

16th
CONGRESS
Lung **ON**
CANCER

BARCELONA
27 / 28
NOVEMBER 2025

DEBATE: Pros and Cons combination EGFR treatments
Cons

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Universidad Complutense

Disclosures of Financial Relationships

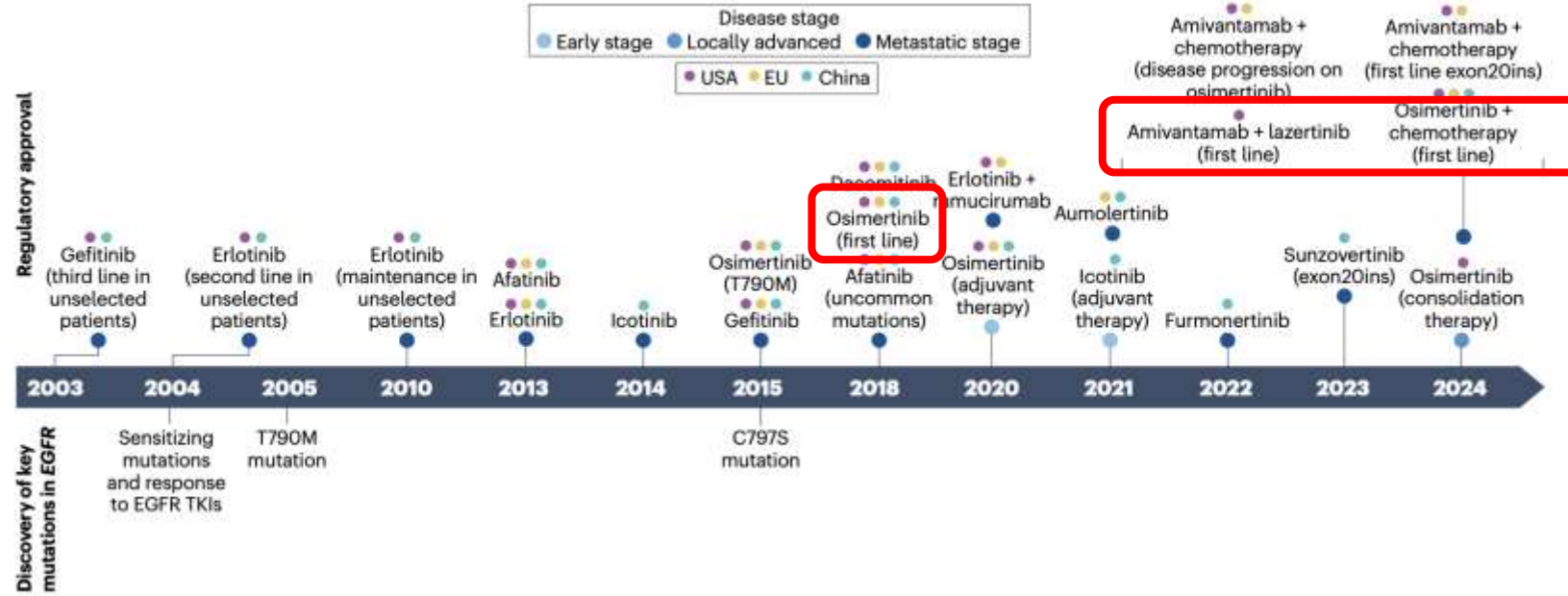
- ✓ **Honoraria**
 - ✓ MSD Oncology, Pfizer, Astellas Pharma, Roche, Novartis, Janssen-Cilag, Bristol-Myers Squibb, Astra Zeneca

- ✓ **Consulting of Advisory Role**
 - ✓ Janssen-Cilag, MSD Oncology, Bristol-Myers Squibb, Boehringer Ingelheim, Beigene

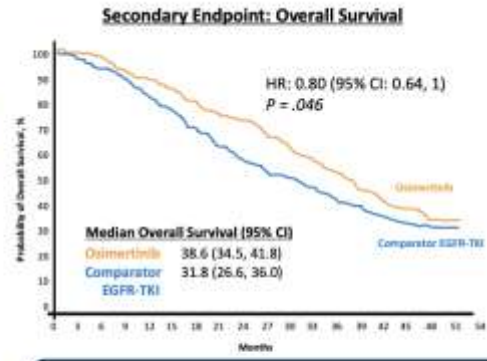
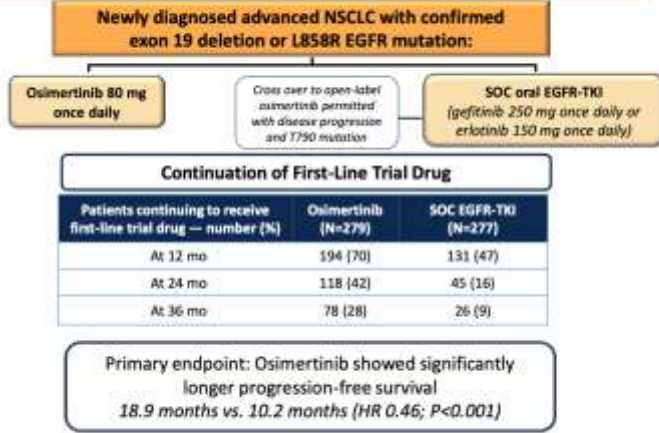
- ✓ **Speaker 's Bureau**
 - ✓ MSD Oncology, Astra Zeneca

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

- ✓ **Travel, Accomodations, Expenses**
 - ✓ Bristol-Myers Squibb, Janssen-Cilag, Takeda, Pfizer, MSD Oncology, Roche, Merck

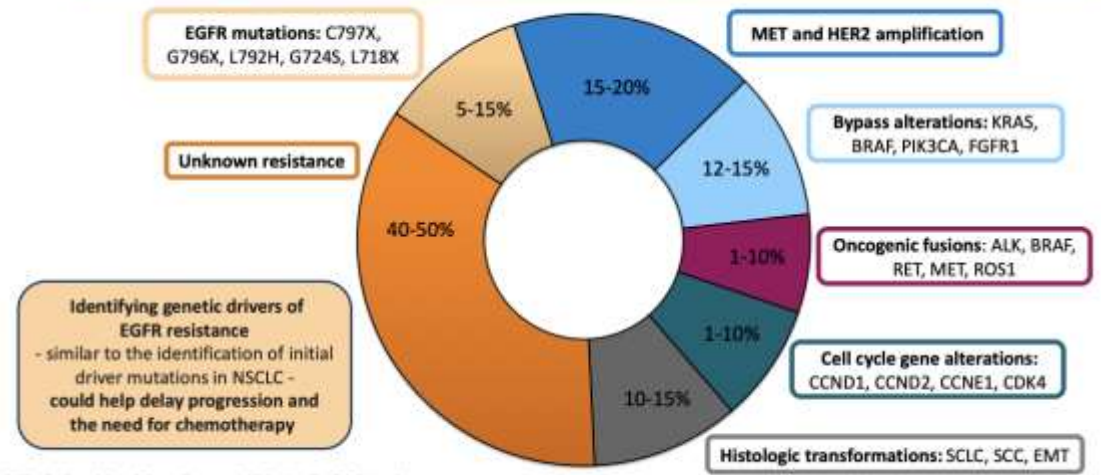


Phase III, double-blind, randomized trial in previously untreated EGFR+ advanced NSCLC: osimertinib vs standard of care (SOC) EGFR-TKI



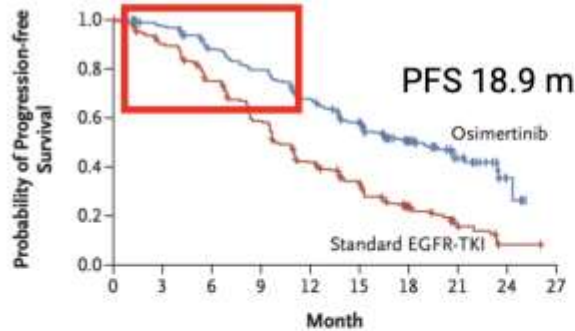
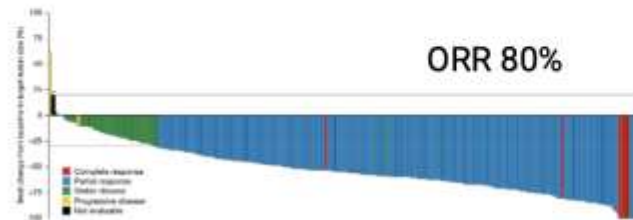
Osimertinib is recommended as first-line therapy in advanced/metastatic NSCLC with EGFR Exon 19 Deletion or Exon 21 L858R Mutations (category 1, preferred); NCCN

Mechanisms of Resistance to First-Line Osimertinib Treatment



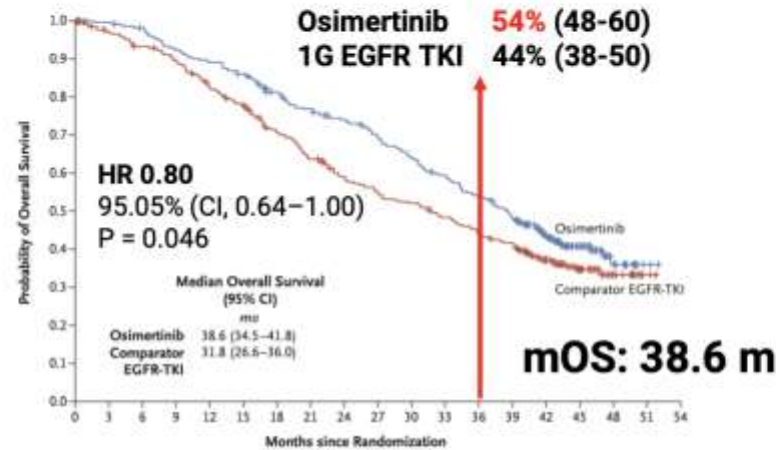
Why the need for upfront combinations?

