

IMMUNOCHECKPOINT INHIBITORS AND TARGETED THERAPIES

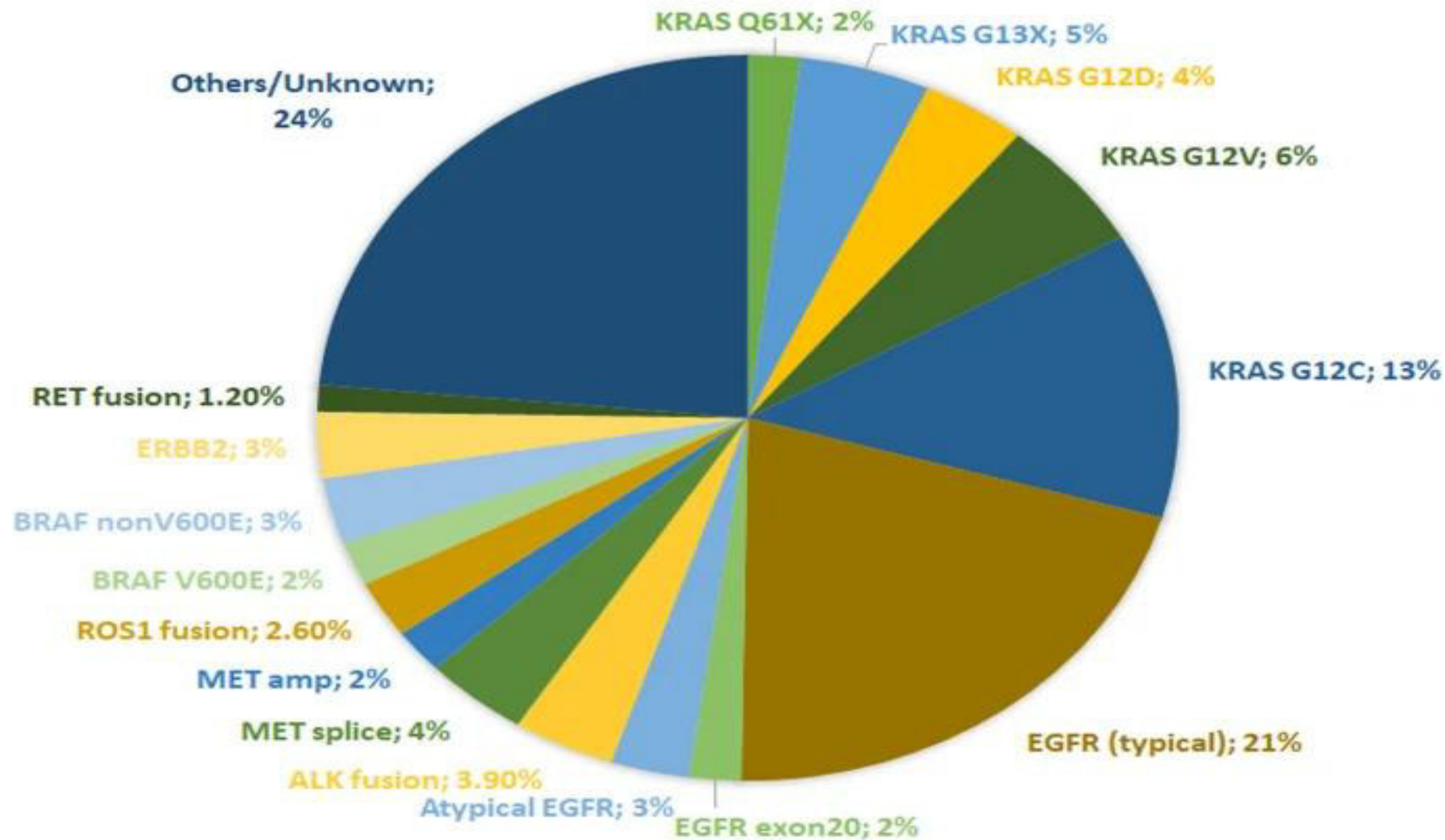
 **Mariantonietta Di Salvatore**

 **Mariantonietta.disalvatore@policlinicogemelli.it**

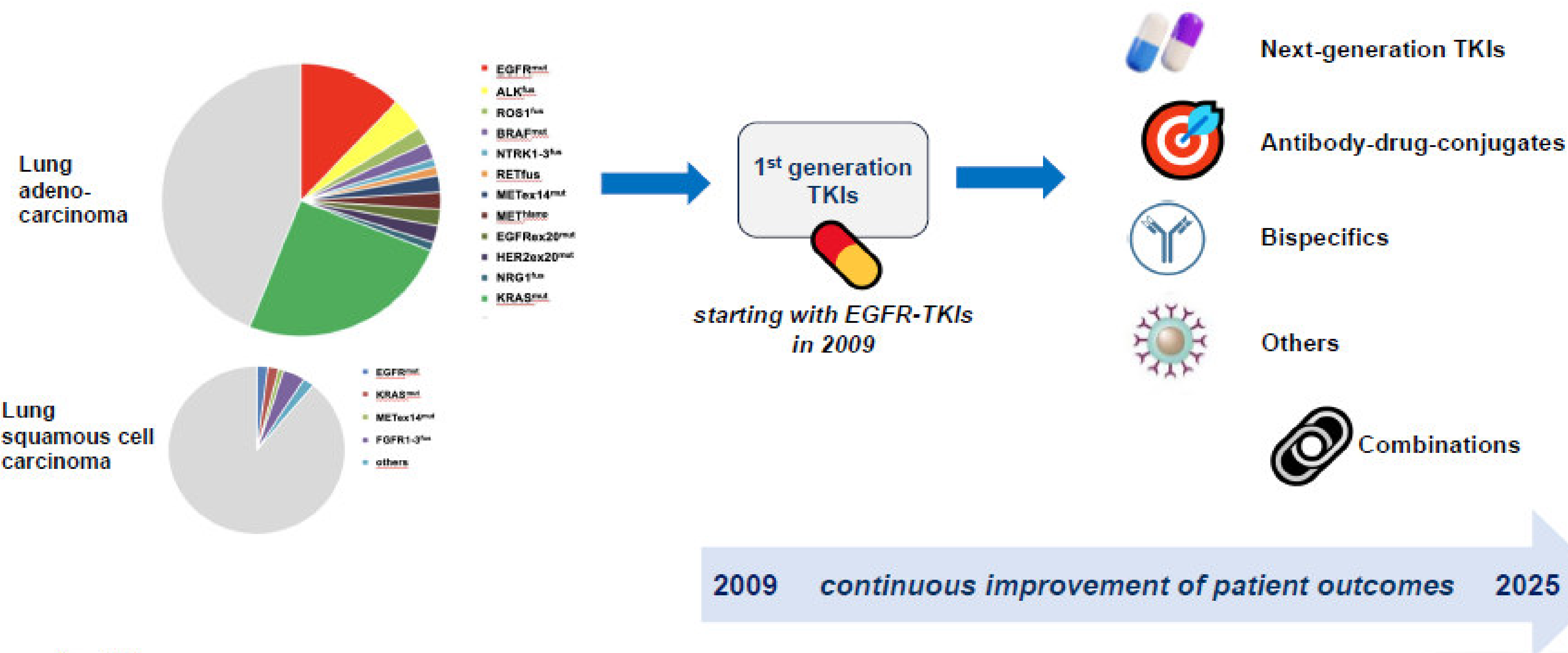
 **Rome, Italy, October 27 2025**



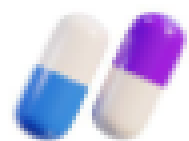
INCIDENCE OF ONCOGENIC DRIVER ALTERATIONS



ONCOGENES PLATEAU – THERAPIES EXPAND IN NSCLC



EXPANDING THE ARMAMENTARIUM BEYOND TKIS



- **Next-generation TKIs**
→ deeper, more durable responses (e.g., lorlatinib, repotrectinib, zidesmatinib)



- **Antibody–drug conjugates (ADCs)**
→ *trastuzumab deruxtecan* (approved) – new agents in development targeting TROP2, MET and others



- **Bispecific antibodies**
→ *amivantamab* (EGFR/MET; approved), *ivonescimab* (PD-1/VEGF) – early promising results and others



- **Novel mechanisms**
→ MET degraders, PROTACS, SHP2 and SOS1 inhibitors, pan-KRAS inhibitors and others



- **Cell-based and immune approaches**
→ T-cell vaccines, CAR-T concepts in early testing

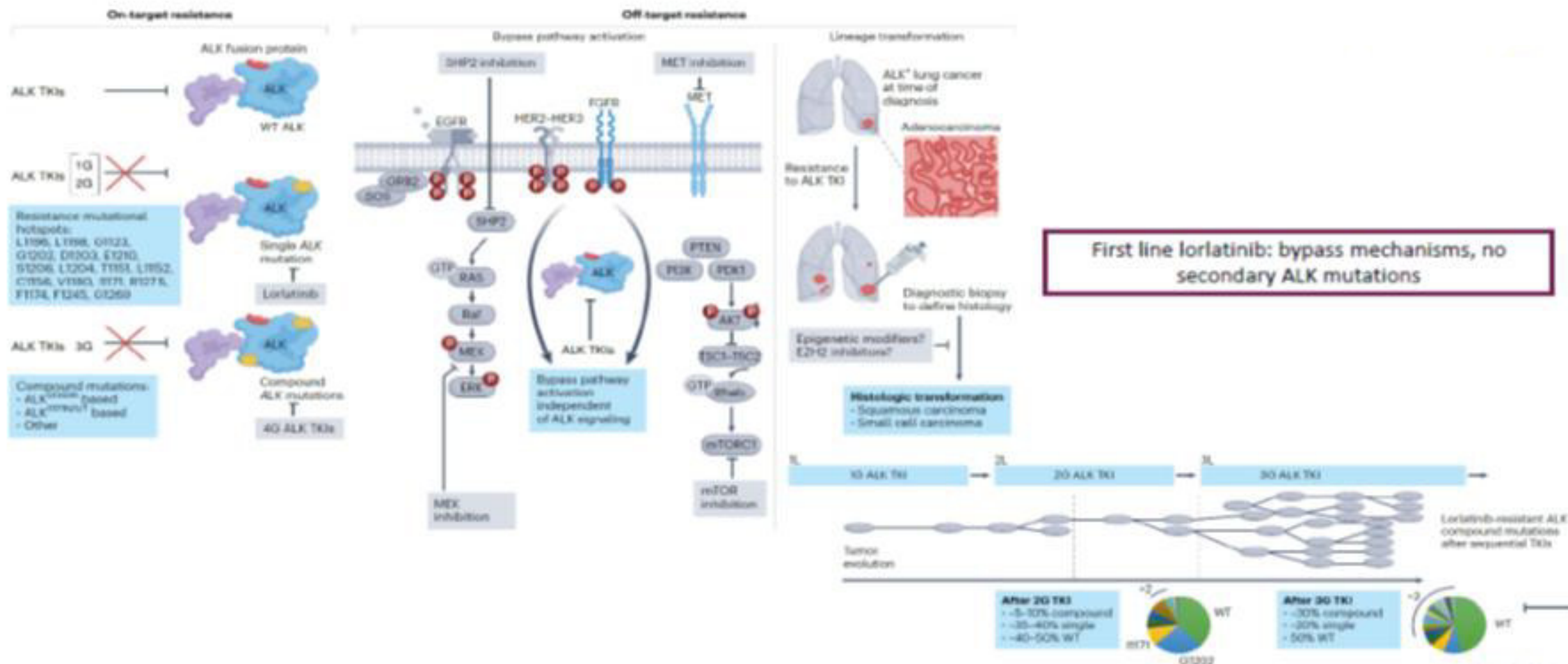
NEXT GENERATION TKIs

1. ALK DISEASE: 3° AND FOURTH GENERATION TKI

2. HER-2 DISEASE: ZONGERTINIB

3. KRAS DISEASE: PAN RAS INHIBITORS

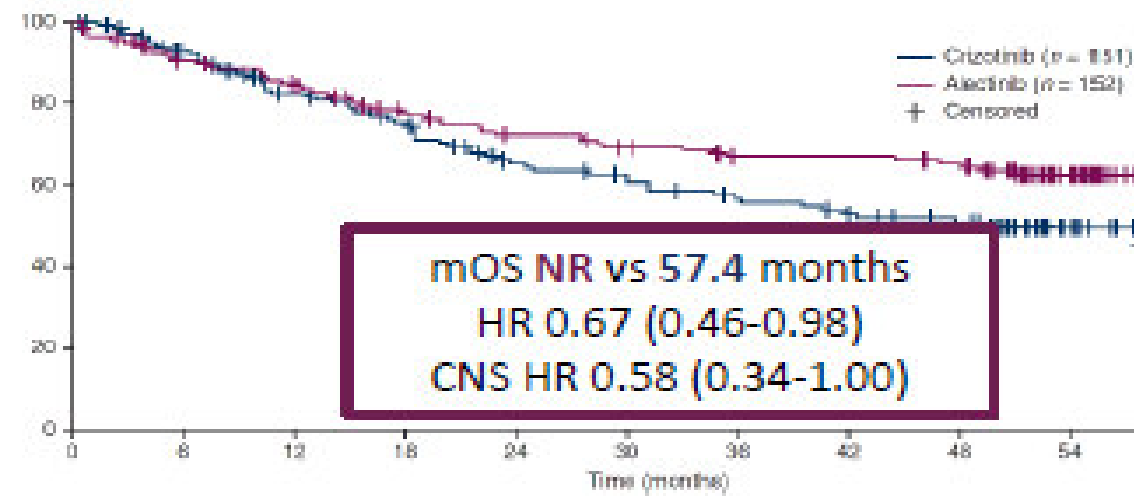
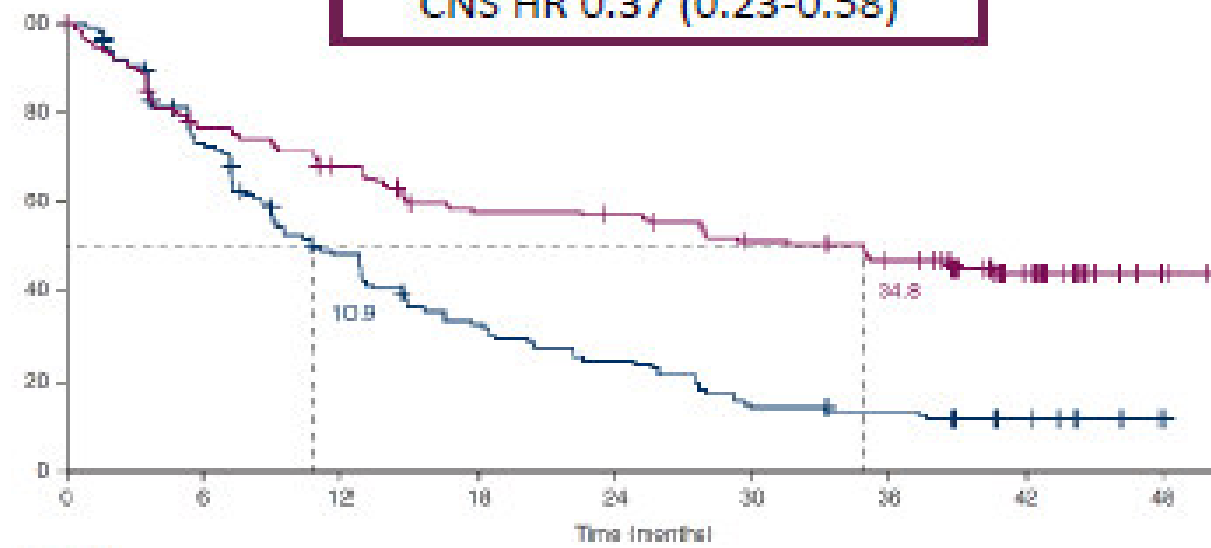
RESISTANCE MECHANISMS DEPEND ON TKI AND SEQUENCE



ALECTINIB 2ND GENERATION

ALEX

mPFS 34.8 vs 10.9 months
HR 0.43 (0.32-0.58)
CNS HR 0.37 (0.23-0.58)



mOS NR vs 57.4 months
HR 0.67 (0.46-0.98)
CNS HR 0.58 (0.34-1.00)

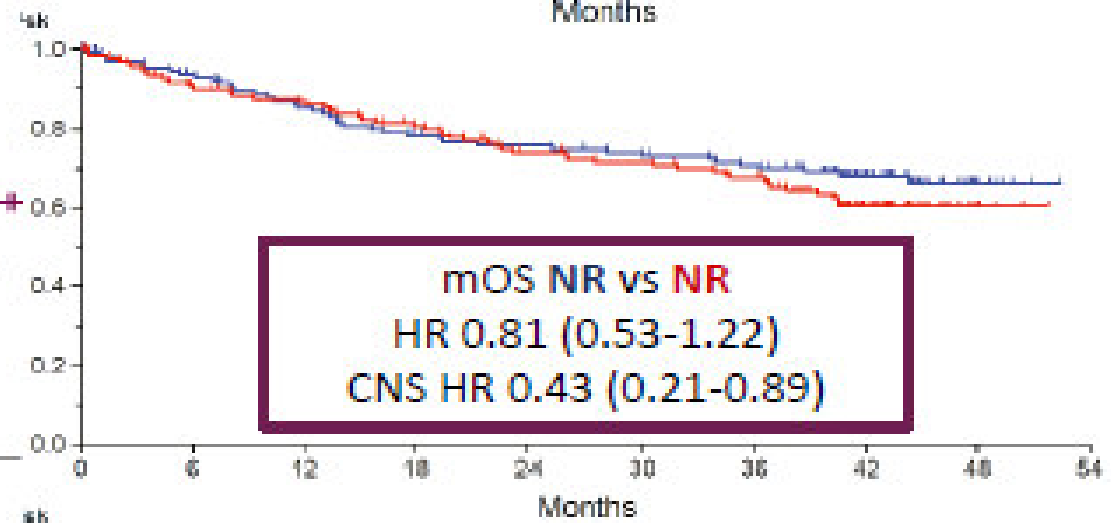
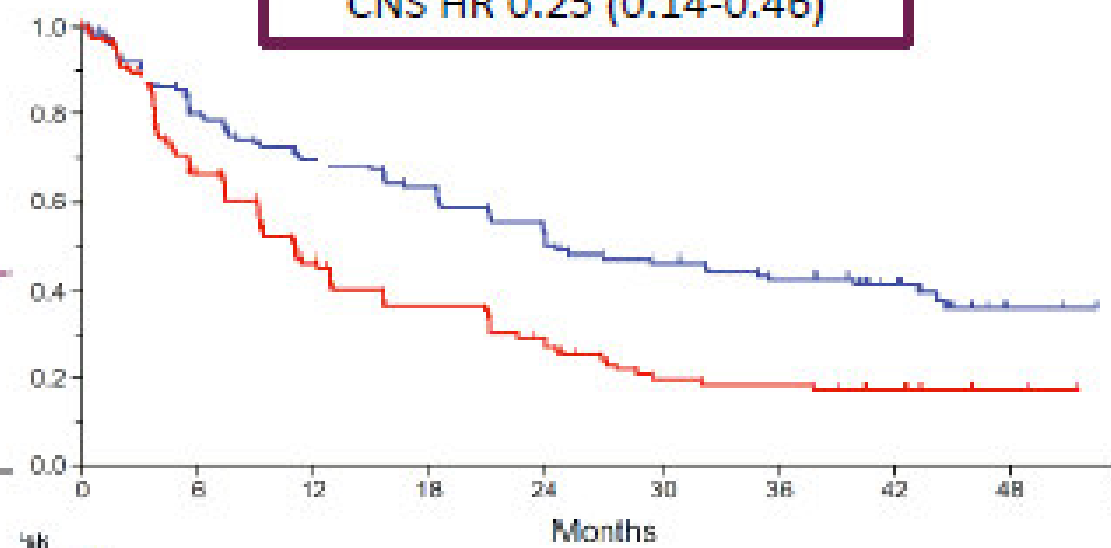
L Hendriks

Cross-trial comparison NOT allowed

BRIGATINIB 2° GENERATION

ALTA-1L

mPFS 24.0 vs 11.1 months
HR 0.48 (0.35-0.66)
CNS HR 0.25 (0.14-0.46)

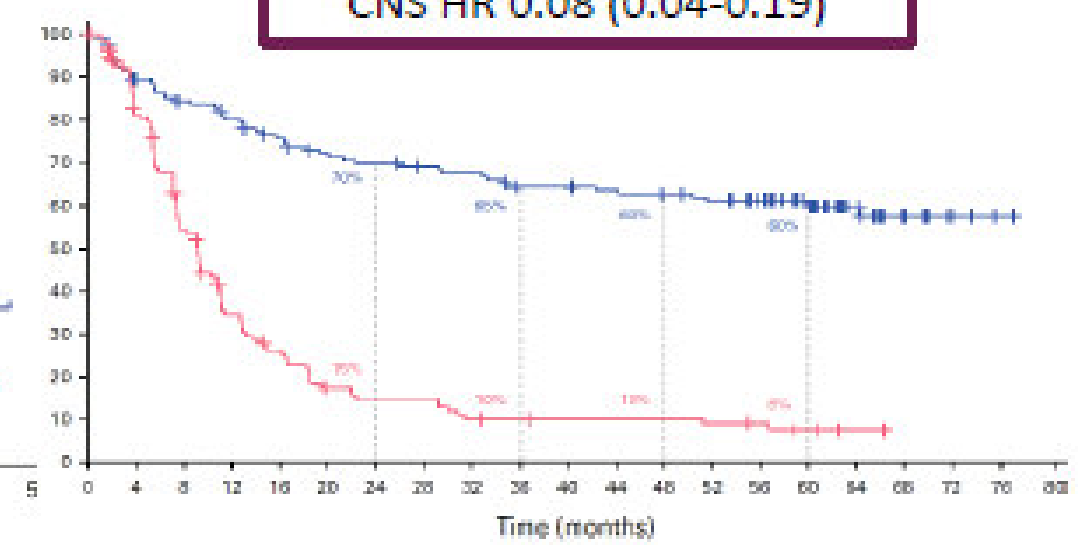


mOS NR vs NR
HR 0.81 (0.53-1.22)
CNS HR 0.43 (0.21-0.89)

