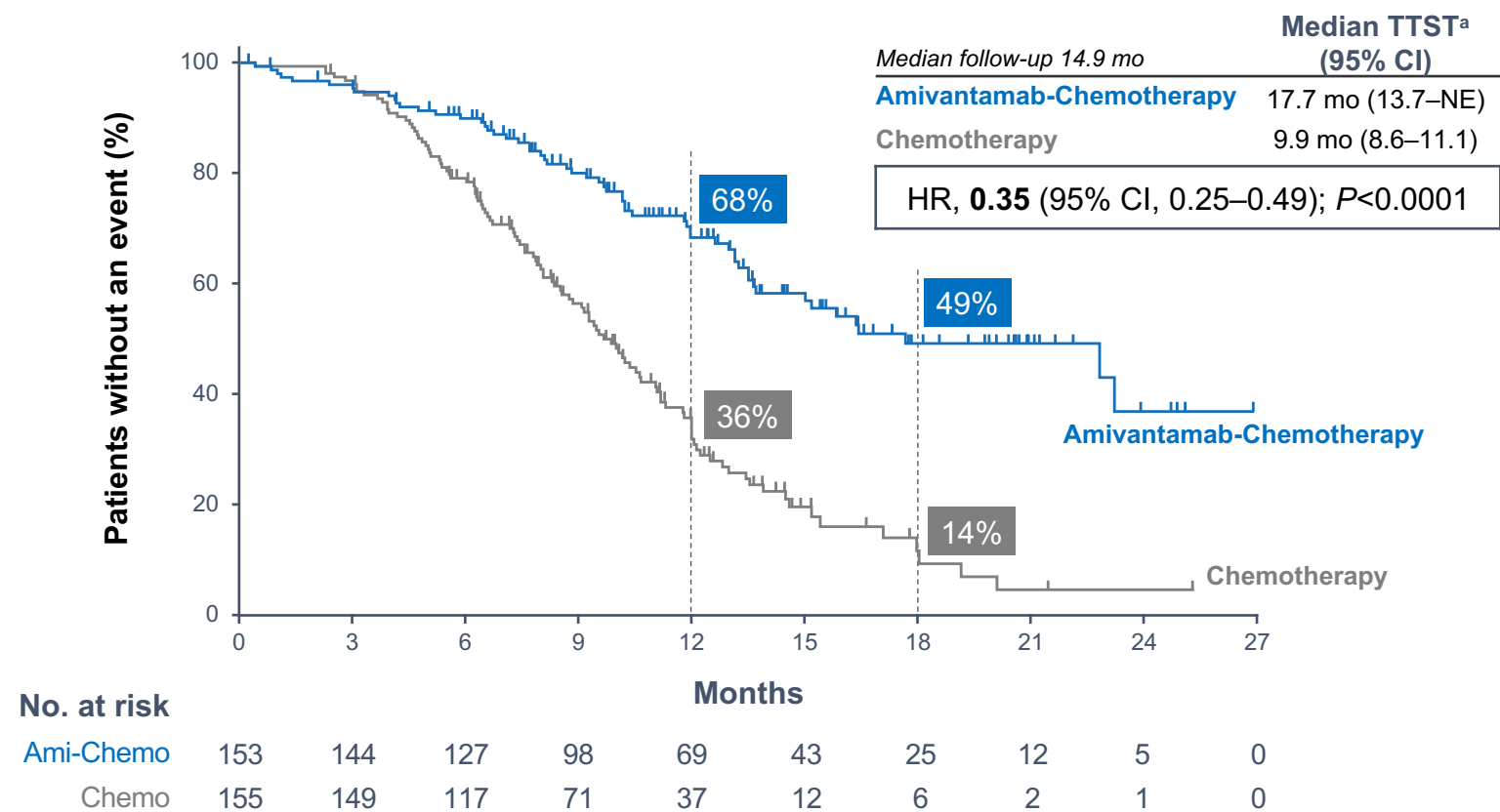
Note: Gray box indicates 95% CI of HR for all randomized patients.
BICR, blinded independent central review; CI, confidence interval; ECOG PS, Eastern Cooperative Oncology Group performance status; HR, hazard ratio; PFS, progression-free survival.

PAPILLON: sites of first progression

Rates of first progression at all sites were lower with amivantamab-chemotherapy compared to chemotherapy

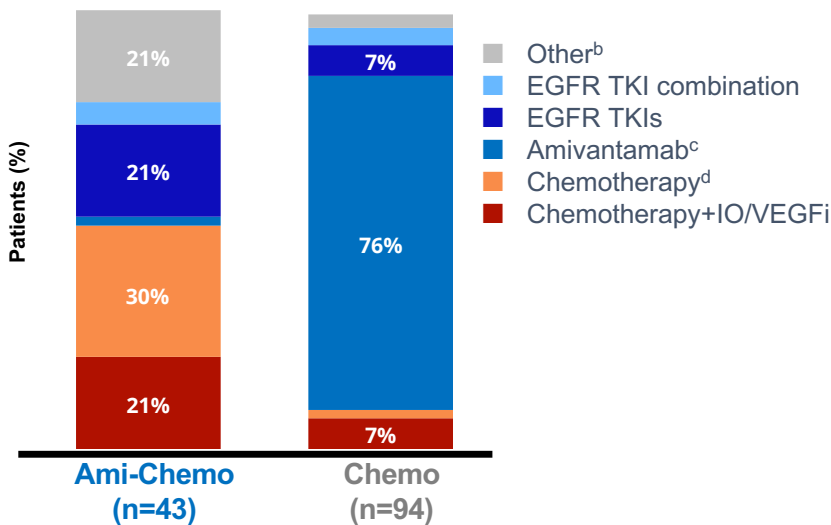


PAPILLON: Secondary endpoint Time-To-Subsequent Therapy



Most Common First Subsequent Therapy Classes

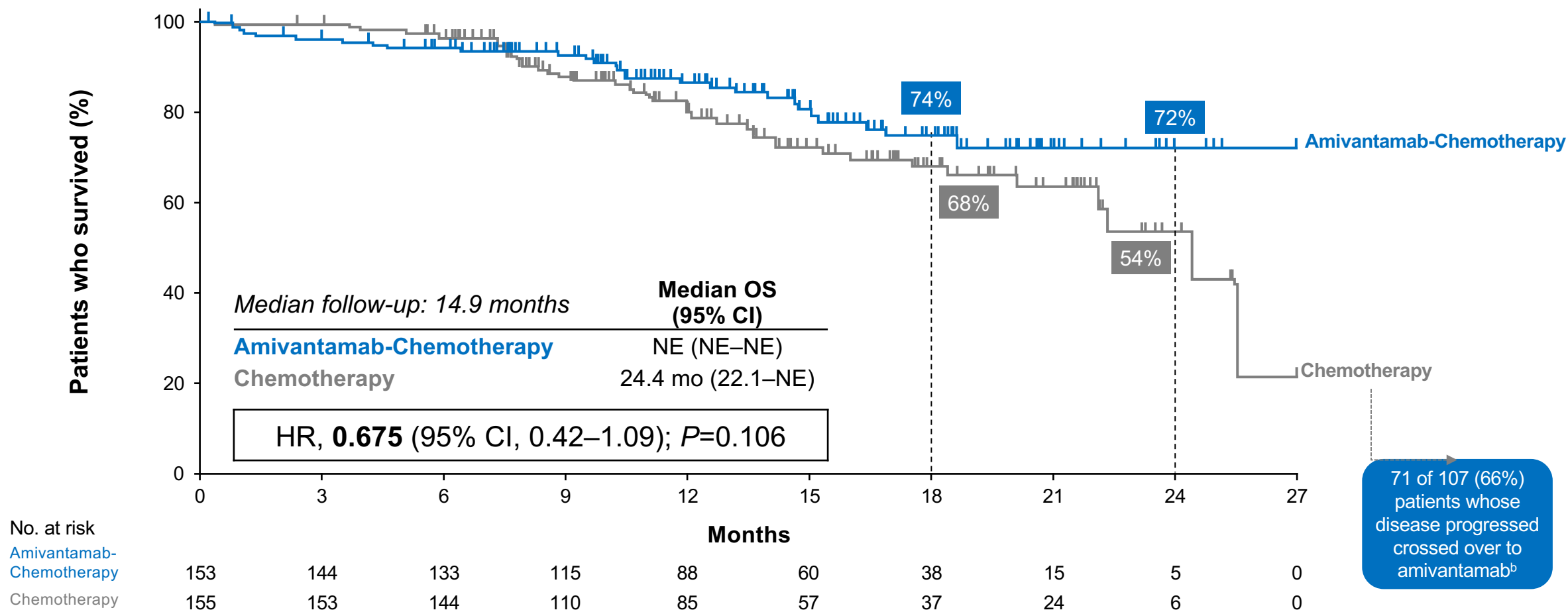
- In the amivantamab-chemotherapy arm, **43 patients** went on to receive subsequent therapy during the study versus **94 patients** in the chemotherapy arm



^aTTST was defined as the time from the date of randomization to the start date of the first subsequent anticancer therapy following study treatment discontinuation or death, whichever occurred first. ^bOther category included IO alone and investigational agents. ^cSix patients received amivantamab monotherapy off-protocol. ^dIn the amivantamab-chemotherapy and chemotherapy arms, 23% and 1% of patients received single-agent chemotherapy, respectively, and 7% and 1% of patients received doublet chemotherapy, respectively.

Ami-Chemo, Amivantamab-Chemotherapy; Chemo, Chemotherapy; CI, confidence interval; EGFR, epithelial growth factor receptor; HR, hazard ratio; IO, immuno-oncology; mo, months; NE, not estimable; TKI, tyrosine kinase inhibitor; TTST, time to subsequent therapy; VEGFi, vascular endothelial growth factor inhibitor.

PAPILLON: Secondary endpoint Overall survival (interim)



^aThere were 70 deaths in the study at the time of the prespecified interim OS analysis, which represents 23% of all randomized patients and 33% of the ~210 projected deaths for the final OS analysis. ^bA total of 71 patients (65 patients as part of the crossover arm plus an additional 6 patients off-protocol) received second-line amivantamab monotherapy out of 107 chemotherapy-randomized patients with disease progression.

CI, confidence interval; HR, hazard ratio; mo, months; NE, not estimable; OS, overall survival.

PAPILLON: Summary of adverse events

Most common AEs of any cause by preferred term (≥20%), n (%)	Amivantamab + ChT (n=151)		ChT (n=155)	
	All Grades	Grade ≥3	All Grades	Grade ≥3
Associated with EGFR inhibition				
Paronychia	85 (56)	10 (7)	0	0
Rash	81 (54)	17 (11)	12 (8)	0
Dermatitis acneiform	47 (31)	6 (4)	5 (3)	0
Stomatitis	38 (25)	2 (1)	9 (6)	0
Diarrhoea	31 (21)	5 (3)	20 (13)	2 (1)
Associated with MET inhibition				
Hypoalbuminemia	62 (41)	6 (4)	15 (10)	0
Peripheral oedema	45 (30)	2 (1)	16 (10)	0
Other				
Neutropenia	89 (59)	50 (33)	70 (45)	35 (23)
Anaemia	76 (50)	16 (11)	85 (55)	19 (12)
IRR	63 (42)	2 (1)	2 (1)	0
Constipation	60 (40)	0	47 (30)	1 (1)
Leukopenia	57 (38)	17 (11)	50 (32)	5 (3)
Nausea	55 (36)	1 (1)	65 (42)	0
Thrombocytopenia	55 (36)	15 (10)	46 (30)	16 (10)
Decreased appetite	54 (36)	4 (3)	43 (28)	2 (1)
ALT increased	50 (33)	6 (4)	56 (36)	2 (1)
AST increased	47 (31)	1 (1)	51 (33)	1 (1)
COVID-19	36 (24)	3 (2)	21 (14)	1 (1)
Hypokalaemia	32 (21)	13 (9)	13 (8)	2 (1)
Vomiting	32 (21)	5 (3)	29 (19)	1 (1)



SAEs and AEs leading to death were comparable between arms



Similar rates of discontinuation of all study agents due to AEs was observed across arms



Treatment-related discontinuations of amivantamab were low (7%)

EGFR Ex20ins mutated NSCLC

NCCN Guidelines 2025



National
Comprehensive
Cancer
Network®

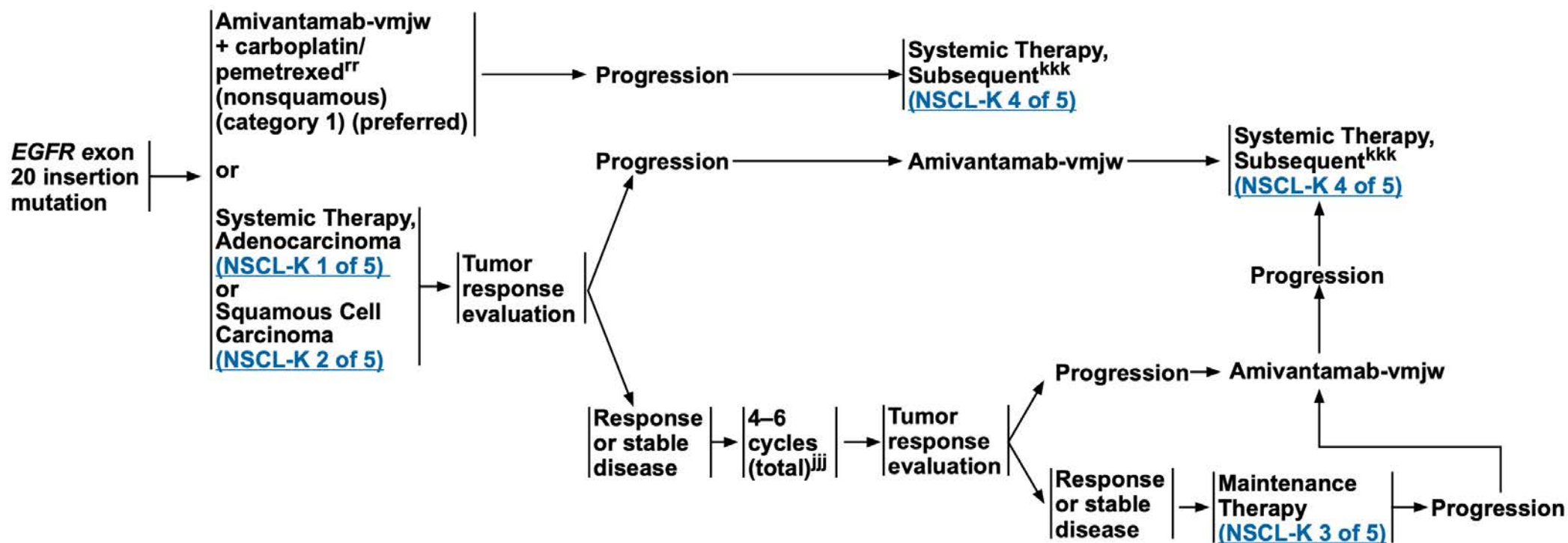
NCCN Guidelines Version 4.2025 Non-Small Cell Lung Cancer

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EGFR EXON 20 INSERTION MUTATIONⁿⁿ