Early progressors



No. at Risk	0	3	6	9	12	15	18	21	24	27
Osimertinib	279	262	233	210	178	139	71	26	4	0
Standard EGFR-TKI	277	239	197	152	107	78	37	10	2	0

Current SoC: Osimertinib



No. at Risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54
Osimertinib	279	276	270	254	245	236	217	204	193	180	166	153	138	123	86	50	17	2	0
Comparator EGFR-TKI	277	263	252	239	219	205	182	165	148	138	131	121	110	101	72	40	17	2	0

Patient's continuing to receive 1L drug (%)

	Osimertinib	1G TKI
12 m	70%	47%
24 m	42%	16%
36 m	28%	9%

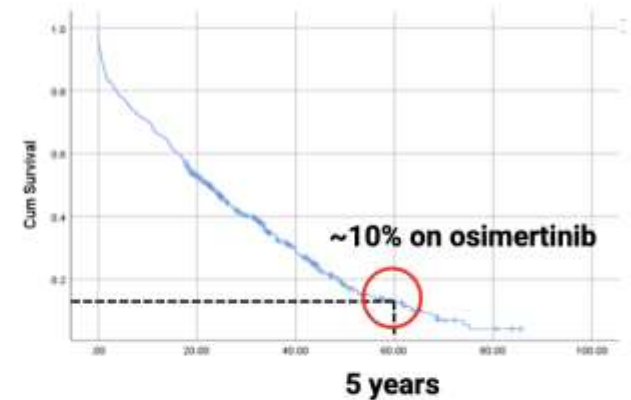
Few long term responders

FLAURA

12.9% remain on osi > 4.5 yrs

NCCS data

n=506, Stage IV, 2018-2023



Dr Tan Wei Chong, NCCS Data Science Core

Strategies to improve first-line treatment (Phase III trials)

- **Antiangiogenics + TKI**

- NEJ026 Erlotinib + Bevacizumab vs Erlotinib
- ARTEMIS Erlotinib + Bevacizumab vs Erlotinib
- RELAY Erlotinib + Ramucirumab vs. Erlotinib
- BEVERLY Erlotinib + Bevacizumab vs Erlotinib
- RAMOSE Osimertinib + Ramucirumab vs Osimertinib

Negative Results

↑ PFS (phase II trial)

- **Chemotherapy + TKI**

- FLAURA 2 Osimertinib + CHT vs. Osimertinib

- **Bispecific Ab + TKI**

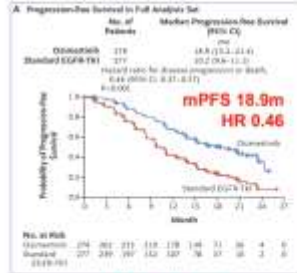
- MARIPOSA Amivantamab + Lazertinib vs. Osimertinib

Positive Results

EGFR MUTATIONS (EX19DEL, L858R): BREAKING THE ESTABLISHED COMFORT ZONE

The familiar standard:

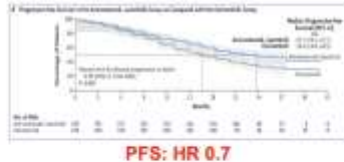
Osimertinib
vs. 1st gen. EGFR-TKI (FLAURA)



mOS: 38.6m

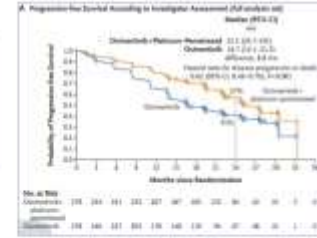
The challengers:

Lazertinib + amivantamab
vs. osimertinib (MARIPOSA)



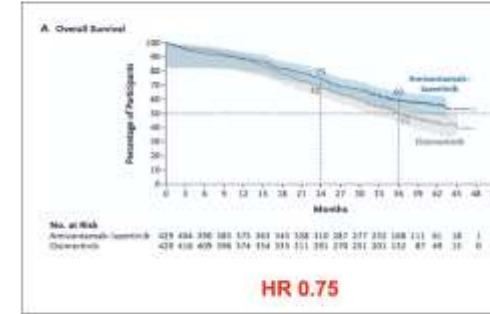
> Both combinations clearly superior in PFS (primary endpoint)

Osimertinib + chemotherapy
vs. osimertinib (FLAURA2)



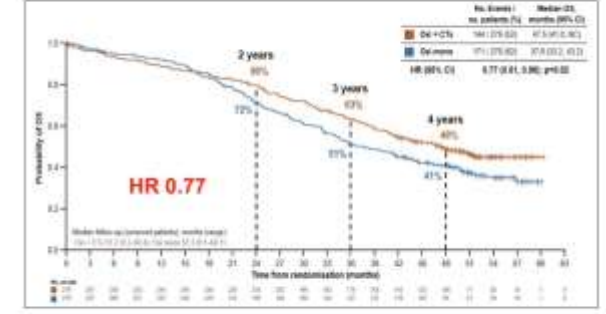
PFS BENEFIT TRANSLATES INTO OS ADVANTAGE

MARIPOSA



mOS Amivantamab – Lazertinib: NR (95% CI, 42.9-NE)
Osimertinib: 36.7 (95% CI, 33.4-41.0)

FLAURA2



mOS Osimertinib + CTx: 47.5 (95% CI, 41.0-NR)
Osimertinib mono: 37.6 (95% CI, 33.2-43.2)

What is the tradeoff with upfront combination treatment?

IMPROVED EFFICACY COMES AT THE COST OF HIGHER TOXICITY

	Osimertinib + chemotherapy	Osimertinib	Lazertinib + Amivantamab	Osimertinib
SAEs	38%	19%	49%	33%
Grade ≥ 3 tox.	64%	27%	75%	43%
Interruption of trial drug	Osimertinib: 11%	Osimertinib: 6%	35%	14%

Most prominent toxicities in FLAURA-2 chemotherapy-associated:

- Anemia: 46% vs. 8%
- Diarrhoea: 43% vs. 41%
- Nausea: 43% vs. 10%

Most prominent toxicities in MARIPOSA amivantamab-associated:

- Paronychia: 68% vs. 28%
- Infusion-related reaction: 63% vs. 0%
- Rash: 62% vs. 31%
- Pulmonary embolism: 17% vs. 5%

COCOON
PALOMA 3
VTE PROPHYLAXIS

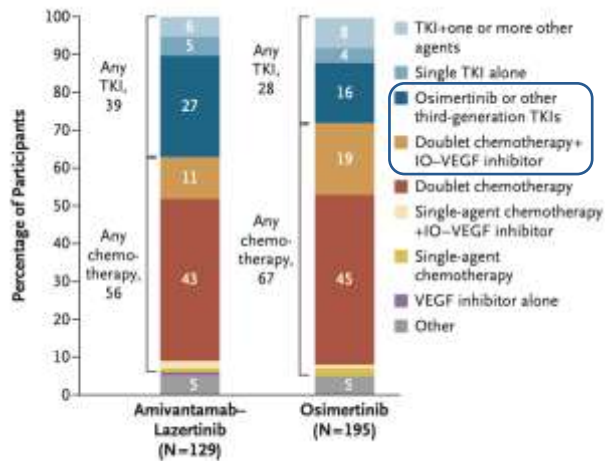
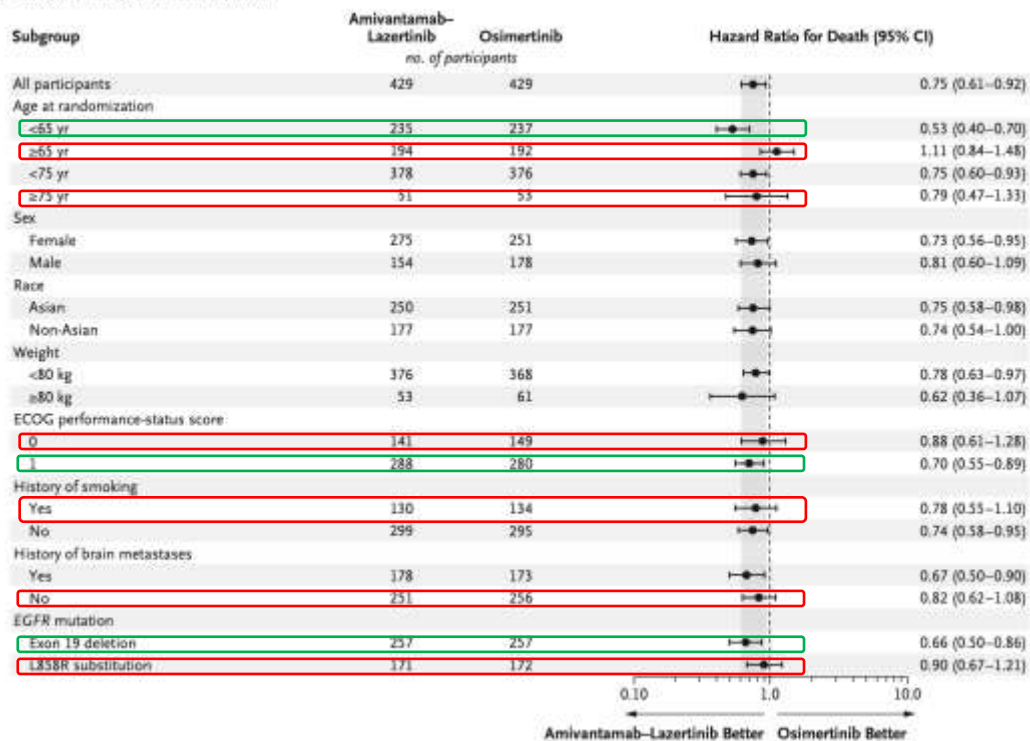
Toxicity management improved by prophylactic skin care, s.c. formulation, anticoagulation

> Are there subgroups that could be spared from toxicity ?