LORLATINIB 3° GENERATION

CROWN

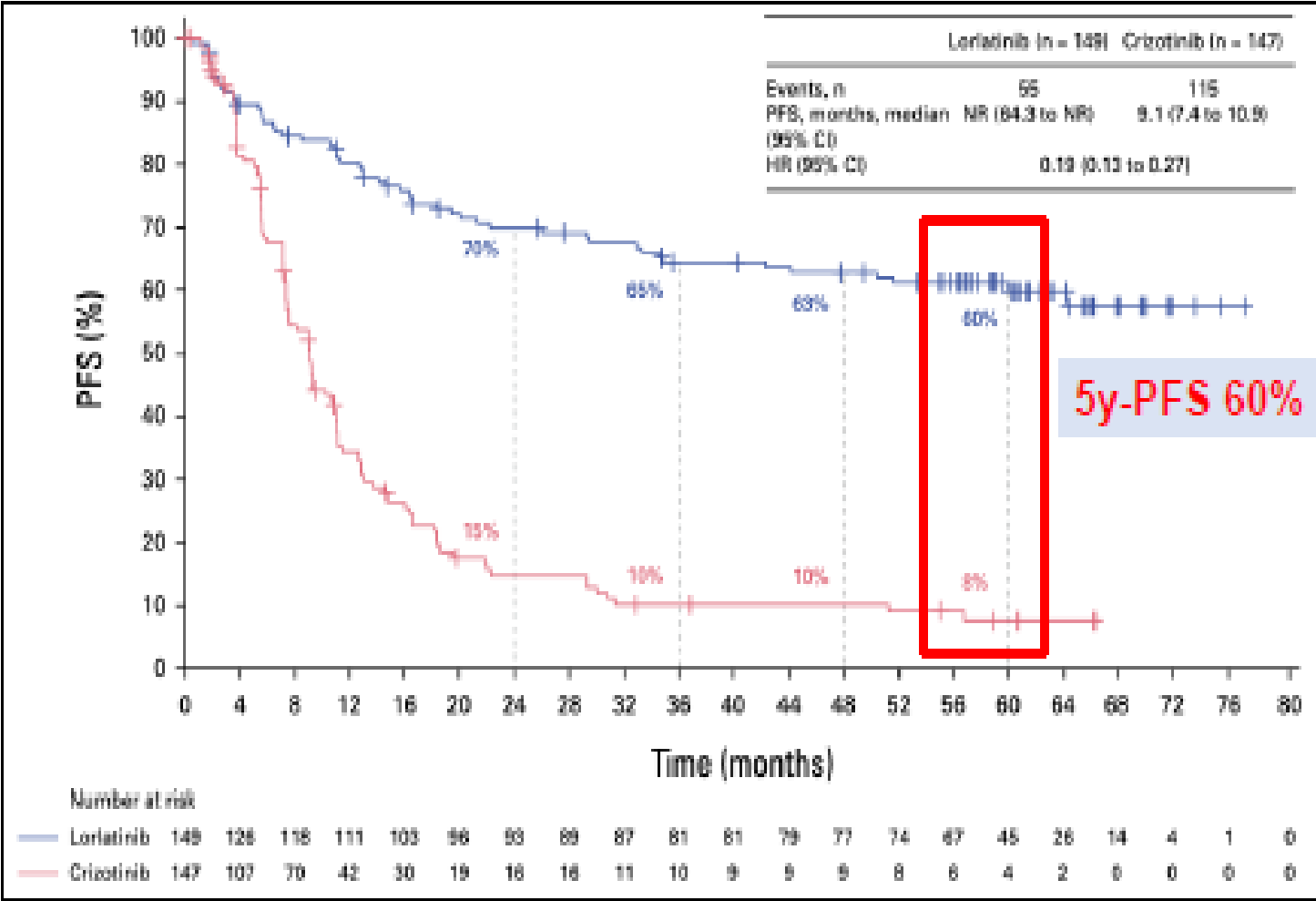
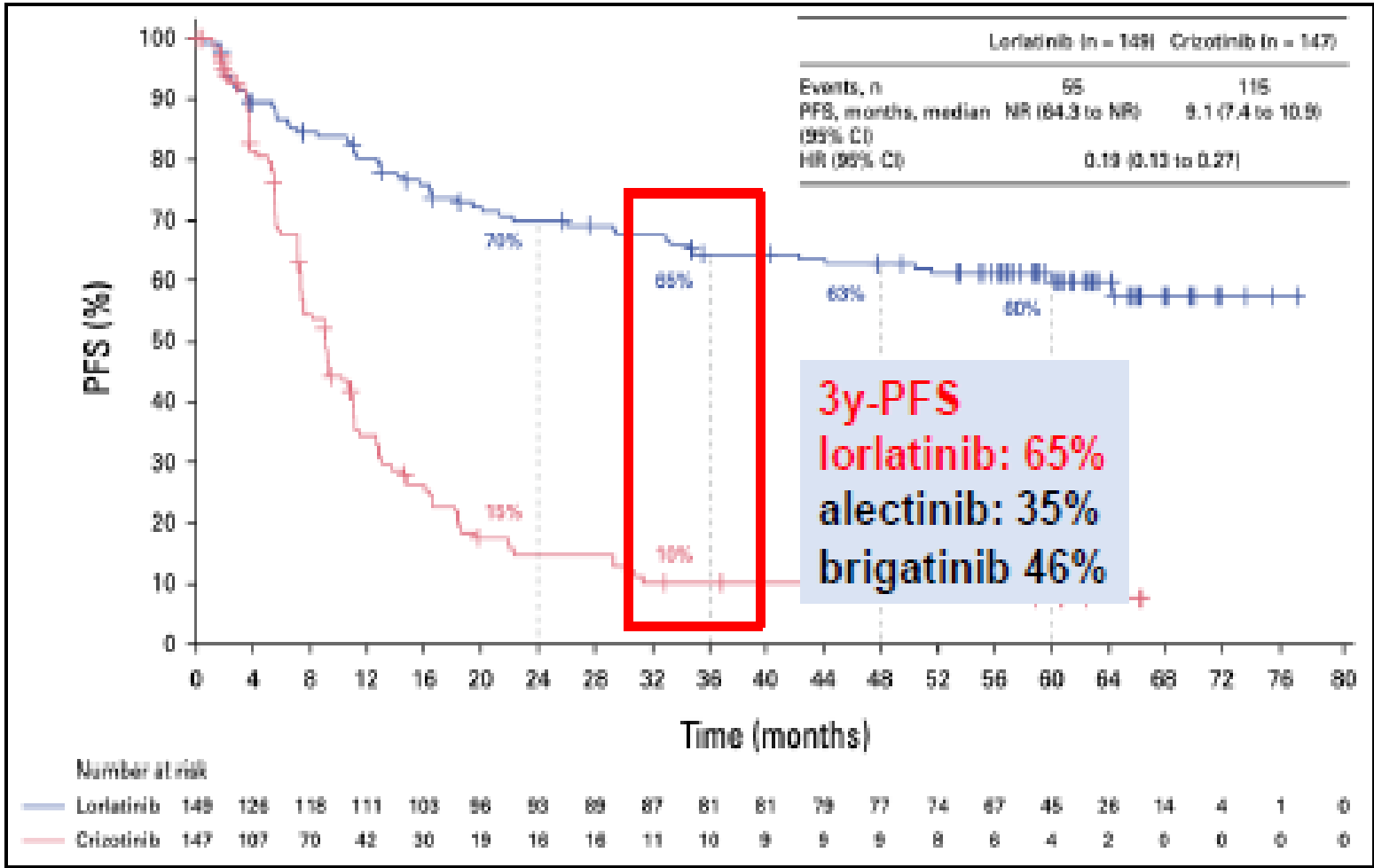
mPFS NR vs 9.1 months
HR 0.19 (0.13-0.27)
CNS HR 0.08 (0.04-0.19)



?

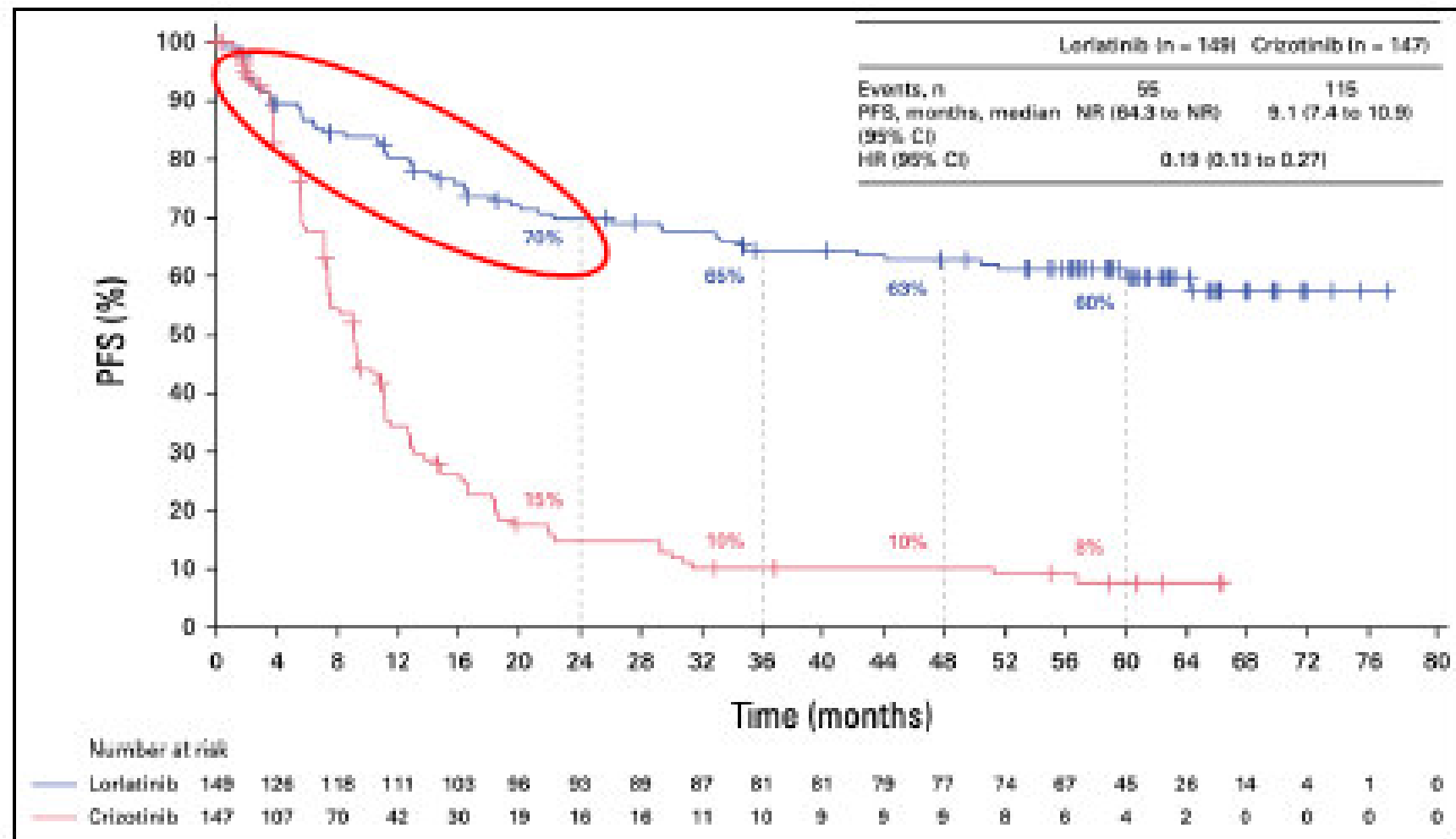
ALK FUSIONS: SETTING THE BAR 2025

CROWN phase III trial – update (1L crizotinib vs. lorlatinib)



ALK FUSIONS: SETTING THE BAR 2025

CROWN phase III trial – update (1l crizotinib vs. lorlatinib)

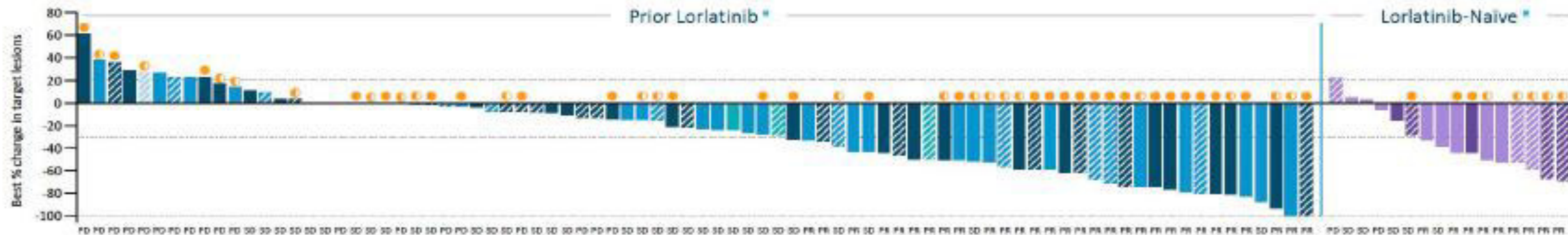


Even with remarkable PFS,
early relapses remain a relevant challenge

FOURTH GEN TKI: NVL-665 IN ALKOVE-1

ALK selective, TRK sparing

RECIST 1.1 ORR, % (n/N) <i>All patients ± chemotherapy</i>	NSCLC Response-Evaluable (Any Prior ALK TKI, range 1 – 5)			Prior Lorlatinib (≥2 ALK TKIs)			Lorlatinib-naïve (≥1 2G ± 1G)	
	All	Any ALK mutation ^a	G1202R ^a	All	Any ALK mutation	Compound ALK mutation ^a	All	Any ALK mutation
All Doses	38% (39/103)	52% (30/58)	69% (22/32) ^d	35% (30/85)	47% (23/49)	54% (15/28)	53% (9/17)	88% (7/8)
RP2D	38% (15/39)	55% (12/22)	71% (10/14)	35% (11/31)	50% (8/16)	64% (7/11)	57% (4/7)	80% (4/5)



KEY: PATIENT DETAILS

Lorlatinib Pre-treated:

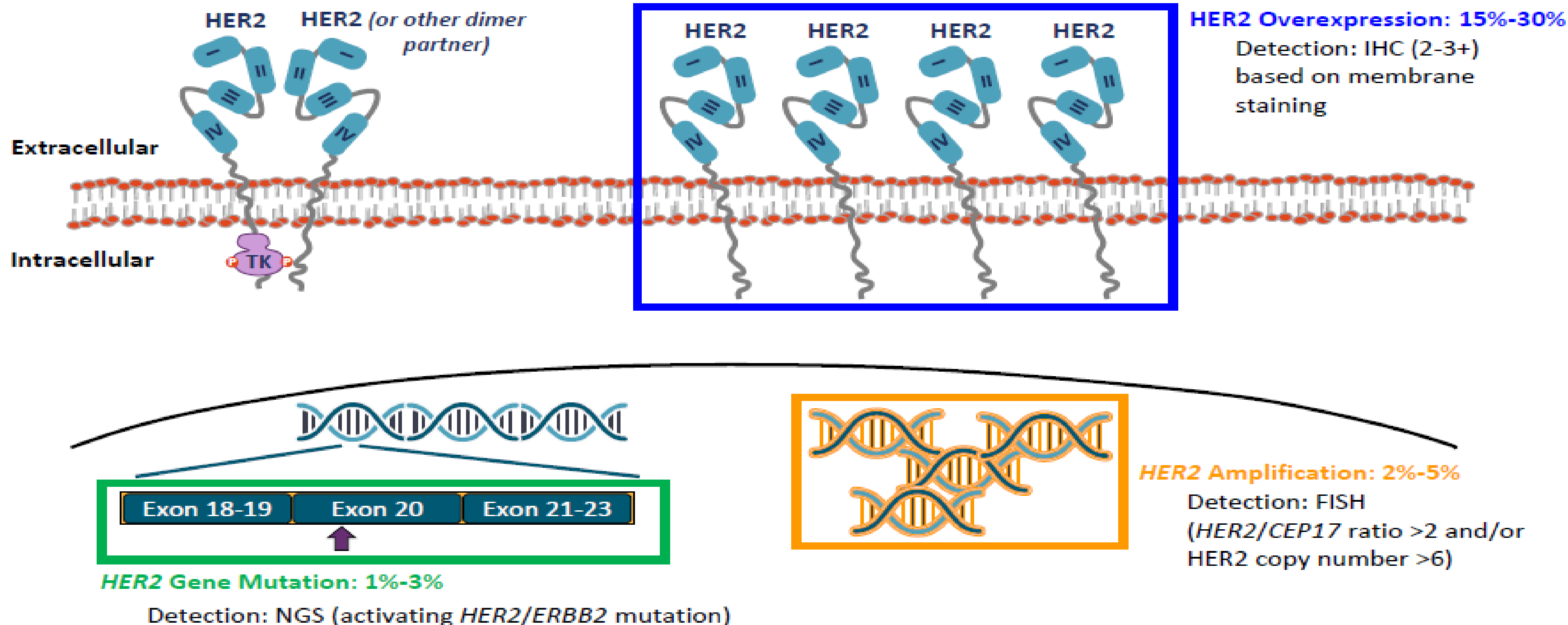
- ≥ 3 prior ALK TKIs
- 2 prior, 2G + lorlatinib
- 2 prior, 1G + lorlatinib
- 1 prior (lorlatinib only)

Lorlatinib-naïve:

- ≥ 2 prior ALK TKIs
- 1 prior, alectinib
- Patient treated at RP2D

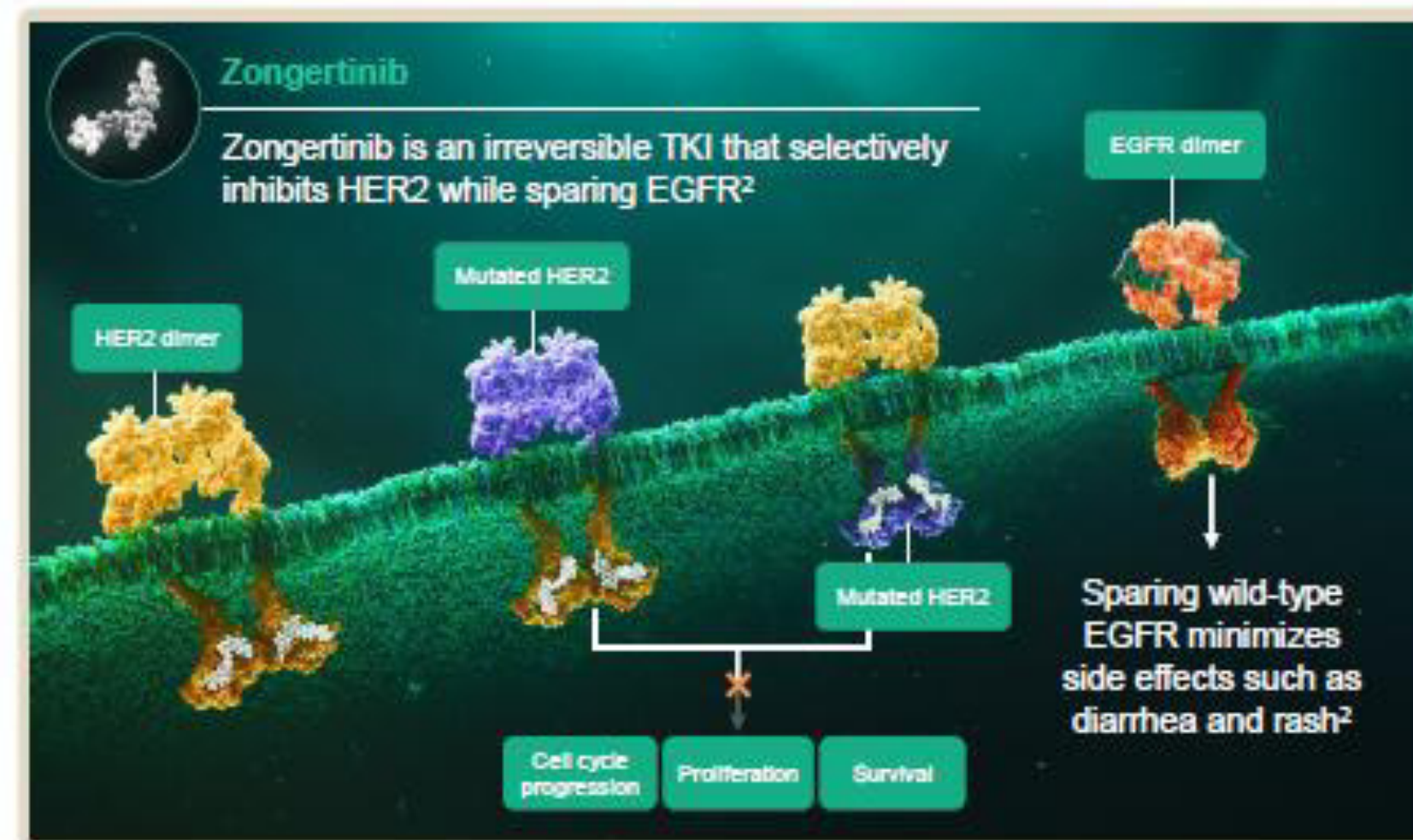
- ALK single resistance mutation
- ALK compound (≥2) resistance mutation

What is HER2-Positive NSCLC?