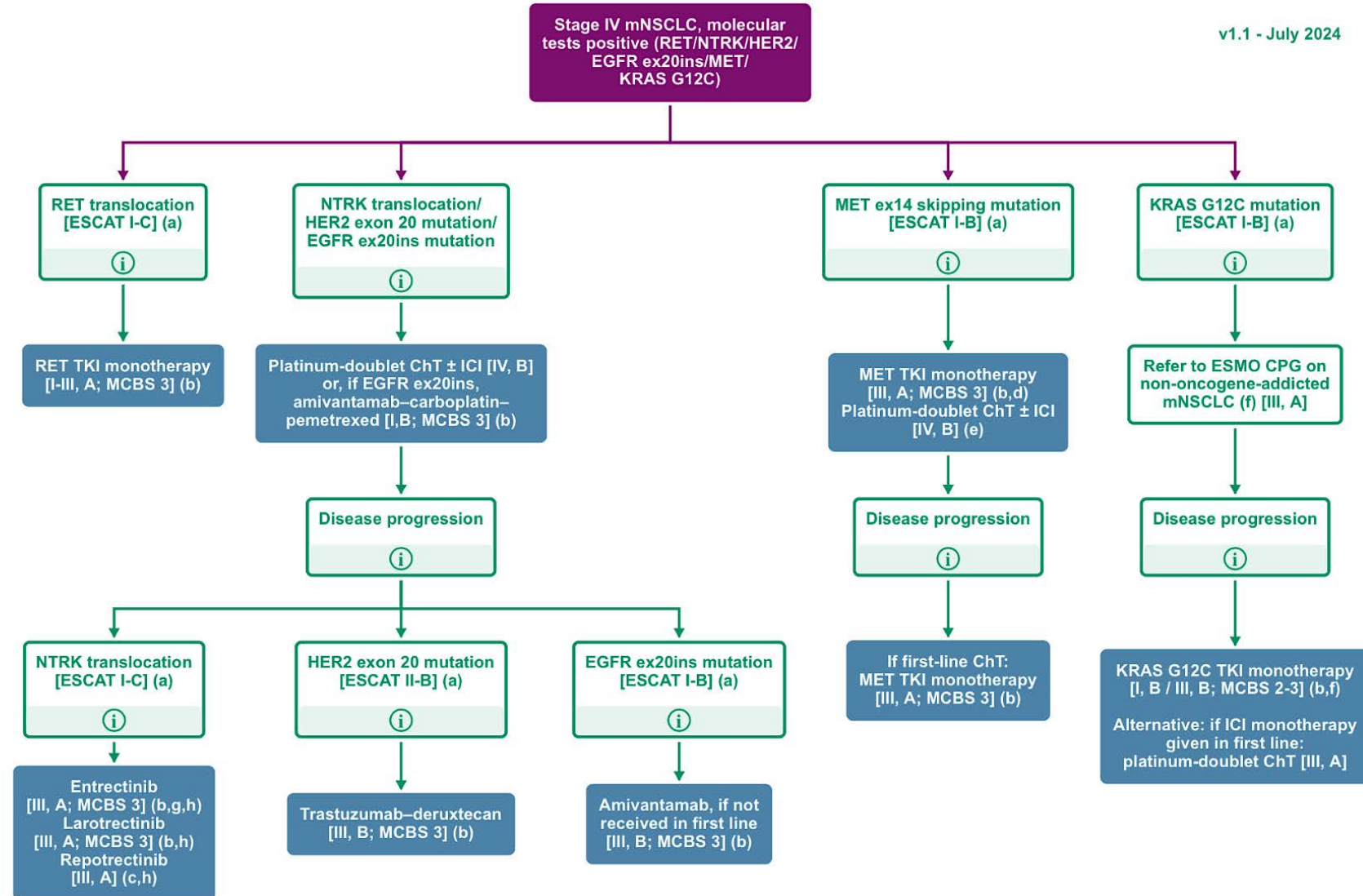
FIRST-LINE THERAPYⁱⁱⁱ

SUBSEQUENT THERAPY^{rr}



EGFR Ex20ins mutated NSCLC

ESMO CPG 2025



New clinical strategies for EGFR Ex20ins mutated NSCLC

EGFR Ex20ins mutated NSCLC

**Amivantamab as first-line therapy
PAPILLON as current standard-of-care**

Amivantamab in pre-treated patients

CHRYSLIS: Amivantamab in post-platinum *EGFR* Exon20ins mutations in NSCLC

Key objectives

Part 1: Establish RP2D
Part 2: Safety and efficacy at RP2D

Key eligibility criteria

- Metastatic or unresectable NSCLC
- Failed or ineligible for SoC therapy
- Advanced NSCLC (part 1)
- Measurable disease (part 2)
- Activating or resistance *EGFR* or *MET* mutations or amplifications (part 2)

Part 1: Dose escalation

1750 mg

1400 mg

1050 mg

700 mg

350 mg

140 mg

RP2D

1050 mg amivantamab (<80 kg)
1400 mg amivantamab (≥80 kg)

Intravenous dosing

C1 weekly and C2+ biweekly

Part 2: Dose expansion

Cohort A

EGFR-dependent resistance

Cohort B

EGFR-independent resistance

Cohort C

Post-*EGFR* 3G TKI and C797S+

Cohort D

EGFR exon20ins

Cohort MET-1

*MET*amp and post-*EGFR* TKI

Cohort MET-2

MET exon 14 skipping

Dosing schedule

Cycle 1

↑
D1/2*

↑
D8

↑
D15

↑
D22

Cycle 2 and beyond

↑
D1

↑
D15

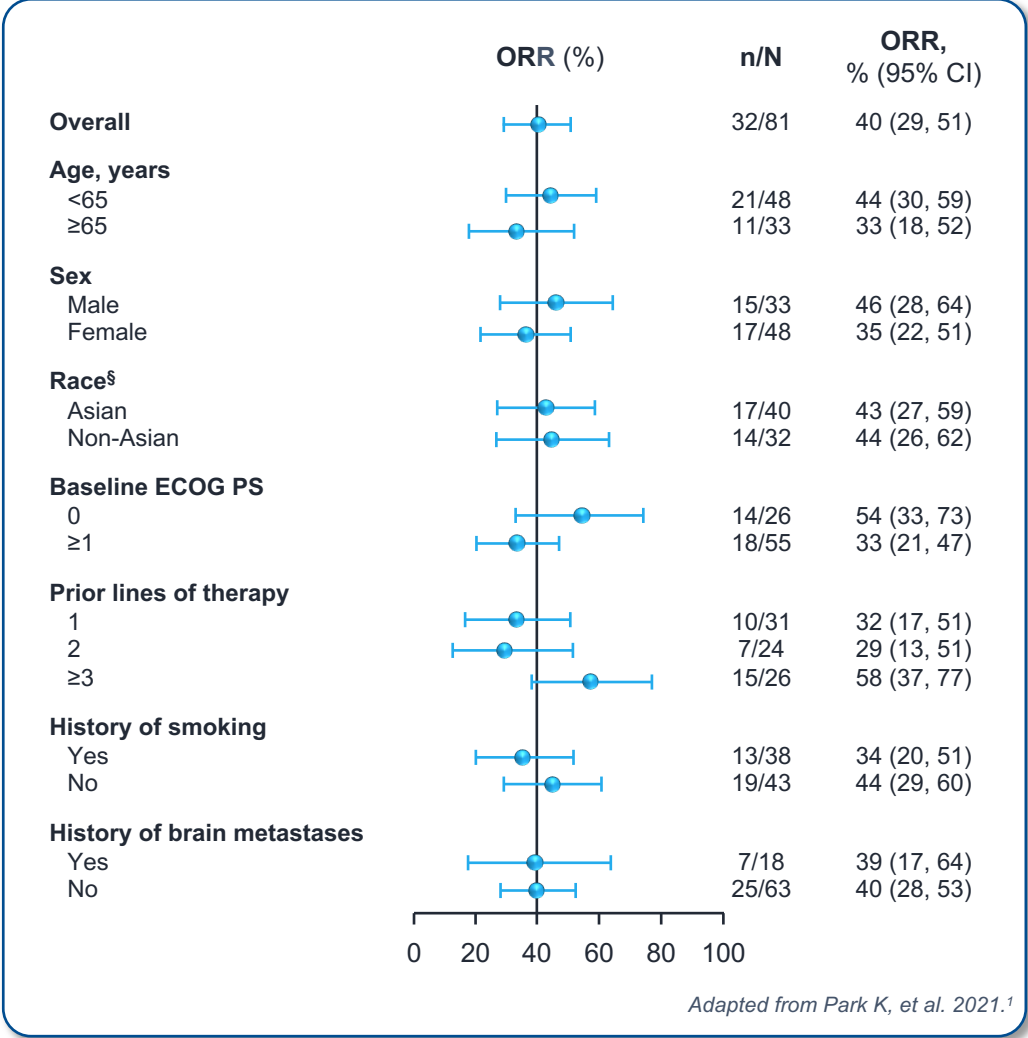
↑ Amivantamab infusion

Adapted from Park K, et al. 2021.

CHRYSLIS: Amivantamab in post-platinum *EGFR* Exon20ins mutations in NSCLC

CHRYSLIS: Efficacy data

Response	Efficacy population ¹ (n=81)	SmPC efficacy population (n=114) ²
ORR, % (95% CI)	40 (29–51) [†]	43 (34–53) [†]
mDoR, mo (95% CI)	11.1 (6.9–NR)	10.8 (6.9–15.0) [†]
mPFS, mo (95% CI)	8.3 (6.5–10.9) [†]	–
mOS, mo (95% CI)	22.8 (14.6–NR)	–
CBR, % (95% CI)	74 (63–83) ^{†‡}	–



^{*}Proportion of total patients in the efficacy population who had partial and complete response; [†]Response as assessed by BICR. [‡]Proportion of total patients in the efficacy population who had partial and complete response or stable disease for at least 11 weeks (corresponding to two disease assessments). [§]Does not include nine patients with race not reported and multiple race.

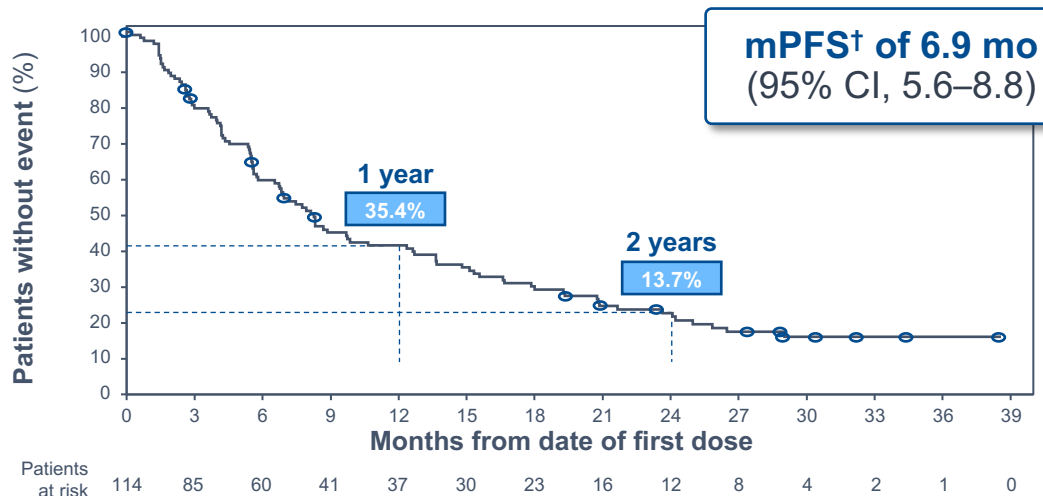
BICR, blinded independent central review; CBR, clinical benefit rate; ECOG PS, Eastern Cooperative Oncology Group performance status; mDoR, median duration of response; MET, mesenchymal-epithelial transition; mOS, median overall survival; mPFS, median PFS; NR, not reached; ORR, overall response rate; SmPC, Summary of Product Characteristics.

CHRYSLIS: Long-term efficacy with amivantamab



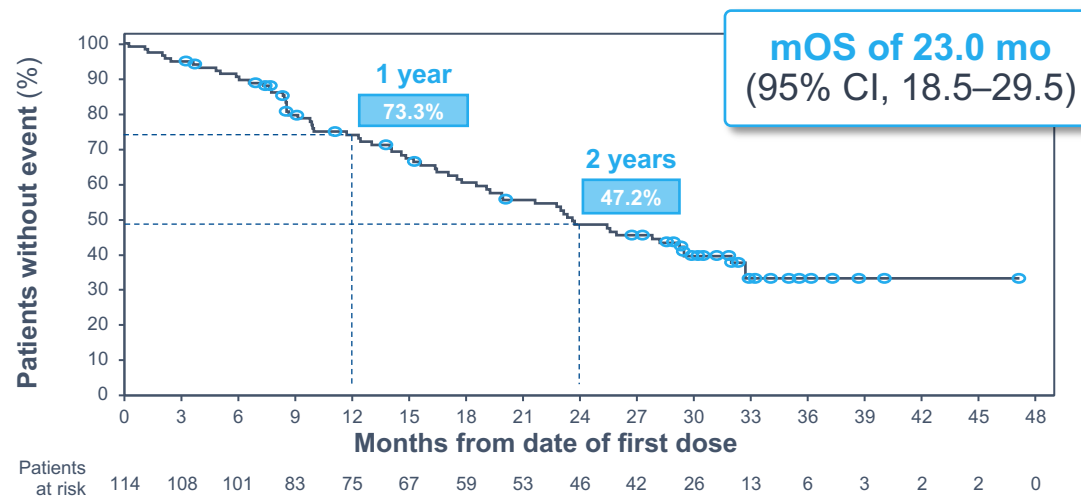
Long-term efficacy and safety results of amivantamab in *EGFR* exon20ins mutations in aNSCLC, post-PBC*

PFS (n=114)



Adapted from Garrido P, et al. 2023.

OS (n=114)



Adapted from Garrido P, et al. 2023.

- Median follow-up = **19.2 months**
- Amivantamab demonstrated **consistent efficacy** regardless of **prior therapies** or **response to prior PBC**
- **42%** (n=48) of patients had a **sustained clinical benefit** (on amivantamab for ≥12 cycles[‡])
- **13%** (n=15) of patients **remain on amivantamab** for a median **treatment duration** of **2.6 years**

CHRYSLIS: Long-term safety profile with amivantamab

AEs (≥15%) by preferred term, n (%)	Exon20ins post-PBC (n=114)		RP2D (n=474)	
	Total	Grade ≥3	Total	Grade ≥3
EGFR-related				
Paronychia	66 (58)	4 (4)	204 (43)	9 (2)
Dermatitis acneiform	54 (47)	1 (1)	165 (35)	5 (1)
Rash	49 (43)	2 (2)	167 (35)	8 (2)
Stomatitis	29 (25)	1 (1)	97 (20)	2 (0.4)
Pruritus	23 (20)	0	84 (18)	0
Diarrhoea	21 (18)	4 (4)	53 (11)	6 (1)
MET-related				
Hypoalbuminemia	45 (39)	5 (4)	153 (32)	11 (2)
Peripheral oedema	31 (27)	1 (1)	119 (25)	5 (1)
Other				
IRR	76 (67)	3 (3)	319 (67)	14 (3)
Nausea	32 (28)	1 (1)	111 (23)	3 (1)
Constipation	30 (26)	0	115 (24)	1 (0.2)
Fatigue	30 (26)	4 (4)	100 (21)	9 (2)
Dyspnoea	29 (25)	6 (5)	101 (21)	24 (5)
Cough	24 (21)	0	87 (18)	0
Arthralgia	24 (21)	0	53 (11)	1 (0.2)

AEs (≥15%) by preferred term, n (%)	Exon20ins post-PBC (n=114)		RP2D (n=474)	
	Total	Grade ≥3	Total	Grade ≥3
Other continued				
Back pain	23 (20)	1 (1)	66 (14)	4 (1)
Decreased appetite	23 (20)	1 (1)	83 (18)	2 (0.4)
ALT increased	20 (18)	4 (4)	80 (17)	10 (2)
Dry skin	19 (17)	0	59 (12)	0
Vomiting	19 (17)	1 (1)	59 (12)	2 (0.4)
AEs of special interest by grouped term				
Rash*	102 (89)	5 (4)	349 (74)	17 (4)
ILD†	8 (7)	0	16 (3)	4 (1)
VTE‡	13 (11)	7 (6)	50 (11)	25 (5)

- **No new safety signals** were detected
- Treatment-related dose **interruptions** = **29%** (n=33)
- Treatment-related **reductions** = **18%** (n=20)
- Treatment-related **discontinuations** = **7%** (n=8)
- Cumulative grouped **rash*** and **IRRs** = **most frequent AEs**

*Grouping includes the following related preferred terms: Rash, dermatitis acneiform, rash maculo-papular, folliculitis, erythema, rash pustular, acne, palmar-plantar erythrodysesthesia syndrome, rash erythematous, rash papular, skin lesion, rash pruritic, dermatitis, skin exfoliation, dermatitis exfoliative generalized, macule, pustule, blister, dermatitis atopic, dermatitis bullous, dermatitis infected, eczema asteatotic, erythema multiforme, hand dermatitis, perineal rash, perioral dermatitis, rash macular, rash vesicular, and toxic epidermal necrolysis. †Includes ILD and pneumonitis.