	Osimertinib	Osimertinib-Pemetrexed-carboplatin	Amivantamab-Lazertinib
Study	FLAURA	FLAURA2	MARIPOSA
Efficacy	PFS 18.9 m OS 38.6 m v 31.8 m	PFS 25.5 m OS 47.5 m v 37.6 m (HR 0.77)	PFS 23.7 m OS Not reached v 36.7 m (HR 0.75)
Side effects (all grades)	Diarrhoea 42% Rash 22% Paronychia 27% Neutropenia 4% Neutrophil count decreased 7% Anaemia 11%	Diarrhoea 46% Rash 30% Paronychia 26% Neutropenia 25% Neutrophil count decreased 24% Anaemia 48% (G3 20%) Creatinine increase 14%	Diarrhoea 32% Rash 64% Paronychia 69% Infusion related reaction 65% Peripheric edema 38% Venous thromboembolism 40% Anaemia 27%
Supportive care	Emollient cream, steroid creams	Emollient cream, steroid creams Cytopenias/ mouthwashes	Emollient cream, steroid creams Prophylactic antibiotics, anticoagulation
Schedule	Daily oral tablet Visit every 2-3 months	Daily oral tablet, Iv infusion once every 3 weeks	Daily oral tablet, Infusion/ subcut once per week for first 4 weeks; once every 2 weeks thereafter
Financial	\$	\$\$	\$\$\$\$

MARIPOSA

B Subgroup Analysis of Overall Survival



Subgrupos	MARIPOSA	FLAURA 2
ECOG 0	0.79 (95% CI 0.68–1.12)	0.79 (95% CI 0.64–1.18)
ECOG 1	0.66 (95% CI 0.52–0.82)	0.53 (95% CI 0.39–0.72)
Age <65 yr	0.50 (95% CI 0.38–0.65)	0.59 (95% CI 0.44–0.80)
Age ≥65 yr	1.86 (95% CI 0.8–1.81)	0.66 (95% CI 0.47–0.98)
Non-smoker	0.67 (95% CI 0.53–0.84)	0.61 (95% CI 0.40–0.82)
Smoker	0.78 (95% CI 0.66–1.08)	0.63 (95% CI 0.42–0.94)
Asian	0.67 (95% CI 0.52–0.88)	0.76 (95% CI 0.53–1.09)
Non-Asian	0.75 (95% CI 0.56–0.99)	0.55 (95% CI 0.37–0.81)
Exon 19 del	0.63 (95% CI 0.51–0.85)	0.60 (95% CI 0.44–0.82)
Exon 21 L858R	0.78 (95% CI 0.58–1.02)	0.63 (95% CI 0.44–0.90)
CNS mets+	0.66 (95% CI 0.53–0.82)	0.47 (95% CI 0.33–0.66)
CNS mets-	0.66 (95% CI 0.53–0.89)	0.78 (95% CI 0.55–1.03)
cDNA+	0.66 (95% CI 0.53–0.86)	0.60 (95% CI 0.45–0.81)
cDNA-	0.72 (95% CI 0.47–1.10)	0.93 (95% CI 0.61–1.71)
PS3met	0.63 (95% CI 0.48–0.81)	0.57 (95% CI 0.37–1.02)
PS3wt	0.78 (95% CI 0.62–1.07)	NA
Low mets+	0.58 (95% CI 0.37–0.91)	0.66 (95% CI 0.41–1.07)
Low mets-	0.74 (95% CI 0.60–0.91)	0.63 (95% CI 0.46–0.83)

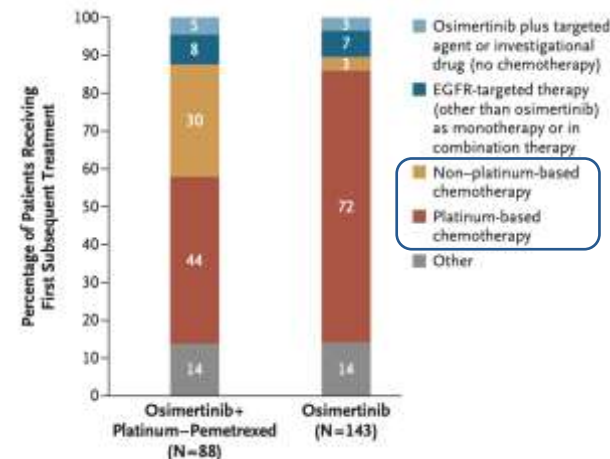
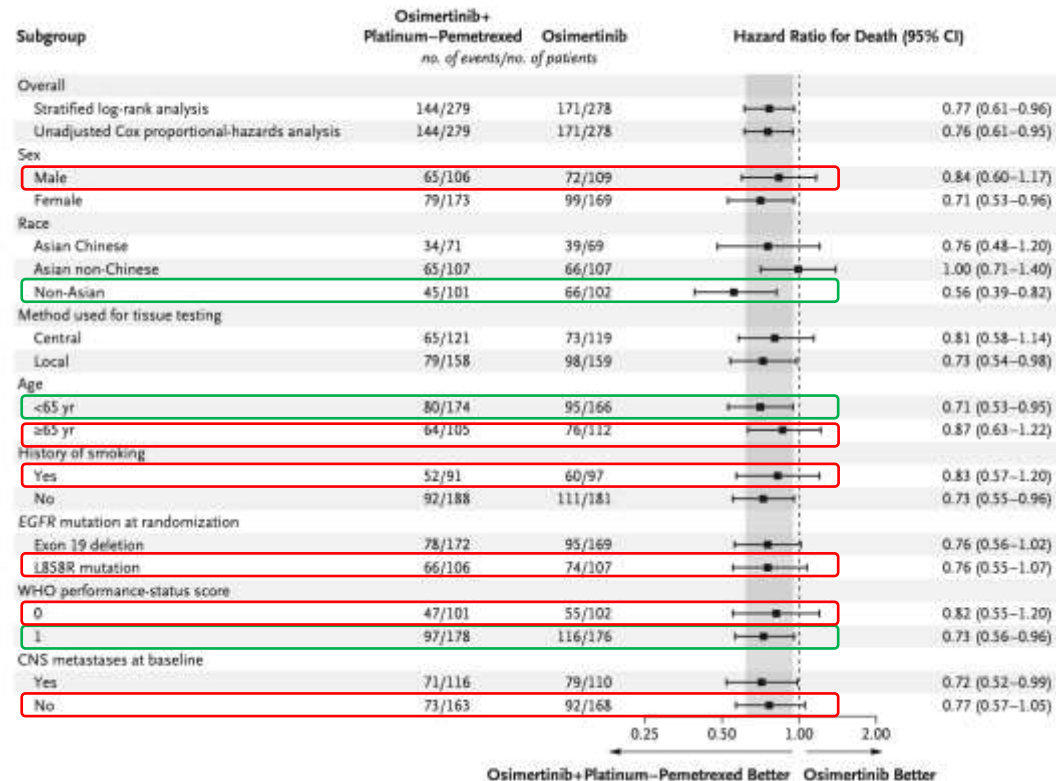
ITT	MARIPOSA	FLAURA 2
FFS	0.79 (95% CI 0.56–0.85)	0.62 (95% CI 0.49–0.79)
OS	0.77 (95% CI 0.61–0.96)	0.75 (95% CI 0.57–0.97)

"Low-risk patients": =30%

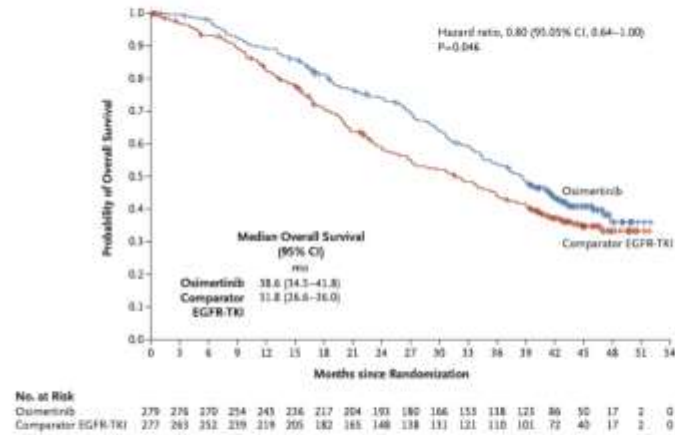
	MARIPOSA	FLAURA 2
ECOG 0	35%	37%
Age <65 yr	48%	38%
CNS mets-	68%	60%
cDNA-	15%	21%

- Población significativa de pacientes donde los combos no son superiores a Osimertinib solo
- Aun así, son análisis de subgrupos univariante, uso de alta nominal y solo generadores de hipótesis

FLAURA 2

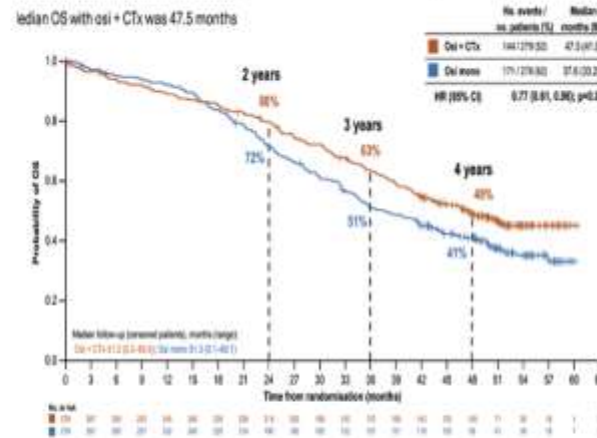


Osimertinib (FLAURA)



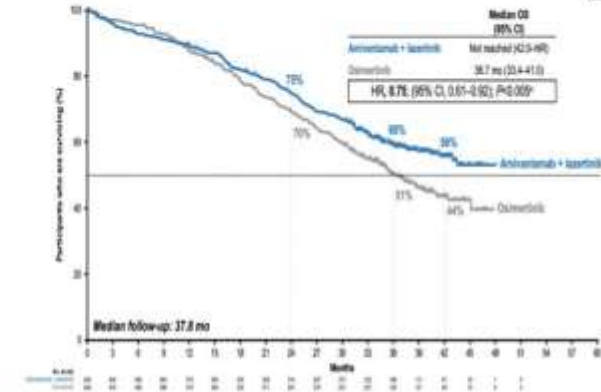
OS: 38.6 v 31.8 months
HR 0.8 (0.64 – 1.00) p=0.046

Osimertinib-pemetrexed-plt (FLAURA-2)



OS: 47.5 v 37.6 months
HR 0.77 (0.61-0.96) p=0.02

Lazertinib + Amivantamab (MARIPOSA)



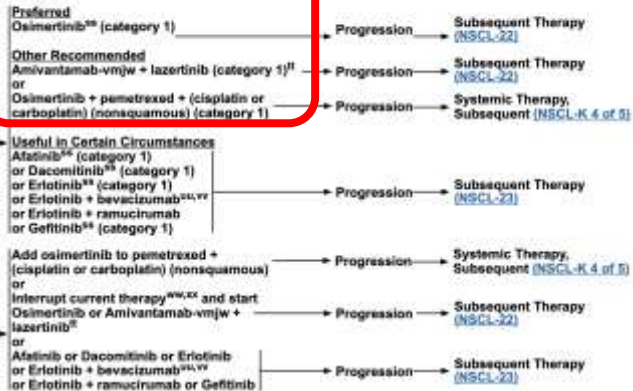
OS: Not reached v 36.7 months
HR 0.75 (0.61 – 0.92) p<0.005

Questions

1. Is there still a role for single agent osimertinib?
2. If we opt for combinations: Who should receive it? When is the best time? Which combination?
3. How do we move forward from here?

EGFR EXON 19 DELETION OR EXON 21 L858R MUTATIONS^{18*}

FIRST-LINE THERAPY^{18*}



See Evidence Blocks on EB-5.