Zongertinib, an Oral, HER2-Specific, EGFR-Sparing TKI

- *HER2* mutations occur in approximately 2–4% of NSCLC cases, and are associated with highly aggressive disease, a poor prognosis and a high incidence of brain metastases¹
- Zongertinib is an orally administered, irreversible TKI that selectively inhibits *HER2* while sparing wild-type *EGFR*, thereby minimizing associated toxicities²
 - In previously treated patients with *HER2*-mutant NSCLC, zongertinib provided clinically meaningful benefit and manageable safety, including in patients with brain metastases³
- A *HER2*-targeted therapy for patients with treatment-naïve *HER2*-mutant NSCLC has not yet been established; the standard of care remains chemotherapy +/- immunotherapy



A substantial unmet clinical need remains for an effective first-line *HER2*-targeted therapy for patients with newly diagnosed *HER2*-mutant NSCLC

Beamion LUNG-1 Study Design

Phase Ib (dose expansion): patients with advanced *HER2*-mutant NSCLC

In Phase Ia, the MTD was not reached at 360 mg QD

In Phase Ib, the selected dose after interim futility analysis was zongertinib 120 mg QD

Current analysis

Cohort 2 Treatment-naïve patients with TKD mutations

Primary endpoint: Objective response by BICR (RECIST v1.1)

Secondary endpoints: DC, DoR, and PFS by BICR (RECIST v1.1)

Key inclusion criteria: aged ≥ 18 years, advanced/metastatic non-squamous *HER2*-mutant NSCLC (TKD mutation), ≥ 1 measurable non-CNS lesion (RECIST v1.1) and ECOG PS of 0/1. Patients with stable/asymptomatic brain metastases were eligible



Here we present the efficacy and safety of zongertinib 120 mg given as a first-line therapy

Additional cohorts not included in the current analysis

Cohort 1 Previously treated patients with TKD mutations

Cohort 3 Previously treated patients with non-TKD mutations

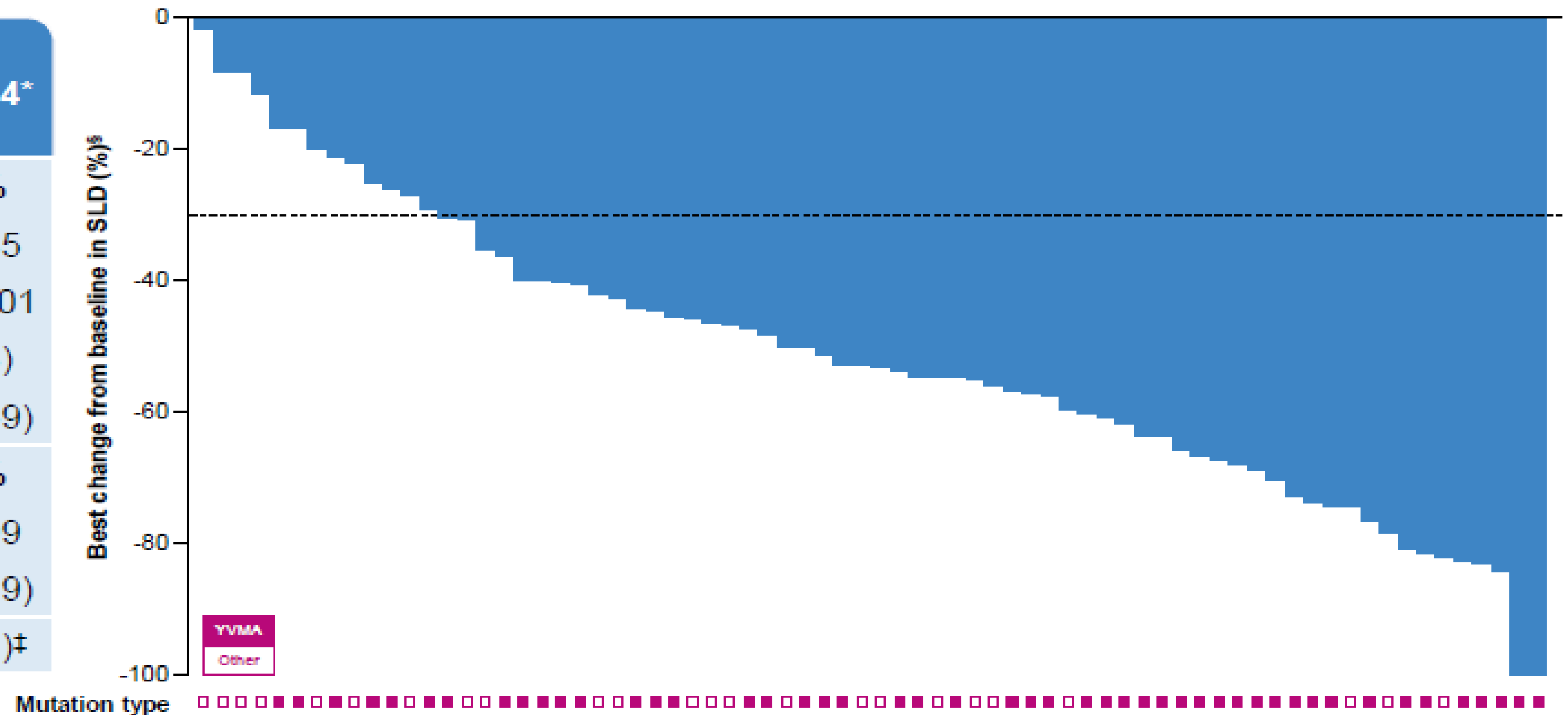
Cohort 4 Treatment-naïve or previously treated patients with TKD mutations and active brain metastases at baseline

Cohort 5 Patients previously treated with *HER2*-directed ADC and with TKD mutations

Zongertinib was recently approved in the United States (accelerated), China (conditional), and Japan for patients with previously treated advanced *HER2*-mutant NSCLC

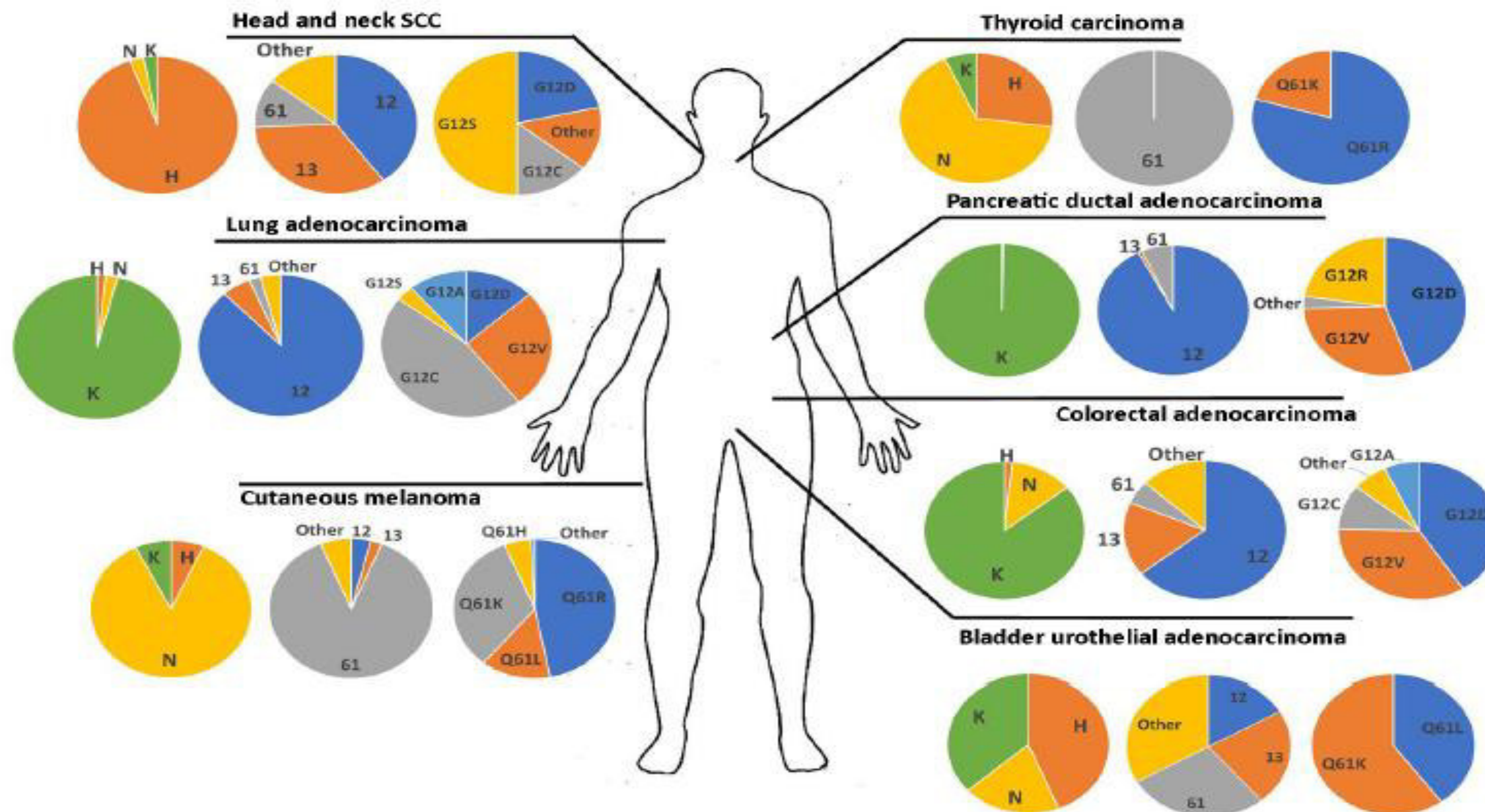
Zongertinib in Treatment-Naïve Patients: Tumor Response

Confirmed response by BICR (RECIST v1.1)		N = 74*
ORR		77%
95% CI		66–85
p value†		<0.0001
CR, n (%)		6 (8)
PR, n (%)		51 (69)
DCR		96%
95% CI		89–99
SD, n (%)		14 (19)
PD, n (%)		1 (1)‡

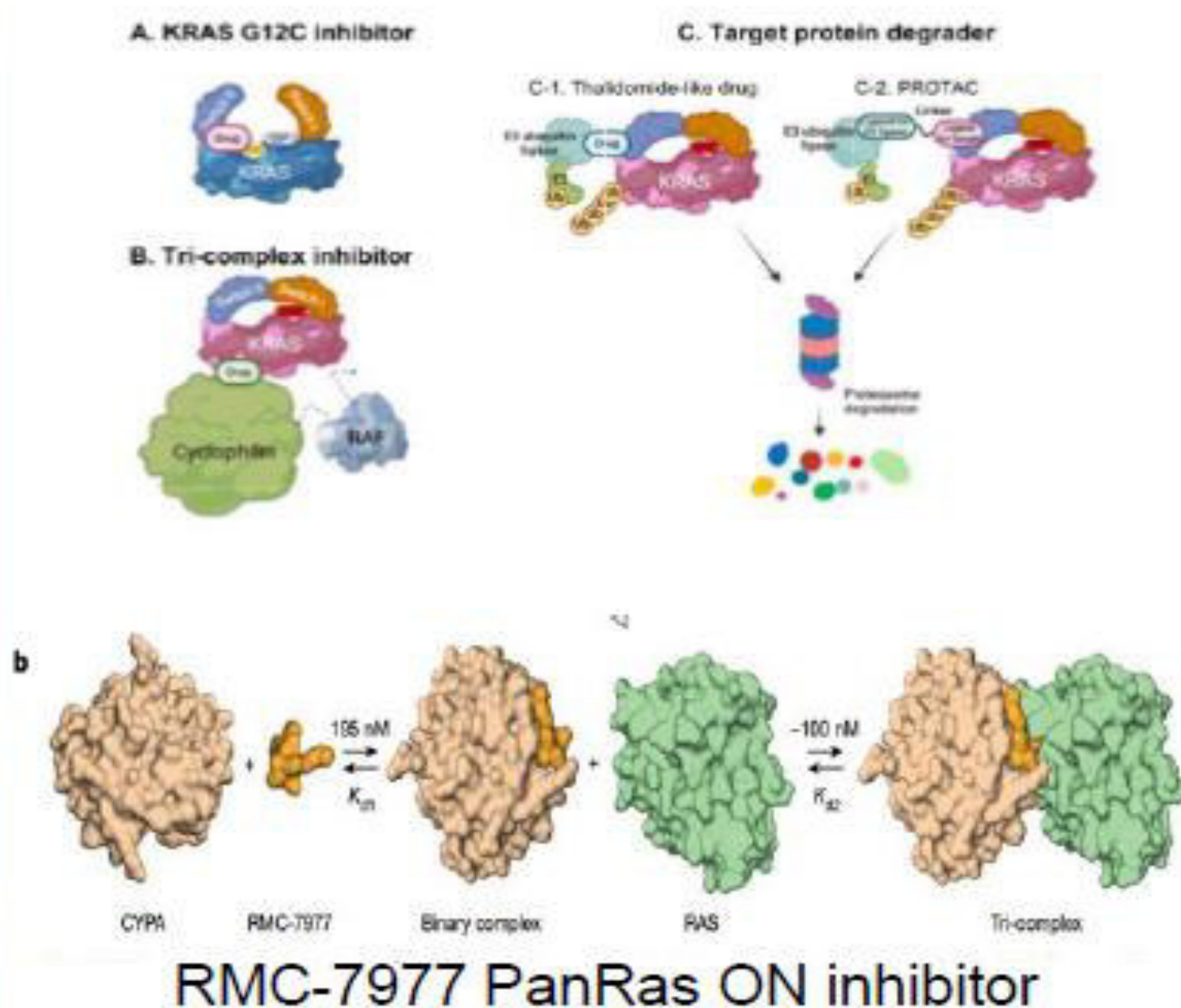
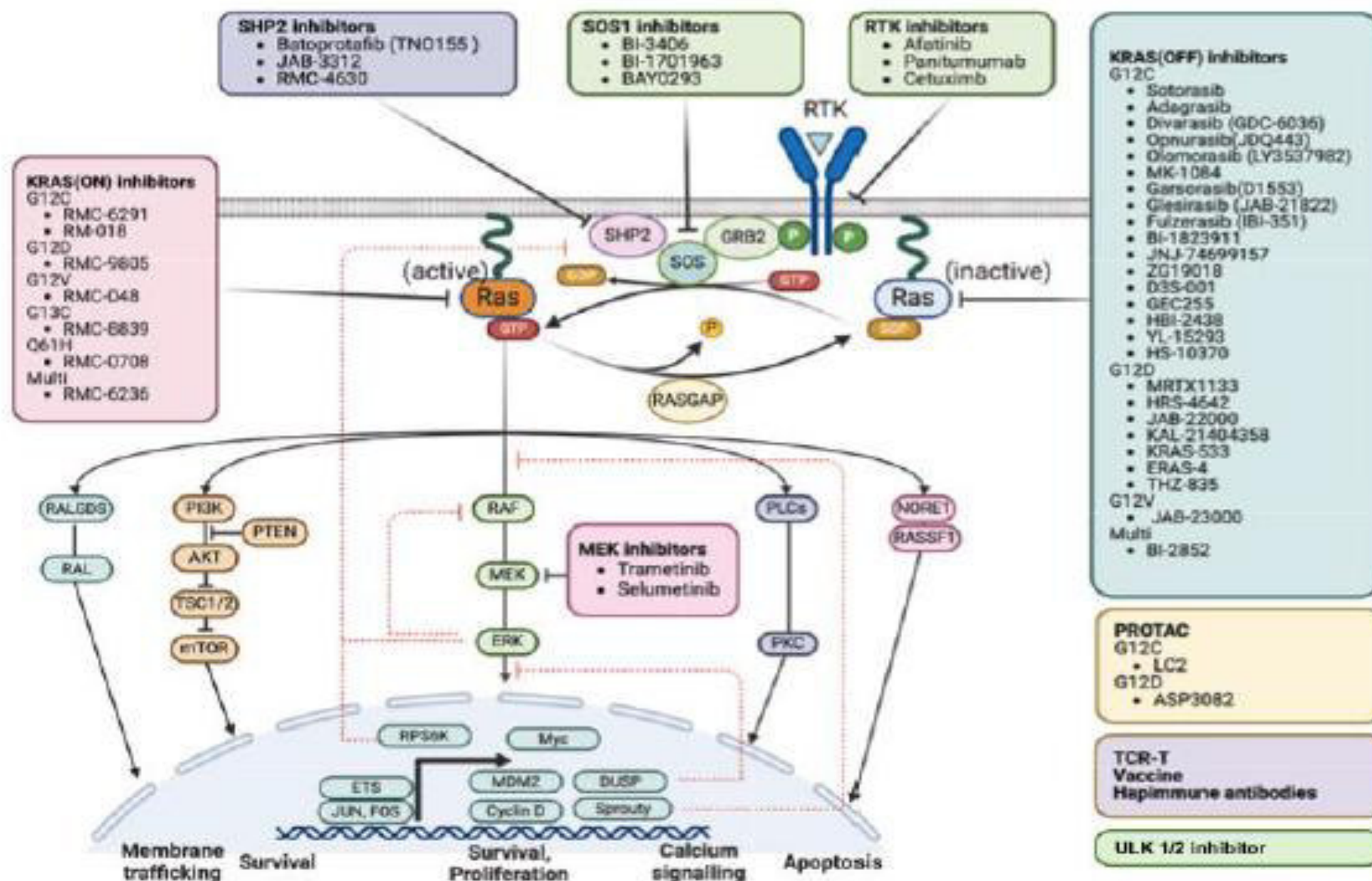


Clinical benefit was observed with zongertinib in all patients, irrespective of *HER2* mutation type

KRAS MUTATED DISEASE



Newer Agents, Combinations needed to move forward...



EXPANDING THE ARMAMENTARIUM BEYOND TKIS



- **Next-generation TKIs**
→ deeper, more durable responses (e.g., lorlatinib, repotrectinib, zidesmatinib)



- **Antibody–drug conjugates (ADCs)**
→ *trastuzumab deruxtecan* (approved) – new agents in development targeting TROP2, MET and others



- **Bispecific antibodies**
→ *amivantamab* (EGFR/MET; approved), *ivonescimab* (PD-1/VEGF) – early promising results and others



- **Novel mechanisms**
→ MET degraders, PROTACS, SHP2 and SOS1 inhibitors, pan-KRAS inhibitors and others