‡Includes pulmonary embolism, deep vein thrombosis, embolism, thrombophlebitis superficial, venous thrombosis limb, pulmonary thrombosis, and thrombosis. AE, adverse event; ALT, alanine aminotransferase; exon20ins, exon 20 insertion; ILD, interstitial lung disease; IRR, infusion-related reaction; MET, mesenchymal-epithelial transition; PBC, platinum-based chemotherapy; RP2D, recommended phase 2 dose; VTE, venous thromboembolism.

New clinical strategies for EGFR Ex20ins mutated NSCLC

EGFR Ex20ins mutated NSCLC

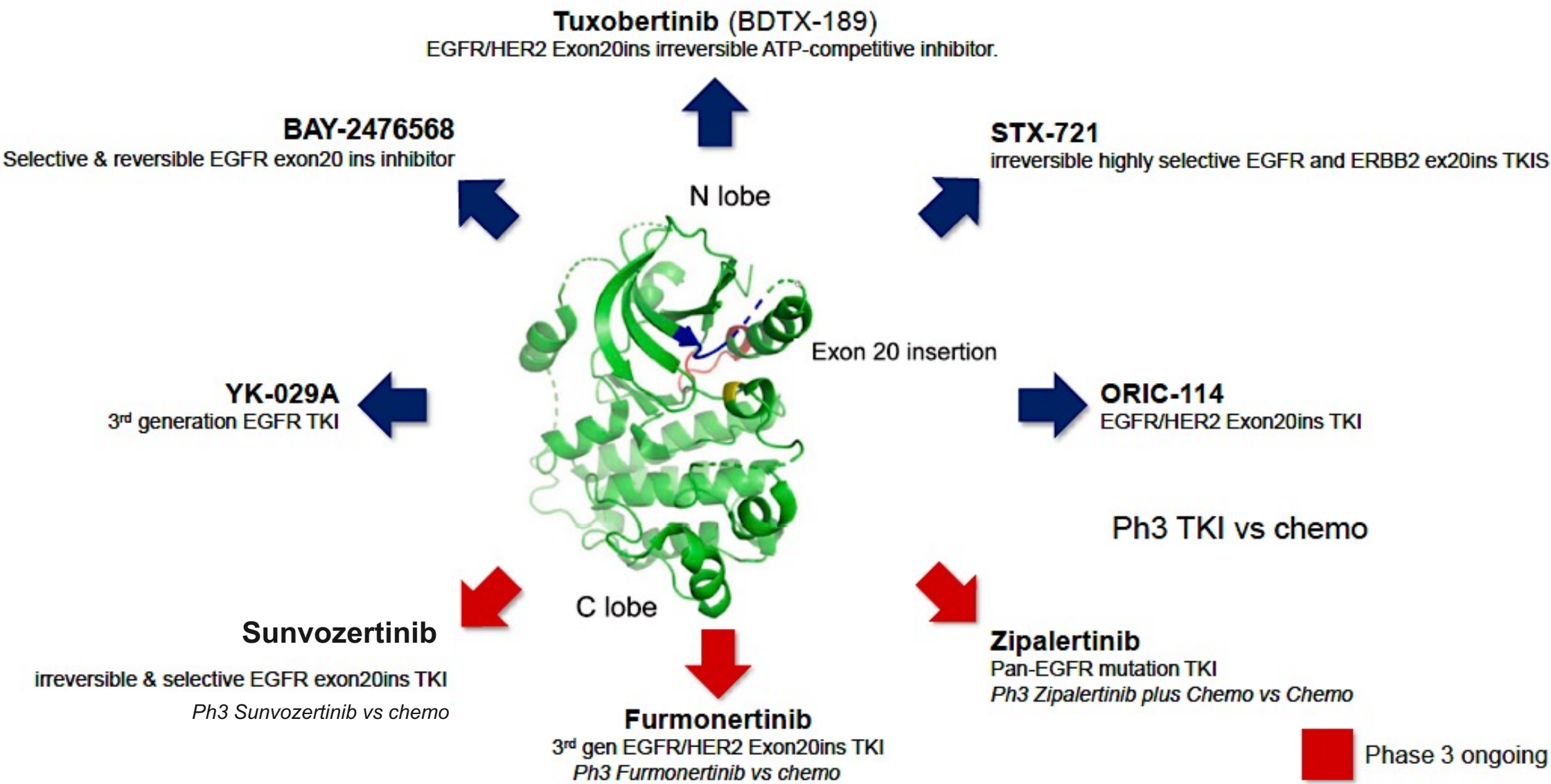
**Amivantamab as first-line therapy
PAPILLON as current standard-of-care**

Amivantamab in pre-treated patients

New agents

TKIs overview

Exon20ins evolving landscape beyond Amivantamab



Furmonertinib: Efficacy



Efficacy by IRC*†	Treatment-naïve 240 mg (n=28)§	Previously treated 240 mg (n=26)¶	Previously treated 160 mg (n=26)¶
cORR, % (95% CI)	78.6 (59.05–91.70)	46.2 (26.59–66.63)	38.5 (20.23–59.43)
Best response, n (%)			
PR	22 (78.6)	12 (46.2)	10 (38.5)
SD	6 (21.4)	12 (46.2)	12 (46.2)
PD	0	0	4 (15.4)
NE/ND	0/0	1 (3.8)/1 (3.8)	0/0
mDoR, months (95% CI)	15.2 (8.74–24.84)	13.1 (5.62–13.80)	9.7 (5.59–NA)
DCR, % (95% CI)‡	100 (87.66–100.00)	92.3 (74.87–99.05)	84.6 (65.13–95.64)

Furmonertinib showed promising efficacy in previously treated patients with advanced NSCLC and *EGFR* exon20ins mutations (cORR of 46.2% [240 mg] and 38.5% [160mg])



Han B, et al. Presented at WCLC 2023: OA03.04.

*Analysis is based on patients with EGFR exon20ins mutations who had measurable disease at baseline by IRC, had ≥2 tumour assessments, had PD/death, or discontinued from treatment; †Patients received follow-up until disease progression every 6 weeks, and after disease progression or initiation of new therapy every 12 weeks; ‡DCR defined as CR + PR + SD; §2 patients: 1 patient had no measurable target lesion at baseline by IRC, another patient did not have an EGFR exon20ins mutation; ¶26 of the 28 patients in 240 mg and 160 mg cohorts, respectively, had at least 2 tumour assessments by 15 June 2023. cORR, confirmed overall response rate; CR, complete response; DCR, disease control rate; exon20ins, exon 20 insertion; IRC, Independent Review Committee; mDoR, median duration of response; NA, not available; ND, not done; NE, not evaluable; PD, progressive disease; PR, partial response; SD, stable disease.

Furmonertinib: Safety profile

FAVOUR



Most common TRAEs (≥20%) by preferred term, n (%) ¹	Treatment-naïve 240 mg (n=30)		Previously treated 240 mg (n=28)		Previously treated 160 mg (n=28)	
	Total	Grade ≥3	Total	Grade ≥3	Total	Grade ≥3
Diarrhoea	22 (73)	0	24 (86)	0	9 (32)	2 (7)
Anaemia	13 (43)	0	7 (25)	1 (4)	4 (14)	1 (4)
AST increase	8 (27)	0	7 (25)	0	10 (36)	0
ALT increase	7 (23)	0	7 (25)	1 (4)	8 (29)	0
Blood creatinine	6 (20)	0	8 (29)	0	7 (25)	0
Mouth ulceration	9 (30)	1 (3)	4 (14)	0	5 (18)	0
Rash	7 (23)	0	6 (21)	0	4 (14)	0
ECG QT prolongation	8 (27)	1 (3)	4 (14)	2 (7)	2 (7)	0
WBC count decrease	6 (20)	1 (3)	5 (18)	0	6 (21)	0
Decreased appetite	3 (10)	0	8 (29)	0	0	0
Weight loss	3 (10)	0	7 (25)	1 (4)	3 (11)	0
Skin fissures	6 (20)	0	3 (11)	0	0	0
Paronychia	6 (20)	0	2 (7)	0	1 (4)	0

ALT, alanine aminotransferase; AST, aspartate aminotransferase; ECG, electrocardiogram; TRAE, treatment-related adverse event; WBC, white blood cell.



Sunvozertinib: Efficacy and safety profile

Best response, n (%) [*]	Prior amivantamab treatment		Prior IO treatment	
	With (n=14)	Without (n=93)	With (n=52)	Without (n=55)
CR	0	3 (3.2)	2 (3.8)	1 (1.8)
PR	7 (50.0)	47 (50.5)	26 (50.0)	28 (50.9)
PR, confirmed	5 (35.7)	41 (44.1)	23 (44.2)	23 (41.8)
PR, pending confirmation	1 (7.1)	3 (3.2)	2 (3.8)	2 (3.6)
SD	4 (28.6)	35 (37.6)	21 (40.4)	18 (32.7)
PD	3 (21.4)	5 (5.4)	1 (1.9)	7 (12.7)
NE	0	3 (3.2)	2 (3.8)	1 (1.8)

- The most common TRAEs included diarrhoea, blood creatinine phosphokinase increase, and rash
- 36.0% of patients had dose reduction
- 6.3% of patients had dose discontinuation
- No patients had fatal TRAEs
- Safety profiles were comparable across different demographics and baseline disease characteristics

Sunvozertinib demonstrated promising efficacy in patients with advanced NSCLC harbouring *EGFR* exon20ins mutations, regardless of prior amivantamab or IO status



New clinical strategies for EGFR Ex20ins mutated NSCLC

EGFR Ex20ins mutated NSCLC

**Amivantamab as first-line therapy
PAPILLON as current standard-of-care**

Amivantamab in pre-treated patients

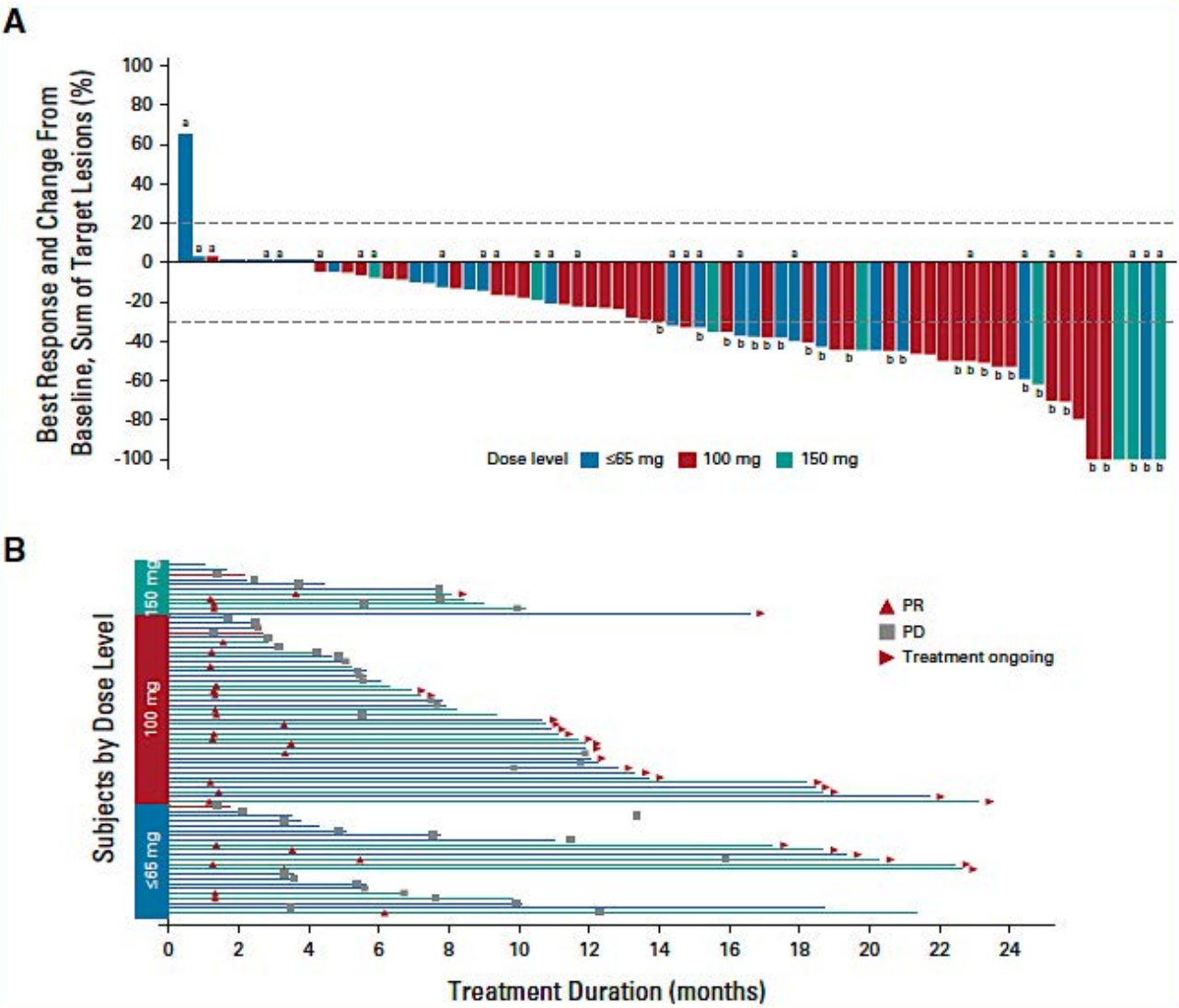
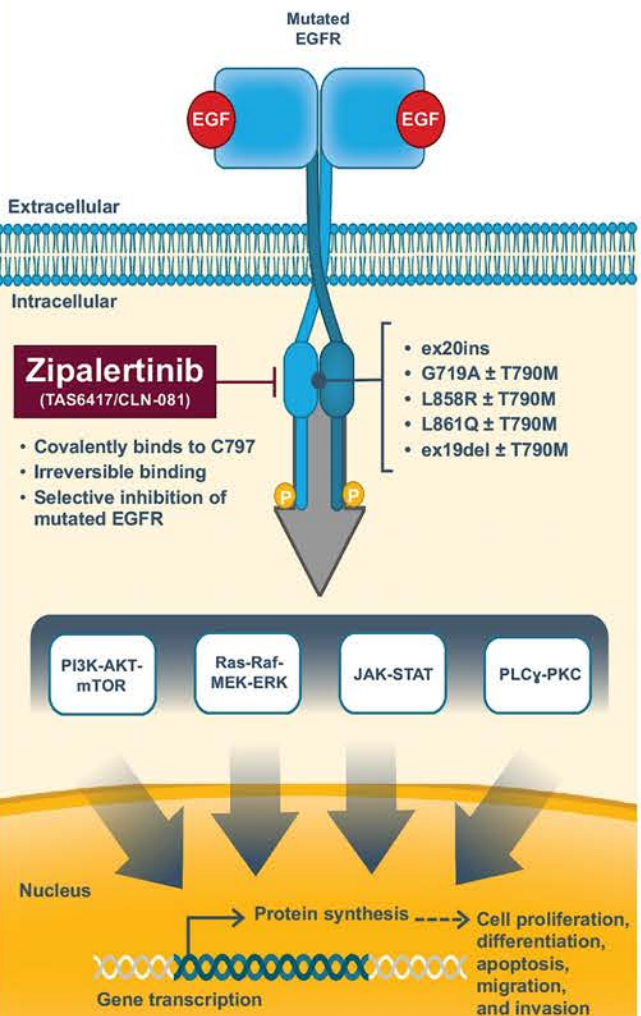
New agents

TKIs overview

Zipalertinib

Zipalertinib: REZILIENT1, EGFR exon20 post-platinum

Mechanism of action of zipalertinib^{4,5}



ORR 38%

mDoR 10 months
mPFS 10 months

Zipalertinib: REZILIENT1, EGFR exon20 post-platinum

TABLE 2. Treatment-Related AEs Observed in ≥10% of Subjects Overall

AE ^a	≤65 mg Twice a Day (N = 23)		100 mg Twice a Day (N = 39)		150 mg Twice a Day (N = 11)		Overall (N = 73)	
	All Grade	Grade ≥3	All Grade	Grade ≥3	All Grade	Grade ≥3	All Grade	Grade ≥3
Rash	19 (83)	0	32 (82)	0	7 (64)	1 (9)	58 (80)	1 (1)
Paronychia	6 (26)	0	12 (31)	0	5 (45)	0	23 (32)	0
Diarrhea	4 (17)	0	14 (36)	0	4 (36)	2 (18)	22 (30)	2 (3)
Fatigue	5 (22)	0	8 (21)	0	2 (18)	0	15 (21)	0
Anemia	7 (30)	4 (17.4)	5 (13)	1 (2.6)	2 (18)	2 (18.2)	14 (19)	7 (9.6)
Dry skin	6 (26)	0	7 (18)	0	0	0	13 (18)	0
Nausea	5 (22)	0	4 (10)	0	3 (27)	0	12 (16)	0
Stomatitis	2 (9)	0	5 (13)	0	3 (27)	1 (9)	10 (14)	1 (1)
Alopecia	3 (13)	0	6 (15)	0	0	0	9 (12)	0
Dry eye	1 (4)	0	7 (18)	0	1 (9)	0	9 (12)	0
AST increased	3 (13)	1 (4.3)	3 (8)	1 (2.6)	2 (18)	1 (9.1)	8 (11)	3 (4)
Decreased appetite	4 (17)	0	4 (10)	0	0	0	8 (11)	0

Abbreviations: AEs, adverse events; CTCAE, Common Terminology Criteria for Adverse Events.