¹⁸ Principles of Molecular and Biomarker Analysis (NSCL-11).
^{18a} Molecular or Biomarker-Selected Therapy for Advanced or Metastatic Disease (NSCL-11).
^{18b} For performance status (PS) 0-1.
^{18c} Prophylactic anticoagulation is recommended at the time of initiation to prevent venous thromboembolic events.
^{18d} Criteria for treatment with bevacizumab: nonsquamous NSCLC, and no recent history of hemoptysis.
^{18e} An FDA-approved biosimilar is an appropriate substitute for bevacizumab.
^{18f} If systemic therapy regimen contains an immune checkpoint inhibitor, physicians should be aware of the long half-life of such drugs and data reporting adverse events when using osimertinib in combination with or following checkpoint inhibitors. The rate of side effects (pneumonitis) is higher within 3 months. Schoenfeld AJ, et al. Ann Oncol 2019;30:839-844; Osima Y, et al. JAMA Oncol 2018;4:1112-1115; Qianqun GR, et al. Ann Oncol 2020;31:507-516; Gattlinger S, et al. J Thorac Oncol 2018;13:1363-1372.
^{18g} If there is a good response to current therapy, it is reasonable to continue therapy.

Note: For more information regarding the categories and definitions used for the NCCN Evidence Blocks™, see page EB-1. All recommendations are category 2A unless otherwise indicated.

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CLINICAL PRACTICE GUIDELINES

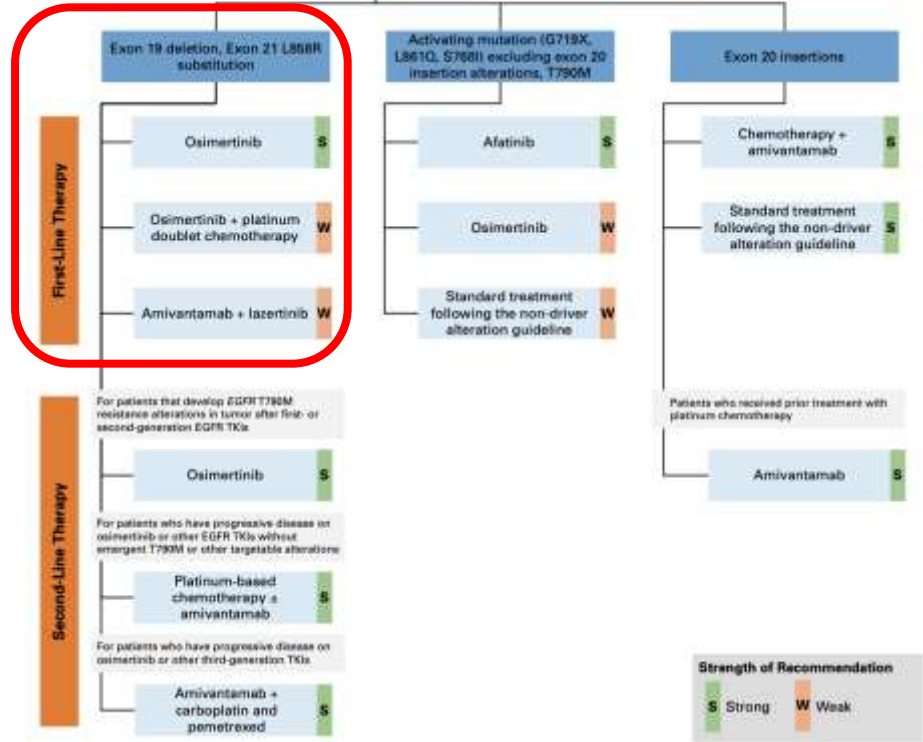
ESMO Chromatin-Associated Metastatic Non-Small-Cell Lung Cancer Living Guidelines v1.2 January 2025

First-line EGFR TKIs

EGFR exon 19 Deletion or exon 21 L858R [ESCAT: I-A]

Summary of recommendations	LoE, GoR
All patients with a sensitising EGFR mutation should receive first-line EGFR TKIs irrespective of clinical parameters including PS, gender, tobacco exposure and histology	I, A
Considering toxicity, cost increases with adding additional treatments and patient inconvenience, single-agent EGFR TKIs are still a standard first-line treatment	I, A
A third-generation EGFR TKI regimen is preferred for patients with a classical activating EGFR mutation (ex19del or ex21 L858R), either as monotherapy or combination therapy (osimertinib [ESMO-MCBS v1.1 score: 4]; osimertinib-pemetrexed-platinum [ESMO-MCBS v1.1 score: 3]; lazertinib-amivantamab-vmjw [ESMO-MCBS v1.1 score: 3]) • PFS data seem to show a benefit in patients with baseline central nervous system metastases treated with osimertinib-chemotherapy versus those treated with osimertinib	I, A
Afatinib [ESMO-MCBS v1.1 score: 5], erlotinib [ESMO-MCBS v1.1 score: 4], gefitinib [ESMO-MCBS v1.1 score: 4] and dacomitinib [ESMO-MCBS v1.1 score: 3] are other first-line single-agent treatment options	I, B
EGFR TKIs combined with anti-angiogenic therapy are additional first-line treatment options, including erlotinib-ramucicromab [ESMO-MCBS v1.1 score: 3] or erlotinib-bevacizumab [ESMO-MCBS v1.1 score: 2; EMA approved, not FDA approved]	I, B
Another first-line option is gefitinib-carboplatin-pemetrexed [FDA approved, not EMA approved]	I, B

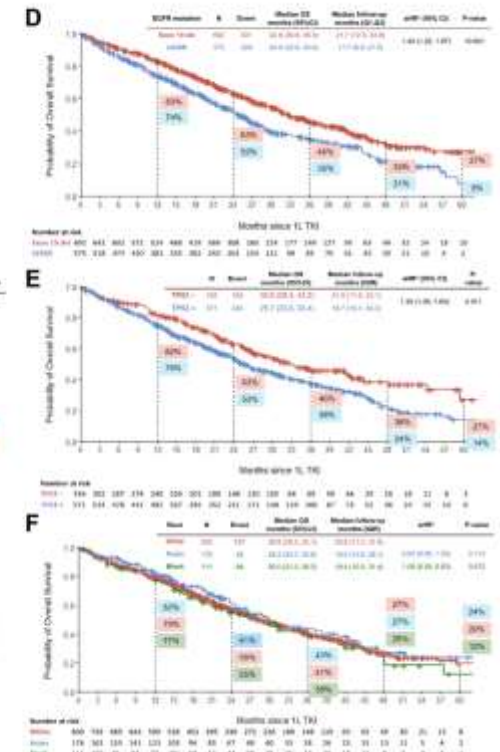
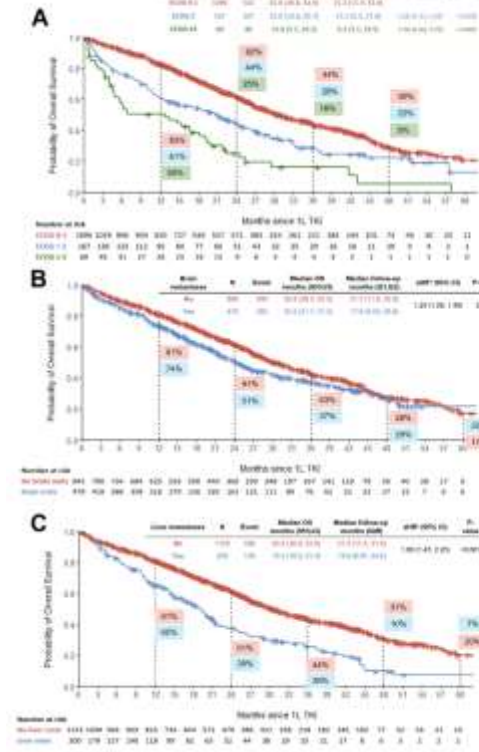
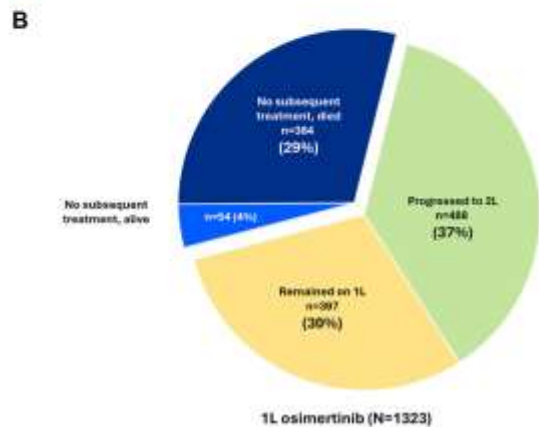
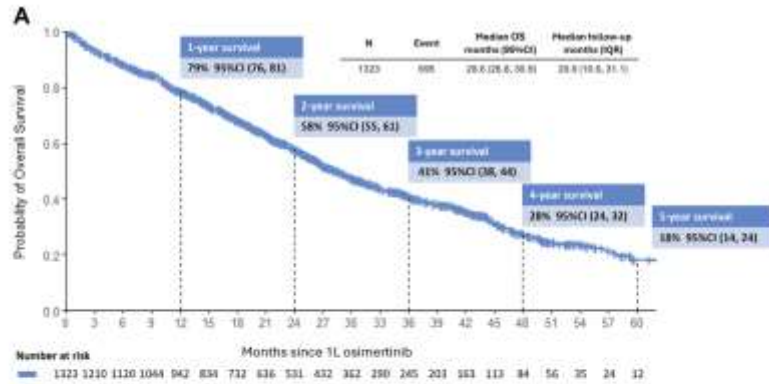
Guidelines



Strength of Recommendation
 S Strong W Weak

Overall Survival in EGFR-Mutant Advanced NSCLC Treated With First-Line Osimertinib: A Cohort Study Integrating Clinical and Biomarker Data in the United States

Joshua K. Sabari, MD,^a Helena A. Yu, MD,^b Parthiv J. Mahadevia, MD, MPH,^c Yanfang Liu, MD, MPH,^c Levon Demirdjian, PhD,^d Yen Hua Chen, MA, BBA,^c Xiayi Wang, PhD,^e Antonio Passaro, MD, PhD,^{f,*}



Risk Factors	Prevalence	aHR (95% CI)	p value
Age ≥ 65 y	66%	1.26 (1.07-1.50)	0.007
Brain metastases	36%	1.24 (1.05-1.45)	0.011
TP53 test positive	63%	1.30 (1.06-1.60)	0.011
EGFR L858R ^a	48%	1.43 (1.22-1.67)	<0.001
Liver metastases	15%	1.91 (1.57-2.32)	<0.001
ECOG PS ≥ 2	17%	1.78 (1.47-2.16)	<0.001

^aCompared with exon 19 deletions.