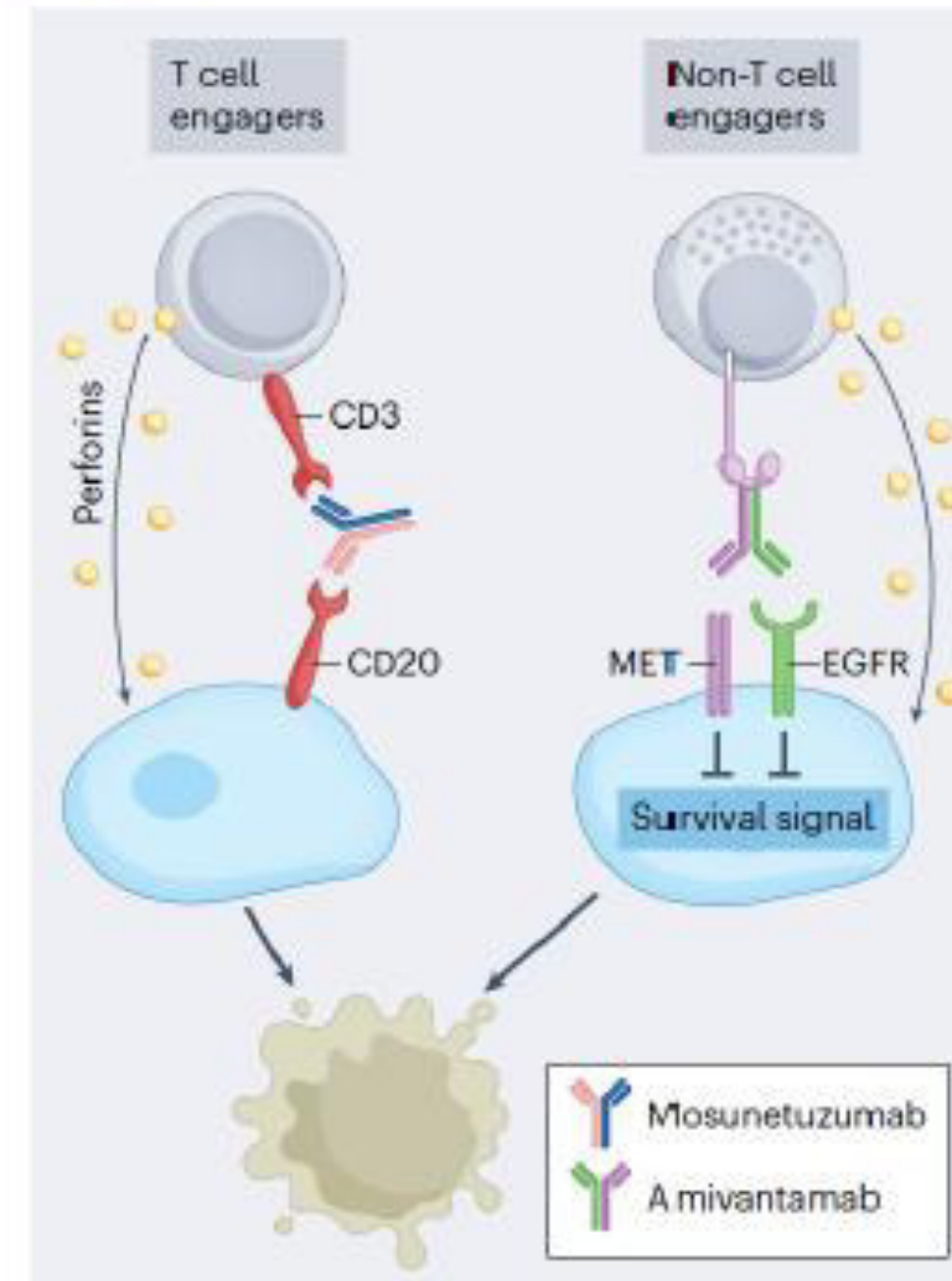
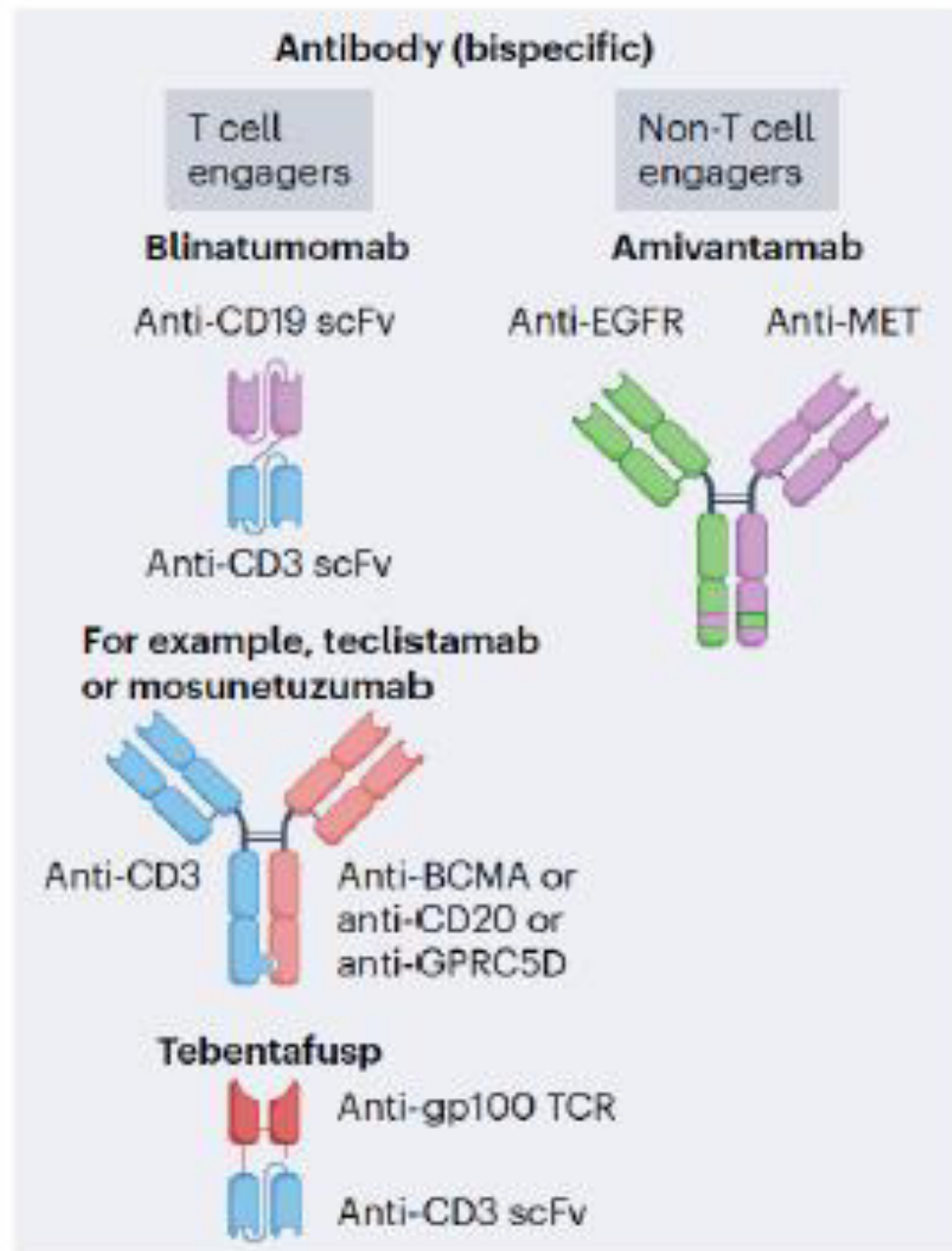
- **Cell-based and immune approaches**
→ T-cell vaccines, CAR-T concepts in early testing

BISPECIFIC ANTIBODIES

1. EGFR DISEASE: AMIVANTAMAB (MARIPOSA TRIAL)
2. SCLC DISEASE: TARLATAMAB (DELPPHI-304)

TWO MAIN CLASSES OF BISPECIFIC ANTIBODIES

Bispecific antibodies bind two different antigens or epitopes

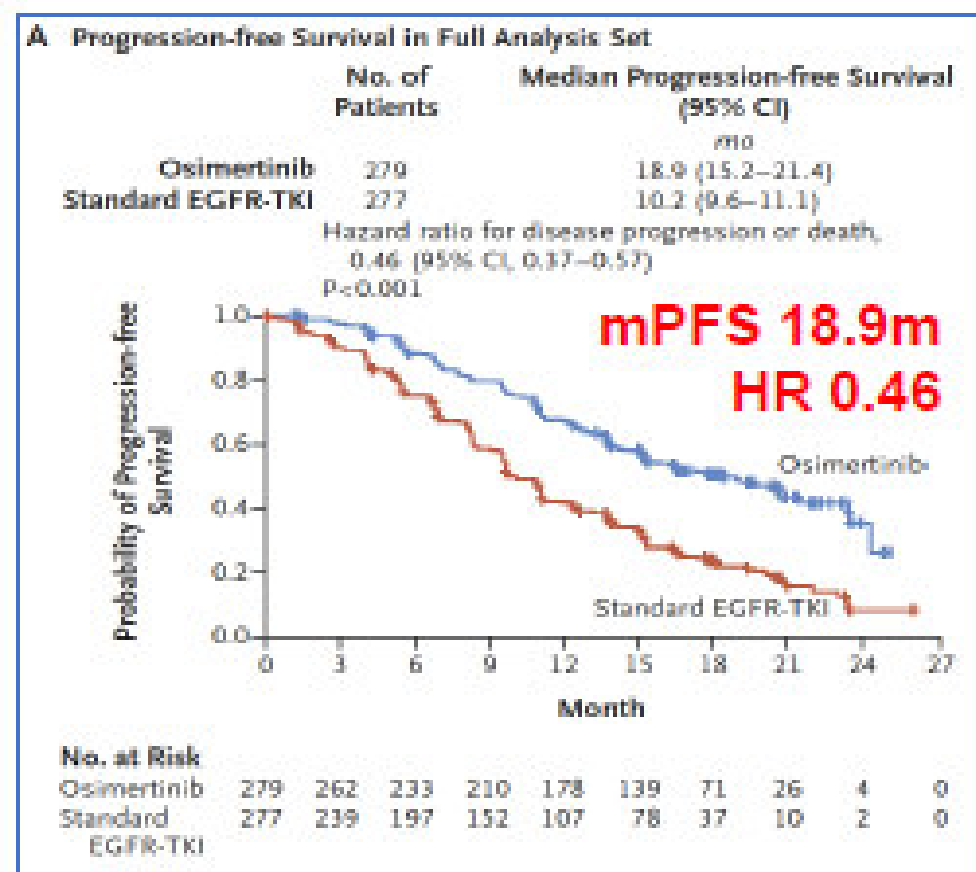


EGFR MUTATIONS (EX19DEL, L858R): BREAKING THE ESTABLISHED COMFORT ZONE

The familiar standard:

Osimertinib

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

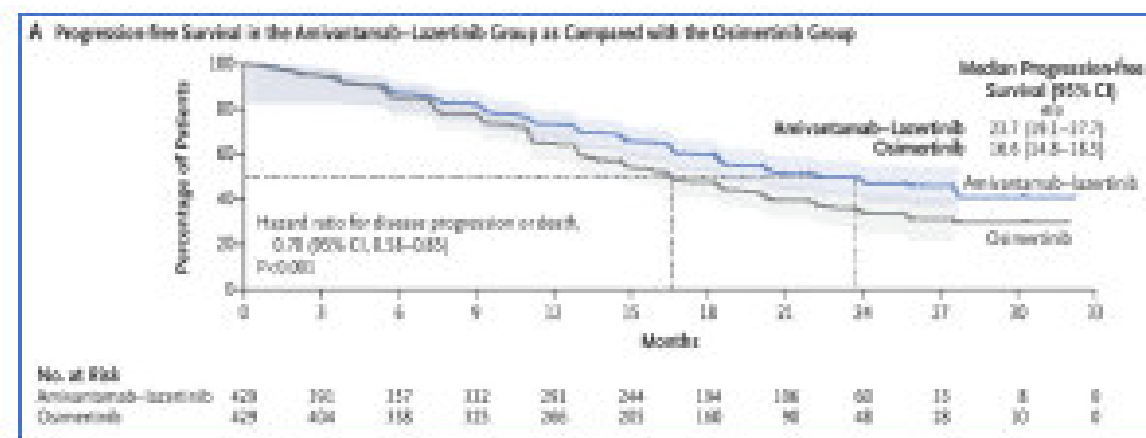


mOS: 38.6m

The challengers:

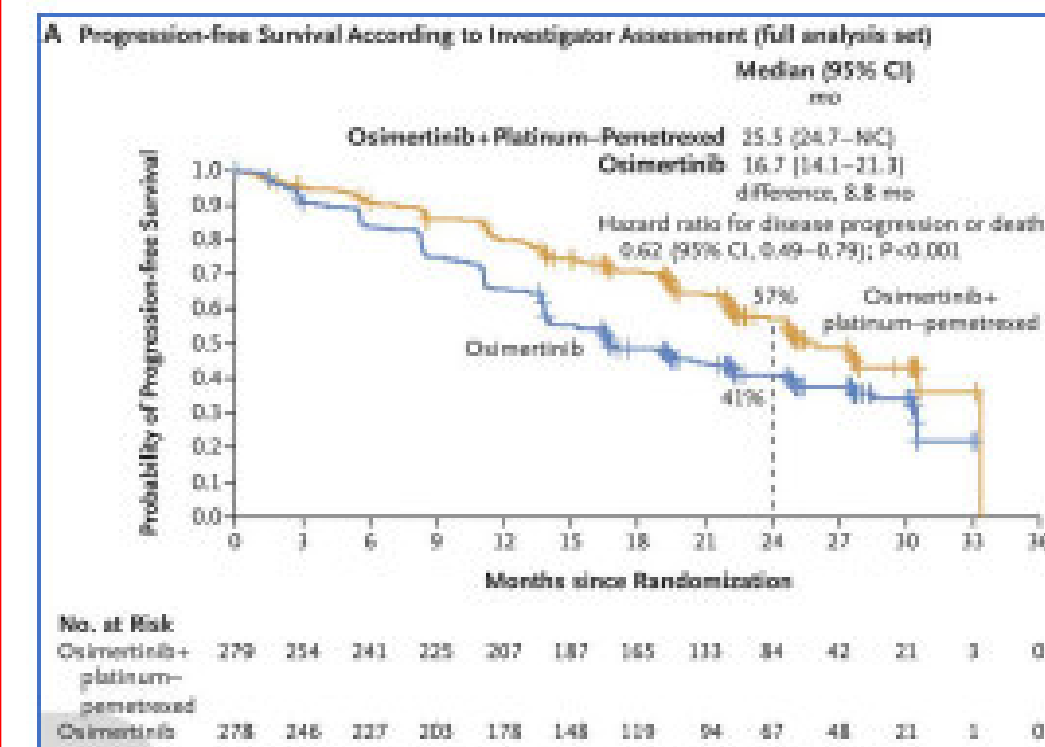
Lazertinib + amivantamab

vs. osimertinib (MARIPOSA)



PFS: HR 0.7

Osimertinib + chemotherapy
vs. osimertinib (FLAURA2)

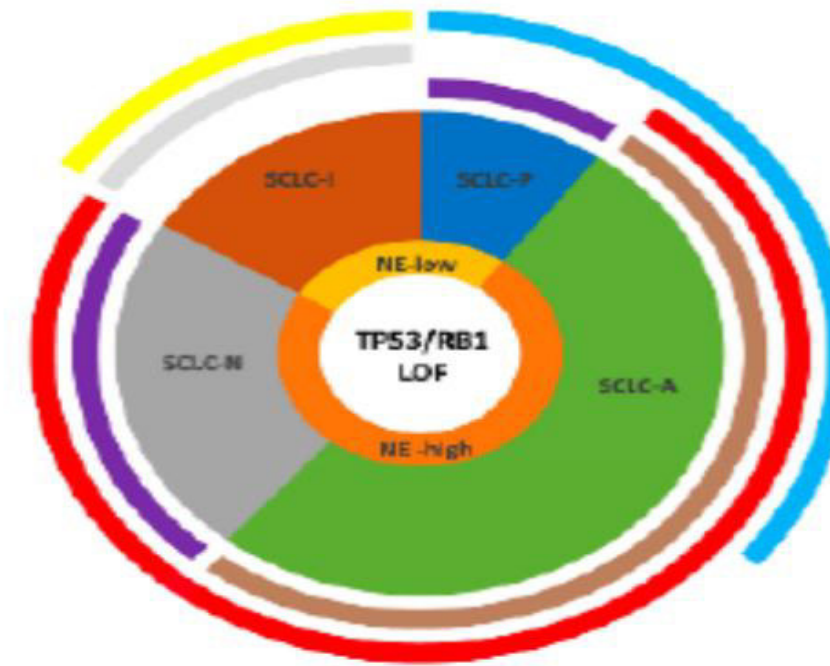
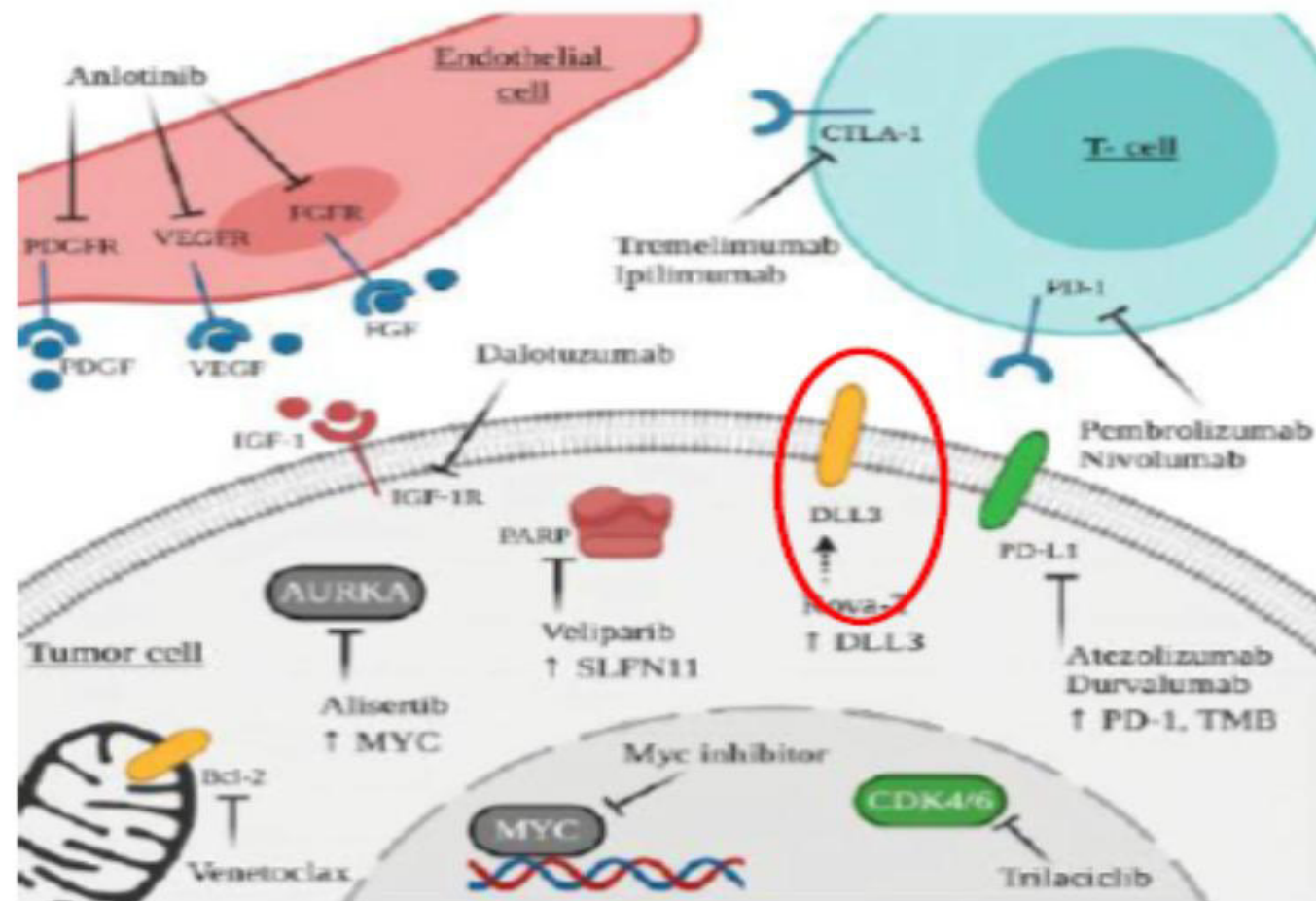


PFS: HR 0.62

> Both combinations clearly superior in PFS (primary endpoint)

DLL3: emerging target in SCLC

DLL3 is specifically expressed on the surface of SCLC tumor cells.



MYC status
Usually MYC high
Usually MYC low/NOTCH low
Other markers
DLL3
Immune & EMT markers
Targeted therapies
Immunotherapy
PARPi
IHC Expression
NE-high
Chromogranin A ⁺ , Synaptophysin ⁺ , CD56 ⁺ , INSM1 ⁺
NE-low
Chromogranin A ^{-low} , Synaptophysin ^{-low} , CD56 ^{-low} , INSM1 ^{-low}

Other Potential Targeted Therapies:

SCLC-A
BCL2 inhibitors
anti DLL3 targeted therapies

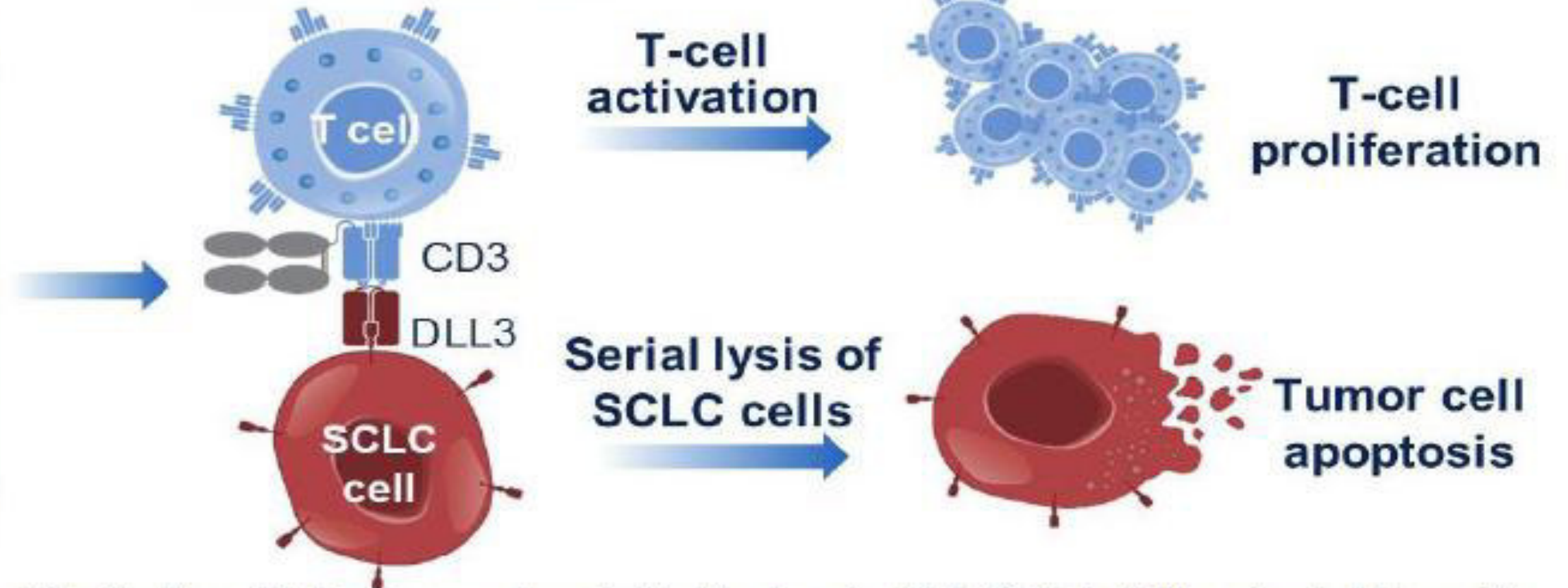
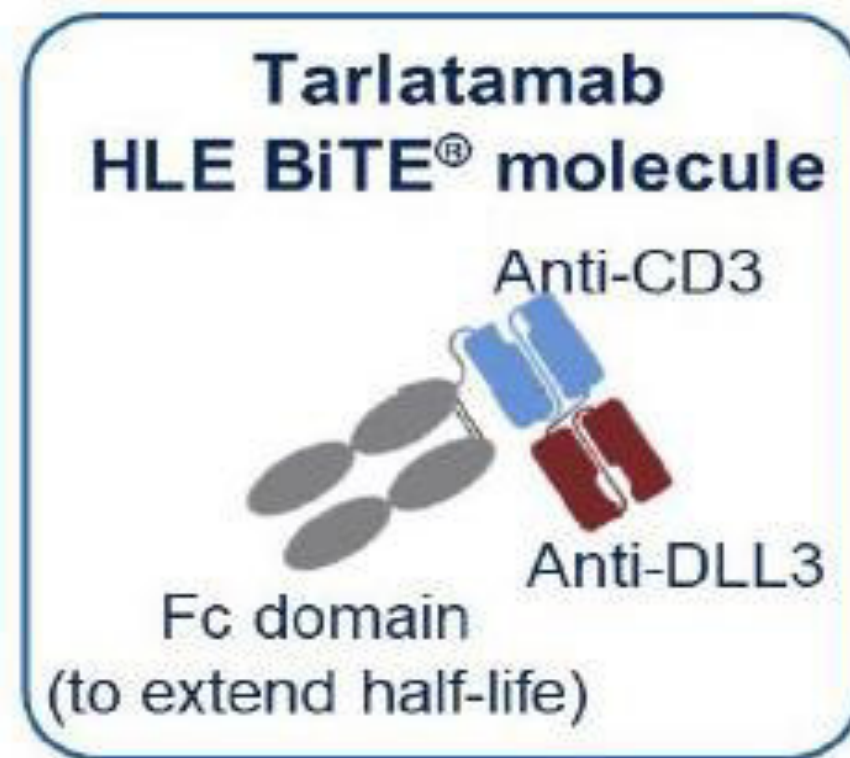
SCLC-N
Aurora kinase inhibitors
aSTR2 treatment
anti DLL3 targeted therapies