^aCTCAE v5.0.

REZILIENT1: Zipalertinib post-amivantamab

REZILIENT1 Phase 2b Module C: Study Rationale and Design

- Zipalertinib, a novel irreversible and selective EGFR ex20ins TKI, has been granted Breakthrough Therapy Designation by the US FDA after demonstrating promising efficacy and favorable safety profile in a Phase 1/2a study (JCO 2023)
- Module C of this Phase 2b study investigates the efficacy and safety of zipalertinib in patients who progressed on or after amivantamab, a significant emerging unmet medical need (NCT04036682)

Key eligibility criteria

- Locally advanced or metastatic NSCLC
- Documented EGFR exon 20 insertion
- Progressed on or after amivantamab
- ECOG PS 0 or 1
- Stable/asymptomatic brain metastases allowed

Zipalertinib
100 mg BID oral³

*Zipalertinib may be taken with or without food

Primary endpoint:

- ORR and DOR per RECIST v1.1

Secondary endpoints:

- Safety
- PFS
- DCR

- At data cutoff on March 29, 2024, 45 patients were enrolled
- 30 patients were response evaluable (≥2 on-treatment tumor assessments or had disease progression/death)

ASCO 2025: Abstract 8503

Efficacy of zipalertinib in NSCLC patients with EGFR exon 20 insertion mutations who received prior platinum-based chemotherapy with or without amivantamab.

June 1, 2025 – 9:00 AM CDT

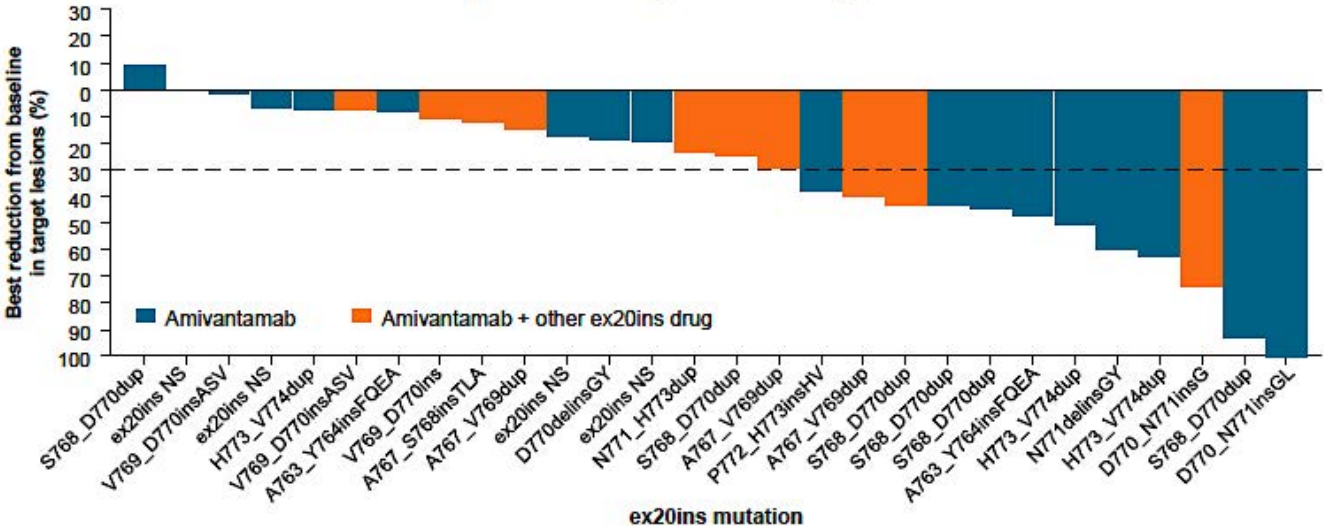
Arie Crown Theater

Summary of Treatment-Related Adverse Events

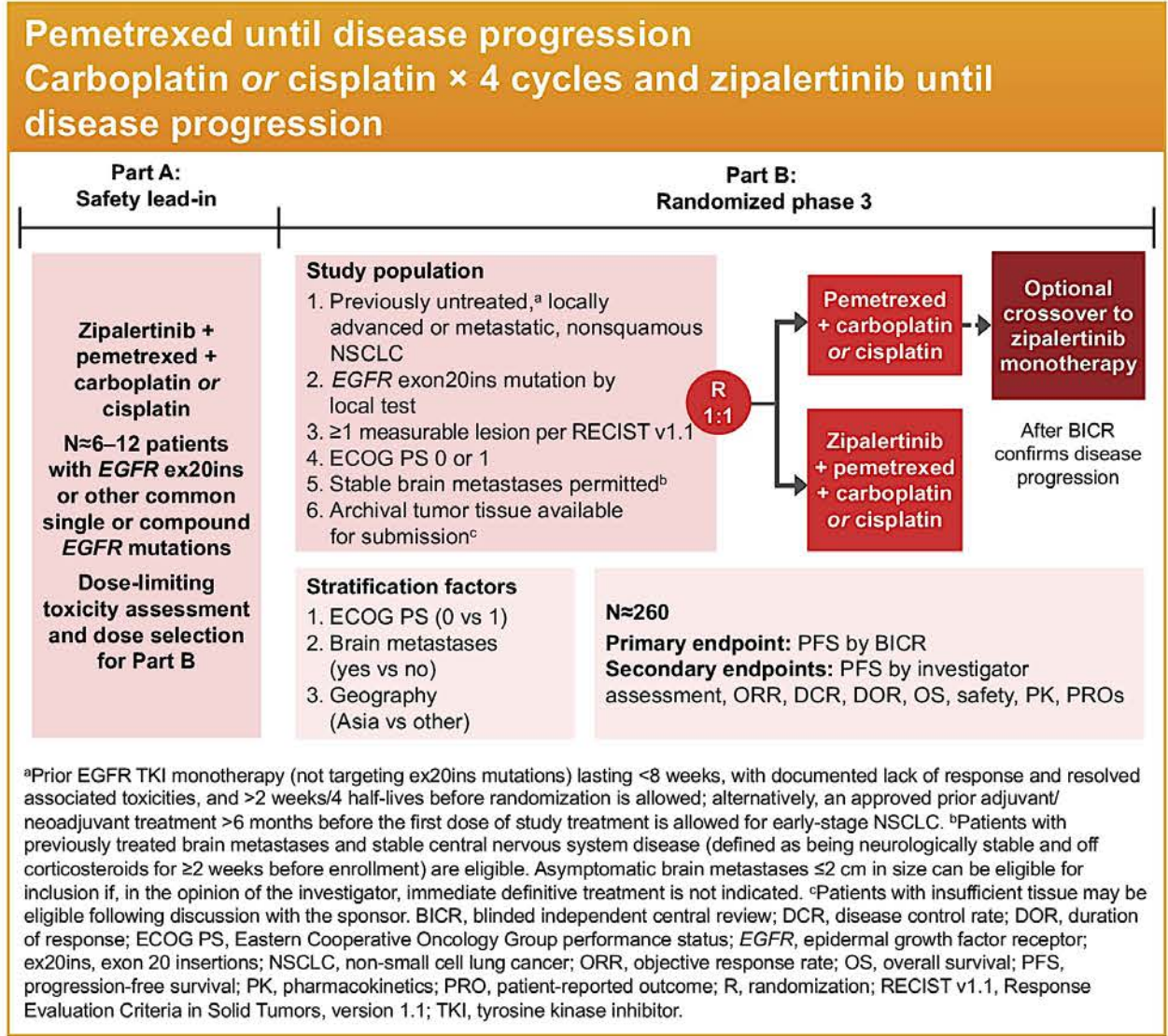
TRAE ≥10%, n (%)	Ami only (n=28)	Ami + other ex20ins (n=17)	Total (N=45)	TRAE Grade ≥3 (≥2 patients), n (%)	Ami only (n=28)	Ami + other ex20ins (n=17)	Total (N=45)
Rash	12 (43)	5 (29)	17 (38)	Anemia	2 (7)	2 (12)	4 (9)
Paronychia	11 (39)	5 (29)	16 (36)	Rash	2 (7)	1 (6)	3 (7)
Anemia	6 (21)	5 (29)	11 (24)	Pneumonitis/ILD	3 (11)	0	3 (7)
Dry skin	5 (18)	4 (24)	9 (20)	Dose reduction ^a	2 (7)	1 (6)	3 (7)
Dermatitis acneiform	3 (11)	4 (24)	7 (16)	Dose discontinuation ^b	3 (11)	0	3 (7)
Nausea	4 (14)	3 (18)	7 (16)				
Stomatitis	2 (7)	3 (18)	5 (11)				

^aPlatelet count decrease, anemia, anemia/leukopenia, ^bPneumonitis/ILD.
ILD: interstitial lung disease; TRAE: treatment-related adverse event.

Best Percentage Change From Baseline in Target Lesions and Confirmed Response by Investigators



REZILIENT3: Zipalertinib + CT as First Line in Patients With EGFR Exon20ins NSCLC



Endpoints

- The primary endpoint in Part A is the incidence of dose-limiting toxicities (per CTCAE v5.0) during Cycle 1

Part B endpoints			
Primary	PFS per RECIST v1.1 by BICR		
Secondary	Investigator-assessed PFS, ORR, DCR, and DOR per RECIST v1.1	Intracranial ORR, DCR, and DOR	OS
	ORR, DOR, and DCR per RECIST v1.1 by BICR	Adverse events per CTCAE v5.0	PK profile
			PROs

BICR, blinded independent central review; CTCAE v5.0, Common Terminology Criteria for Adverse Events, version 5.0; DCR, disease control rate; DOR, duration of response; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; PK, pharmacokinetics; PRO, patient-reported outcome; RECIST v1.1, Response Evaluation Criteria in Solid Tumors, version 1.1.

New clinical strategies for EGFR Ex20ins mutated NSCLC

EGFR Ex20ins mutated NSCLC

Amivantamab in pre-treated patients









**Amivantamab as first-line therapy
PAPILLON as new standard-of-care**

New agents

TKIs overview

Zipalertinib

Regulatory and reimbursement issues aside, which first-line systemic therapy would you recommend for an otherwise healthy 65-year-old patient with nonsquamous mNSCLC with an EGFR exon 20 insertion mutation and a PD-L1 TPS of 0 and the disease characteristics as described?

		Minimal disease burden and symptoms	Symptomatic, with significant tumor bulk and disease burden (excluding the brain)
	Prof Girard	Amivantamab + chemotherapy	Amivantamab + chemotherapy
	Dr Goldman	Amivantamab + chemotherapy	Amivantamab + chemotherapy
	Dr Jänne	Amivantamab + chemotherapy	Amivantamab + chemotherapy
	Dr Ramalingam	Amivantamab + chemotherapy	Amivantamab + chemotherapy
	Dr Sabari	Amivantamab + chemotherapy	Symptomatic, with significant tumor bulk and disease burden (excluding the brain)
	Dr Yu	Zipalertinib	Amivantamab + chemotherapy
	Dr Gadgeel	Amivantamab + chemotherapy	Amivantamab + chemotherapy
	Dr Spira	Amivantamab + chemotherapy	Amivantamab + chemotherapy

A 65-year-old patient with nonsquamous mNSCLC with an EGFR exon 20 insertion mutation and a PD-L1 TPS of 0 responds to first-line amivantamab/chemotherapy and then experiences asymptomatic disease progression after 12 months. Regulatory and reimbursement issues aside, what would be your second-line treatment recommendation if the patient had acquired no further actionable mutations?



Prof Girard

Zipalertinib; sunvozertinib



Dr Goldman

Zipalertinib



Dr Jänne

Sunvozertinib



Dr Ramalingam

Chemotherapy +/- bevacizumab



Dr Sabari

Zipalertinib



Dr Yu

Zipalertinib



Dr Gadgeel









Zipalertinib



Dr Spira

Zipalertinib

Based on the published literature and/or your clinical experience, how would you indirectly compare the global efficacy and tolerability of zipalertinib to that of amivantamab for patients with NSCLC and EGFR exon 20 insertion mutations?

		Efficacy	Tolerability
	Prof Girard	Amivantamab is more efficacious	Zipalertinib is more tolerable
	Dr Goldman	I'm not sure	Zipalertinib is more tolerable
	Dr Jänne	Efficacy is similar with each agent	Zipalertinib is more tolerable
	Dr Ramalingam	Efficacy is similar with each agent	Zipalertinib is more tolerable
	Dr Sabari	Zipalertinib is more efficacious	Zipalertinib is more tolerable
	Dr Yu	Efficacy is similar with each agent	Zipalertinib is more tolerable
	Dr Gadgeel	Efficacy is similar with each agent	Zipalertinib is more tolerable
	Dr Spira	I'm not sure	Zipalertinib is more tolerable

Based on the published literature and/or your clinical experience, what are the main side effects associated with zipalertinib?