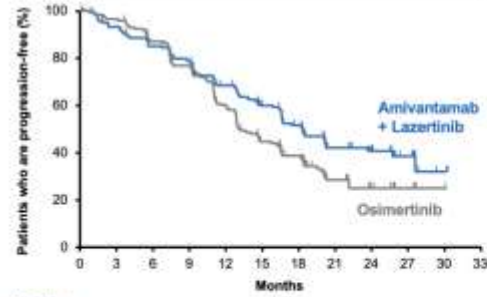
aHR, adjusted hazard ratio; CI, confidence interval; ECOG PS, Eastern Cooperative Oncology Group Performance Score.

BRAIN METATASIS

MARIPOSA

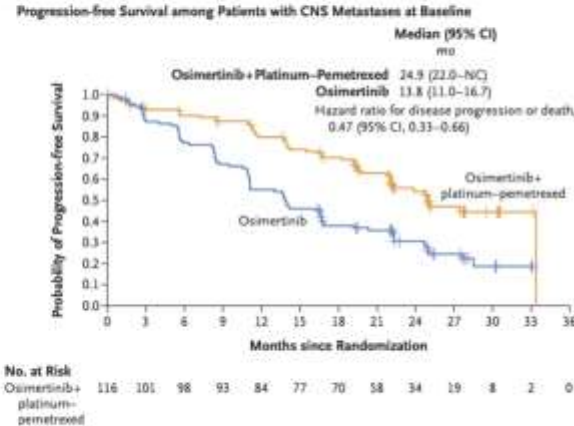
With History of Brain Metastases
Median PFS (95% CI)
 Amivantamab + Lazertinib 18.3 mo (16.6–23.7)
 Osimertinib 13.0 mo (12.2–16.4)

HR, 0.69 (95% CI, 0.53–0.92)

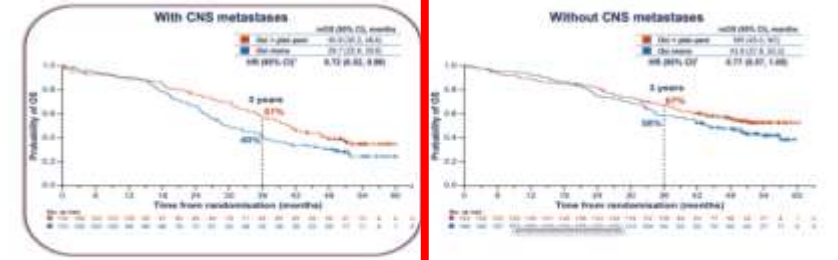


No. at risk	0	3	6	9	12	15	18	21	24	27	30	33
Amivantamab + Lazertinib	178	162	148	134	115	92	71	54	34	17	3	0
Osimertinib	172	164	148	126	95	64	47	21	11	6	1	0

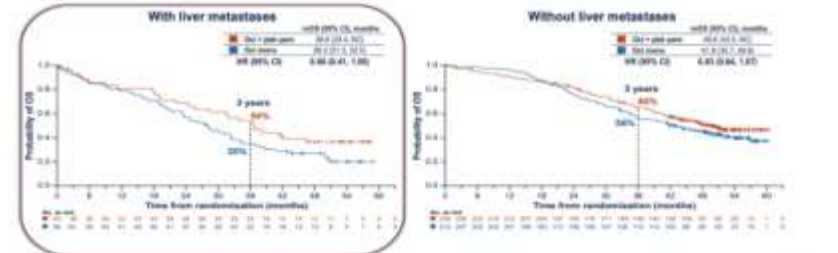
FLAURA 2



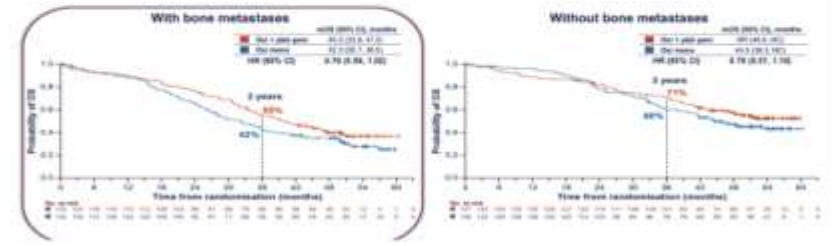
Poorer prognostic factor: CNS metastases at baseline



Poorer prognostic factor: liver metastases at baseline



Poorer prognostic factor: bone metastases at baseline



BONE AND VISCERAL METASTASIS

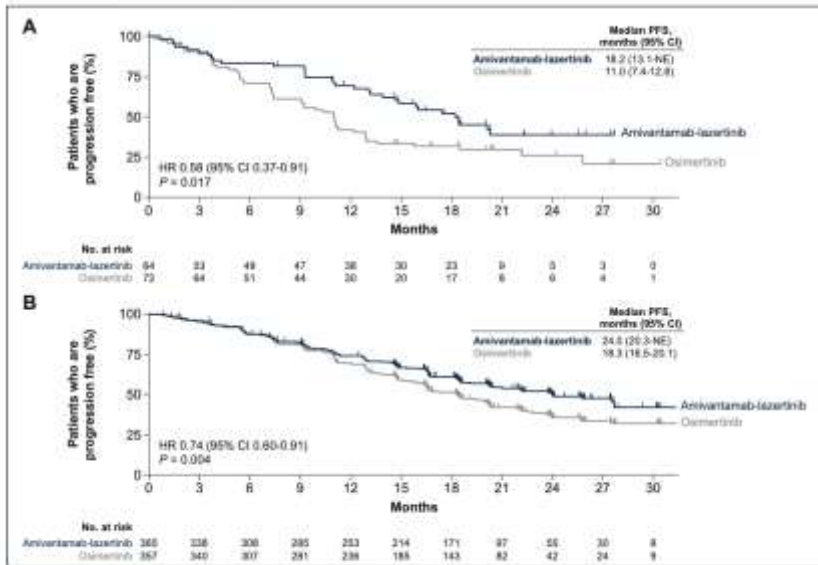
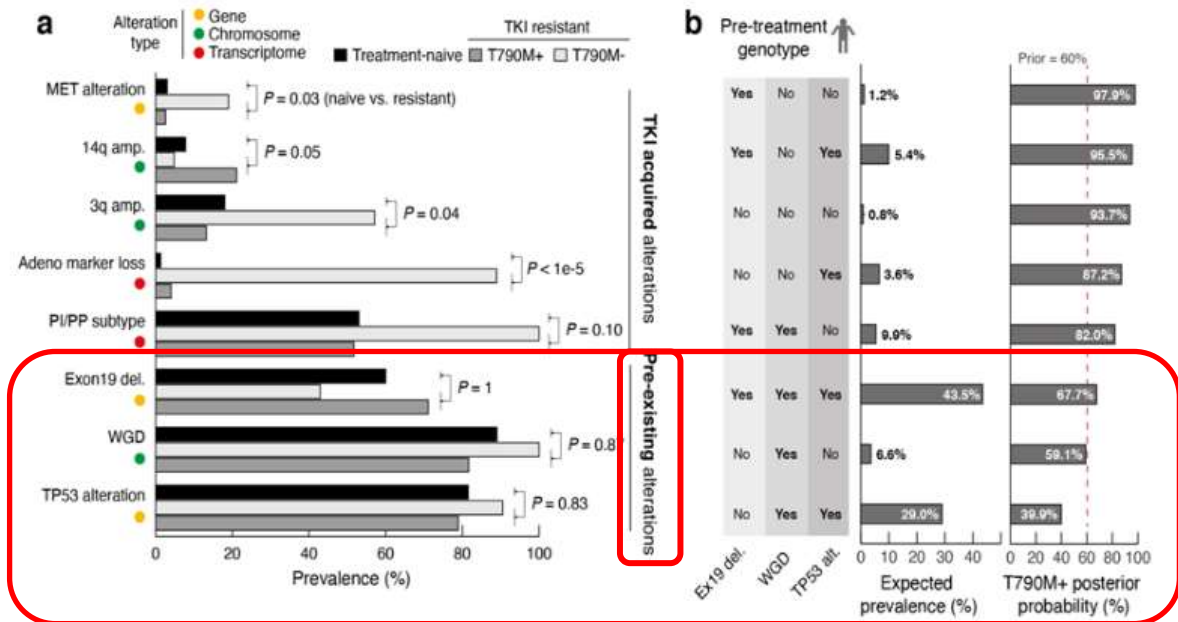
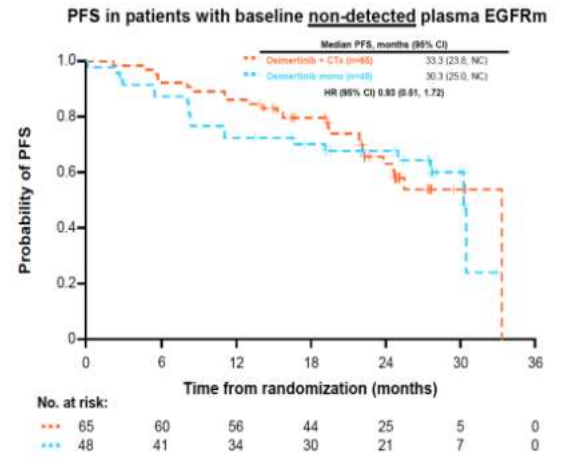
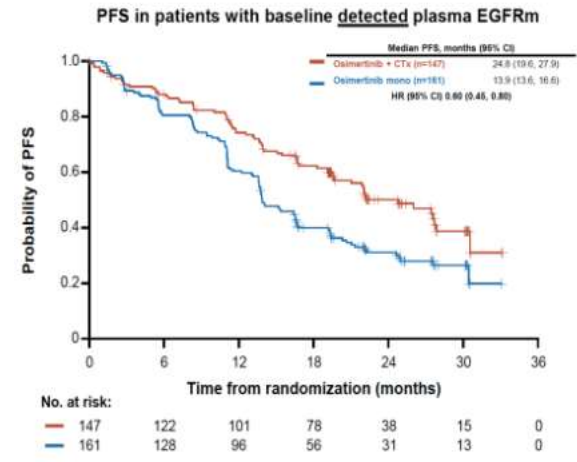


Figure 4. Progression-free survival for patients with and without baseline liver metastases. Shown are Kaplan-Meier estimates of progression-free survival for subgroups of patients with baseline liver metastases (A) and without baseline liver metastases (B). Tick marks indicate censoring of data. CI, confidence interval; HR, hazard ratio; PFS, progression-free survival.