SCLC-P
Anti-metabolites

SCLC-I
BTK inhibitors

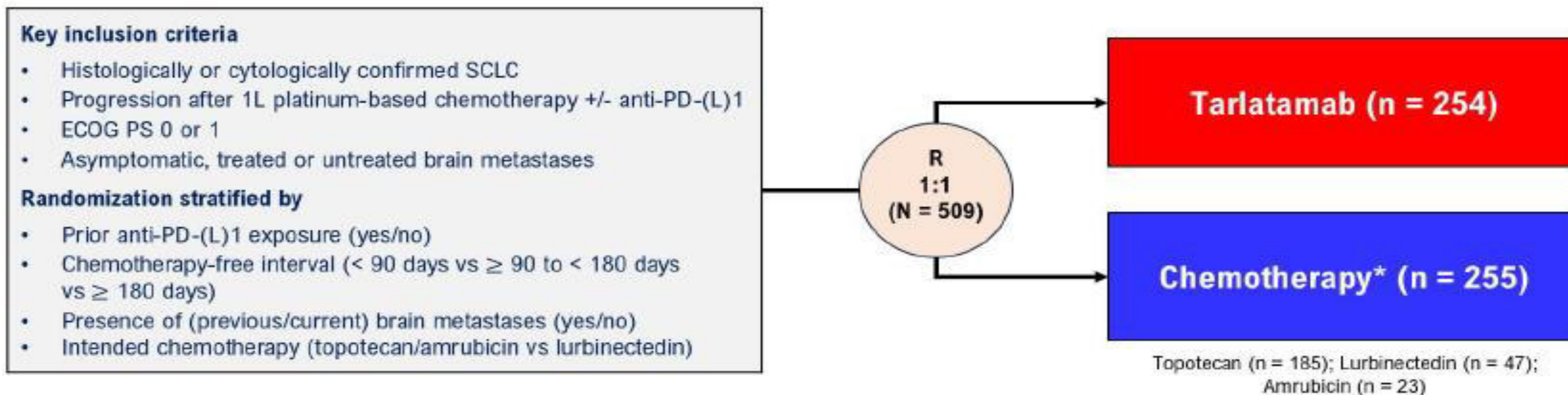
Tarlatamab

Tarlatamab engages endogenous
T cells and SCLC cells



CD, cluster of differentiation; DLL3, delta-like ligand 3; Fc, fragment crystallizable domain; HLE BiTE, half-life extended bispecific T-cell engager; SCLC, small cell lung cancer.

Randomized, controlled, phase 3 DeLLphi-304 study (NCT05740566)



Primary Endpoint: Overall survival

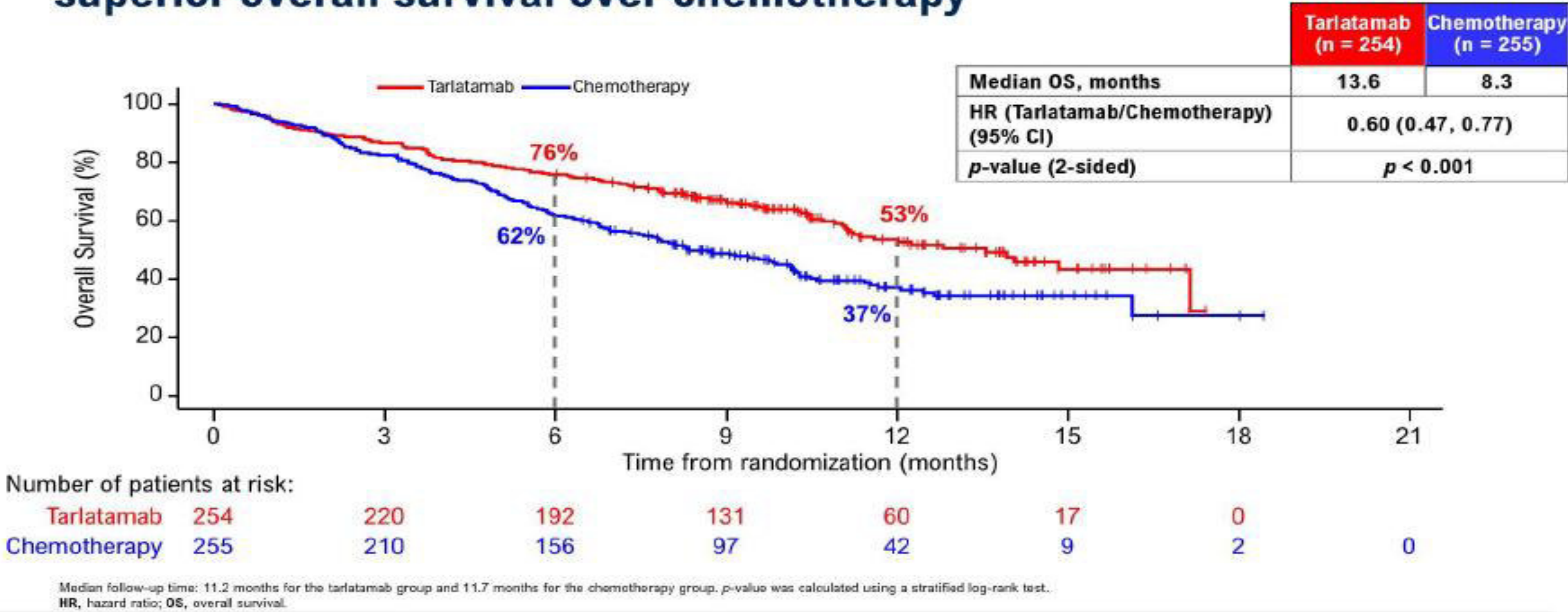
Key Secondary Endpoints: Progression-free survival, patient-reported outcomes

Other Secondary Endpoints: Objective response, disease control, duration of response, safety

*Topotecan was used in all countries except Japan, lurbinectedin in Australia, Canada, Republic of Korea, Singapore and the United States, and amrubicin in Japan.

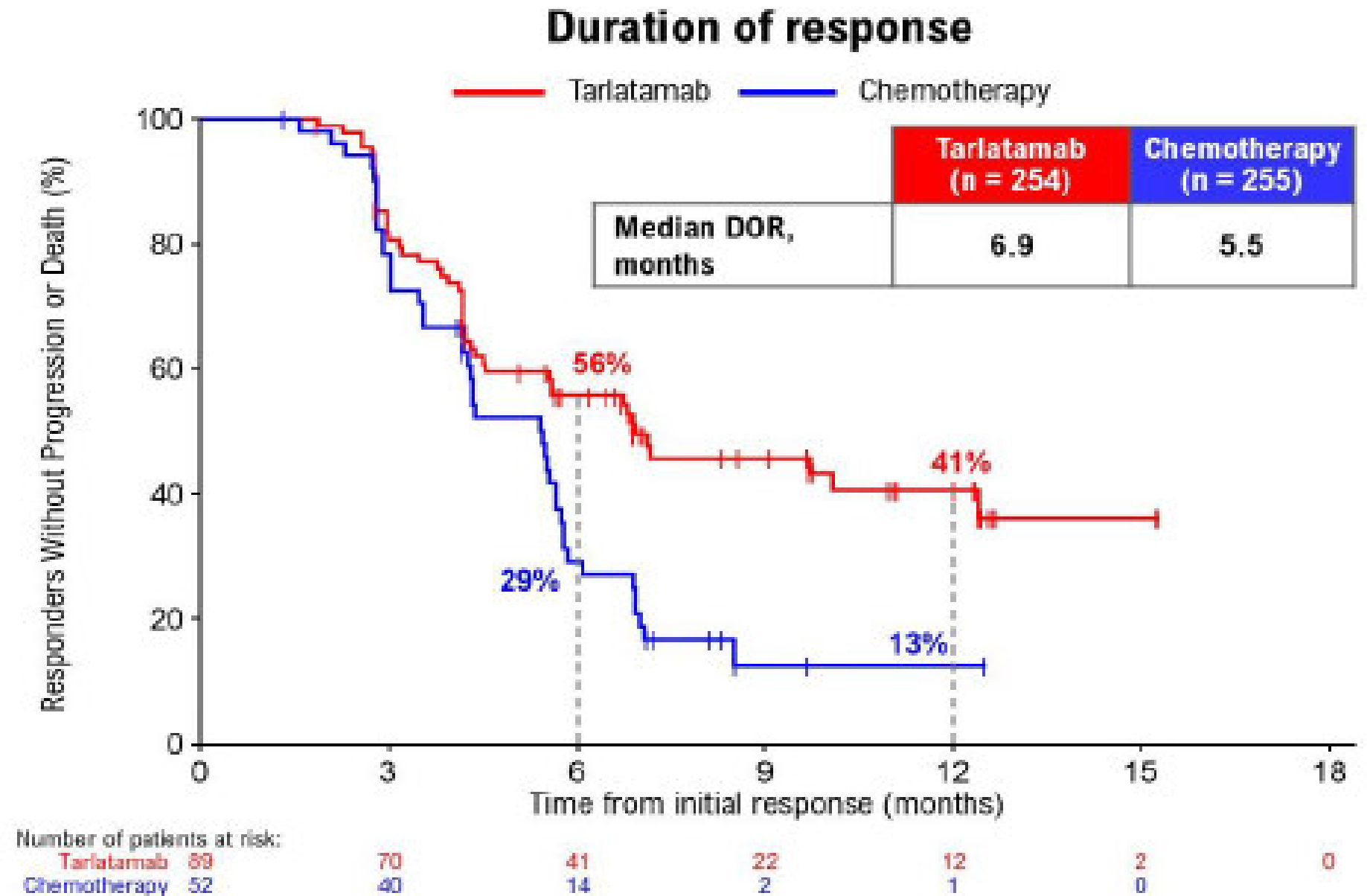
1L, first-line; ECOG PS, Eastern Cooperative Oncology Group performance status; PD-(L)1, programmed death (ligand)-1; R, randomization; SCLC, small cell lung cancer.

DeLLphi-304 met its primary endpoint with tarlatamab demonstrating superior overall survival over chemotherapy



Tarlatamab was associated with more frequent and more durable responses

	Tarlatamab (n = 254)	Chemotherapy (n = 255)
Best overall response[†], n (%)		
Complete response	3 (1)	0 (0)
Partial response	86 (34)	52 (20)
Stable disease	84 (33)	112 (44)
Progressive disease	56 (22)	50 (20)
Not evaluable/no post-baseline scan	25 (10)	41 (16)
Objective response rate[‡], % (95% CI)	35 (29–41)	20 (16–26)
Median duration of response, months	6.9	5.5
Median time to objective response, months	1.5	1.4
Ongoing response at data cutoff, n[§] (%)	42 (47)	8 (15)



*Assessment of disease response was based on RECIST 1.1 guidelines. Confirmation of complete response and partial response was required no fewer than 4 weeks after initial documentation of complete response or partial response. [†]Investigator-assessed response in the intention-to-treat analysis set; [‡]Odds ratios and *p* value not shown as the difference in ORR between the 2 arms was not formally tested. [§]Percentage of total number of responders.

DOR, duration of response; IRECIST, Response Evaluation Criteria in Solid Tumors.

TARLATAMAB is now the standard of care for second-line therapy in ES-SCLC

EXPANDING THE ARMAMENTARIUM BEYOND TKIS



- **Next-generation TKIs**
→ deeper, more durable responses (e.g., lorlatinib, repotrectinib, zidesmatinib)



- **Antibody–drug conjugates (ADCs)**
→ *trastuzumab deruxtecan* (approved) – new agents in development targeting TROP2, MET and others



- **Bispecific antibodies**
→ *amivantamab* (EGFR/MET; approved), *ivonescimab* (PD-1/VEGF) – early promising results and others



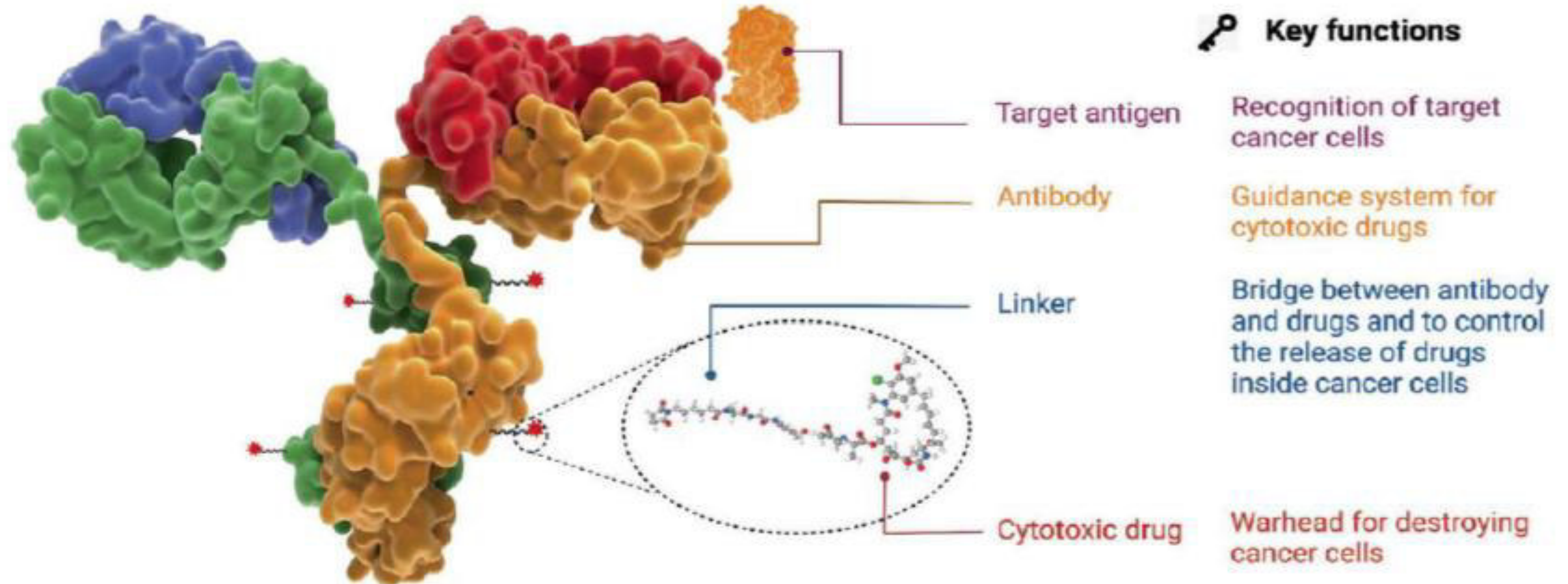
- **Novel mechanisms**
→ MET degraders, PROTACS, SHP2 and SOS1 inhibitors, pan-KRAS inhibitors and others



- **Cell-based and immune approaches**
→ T-cell vaccines, CAR-T concepts in early testing

THE CHALLENGE

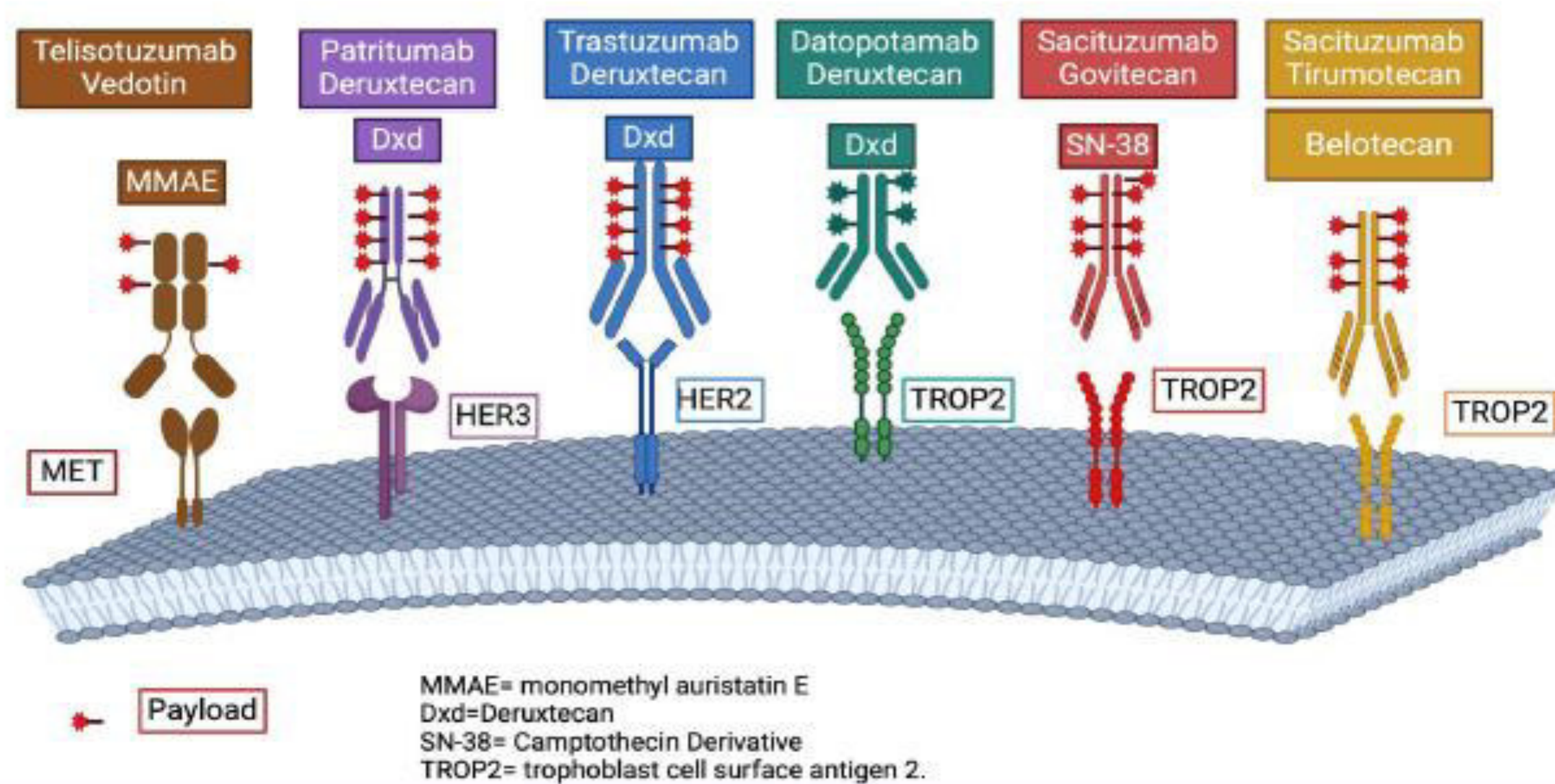
The relationship between target expression and ADC response is controversial



FDA-APPROVED ADC IN SOLID TUMORS ...as of September 2025

Generic name	FDA approved indication	Year of approval	Molecular Target	Payload Class	MoA
Trastuzumab Emtansine	HER2+ breast cancer	2013	HER2	Maytansine	Microtubule inhibitor
Trastuzumab Deruxtecan	HER2+/low breast cancer	2019	HER2	Camptothecin	Topoisomerase I inhibitor
Sacituzumab Govitecan	Tripple-negative Breast cancer	2021	Trop-2	Camptothecin	Topoisomerase I inhibitor
Enfortumab Vedotin	Urothelial Carcinoma	2021	Nectin-4	Auristatin	Microtubule inhibitor
Trastuzumab Deruxtecan	HER2-mutant NSCLC HER2 IHC +++	2022	HER2	Camptothecin	Topoisomerase I inhibitor
Mirvetuximab Soravtansine	FRa+ ovarian cancer	2022	Folate receptor alpha	Maytansine	Microtubule inhibitor
Tisotumab Vedotin	Cervical Cancer	2022	Tissue factor	Auristatin	Microtubule inhibitor
Telisotuzumab Vedotin	MET IHC pos NSCLC	2025	c-Met	Auristatin	Microtubule inhibitor
Datopotamab Deruxtecan	ER (+), HER2(-) breast cancer	2025	Trop-2	Camptothecin	Topoisomerase I inhibitor
Datopotamab Deruxtecan	EGFR (+) NSCLC Pre-treated	2025	Trop-2	Camptothecin	Topoisomerase I inhibitor

Anatomy of an ADC: The target



Biomarker –selected ADCs: Efficacy of the ADC is related to the level of expression of the biomarker, ie c-MET, HER2

Biomarker-agnostic ADCs: Efficacy of the ADC seems to be independent of the level of expression of the biomarker, ie TROP2, HER3