Prof Girard

Diarrhea, rash



Dr Goldman

GI, rash, LFT elevation



Dr Jänne

GI, rash



Dr Ramalingam

Rash, paronychia, anemia



Dr Sabari

Rash, GI toxicity (well tolerated)



Dr Yu

Leg cramps, mild fatigue



Dr Gadgeel

Diarrhea



Dr Spira

Mild rash

Agenda

MODULE 1: Evolving First-Line Treatment for Metastatic EGFR Mutation-Positive Non-Small Cell Lung Cancer (NSCLC) — Dr Yu

MODULE 2: EGFR-Targeted Approaches for Relapsed EGFR-Mutant NSCLC; Strategies to Facilitate Delivery of Recently Approved Agents — Dr Sabari

MODULE 3: Potential Utility of TROP2-Targeted Therapy in the Management of EGFR-Mutant NSCLC — Dr Ramalingam

MODULE 4: Contemporary Care for Patients with Nonmetastatic EGFR-Mutant NSCLC — Dr Goldman

MODULE 5: Current and Future Management of EGFR Exon 20 Mutation-Positive NSCLC — Prof Girard

MODULE 6: Emerging Role of HER3-Targeted Therapy in the Management of EGFR-Mutant NSCLC — Dr Jänne

Emerging Role of HER3-Targeted Therapy in the Management of EGFR-Mutant NSCLC

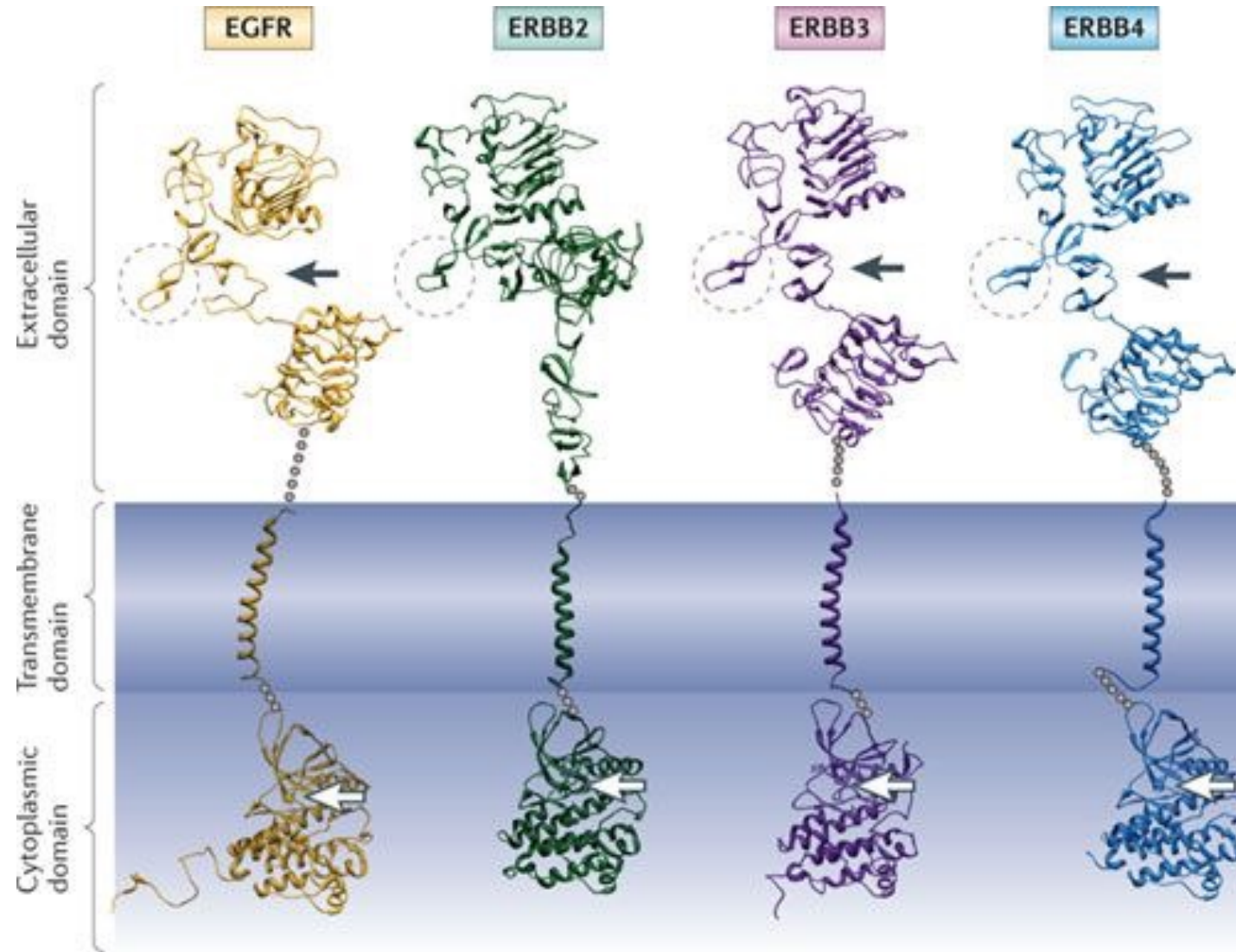
Pasi A. Jänne MD, PhD



Dana-Farber
Cancer Institute

Lowe Center
for Thoracic Oncology

EGFR mutant cancers often co-express other ERBB family members



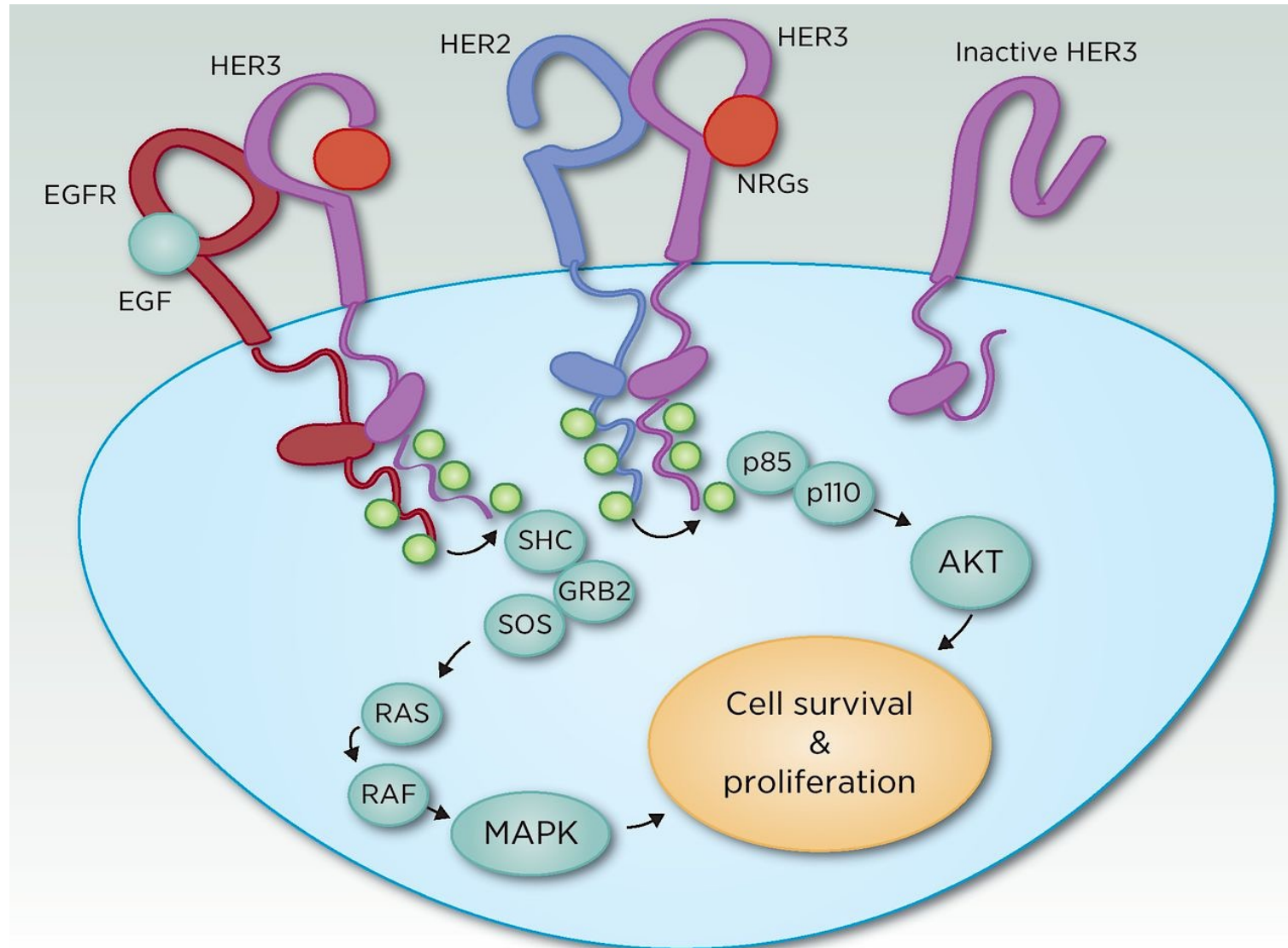
HER2

- Amplification a known resistance mechanism

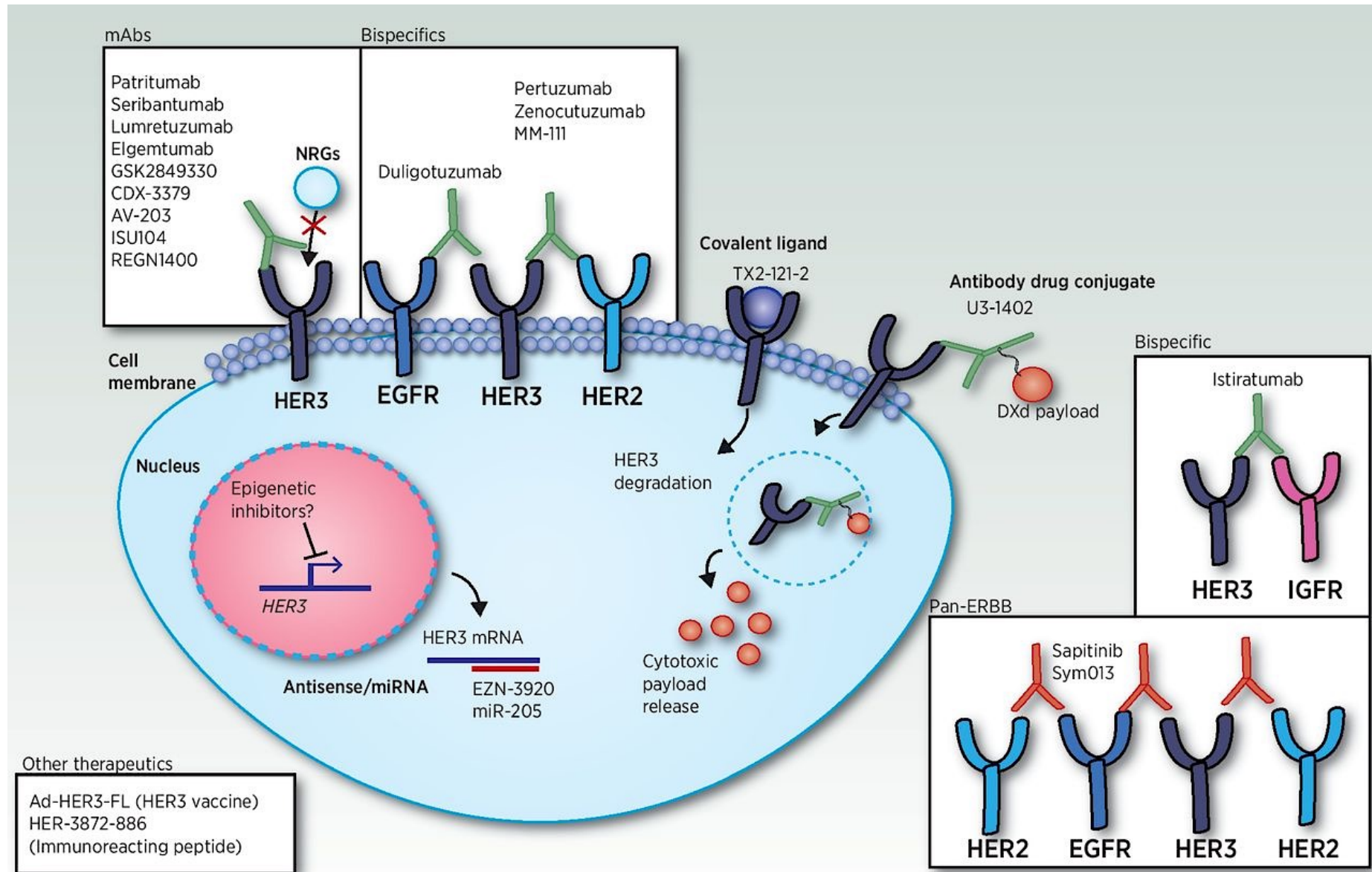
HER3

-Used to activate PI3K signaling
-Not a known resistance mechanism to EGFR TKIs
Expressed in the majority of EGFR mutant NSCLCs

HER3 forms heterodimers upon ligand activation



Therapeutic strategies to inhibit HER3



**Phase I Study of U3-1287, a Fully Human Anti-HER3
Monoclonal Antibody, in Patients with Advanced Solid
Tumors**

Patricia LoRusso¹, Pasi A. Jänne², Moacyr Oliveira³, Naiyer Rizvi⁵, Lisa Malburg¹, Vicki Keedy⁶, Lorrin Yee⁴, Catherine Copigneaux⁷, Thore Hettmann⁸, Chi-Yuan Wu⁹, Agnes Ang⁹, Abdel-Baset Halim⁷, Robert A. Beckman⁷, Darrin Beaupre⁹, and Jordan Berlin⁶

57 patients; 20 NSCLC patients; most
prior EGFR TKI therapy.

No PRs; SD ~ 50% of patients

Well tolerated

Phase I study of the HER3-targeted antibody patritumab (U3-1287) combined with erlotinib in Japanese patients with non-small cell lung cancer[☆]



Makoto Nishio^{a,*}, Atsushi Horiike^a, Haruyasu Murakami^b, Nobuyuki Yamamoto^b, Hiroyasu Kaneda^c, Kazuhiko Nakagawa^c, Hidehito Horinouchi^d, Masaki Nagashima^e, Masaru Sekiguchi^e, Tomohide Tamura^d

24 patients; 54% EGFR mutant; TKI
naïve and prior TKI treated.

1 PR; 14 SD

PFS longer in EGFR mutant patients

Circulating heregulin level is associated with the efficacy of
patritumab combined with erlotinib in patients with non-small cell
lung cancer



Kimio Yonesaka^{a,*}, Kenji Hirotani^b, Joachim von Pawel^c, Mircea Dediu^d, Shuquan Chen^e, Catherine Copigneaux^e, Kazuhiko Nakagawa^a

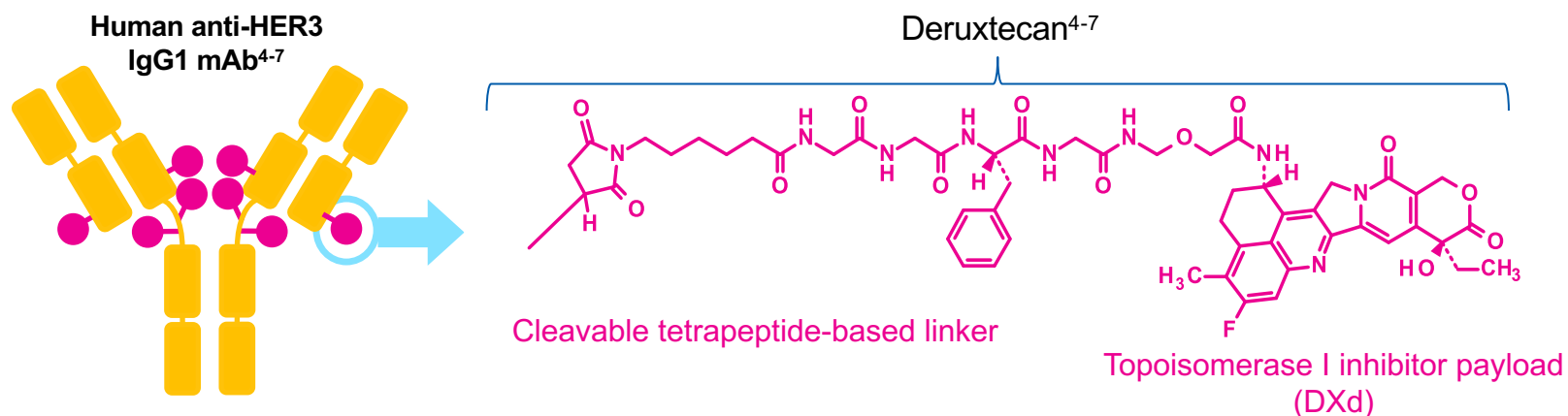
Randomized phase II trial; patritumab/erlotinib
vs. erlotinib; no improvement in PFS

Patients with high soluble serum heregulin had
prolonged PFS

Patritumab deruxtecan (HER3-DXd) Structure and Attributes

HER3-DXd is an antibody drug conjugate with 3 components⁴⁻⁷

- A fully human anti-HER3 IgG1 mAb (patritumab), covalently linked to
- A topoisomerase I inhibitor payload, an exatecan derivative, via
- A tetrapeptide-based cleavable linker



The 7 Key Attributes of HER3-DXd

Payload mechanism of action:
topoisomerase I inhibitor^{4-7,a}

High potency of payload^{4-7,a}

High drug-to-antibody ratio $\approx 8^{4,5,a}$

Payload with short systemic half-life^{5,6,a,b}

Stable linker-payload^{5-7,a}

Tumor-selective cleavable linker^{4-8,a}

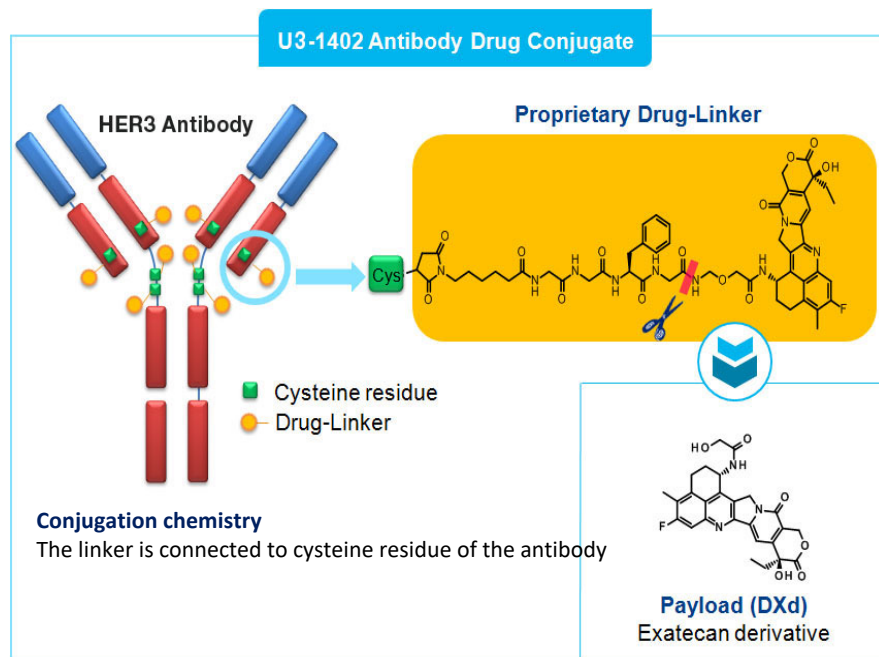
Bystander antitumor effect^{5,9,a}

^a The clinical relevance of these features is under investigation.