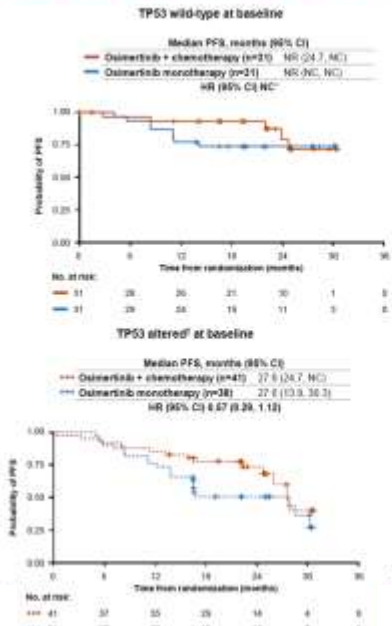
Baseline Molecular



ctDNA

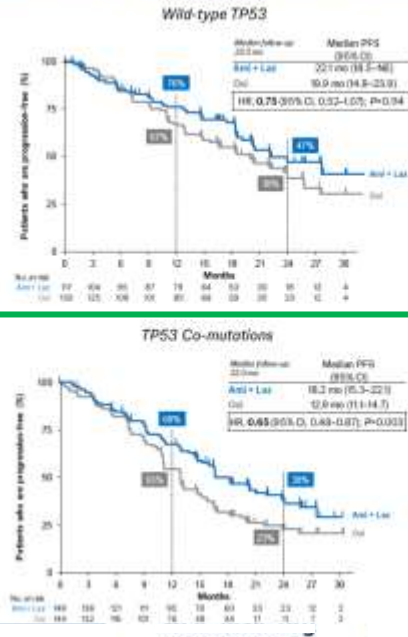


FLAURA2: Osimertinib ± Chemo



Yang JC, et al. WCLC 2024

MARIPOSA: Amivantamab + Lazertinib

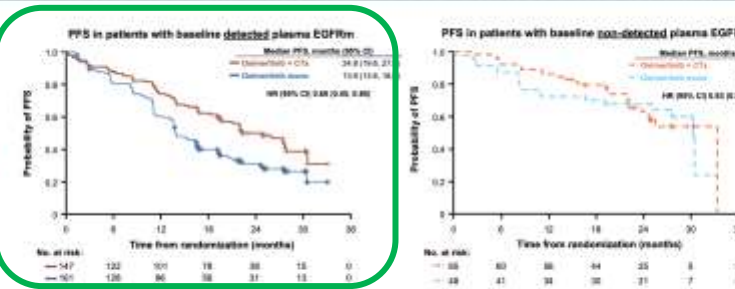


Felip E, et al. ASCO 2024

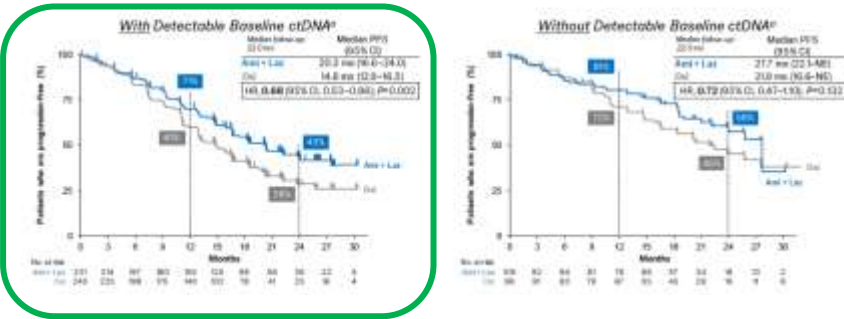
TP53 and PLASMA EGFRm

HIGH RISK PATIENTS BENEFIT MOST FROM COMBOS: baseline ctDNA+

FLAURA2: Osimertinib ± Chemo



Jänne PA, et al. AACR 2024



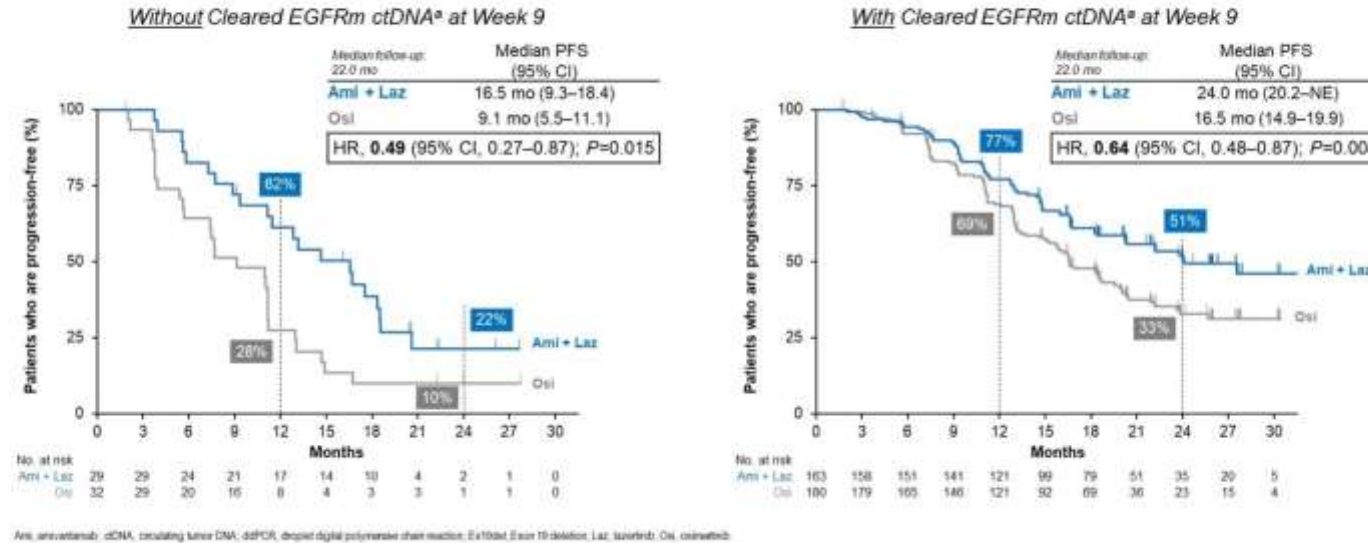
MARIPOSA: Amivantamab + Lazertinib

Felip E, et al. ASCO 2024

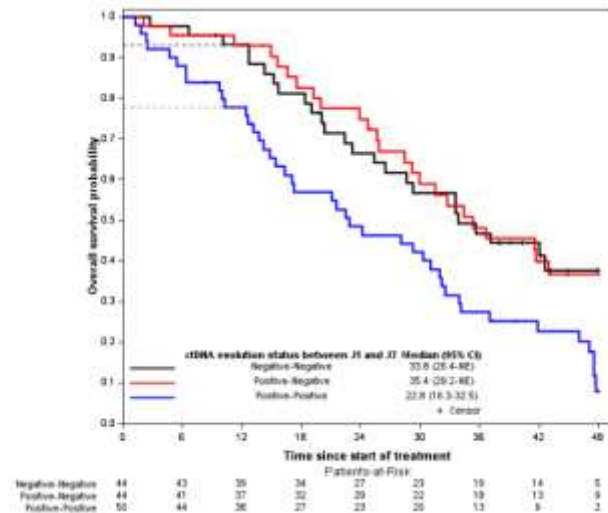
PFS without and with Cleared EGFRm ctDNA^a at Wk 9 (C3D1)

- Osimertinib showed a median PFS of 9.1 mo in patients without cleared EGFRm ctDNA^a at Week 9
- Amivantamab + lazertinib reduced the risk of progression or death by 51% in this subgroup

DYNAMIC ctDNA CLEARANCE



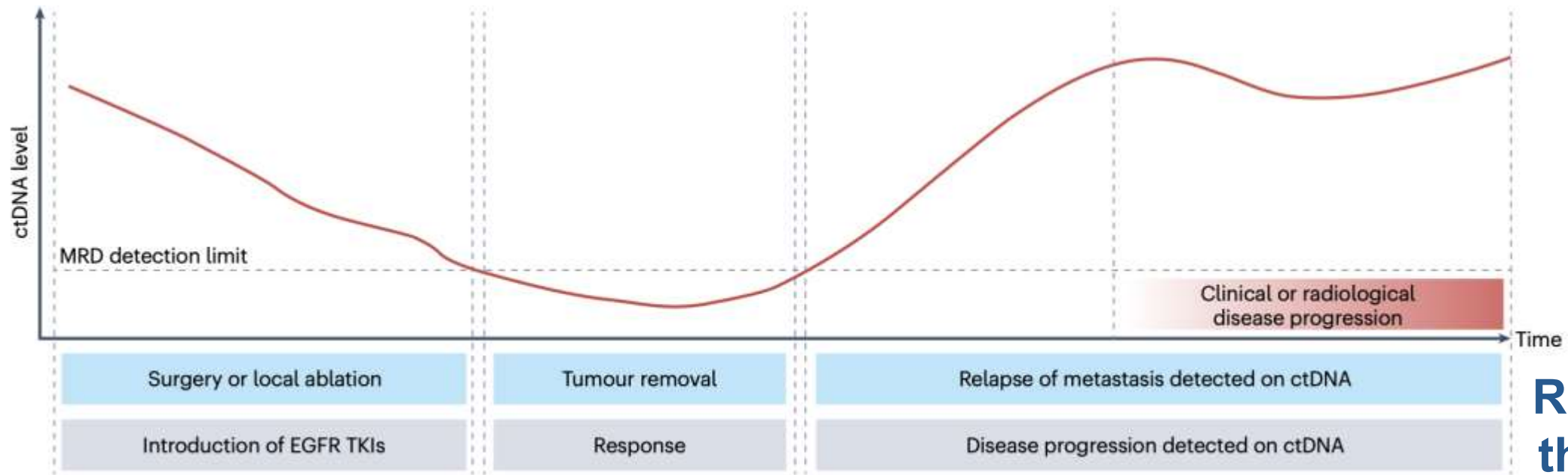
Felip E, et al. *JCO*. 2024;42:8504-8504.