ADC

- 1. HER-2 DISEASE: TRASTUZUMAB DERUXTECAN**
- 2. EGFR DISEASE: DATO-DXT, SACI-TIRU, TELISO-ADI**
- 3. MET DISEASE: TELISO-V, ABBV-400**

DESTINY-Lung01: study design



•Phase 2 study of T-DXd, a novel antibody-drug conjugate, in patients with HER2-overexpressing or HER2-mutated metastatic NSCLC

Key eligibility criteria

- Unresectable/metastatic nonsquamous NSCLC
- Relapsed from or is refractory to standard treatment
- Measurable disease by RECIST v1.1
- Asymptomatic CNS metastases at baseline
- ECOG PS of 0 or 1



Cohort 1:
HER2-overexpressing^a
(IHC 3+ or IHC 2+)
T-DXd 6.4 mg/kg q3w
n = 49

Cohort 2:
HER2-mutated
T-DXd 6.4 mg/kg q3w
n = 42

Cohort 1a:
HER2-overexpressing
(IHC 3+ or IHC 2+)
T-DXd 5.4 mg/kg q3w
n = 41

Cohort 2 expansion:
HER2-mutated
T-DXd 6.4 mg/kg q3w
n = 49

Primary end point

- Confirmed ORR by ICR

Secondary end points

- PFS
- OS
- DOR
- DCR
- Safety and tolerability

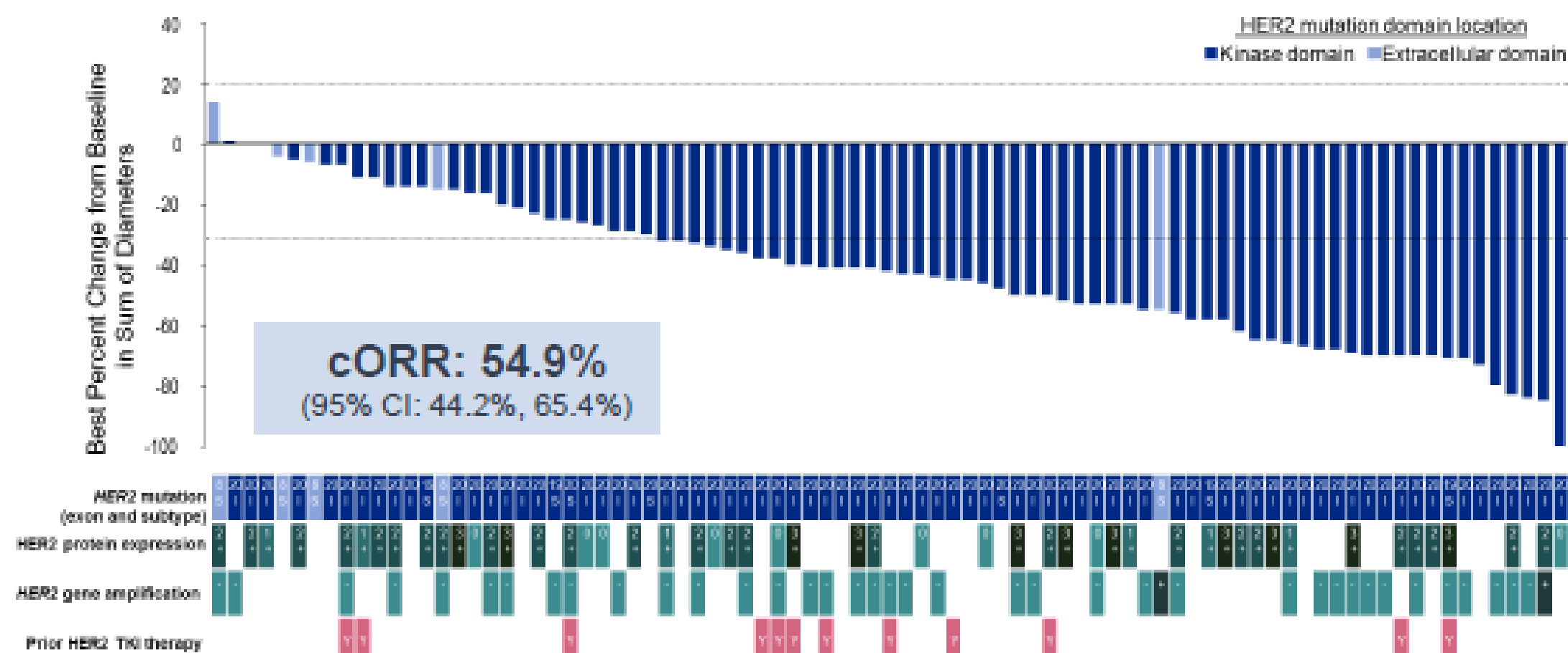
Exploratory end point

- Biomarkers of response

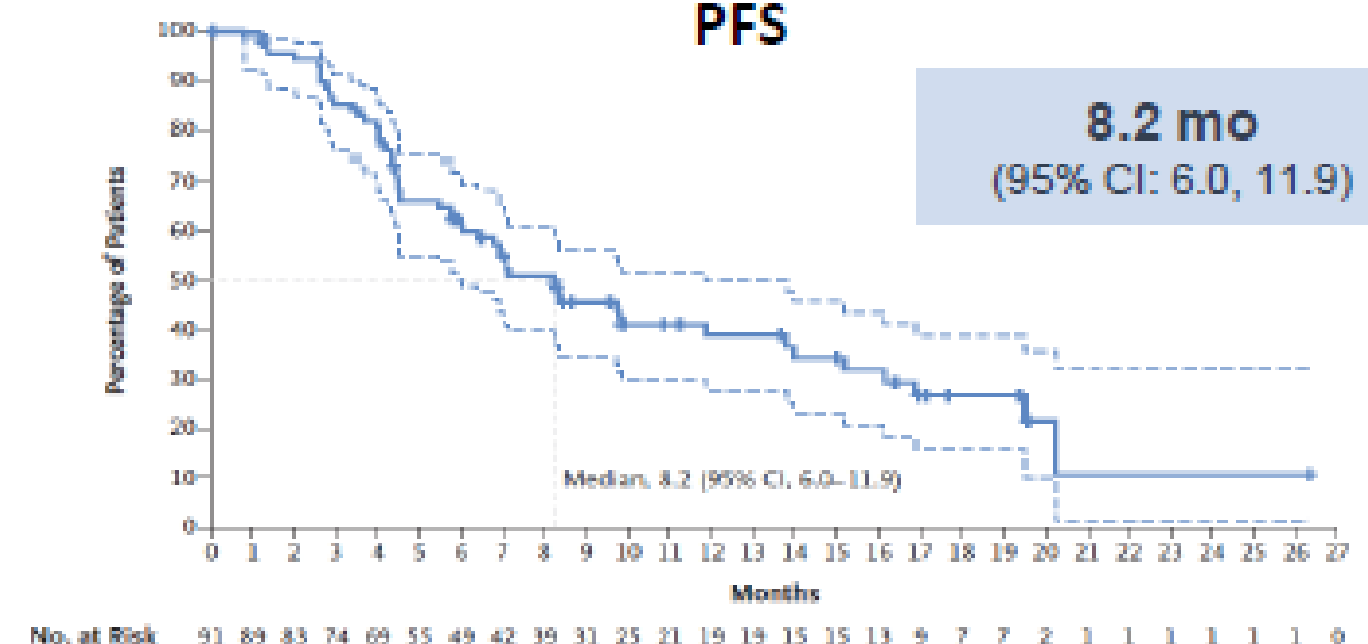
Efficacy of T-DXd in *HER2*-mutant NSCLC DESTINY-Lung01: Cohort 2



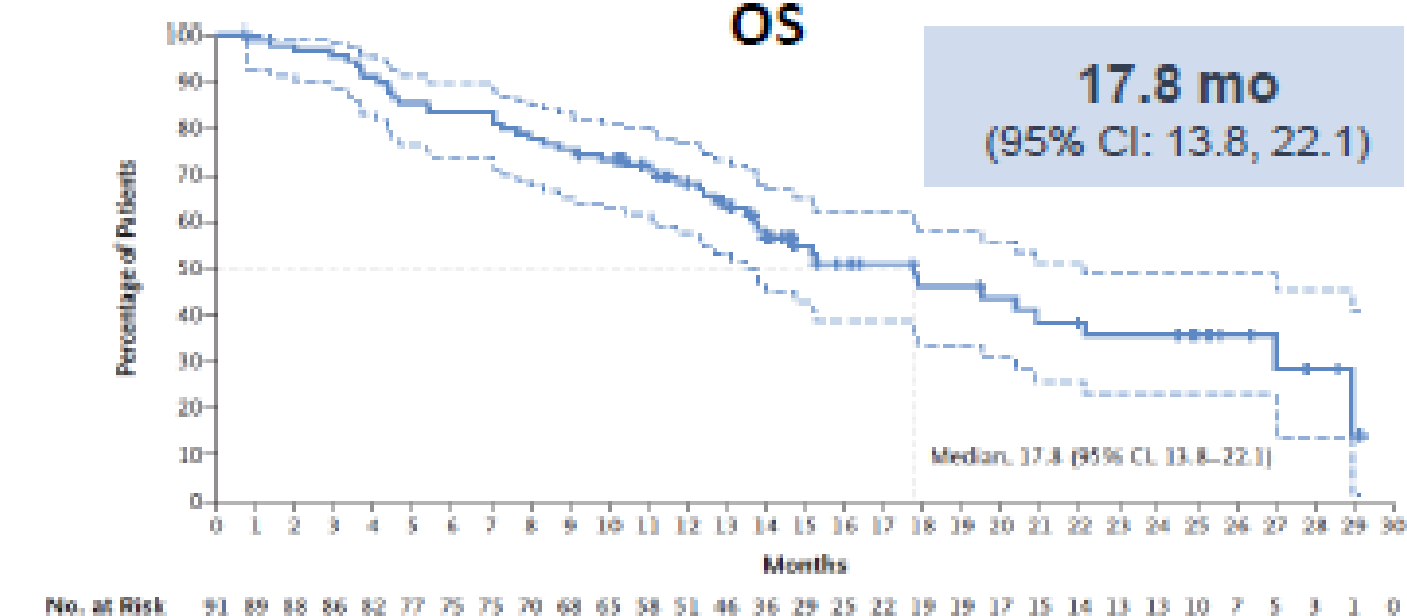
Best Percentage Change From Baseline in Sum of Diameters (n = 85)



PFS



OS

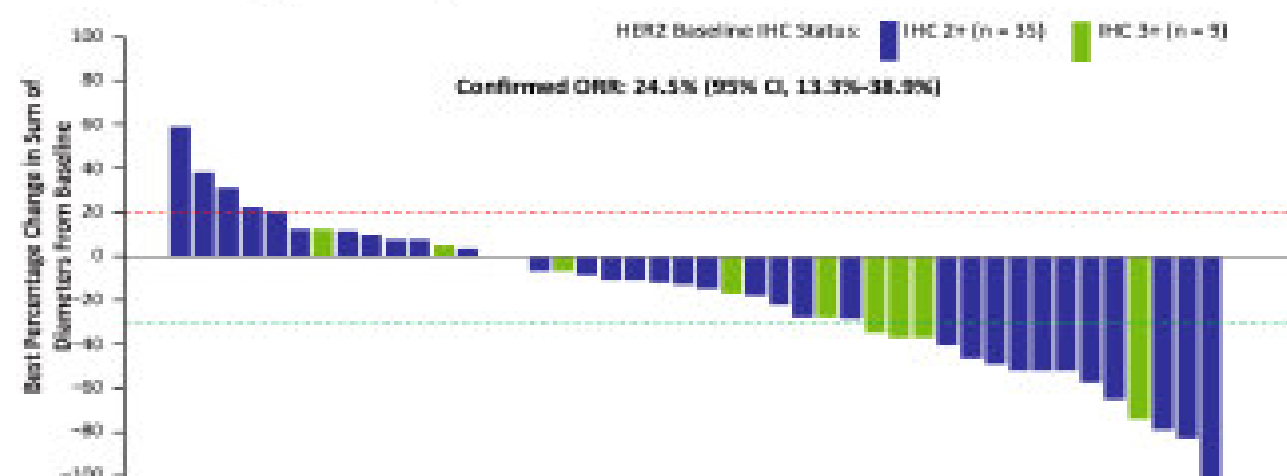


T-DXd 6.4 mg/kg showed durable anticancer activity with confirmed objective responses occurring in 55% of patients and a median DOR of 9.3 months

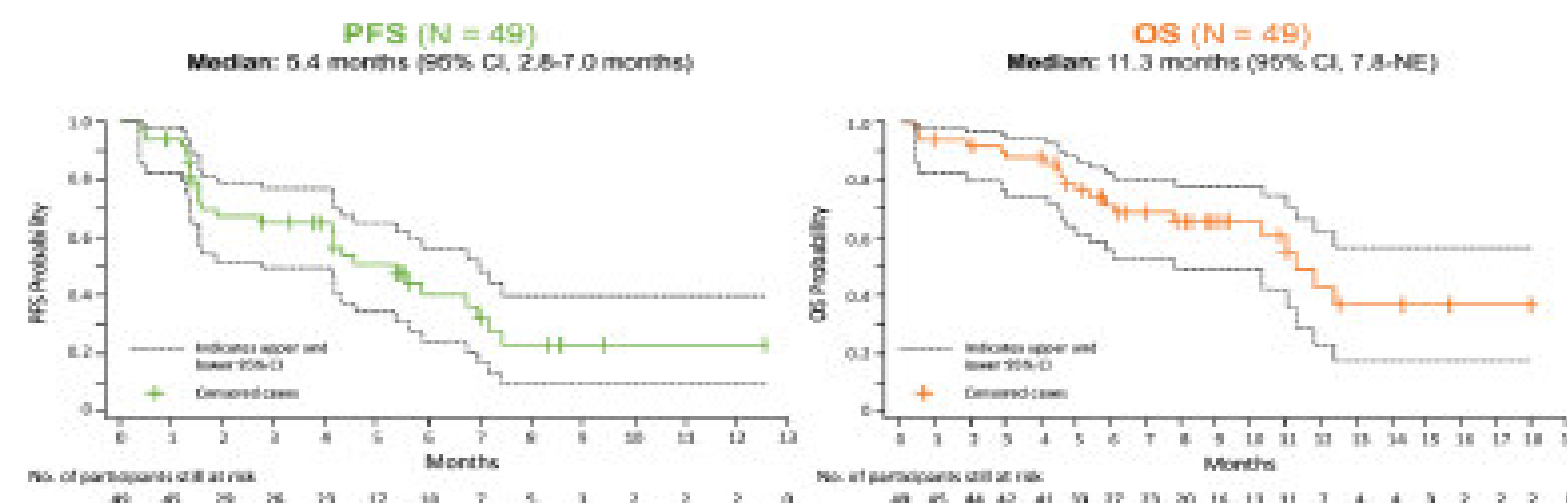
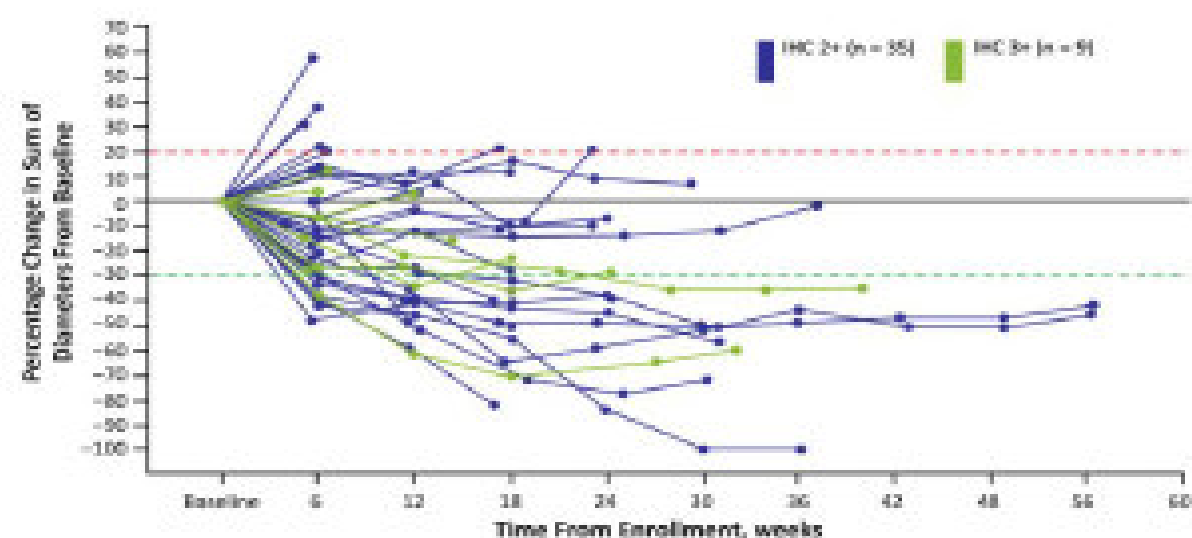
Efficacy of T-DXd in *HER2*-overexpressing NSCLC DESTINY-Lung01: Cohort 1



Best Percentage Change in Tumor Size With T-DXd



Change in Tumor Size Over Time With T-DXd



Key data

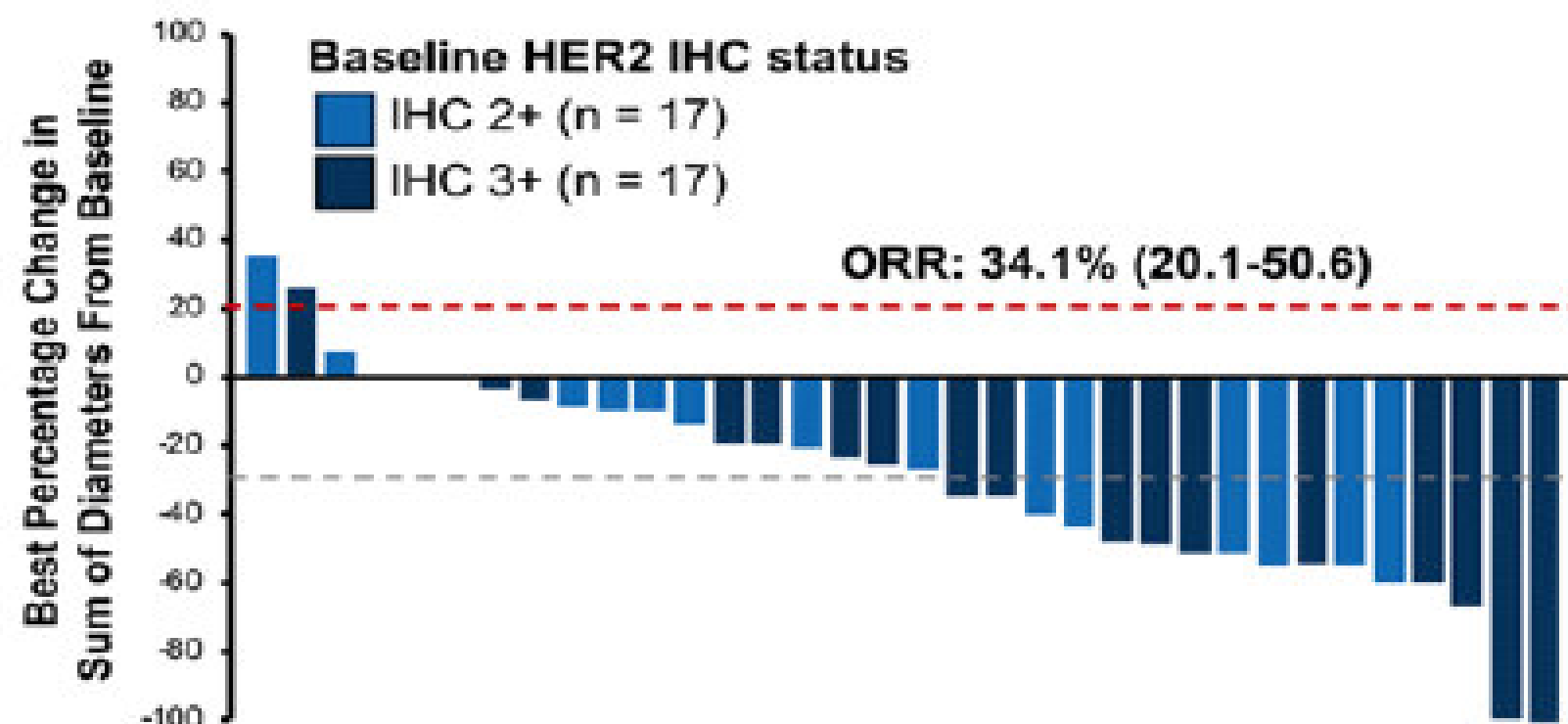
Extensively pretreated pts median of 3L of therapies (range, 1-8),

- ORR of 24.5%, with no apparent difference by HER2 expression (IHC 3+ vs 2+)
- DCR of 69.4%
- mPFS of 5.4 months
- mOS of 11.3 months
- ILD occurred in 16,3%

Efficacy of T-DXd in *HER2*-overexpressing NSCLC DESTINY-Lung01: Cohort 1



Cohort 1a
Trastuzumab Deruxtecan 5.4 mg/kg
(n = 41)