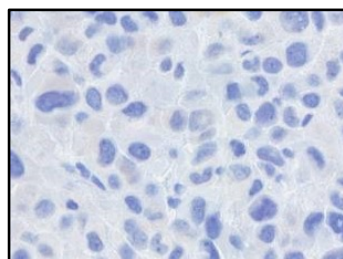
^b Based on animal data.

IgG1, immunoglobulin G1; mAb, monoclonal antibody.

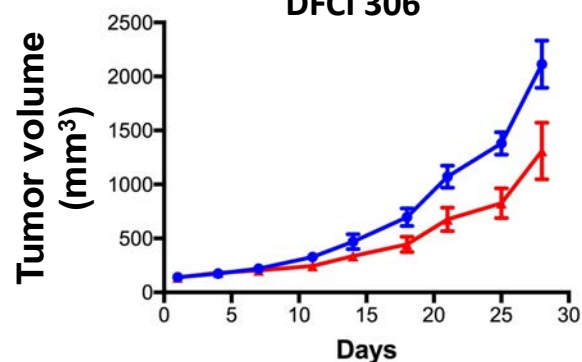
Patritumab deruxtecan is effective in EGFR inhibitor resistant PDX models



H-Score: 1

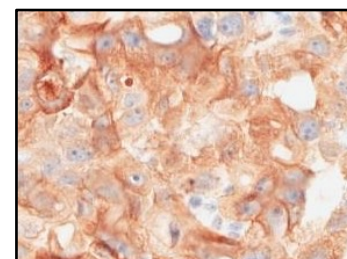


DFCI 306

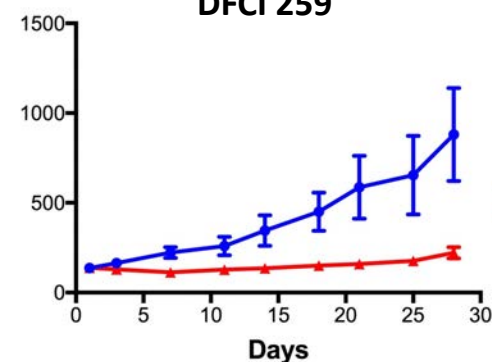


Osimertinib resistant
(Ex19del/BRAF V600E)

H-Score: 202

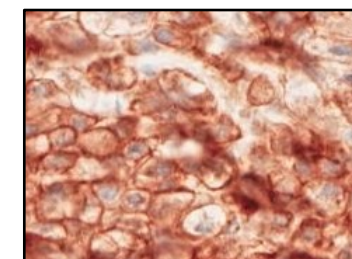


DFCI 259

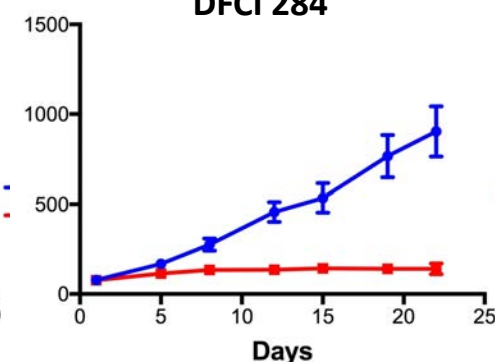


Erlotinib resistant
(L858R/T790M negative)

H-Score: 248

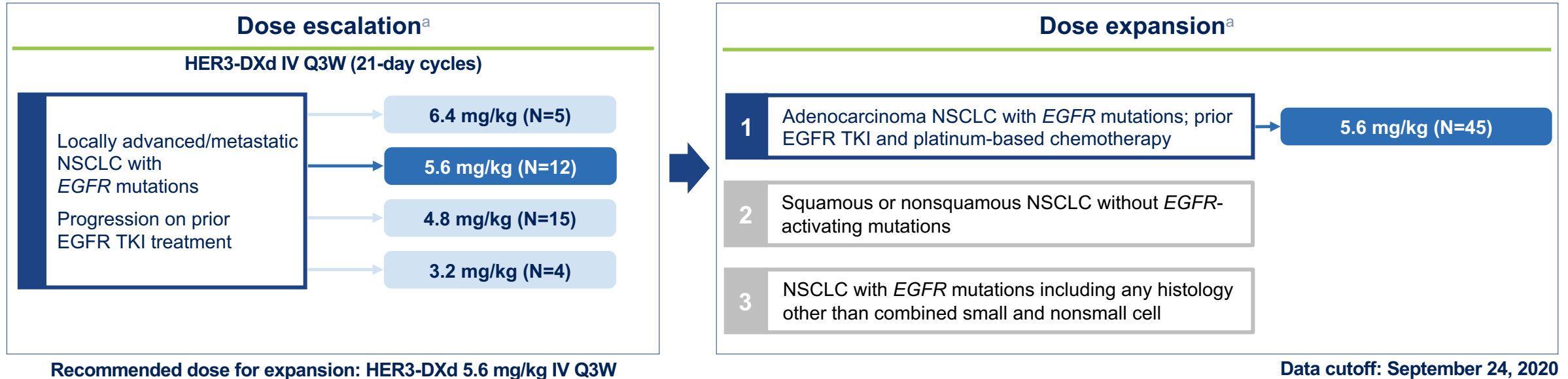


DFCI 284



Osimertinib resistant
(Ex19del/T790M)

Phase 1 Dose Escalation and Dose Expansion Study of HER3-DXd in Patients With NSCLC



57 patients with *EGFR* TKI-resistant, *EGFRm* NSCLC were treated with HER3-DXd 5.6 mg/kg in dose escalation (N=12) and dose expansion Cohort 1 (N=45)

- **Efficacy** evaluation in pooled patients with *EGFRm* NSCLC treated with HER3-DXd 5.6 mg/kg (N=57)
(Median Follow Up: 10.2 mo; range, 5.2-19.9 mo)
- **Safety** evaluation in all patients in dose escalation and dose expansion Cohort 1 (N=81)

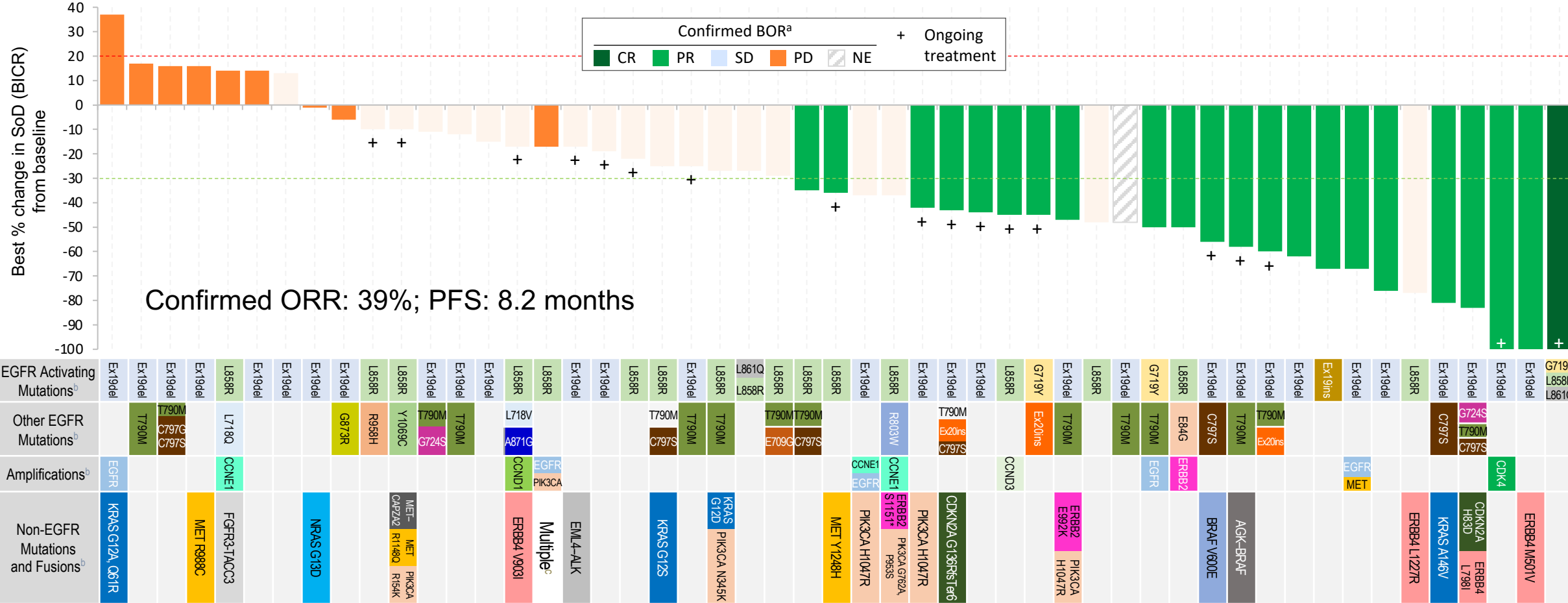
• Clinicaltrials.gov, NCT03260491; EudraCT, 2017-000543-41; JapicCTI, 194868.

• ^a Patients with stable brain metastases were permitted to enroll; A tumor biopsy was required prior to study entry but patients were not selected for inclusion based on measurement of HER3.

HER3-DXd Demonstrated Durable Antitumor Activity After Failure of EGFR TKI and Platinum-based Chemotherapy (PBC)

Outcomes (BICR per RECIST 1.1) Median Follow Up: 10.2 (range, 5.2-19.9) mo ^a	HER3-DXd 5.6 mg/kg	
	Prior TKI, ± PBC (N=57)	Prior OSI, PBC (N=44)
Confirmed ORR, % (95% CI)	39 (26-52)	39 (24-55)
Best overall response, n (%)		
CR	1 (2)	1 (2)
PR	21 (37)	16 (36)
SD, Non-CR/Non-PD	19 (33)	13 (30)
PD	9 (16)	8 (18)
Not evaluable	7 (12)	6 (14)
Disease control rate, % (95% CI)	72 (59-83)	68 (52-81)
Time to response, median (range), mo	2.6 (1.2-5.4)	2.7 (1.2-5.4)
Duration of response, median (95% CI), mo	6.9 (3.1-NE)	7.0 (3.1-NE)
PFS, median (95% CI), mo	8.2 (4.4-8.3)	8.2 (4.0-NE)

HER3-DXd Demonstrated Activity in Patients With Diverse Mechanisms of EGFR TKI Resistance



• BICR, blinded independent central review; BOR, best overall response; CR/PR, complete response/partial response; NE, not evaluable; PD, progressive disease; SD stable disease; SoD, sum of diameters.

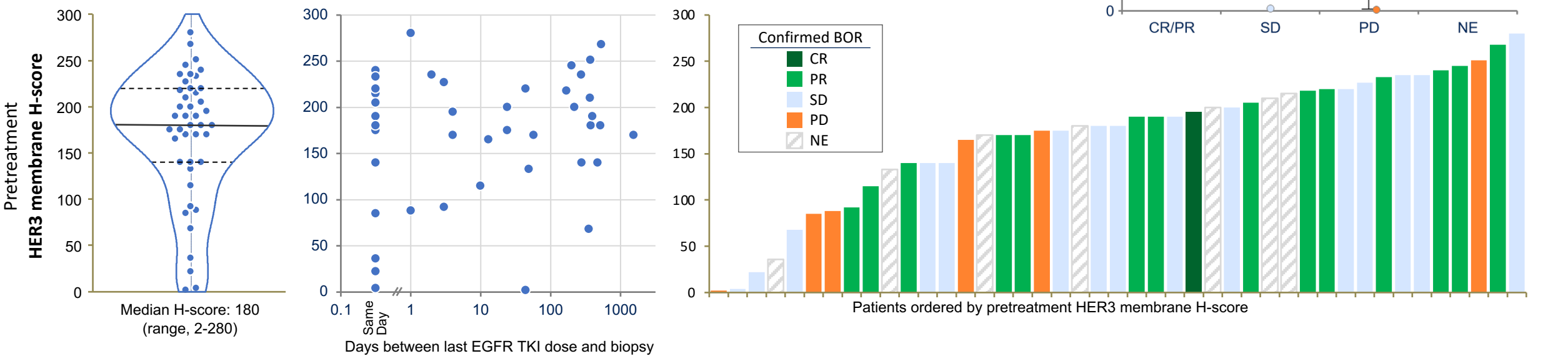
• Data cutoff: September 24, 2020.

• ^a Six patients had BORs of NE due to no adequate post-baseline tumor assessment and are not shown; 1 had BOR of NE due to SD too early (< 5 weeks) and is shown with hatched markings ^b Genomic alterations known to be associated with EGFR TKI resistance identified in assays of tumor tissue/ctDNA in blood, collected prior to treatment with HER3-DXd. ^c CDKN2A A143V; PIK3CA E542K, E545K, E726K; ERBB2 K200N; ERBB3 Q847*, Q849*.

Clinical Responses Were Observed Across the Spectrum of Baseline HER3 Expression

- HER3 was expressed in all evaluable patients' (43/57) tumors^a
- HER3 expression was not correlated with time since last EGFR TKI dose

Responses were observed in patients with a wide range of baseline HER3 membrane H-scores



• BOR, best overall response; CR/PR, complete response/partial response; NE, not evaluable; PD, progressive disease; SD stable disease.
• Data cutoff: September 24, 2020; BOR by blinded independent central review.
• ^a Immunohistochemistry analysis of membrane HER3 in pre-treatment biopsy tissue from patients subsequently receiving HER3-DXd 5.6 mg/kg (N=43; taken since progression on last treatment and within the 6 months prior to enrollment).