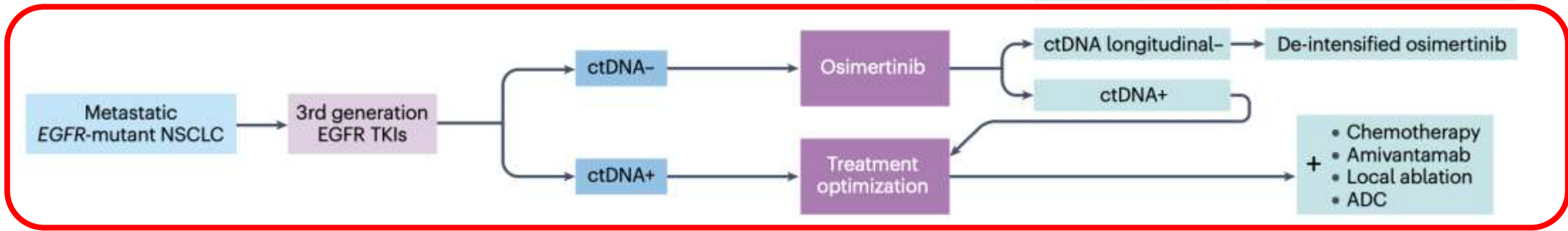
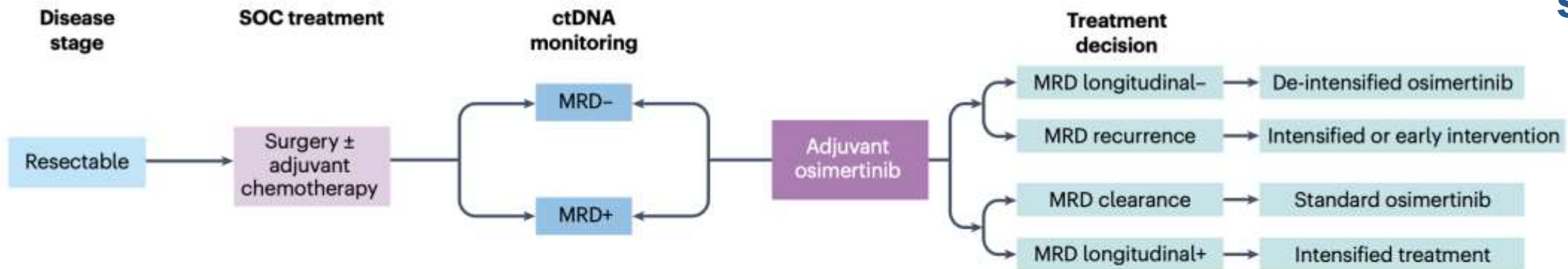
1957P : Day-7 ctDNA Response as a Prognostic Marker in EGFR-Mutant NonSmall Lung Cancer (NSCLC) under Osimertinib: The French Study MELROSE

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Relevance of the Dinamyc study of ctDNA





What Matters Most to Lung Cancer Patients? A Qualitative Study in Italy and Belgium to Investigate Patient Preferences

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Patients' attitudes and preferences toward delayed disease progression in the absence of improved survival

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Balancing benefits and risks in lung cancer therapies: patient preferences for lung cancer treatment alternatives

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Results: Patients highlighted themes reflecting: 1) positive effects or expected gains from treatment such as greater life expectancy and maintenance of daily functioning, 2) negative effects or adverse events related to therapy that negatively impact patients' daily functioning such as fatigue and 3) uncertainty regarding the duration and type of treatment effects. These overarching themes were consistent among patients from Belgium and Italy, suggesting that treatment aspects related to efficacy and safety as well as the psychological impact of lung cancer treatment are common areas of concern for patients, regardless of cultural background or country.

Abstract

Background: Cancer patients' attitudes toward progression-free survival (PFS) gains offered by treatment are not well understood, particularly in the absence of overall survival (OS) gains. The objectives were to describe patients' willingness to accept treatment that offers PFS gains without OS gains, to compare these findings with treatments offering OS gains, and to qualitatively summarize patients' reasons for their preferences.

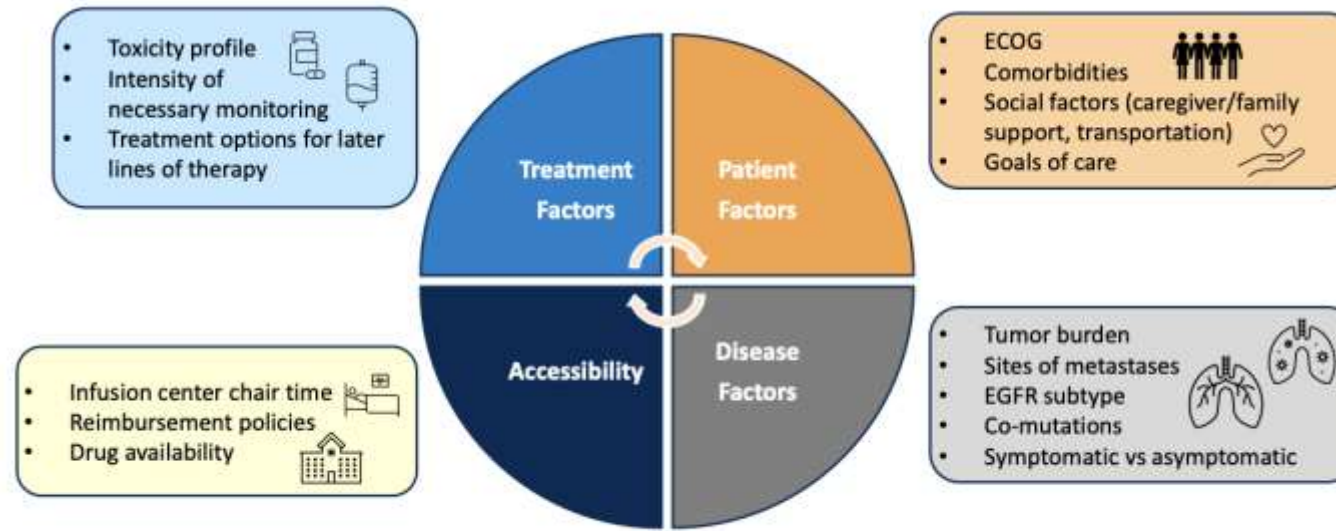
Methods: A multicenter, cross-sectional, convergent mixed-methods study design recruited patients who had received at least 3 months of systemic therapy for incurable solid tumors. A treatment trade-off exercise determined the gains in imaging PFS that patients require to prefer additional systemic treatment for a scenario of a newly diagnosed, asymptomatic, incurable abdominal tumor. A qualitative, descriptive, thematic analysis explored factors influencing patients' decisions, and a narrative method integrated the quantitative and qualitative findings.

Results: In total, 100 patients participated (63% were older than 60 years of age). If additional treatment with added toxicity offered no OS advantage, 17% would prefer it for no PFS benefit; 26% for some PFS benefit (range, 3-9 months), whereas 51% would decline it regardless of PFS benefit. Similarly, 71% preferred additional treatment offering a 6-month OS advantage dependent on described toxicity levels ($P = .03$). A spectrum of reasons for these preferences reflected the complexity of participants' attitudes and values.

Conclusions: Prolongation of time to progression was not universally valued. Most patients did not prefer treatments that negatively affect quality of life for PFS gains alone. Implications for individual decision making, policy, and trials research are discussed.

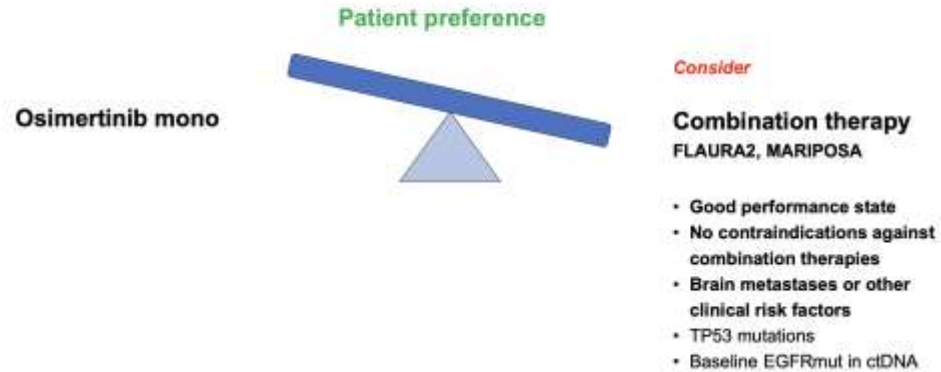
least 5 years from the diagnosis of cancer. Similarly, patients were willing to accept a switch in the mode of administration or complete loss of hair to obtain an increase in survival.

Conclusion: In this study, the proportion of respondents who systematically preferred survival over all other treatment attributes was particularly high. Age, objective health literacy and locus of control accounted for heterogeneity in patients' preferences. Evidence on how NSCLC patients trade between survival and other NSCLC attributes can support regulators and other stakeholders on assessing clinical trial evidence and protocols, based on patients' conditions and socio-demographic parameters.

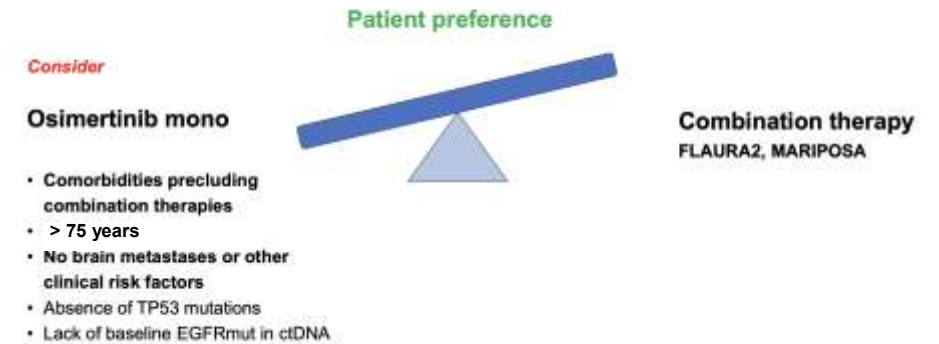


EGFR = Epidermal Growth Factor Receptor; ECOG = Eastern Cooperative Oncology Group
 Saw SP, et al. *Am Soc Clin Oncol Educ Book*. 2024;44:e432516.