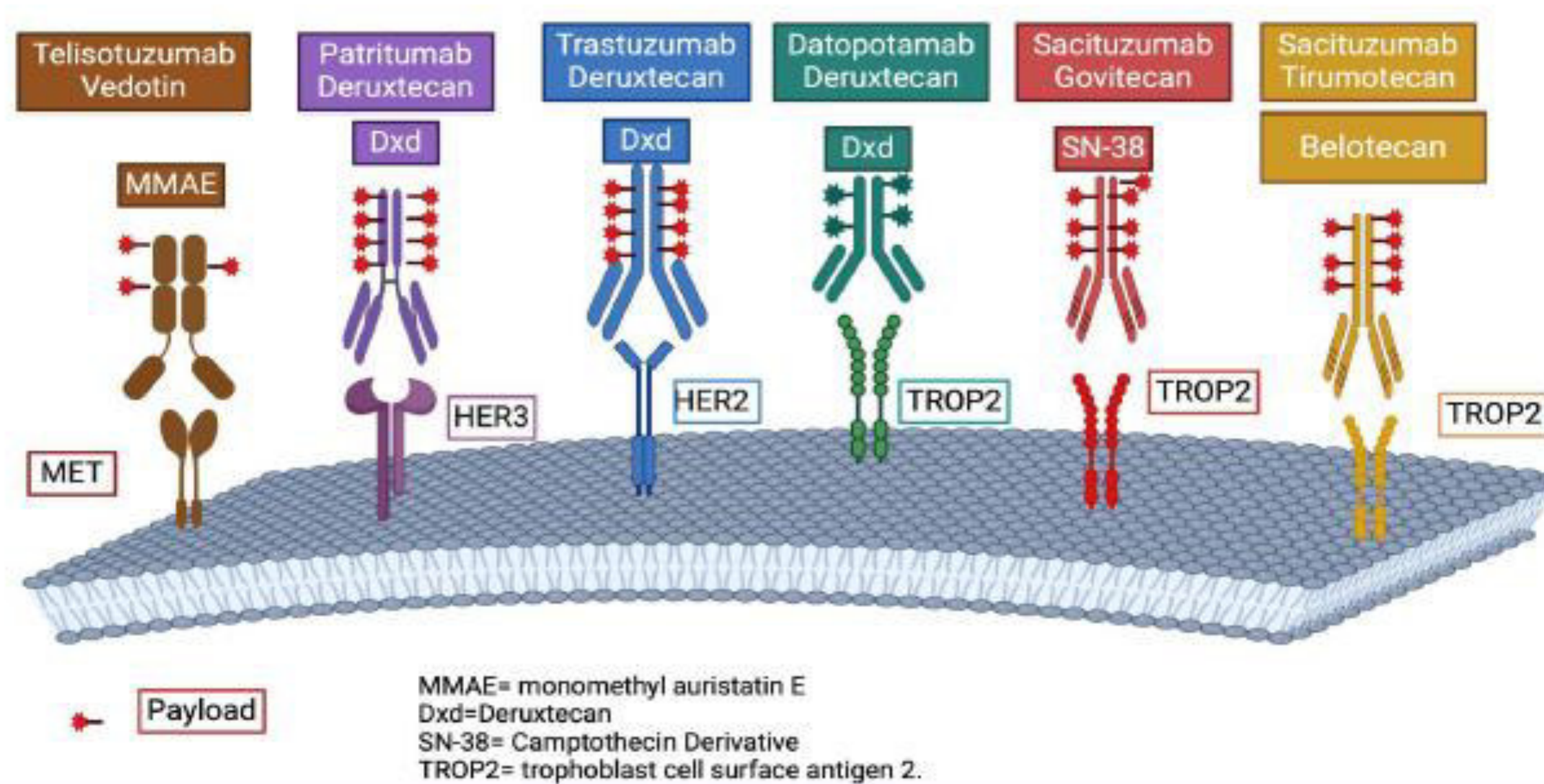
mPFS: 6.7 mo
(95% CI, 4.2-8.4)

HER2-positive IHC3+ NSCLC

Efficacy Parameter	DESTINY-Lung01 (Cohort 1a) (n = 17) ²
Confirmed ORR, % (95% CI)	52.9 (27.8-77.0)
CR	5.9
PR	47.1
mDOR, mo (range)	6.9 (4.0-11.7)

On April 5, 2024, T-DXd received accelerated approval for patients with unresectable or metastatic HER2-positive (IHC3+) solid tumors who have received prior systemic treatment and have no satisfactory alternative treatment options

Anatomy of an ADC: The target



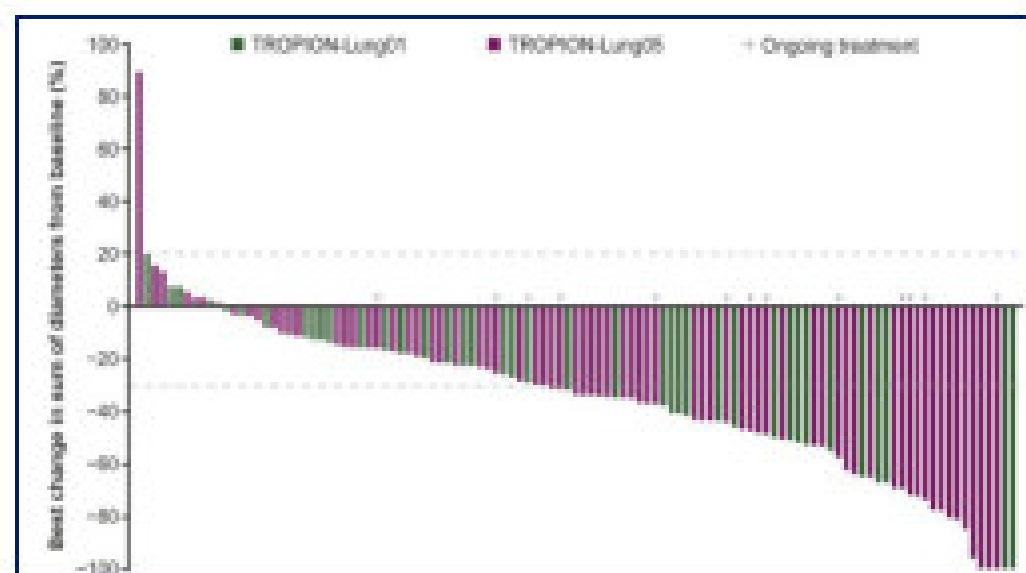
Biomarker –selected ADCs: Efficacy of the ADC is related to the level of expression of the biomarker, ie c-MET, HER2

Biomarker-agnostic ADCs: Efficacy of the ADC seems to be independent of the level of expression of the biomarker, ie TROP2, HER3

ADCS EFFECTIVE IN EGFR-MUTATED NSCLC TARGETING TROP-2 AND MET

Datopotamab-deruxtecan Target **Trop-2**

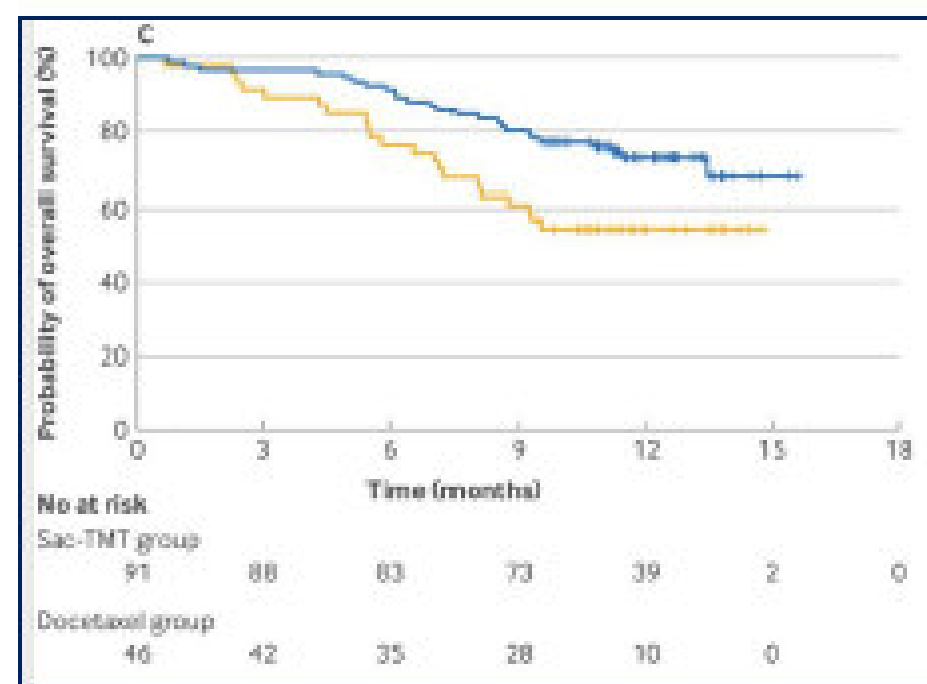
Pooled analysis from 2 phase II trials
of EGFRmut pts. post EGFR-TKI



ORR: 43%
PFS: 5.8m
OS: 15.6m

Sacituzumab-tirumotecan Target **Trop-2**

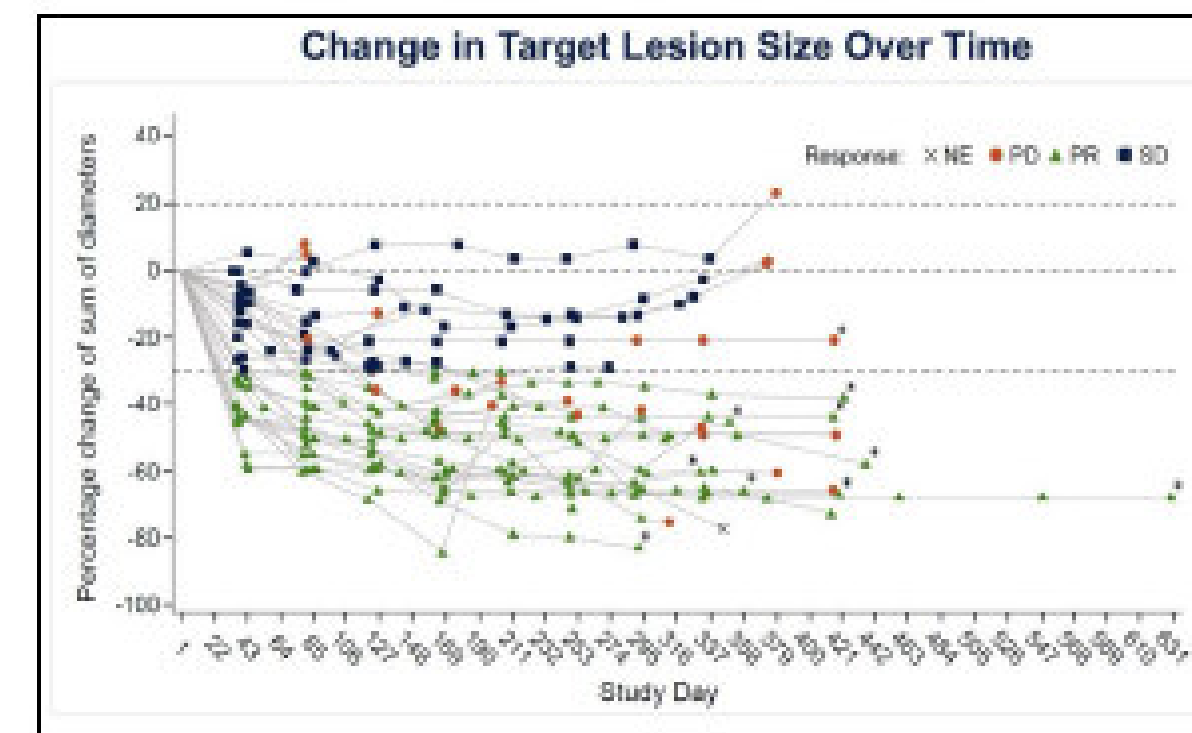
Phase III vs. docetaxel in
EGFRmut pts. 3L



ORR: 45% vs. 16%
PFS: 6.9m vs. 2.8m
12m OS: 73% vs. 54%

Telisotuzumab-adizutecan Target **MET**

Phase I in pretreated
EGFRmut pts



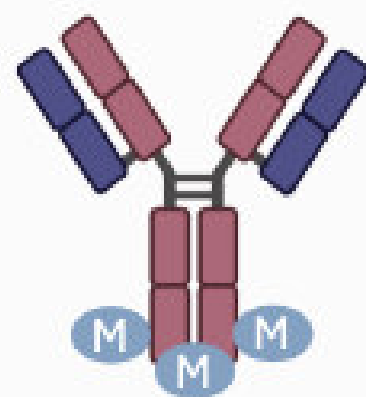
ORR: 63%
PFS: 10.0m
12m OS: 69%

Two ADCs for MET under investigation



Teliso-V

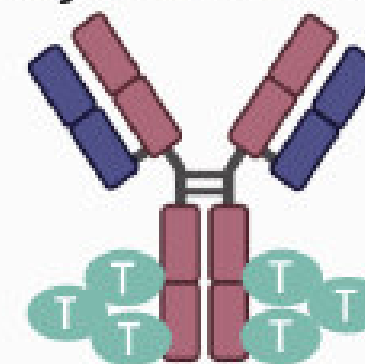
- Same base monoclonal antibody
- Payload: MMAE (Microtubulin inhibitor)
- c-MET target clinical validation



Phase 3 Clinical (FIH 2014)

ABBV-400

- Same base monoclonal antibody
- Payload: Topi (Topoisomerase 1 inhibitor (Top1i))
- Clinically validated mechanism



Phase 1 Clinical (FIH 2021)

MET targeted activity of franchise assets is not dependent on inhibition of MET signaling

EXPANDING THE ARMAMENTARIUM BEYOND TKIS



- **Next-generation TKIs**
→ deeper, more durable responses (e.g., lorlatinib, repotrectinib, zidesmatinib)



- **Antibody–drug conjugates (ADCs)**
→ *trastuzumab deruxtecan* (approved) – new agents in development targeting TROP2, MET and others



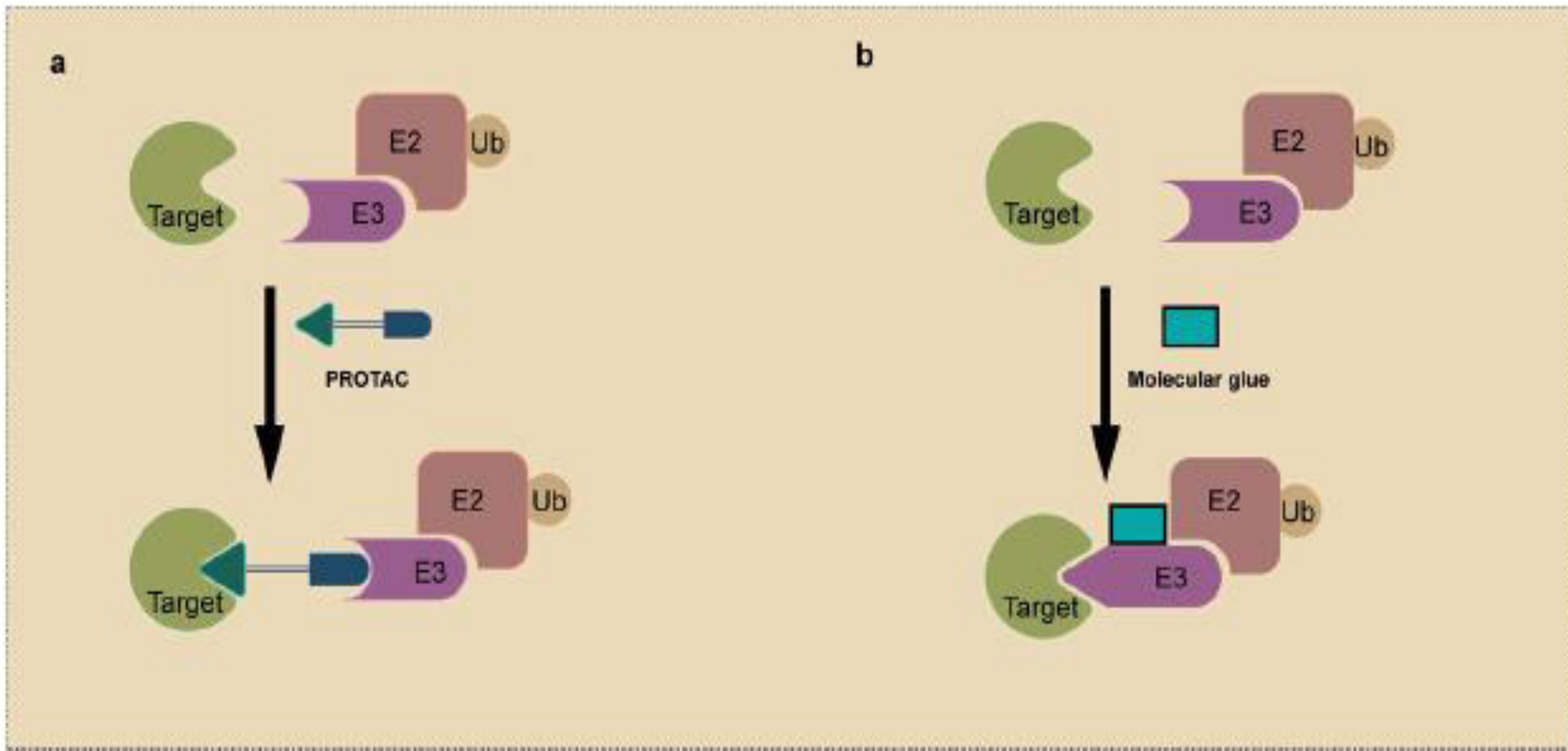
- **Bispecific antibodies**
→ *amivantamab* (EGFR/MET; approved), *ivonescimab* (PD-1/VEGF) – early promising results and others



- **Novel mechanisms**
→ MET degraders, PROTACS, SHP2 and SOS1 inhibitors, pan-KRAS inhibitors and others



- **Cell-based and immune approaches**
→ T-cell vaccines, CAR-T concepts in early testing



EXPANDING THE ARMAMENTARIUM BEYOND TKIS



- **Next-generation TKIs**
→ deeper, more durable responses (e.g., lorlatinib, repotrectinib, zidesmatinib)



- **Antibody–drug conjugates (ADCs)**
→ *trastuzumab deruxtecan* (approved) – new agents in development targeting TROP2, MET and others



- **Bispecific antibodies**
→ *amivantamab* (EGFR/MET; approved), *ivonescimab* (PD-1/VEGF) – early promising results and others



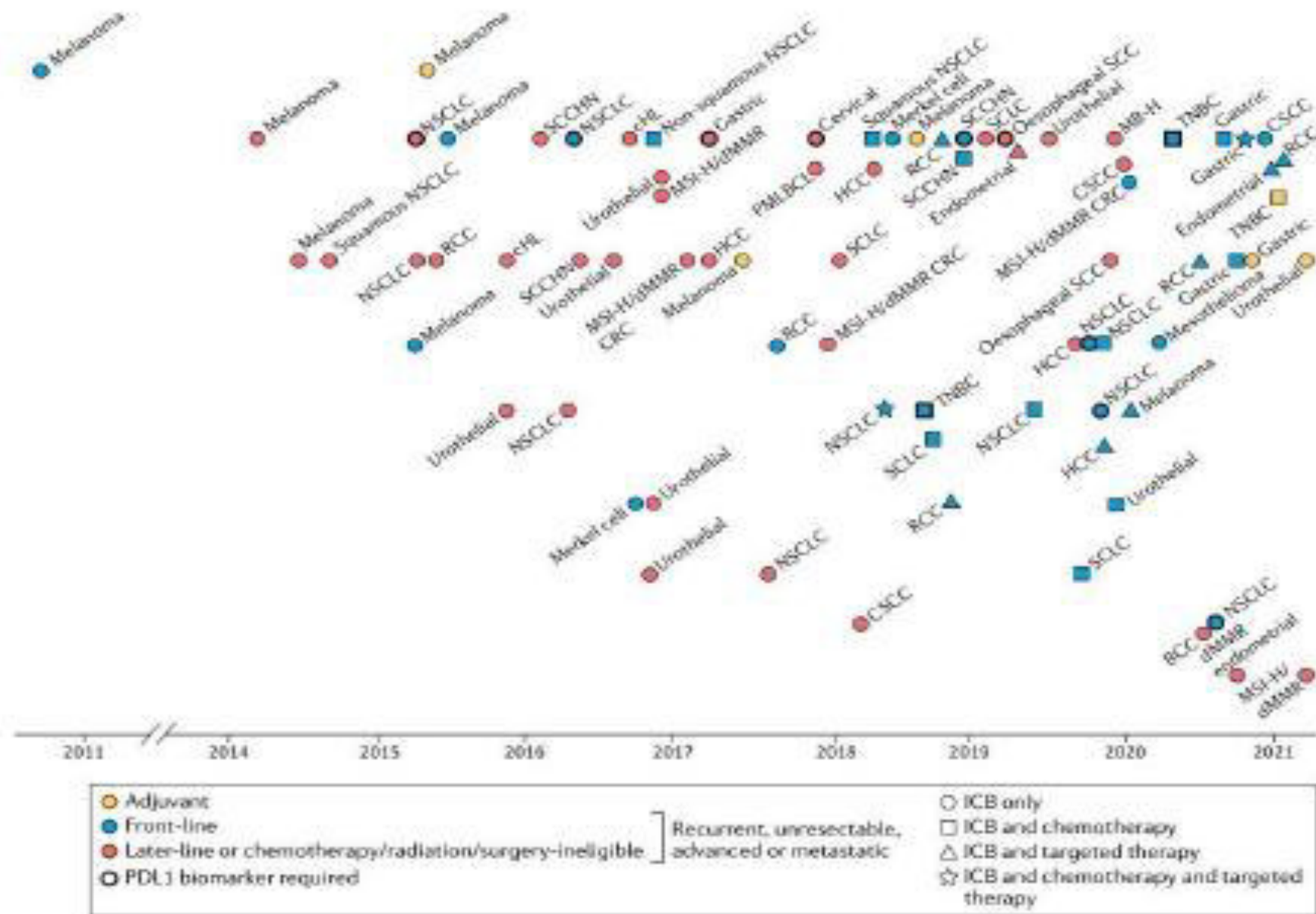
- **Novel mechanisms**
→ MET degraders, PROTACS, SHP2 and SOS1 inhibitors, pan-KRAS inhibitors and others