HERTHENA-Lung01: Phase 2 Study Design

This is a randomized, multicenter, open-label, phase 2 study of patritumab deruxtecan (HER3-DXd) in patients with locally advanced/metastatic NSCLC with an *EGFR*-activating mutation

Select Eligibility Criteria

- **Metastatic/unresectable NSCLC with an *EGFR*-activating mutation** (exon 19 deletion or L858R)
- **≥1 prior platinum-based chemotherapy regimen and prior treatment with osimertinib**
- **Progression during/after most recent systemic therapy**
- **Pretreatment tumor biopsy or archived tumor tissue since progression is required**

R 1:1

(N≈260)

Patritumab deruxtecan IV Q3W (21-day cycles)

5.6 mg/kg

N≈210

Uptitration

- C1D1: 3.2 mg/kg
- C2D1: 4.8 mg/kg
- C3D1 and subsequent cycles: 6.4 mg/kg

N≈50

Data from U31402-A-U102 phase 1 supported the choice of 5.6mg/kg fixed dosing^a

Objectives

Primary

- ORR by BICR per RECIST v1.1

- DOR^b
- PFS^b
- ORR by investigator
- DCR, TTR, best percent change in SoD^b

Secondary

- Safety and tolerability
- HER3 as a biomarker
- Immunogenicity of patritumab deruxtecan
- OS

HERTHENA-Lung01 Efficacy

Confirmed responses and survival	Prior EGFR TKI (any) and PBC (N=225)	Subset with prior 3G EGFR TKI and PBC (n=209)
cORR (95% CI), %	29.8 (23.9-36.2)	29.2 (23.1-35.9)
Best overall response (BICR), n (%)	CR	1 (0.4)
	PR	66 (29.3)
	SD ^a	99 (44.0)
	PD	43 (19.1)
	NE ^b	16 (7.1)
DCR (95% CI), %	73.8 (67.5-79.4)	72.7 (66.2-78.6)
DOR, median (95% CI), mo	6.4 (4.9-7.8)	6.4 (5.2-7.8)
PFS, median (95% CI), mo	5.5 (5.1-5.9)	5.5 (5.1-6.4)
OS, median (95% CI), mo	11.9 (11.2-13.1)	11.9 (10.9-13.1)

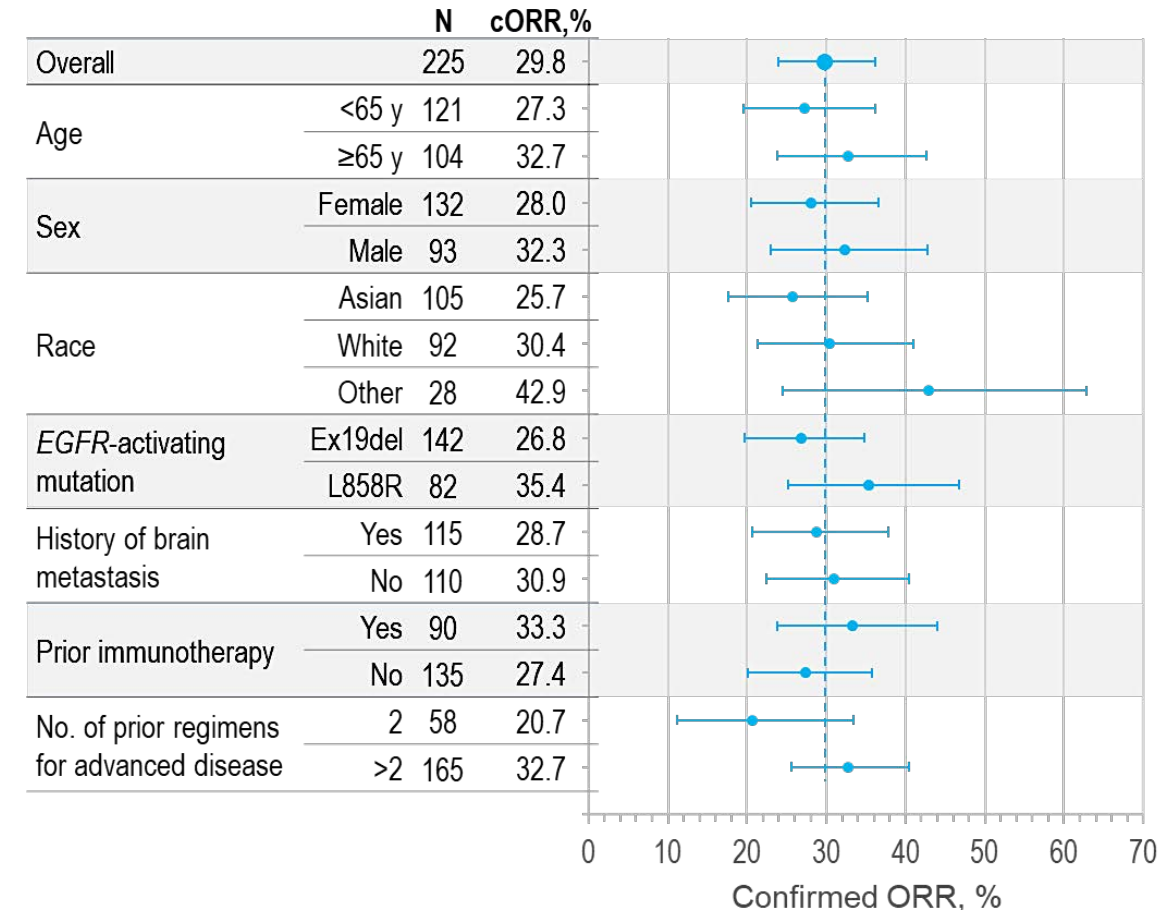
Snapshot data cutoff, 18 May 2023.

Median study follow-up, 18.9 (range, 14.9-27.5) months.

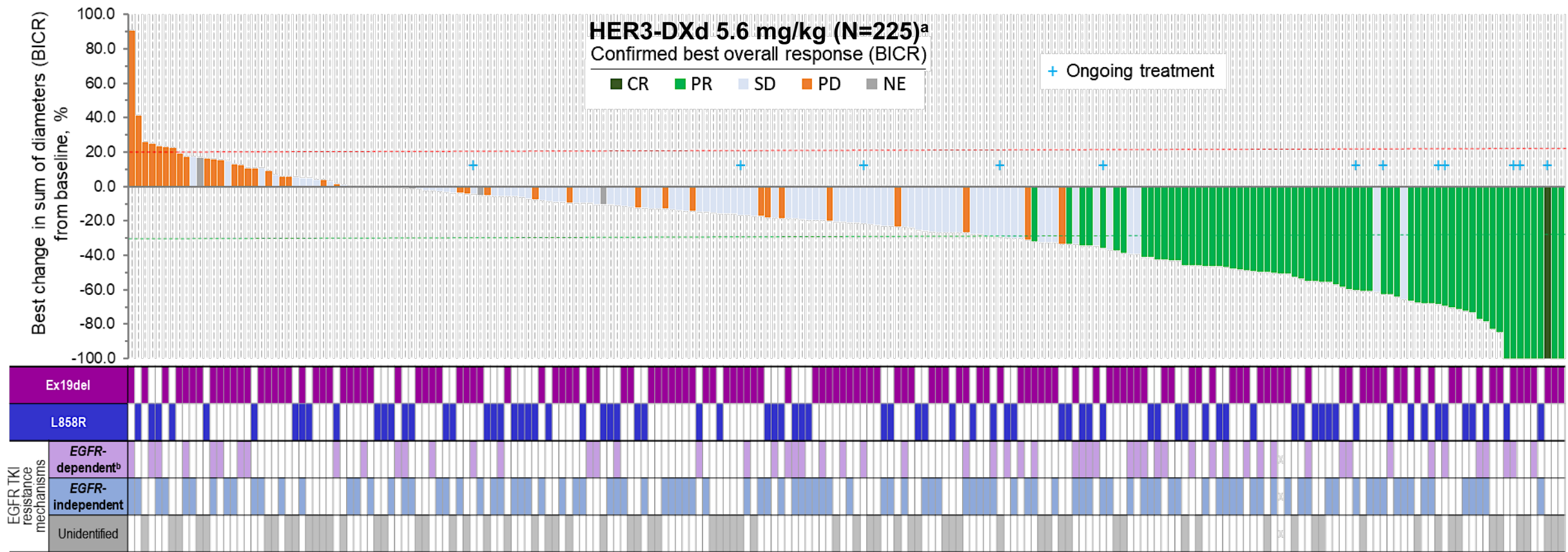
3G, third generation; BICR, blinded independent central review; cORR, confirmed objective response rate (CR or PR confirmed ≥4 weeks after initial response [RECIST v1.1]); CR, complete response; DCR, disease control rate; DOR, duration of response; NE, not evaluable; OS, overall survival; PBC, platinum-based chemotherapy; PD, progressive disease; PFS, progression-free survival; PR, partial response; SD, stable disease; TKI, tyrosine kinase inhibitor.

^a Includes non-CR/non-PD. ^b No adequate postbaseline tumor assessment (n=12); SD too early (SD <5 weeks after start of study treatment [n=4]).

cORR by Patient and Disease Characteristics at Study Entry



Tumor Reduction Across Diverse Mechanisms of EGFR TKI Resistance



Snapshot data cutoff, 18 May 2023.
Median study follow-up, 18.9 (range, 14.9-27.5) months.

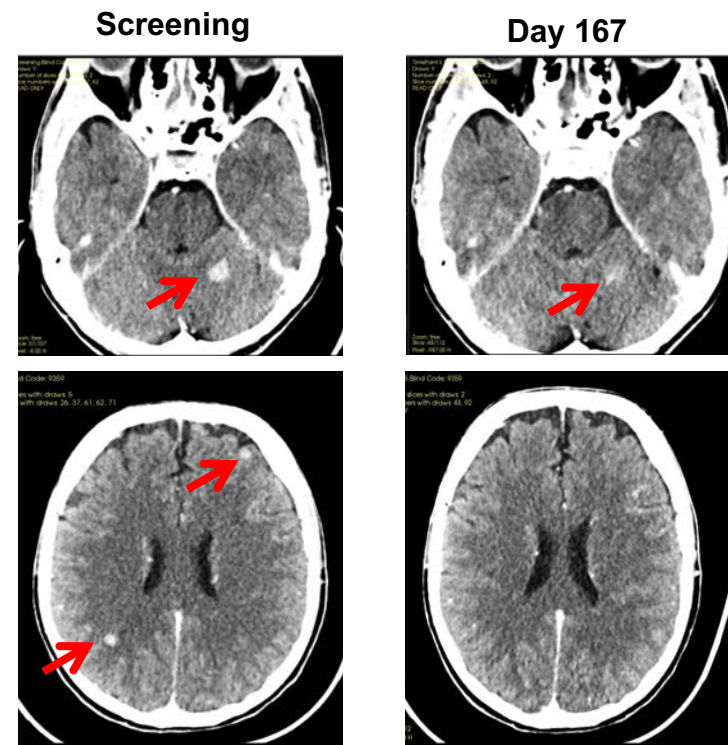
BICR, blinded independent central review; CR, complete response; HER, human epidermal growth factor receptor; IHC, immunohistochemistry; NE, not evaluable; PD, progressive disease; PR, partial response; SD, stable disease; TKI, tyrosine kinase inhibitor.
^a 210 patients had evaluable target lesion measurements at both baseline and post baseline and are included. ^b T790M was not included as an EGFR-dependent mechanism of EGFR TKI resistance.

Intracranial Responses (by CNS BICR) Observed With HER3-DXd

Intracranial Efficacy of HER3-DXd in Patients With Brain Metastases at Baseline

Intracranial response by CNS BICR per CNS RECIST	Patients with brain metastasis at baseline and no prior radiotherapy (N=30) ^a
Confirmed ORR (95% CI), %	33.3 (17.3-52.8)
CR, n (%)	9 (30.0) ^b
PR, n (%)	1 (3.3)
SD, n (%) ^c	13 (43.3)
PD, n (%)	4 (13.3)
NE, n (%)	3 (10.0)
DCR (95% CI), %	76.7 (57.7-90.1)
DOR, median (95% CI), mo	8.4 (5.8-9.2)

Partial CNS Response in a Patient With a Measurable CNS BICR Target Lesion



BICR, blinded independent central review; CNS, central nervous system; CR, complete response; DCR, disease control rate (CR+PR+SD); DOR, duration of response; MRI, magnetic resonance imaging; ORR, objective response rate; PD, progressive disease; PR, partial response; RECIST, Response Evaluation Criteria in Solid Tumors; SD, stable disease.

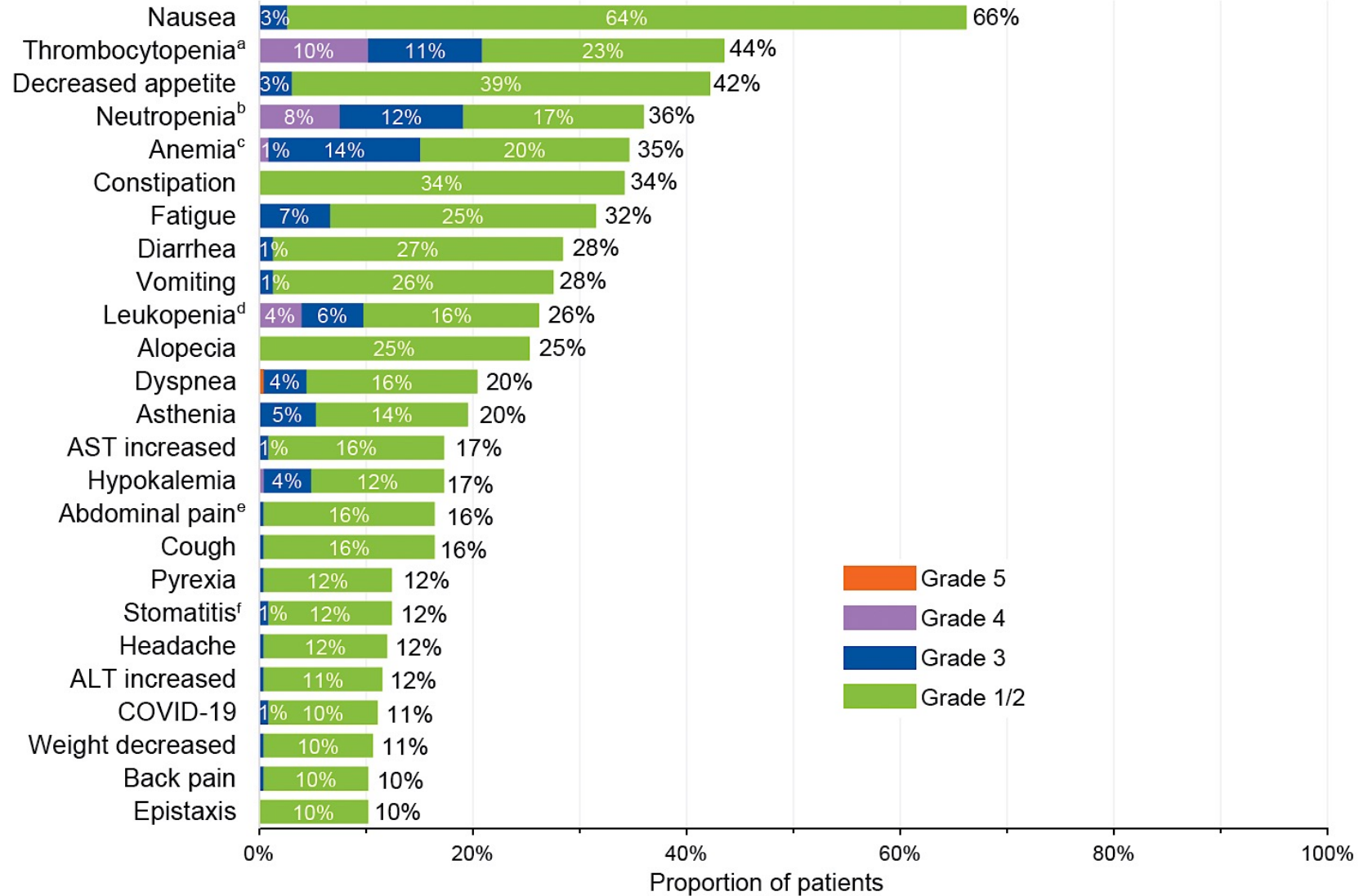
^a 7 patients had measurable target lesions; 23 patients had only nontarget lesions. ^b 8 patients had only nontarget lesions. ^c Includes non-CR/non-PD.

HERTHENA-Lung01 Overall Safety

HER3-DXd 5.6 mg/kg (N=225)	
Safety summary	
Study drug exposure	
Treatment duration, median (range), months	5.5 (0.7-23.7)
Dose intensity, median (range), mg/kg/cycle	5.45 (3.2-6.0)
Relative dose intensity, median (range), %	97.4 (57.1-107.8)
TEAEs	
Any TEAE, n (%)	224 (99.6)
Associated with treatment discontinuation	19 (8.4)
Associated with treatment dose reduction	50 (22.2)
Associated with treatment dose interruption	93 (41.3)
Grade ≥ 3 TEAE, n (%)	147 (65.3)
Treatment-related TEAE, n (%)	215 (95.6)
Associated with death ^a	4 (1.8)
Grade ≥ 3	104 (46.2)
Serious TEAE	36 (16.0)

^a Pneumonitis, GI perforation, pneumonia, respiratory failure (n=1 each)

HERTHENA-Lung01 Most Common TEAEs



^a Platelet count decreased, thrombocytopenia. ^b Neutropenia, neutrophil count decreased. ^c Anemia, hematocrit decreased, hemoglobin decreased, red blood cell count decreased. ^d Leukopenia, white blood cell count decreased. ^e Abdominal discomfort, abdominal pain, abdominal pain lower, abdominal pain upper. ^f Aphthous ulcer, mouth ulceration, oral mucosa erosion, oral mucosal blistering, stomatitis.