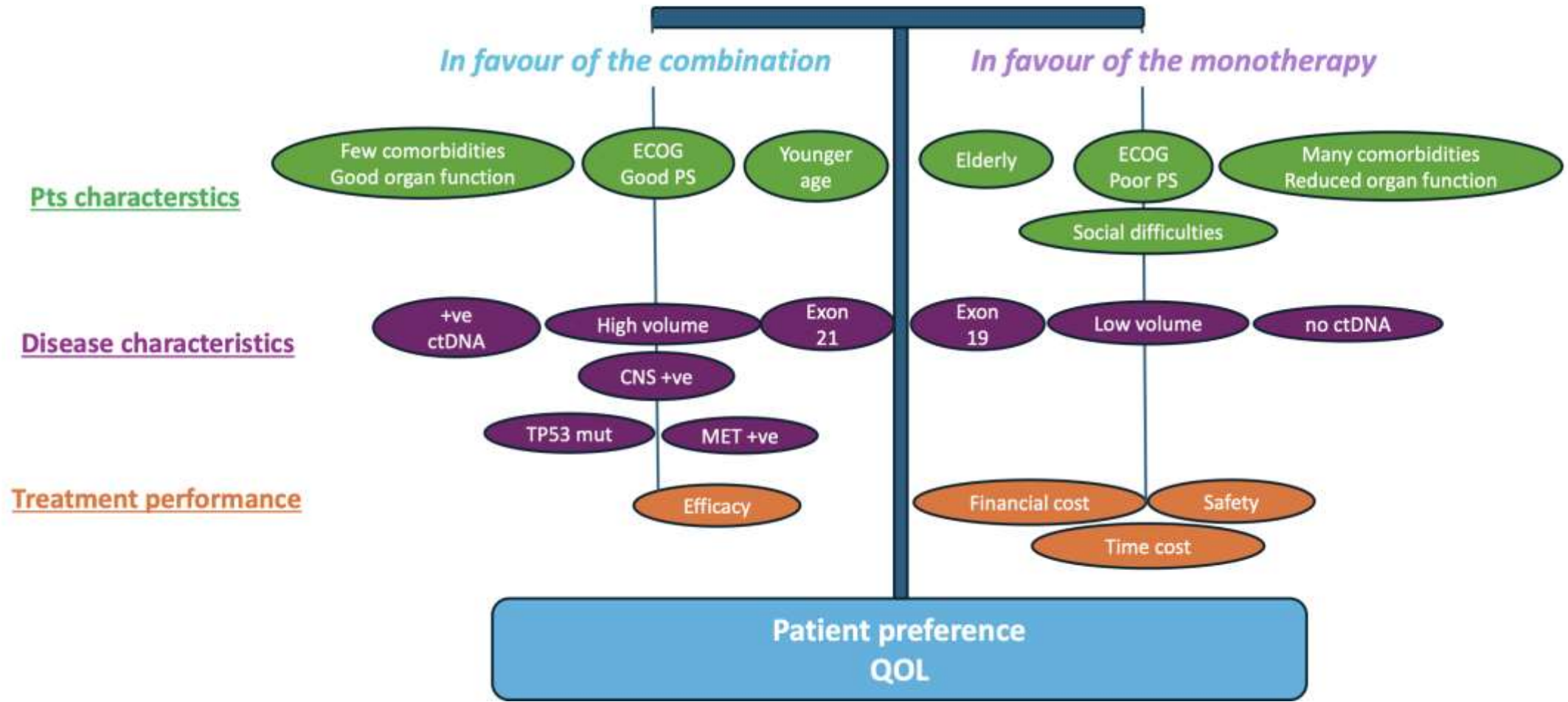
BALANCING EFFICACY, TOXICITY AND PATIENT FACTORS



BALANCING EFFICACY, TOXICITY AND PATIENT FACTORS



How to choose the best strategy?



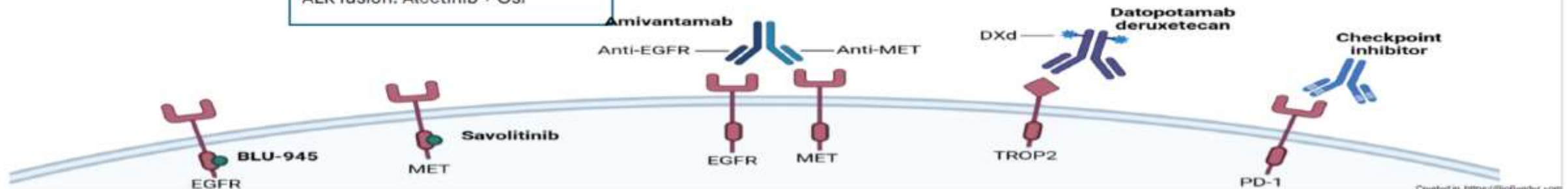
Testing for resistance mechanisms and assessing the possible therapeutic options available upon progression is critical to define an optimal management approach for patients

Genotype-matched strategies

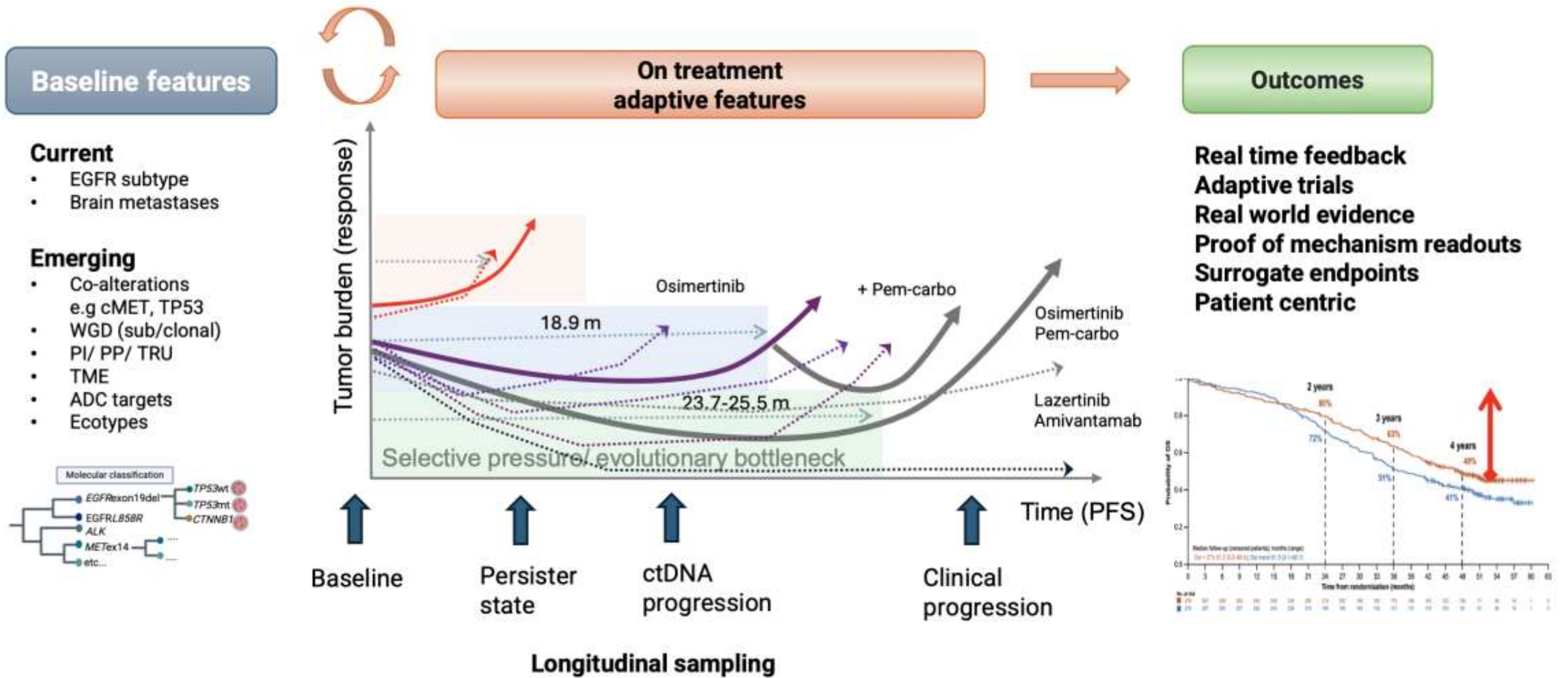
Mechanism-agnostic strategies

(non-genotype based)

On-target inhibition	Bypass pathway inhibition	On-target + bypass pathway inhibition	Targeting tumor-associated antigen	Targeting common escape routes
EGFR TKI/mAB	Resistance-matched agents	Biespecific mAB/ADC targeting EGFR + bypass pathway	ADCs	mAB
C797X mut: Gefitinib Gefitinib + Osi	cMET amp: Savolitinib + Osi Capmatinib + Osi Tepotinib + Osi cMET over-exp: Teliso V +/- Osi	Amivantamab (EGFR + cMET)	Datopotomab DXd (TROP2) Sacituzumab tirumotecan	Ivonescimab (PDL1 + VEGF) + Chemo
EGFR alt: Necitumumab + Osi 4G EGFR TKI	HER2 over-exp: TDM1 + Osi	Izalontamab brengitecan (EGFR + HER3)	Patritumab DXd (HER3)	Anti PD1/L1 + Antiangiogenic + Chemo
	RAS-MAPK act: Selumetinib + Osi			
	ALK fusion: Alectinib + Osi			



Navigating patients through tough decisions



FINAL COMMENTS

- Therapeutic combinations for advanced EGFR-mutated NSCLC have shown superior scientific evidence over osimertinib monotherapy, impacting PFS and OS.
- The increased adverse effects with combinations should also be considered.
- Osimertinib monotherapy still has a role in a broad group of patients characterized by:
 - Older age
 - Poorer functional status
 - More comorbidities
 - Absence of p53 and MET amplification
 - No detectable basal ctDNA
 - Low tumor volume
 - Social and geographical difficulties
- In addition to economic considerations, we must never forget safety, continuous hospital visits, and consulting patients about their preferences (CLINICAL BENEFIT vs SCIENTIFIC EVIDENCE)
- In the future, we believe that the determination of biomarkers and dynamic ctDNA will allow for better therapeutic selection.

TAKE HOME MESSAGES

- Initiation of therapeutic combinations in frontline setting improves PFS and overall survival in EGFR mutated NSCLC
 - Osi + Chemo: Median OS: 47,5 m vs. 37,6 m [HR: 0,77 (0,61-0,96) p= 0,02]
 - Amivantamab + Lazertinib: Median OS: NE vs. 36,7m [HR: 0,75 (0,61-0,92) p= 0,005]
- Osimertinib monotherapy still has its role in a large group of patients
- Real-world studies are needed to assess the beneficial effect of the combinations in these clinical trials
- Predictive biomarker for this combination treatment will be important
- The patterns of resistance that develop after each régime may further refine our clinical decision making and treatment sequencing
- First-line treatment selection can be tailored according to clinical characteristics and shared decision making

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CONGRESS
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THANK YOU

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