HERTHENA-Lung02: Phase 3 Study Design

This is a randomized, open-label, phase 3 study of patritumab deruxtecan (HER3-DXd) vs platinum-based chemotherapy

Press Release (9/17/24):

Patritumab Deruxtecan Demonstrated Statistically Significant Improvement in Progression-Free Survival Versus Doublet Chemotherapy in Patients with Locally Advanced or Metastatic EGFR-Mutated Non-Small Cell Lung Cancer in HERTHENA-Lung02 Phase 3 Trial

- Locally Advanced or Metastatic EGFR-Mutated NSCLC
- 1 or 2 prior lines of therapy (must include a platinum-based doublet)
- Disease progression on prior therapy
- Pre-treatment performance status of ECOG 0-1
- No prior treatment with HER3-DXd

Mok et al. Lung Cancer Oral session. June 1st 10:00 – 10:12 am; Arie Crown Theater

Follow-up

End of Study

Objectives

Primary

- Progression-free survival (BICR)

Secondary

- Overall survival (**key secondary**)
- Progression-free survival (Investigator)
- ORR
- DOR
- Safety and TEAEs
- DCR
- CBR
- Immunogenicity
- Correlation of efficacy and HER3 expression
- TTR
- PRO of disease-related symptoms

Patritumab Deruxtecan Biologics License Application for Patients with Previously Treated Locally Advanced or Metastatic EGFR-Mutated NSCLC Voluntarily Withdrawn

Press Release: May 29, 2025

“The Biologics License Application (BLA) seeking accelerated approval in the US for patritumab deruxtecan (HER3-DXd), based on the HERTHENA-Lung01 Phase 2 trial for the treatment of adult patients with locally advanced or metastatic EGFR-mutated non-small cell lung cancer (NSCLC) previously treated with two or more systemic therapies, has been voluntarily withdrawn.

The decision to withdraw the BLA is based on topline overall survival (OS) results from the confirmatory HERTHENA-Lung02 Phase 3 trial where OS did not meet statistical significance, as well as discussions with the US Food and Drug Administration. The decision is unrelated to the Complete Response Letter that was received in June 2024 and outlined findings pertaining to an inspection of a third-party manufacturing facility.

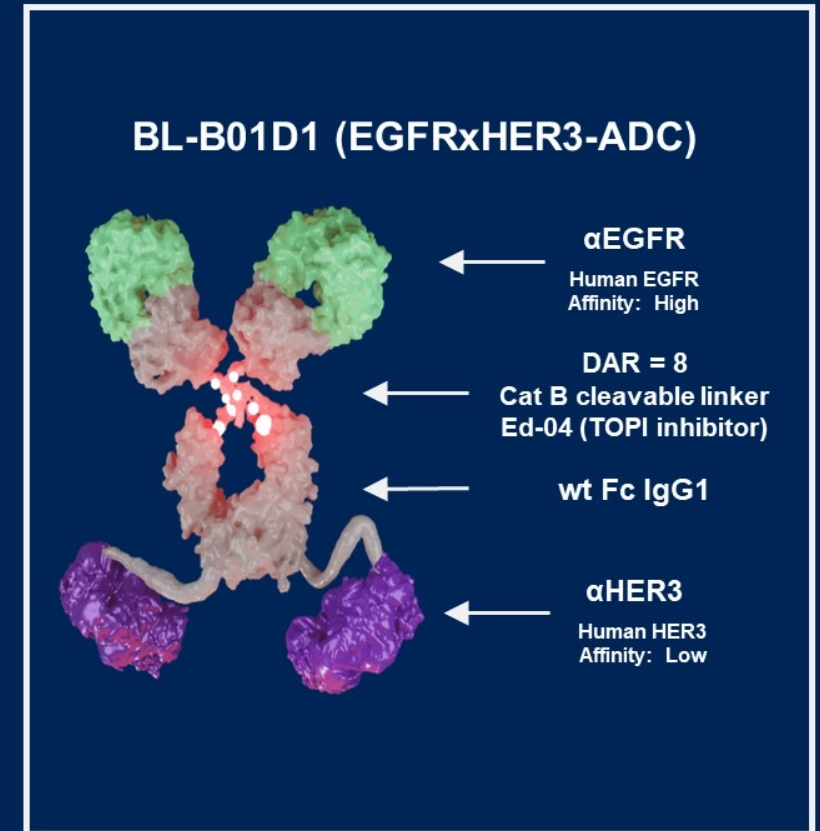
Results from the HERTHENA-Lung02 Phase 3 trial, including previously reported statistically significant progression-free survival (PFS) along with topline OS results, will be presented during an oral presentation (#8506) at the 2025 American Society of Clinical Oncology Annual Meeting on Sunday, June 1, 2025.”

Other HER3 ADCs

- DB-1310
 - Developmental Therapeutics Molecularly Targeted Agents and Tumor Biology; Friday May 30th; 2:45 pm CDT; Hall D1
 - 35.7% RR; PFS 7.0 months in previously treated EGFR mutant NSCLC

Background

- EGFR and HER3 are highly expressed in various epithelial tumors. Targeting these receptors could provide a broad-spectrum and pan-tumor killing therapy.
- Antibody-drug conjugates have emerged as a powerful strategy in cancer therapy.
- BL-B01D1 is a first-in-class (FIC) ADC consisting of an EGFRxHER3 bispecific antibody bounded to a novel topoisomerase I inhibitor payload via a cleavable linker.
- We assessed its safety, tolerability, and preliminary efficacy in patients with solid tumors in a first-in-human (FIH) trial (BL-B01D1-101).

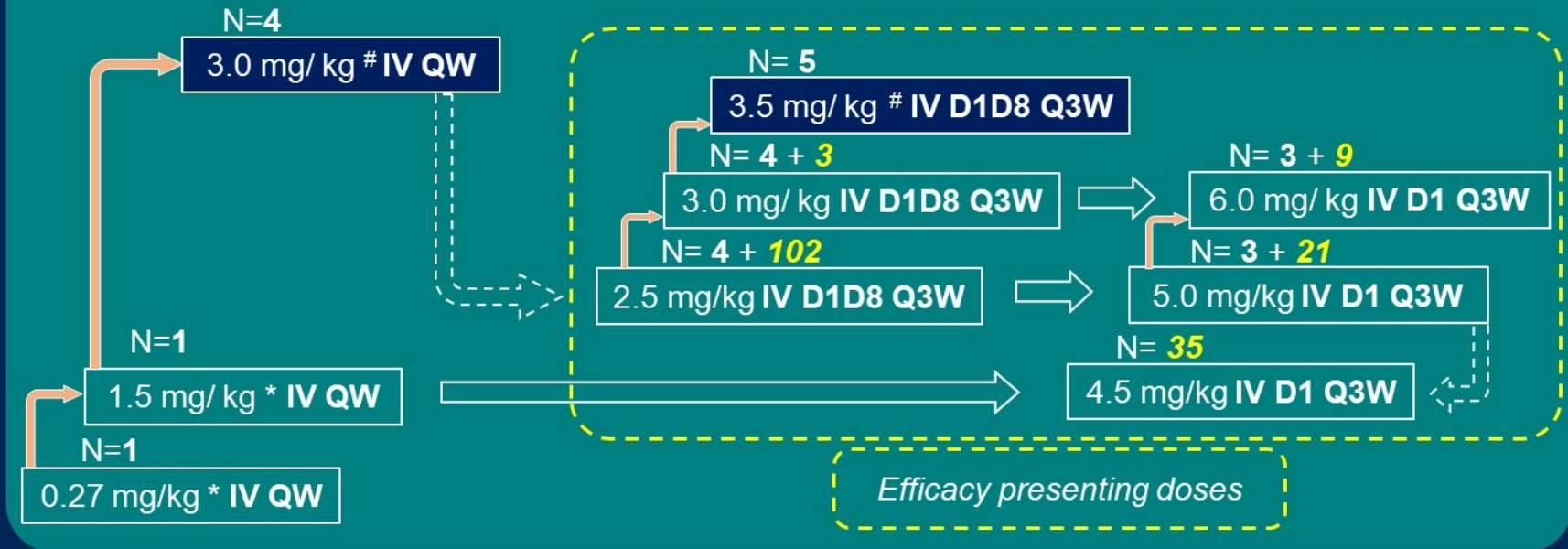


BL-B01D1-101 Study design and results overview

Key Inclusion Criteria:

- Locally advanced or metastatic NSCLC or other solid tumors
- ECOG PS 0-1
- Measurable disease per RECIST v1.1
- Failed standard therapy or without feasible treatment

Dose Escalation (Accelerated titration & i3+3) + **Dose Expansion** N= 25 + 170



Primary Endpoint:
DLT, MTD (or MAD), RP2D

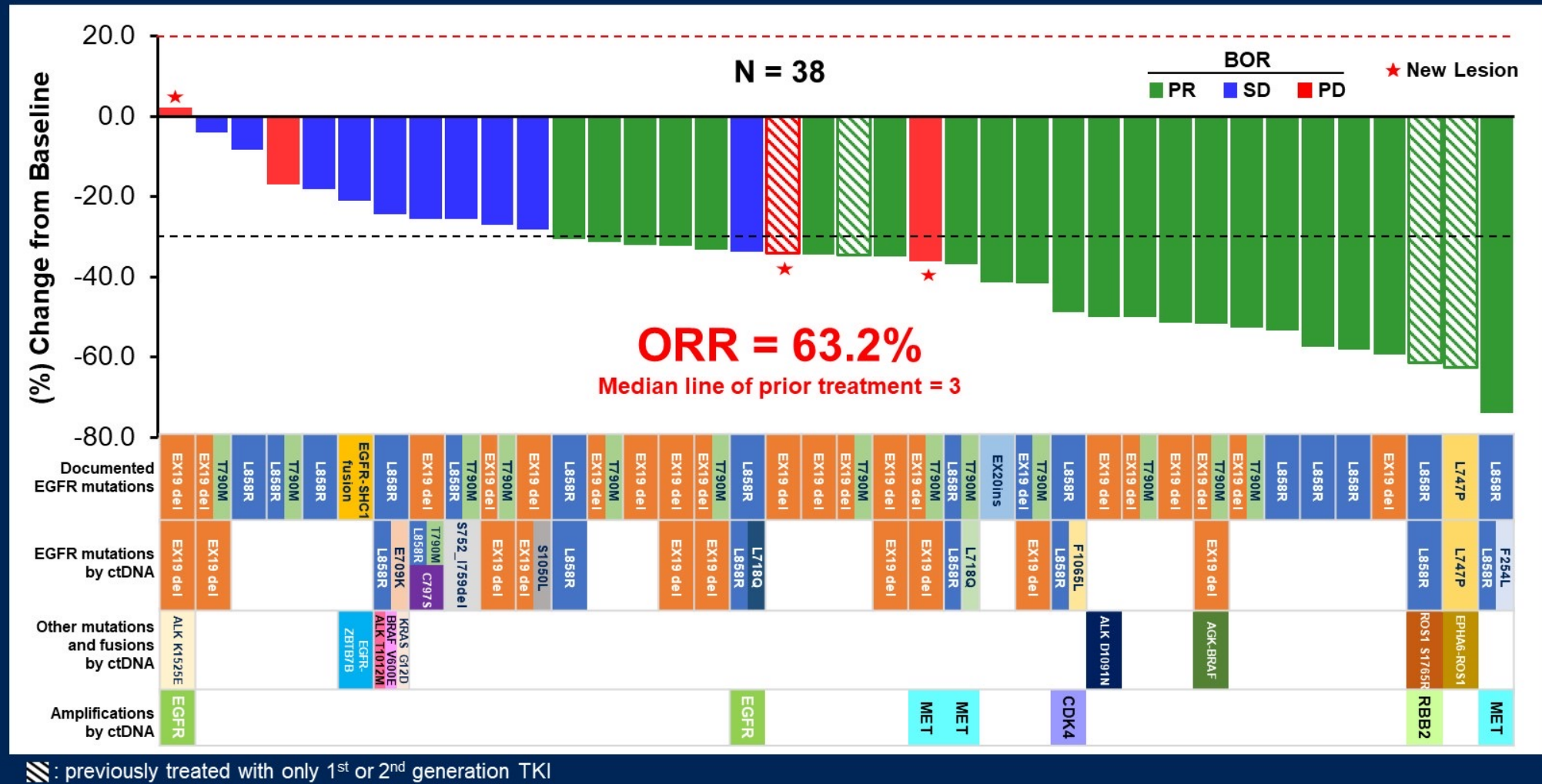
Secondary Endpoint:
PK, ADA, ORR, DCR, DOR

Exploratory Endpoint:
PFS, OS, Biomarker, Nab

* Accelerated titration; # 2 DLTs in each dose.

Data cutoff: March 13, 2023

Antitumor Response in EGFRmut NSCLC Patients



Safety of BL-B01D1-101 Study

Overall Safety Summary	ALL Patients (n=195)
Median Follow-up (months)	4.1
Treatment Related AE (TRAE)	180(92%)
Treatment discontinuation	5(3%)
Dose reduction	48(25%)
Associated with death	2(1%) [#]
Grade ≥3 TRAE	111(57%)
Treatment Related-SAE	56(29%)

[#]Two drug related deaths were because of pulmonary infection, myelosuppression.

TRAE in ≥10% patients, n (%)	BL-B01D1-101 (N=195)	
	All Grade	≥G3
Leukopenia	119 (61%)	59 (30%)
Anemia	114 (58%)	49 (25%)
Neutropenia	104 (53%)	67 (34%)
Thrombocytopenia	98 (50%)	46 (24%)
Nausea	65 (33%)	1 (<1%)
Vomiting	58 (30%)	2 (1%)
Alopecia	56 (29%)	NA
Asthenia	43 (22%)	2 (1%)
Decreased appetite	43 (22%)	1 (<1%)
Mouth ulceration	34 (17%)	3 (2%)
Diarrhea	34 (17%)	1 (<1%)
Hypophagia	32 (16%)	0
Rash	25 (13%)	0
Hypokalemia	22 (11%)	5 (3%)

No Interstitial lung disease (ILD) was observed.

Data cutoff: March 13, 2023

Based on the published literature and/or your clinical experience, would you like to have access to patritumab deruxtecan (HER3-DXd) for patients with nonsquamous mNSCLC with an EGFR mutation?



Prof Girard

Yes



Dr Goldman

Yes



Dr Jänne

Yes



Dr Ramalingam

Yes



Dr Sabari

Yes



Dr Yu

Yes



Dr Gadgeel

Yes



Dr Spira

I'm not sure

Based on the published literature and/or your clinical experience, what have you observed in terms of the tolerability of HER3-DXd for patients with nonsquamous mNSCLC with an EGFR mutation?



Prof Girard

Thrombocytopenia



Dr Goldman

HER3-DXd generally well tolerated. Less mucositis and less fatigue



Dr Jänne

Similar to chemotherapy (nausea/vomiting, hematologic toxicity)



Dr Ramalingam

Nausea, emesis, fatigue



Dr Sabari

**Similar toxicities to other deruxtecan-containing agents —
ILD, stomatitis, hematologic toxicities, etc**



Dr Yu

Tolerable



Dr Gadgeel

As tolerable as T-DXd, may have more GI symptoms



Dr Spira

Typical ADC side effects

ADC = antibody-drug conjugate

Consensus or Controversy? Clinical Investigators Provide Perspectives on the Current and Future Clinical Care of Patients with Urothelial Bladder Cancer

A CME Symposium Held in Conjunction with the 2025 ASCO® Annual Meeting

Saturday, May 31, 2025

6:45 AM – 7:45 AM CT (7:45 AM – 8:45 AM ET)

Faculty

Andrea Necchi, MD

Thomas Powles, MBBS, MRCP, MD

Moderator

Matthew D Galsky, MD

*Thank you for joining us!
Your feedback is very important to us.*

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