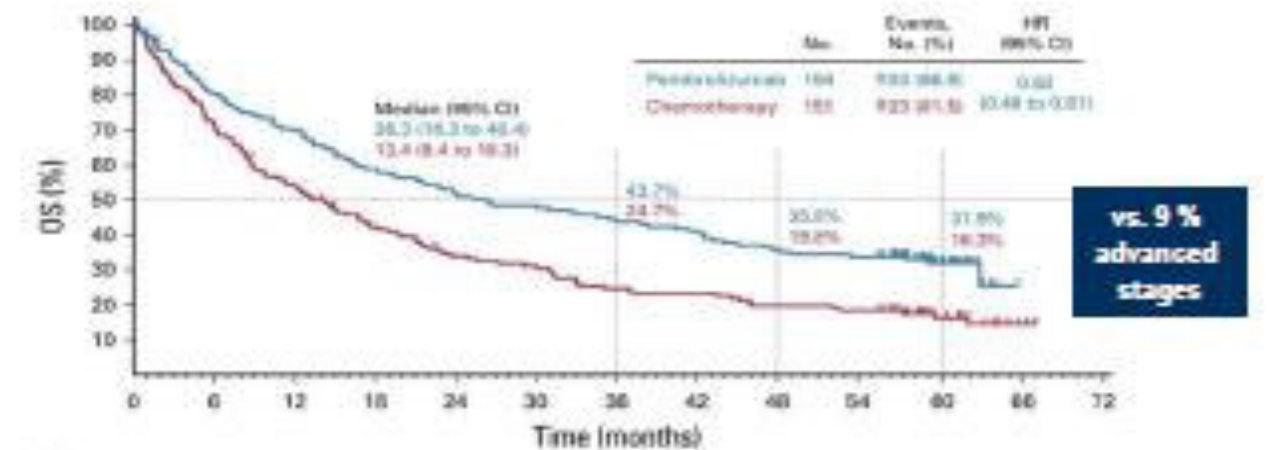
- **Cell-based and immune approaches**
→ T-cell vaccines, CAR-T concepts in early testing

Systemic therapy: Immunotherapy

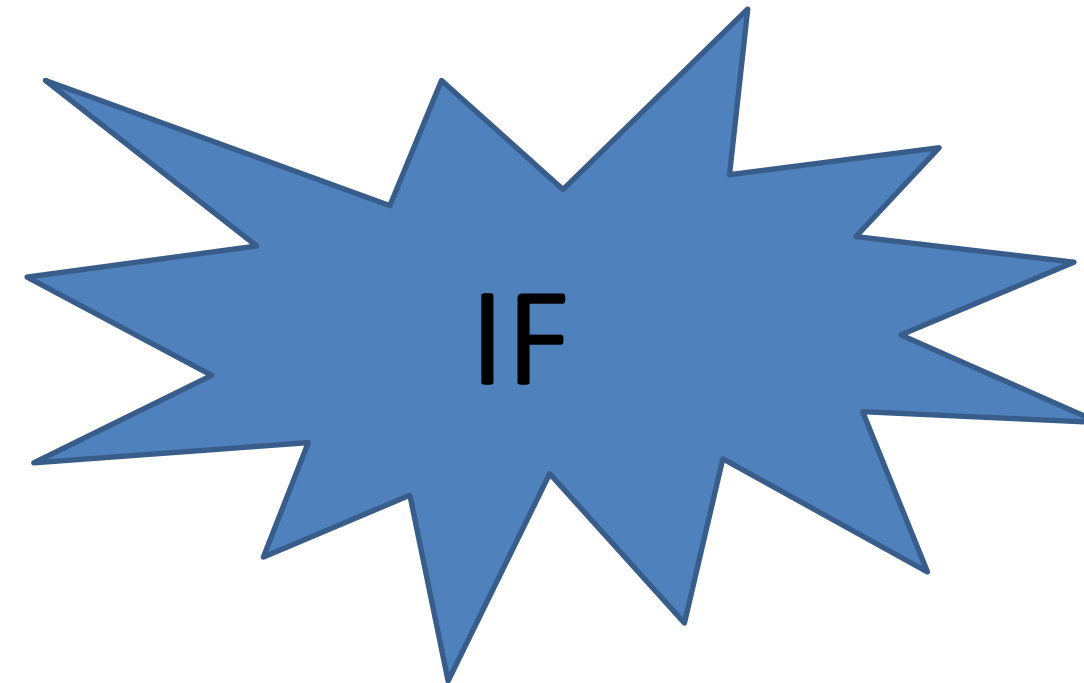
Immune Checkpoint Inhibitors, Clinical development



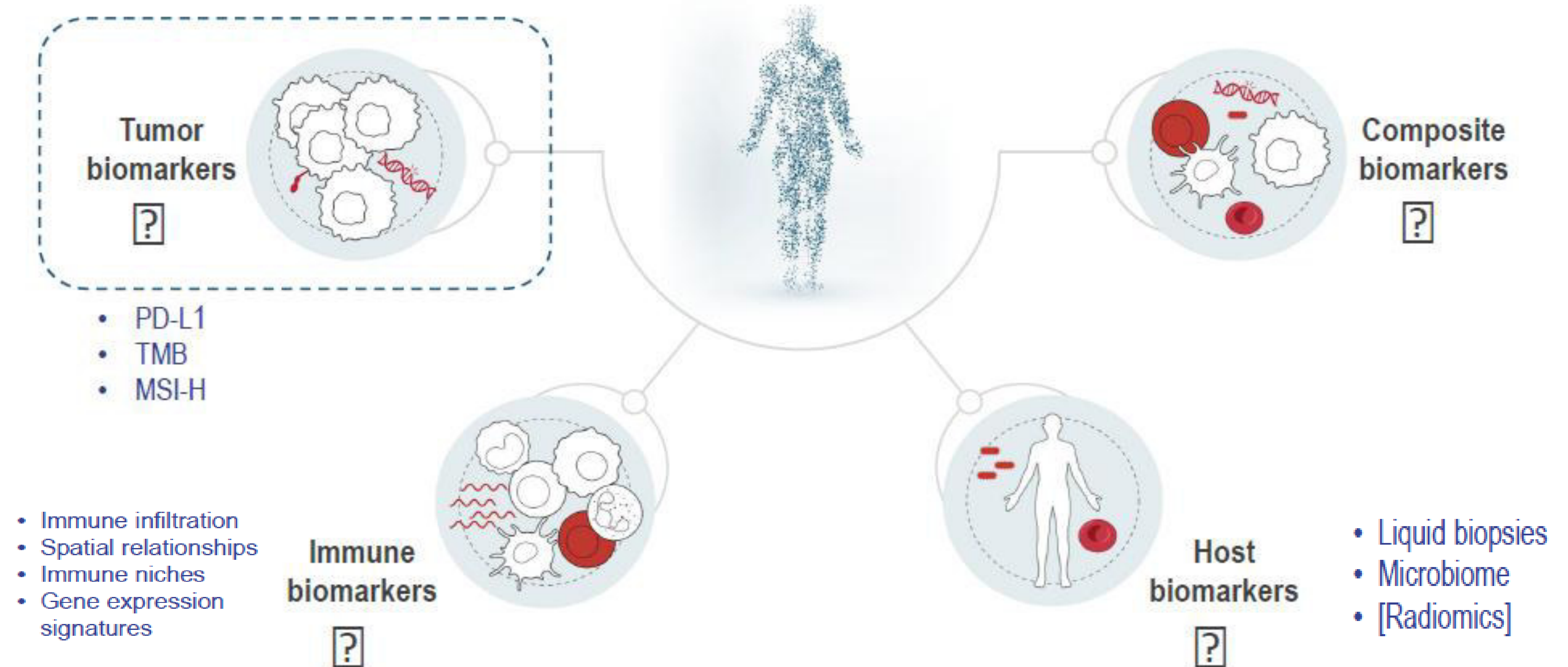
KEYNOTE 024, NSCLC, 5 years OS



RESPONCE TO IMMUNOTHERAPY

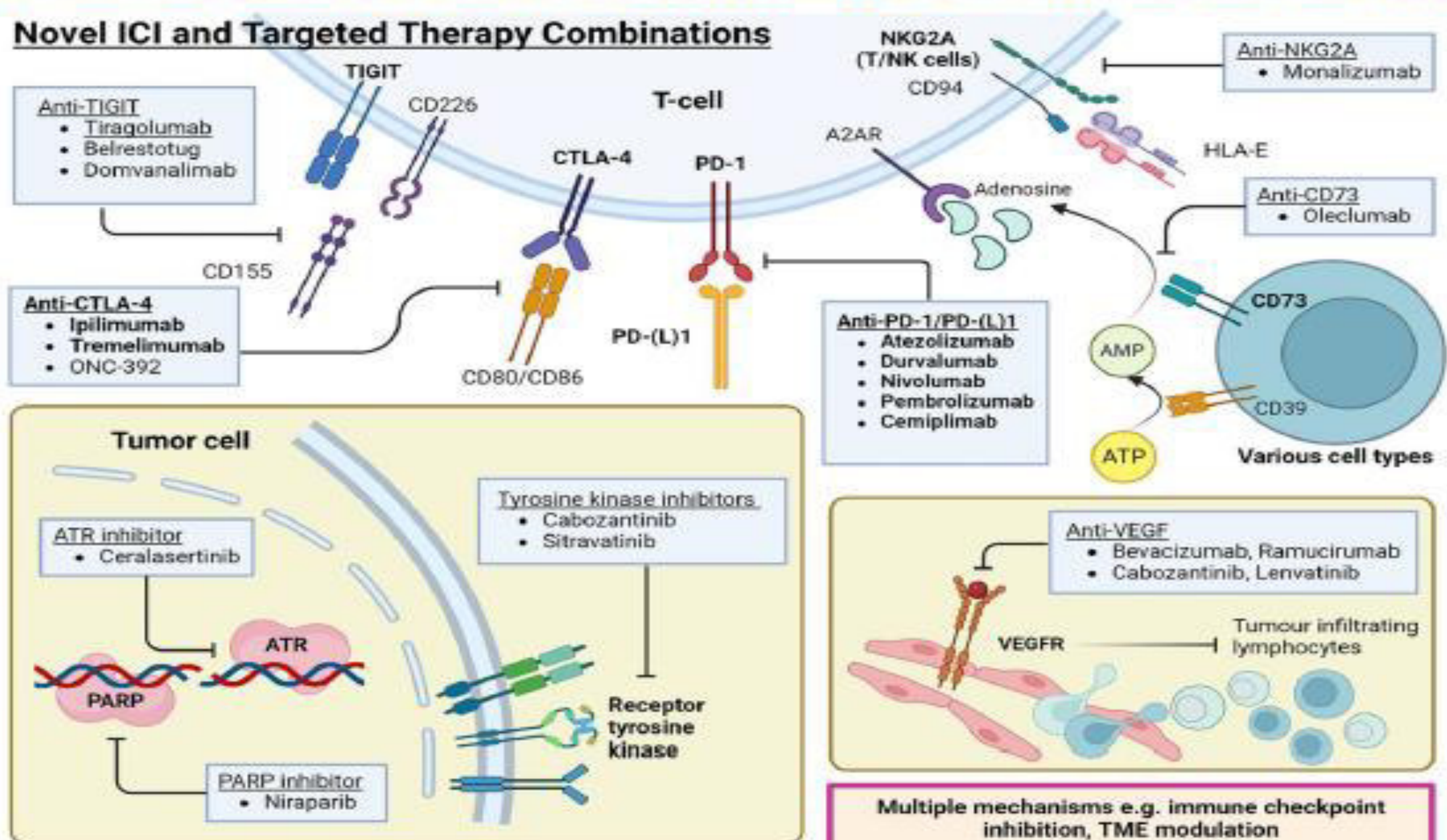


Overview of biomarker classes to predict CPI response

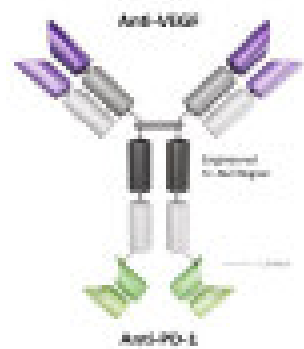


Multiple Approaches to enhance immunogenicity...

Novel ICI and Targeted Therapy Combinations



Ivonescimab in NSCLC: *Phase III trials*



Ivonescimab

EGFR pop
after TKI (2L)

HARMONI

2L+ NSQ NSCLC EGFRm+ after a 3rd Gen TKI

Ivonescimab + chemo
vs. placebo + chemo



No driver
NSCLC (1L)

HARMONI-2

1L SQ + NSQ NSCLC PD-L1 TPS ≥ 1%

Ivonescimab
vs. pembrolizumab

 Asian pop

HARMONI-A

2L+ NSQ NSCLC EGFRm+ after a TKI

Ivonescimab + chemo
vs. placebo + chemo

 Asian pop

HARMONI-3

1L NSCLC Squamous

Ivonescimab + chemo
vs. pembrolizumab + chemo

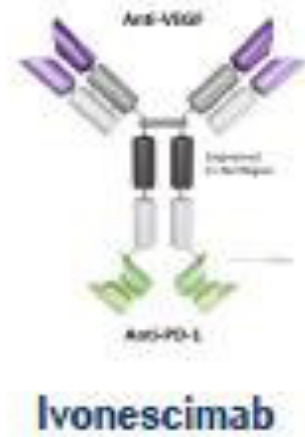


Combo
+
Chemo

Mono
therapy

Combo
+
Chemo

Ivonescimab in NSCLC: Phase III trials



EGFR pop
after TKI (2L)

HARMONI

2L+ NSQ NSCLC EGFRm+ after a 3rd Gen TKI

Ivonescimab + chemo
vs. placebo + chemo



HARMONI-A

Approved
in China

2L+ NSQ NSCLC EGFRm+ after a TKI

Ivonescimab + chemo
vs. placebo + chemo

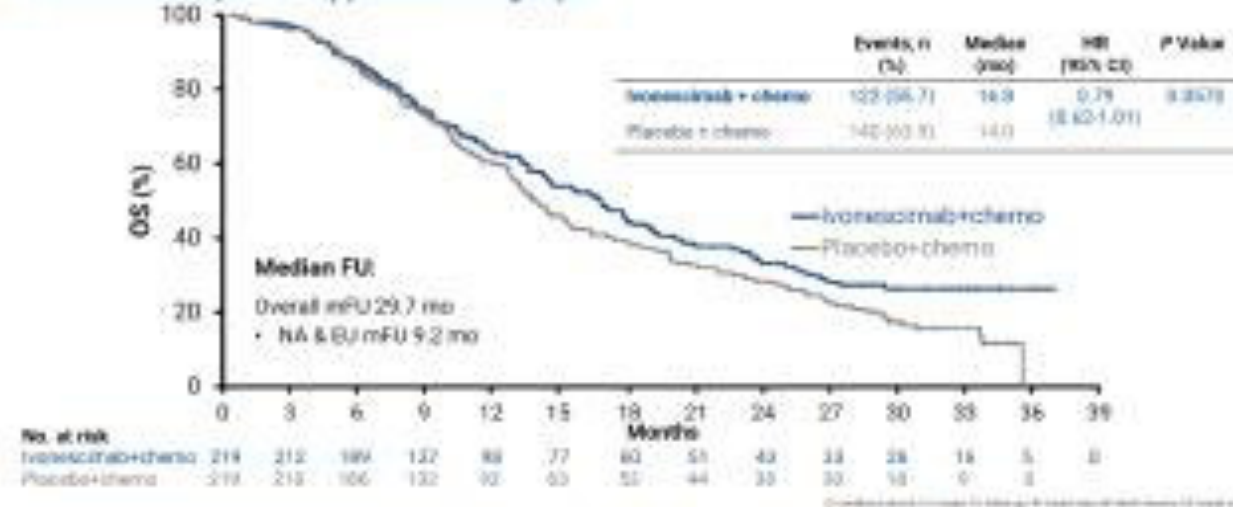


Asian pop

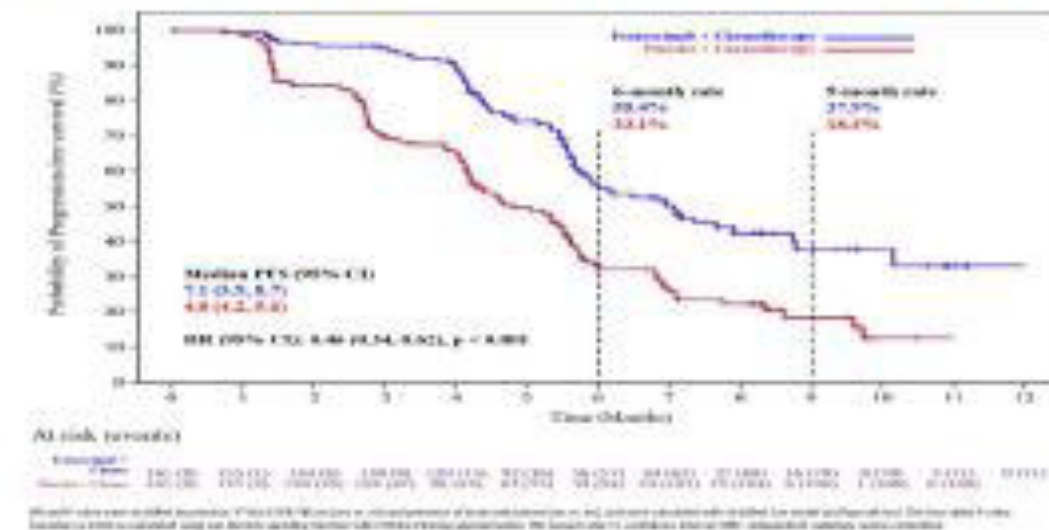
Combo
+
Chemo

Primary Endpoint: Overall Survival
Favorable Trend Observed; NA & EU Follow-up Not Yet Mature
No detrimental impact on any predefined subgroups

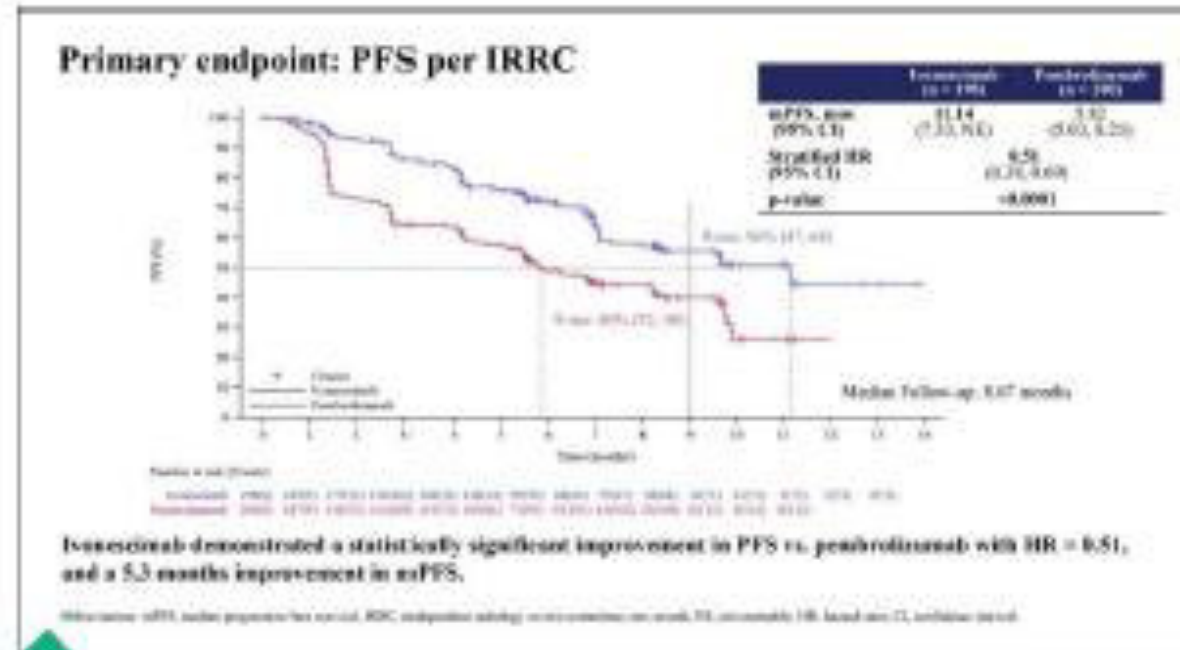
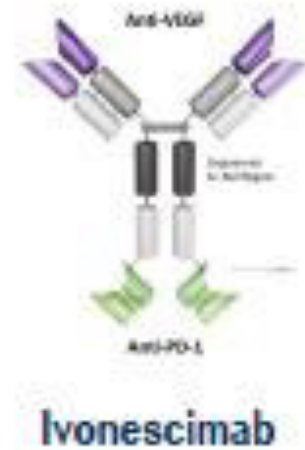
HARMONI



HARMONI-A: Study Met Primary Endpoint of PFS per IRRC



Ivonescimab in NSCLC: *Phase III trials*



No driver
NSCLC (1L)

HARMONI-2

1L SQ + NSQ NSCLC PD-L1 TPS ≥ 1%

Ivonescimab
vs. pembrolizumab



Asian pop

HARMONI-3

1L NSCLC Squamous

Ivonescimab + chemo
vs. pembrolizumab + chemo



Mono
therapy

Combo
+
Chemo

Presidential Symposium II

Date: Sat, 19.10.2025
Chair: Toni K. Choueiri (Boston, United States of America), Fabrice André (Paris, France)
Room: Berlin Auditorium - Hub 27
Time: 16:30 - 18:15

HARMONI-6

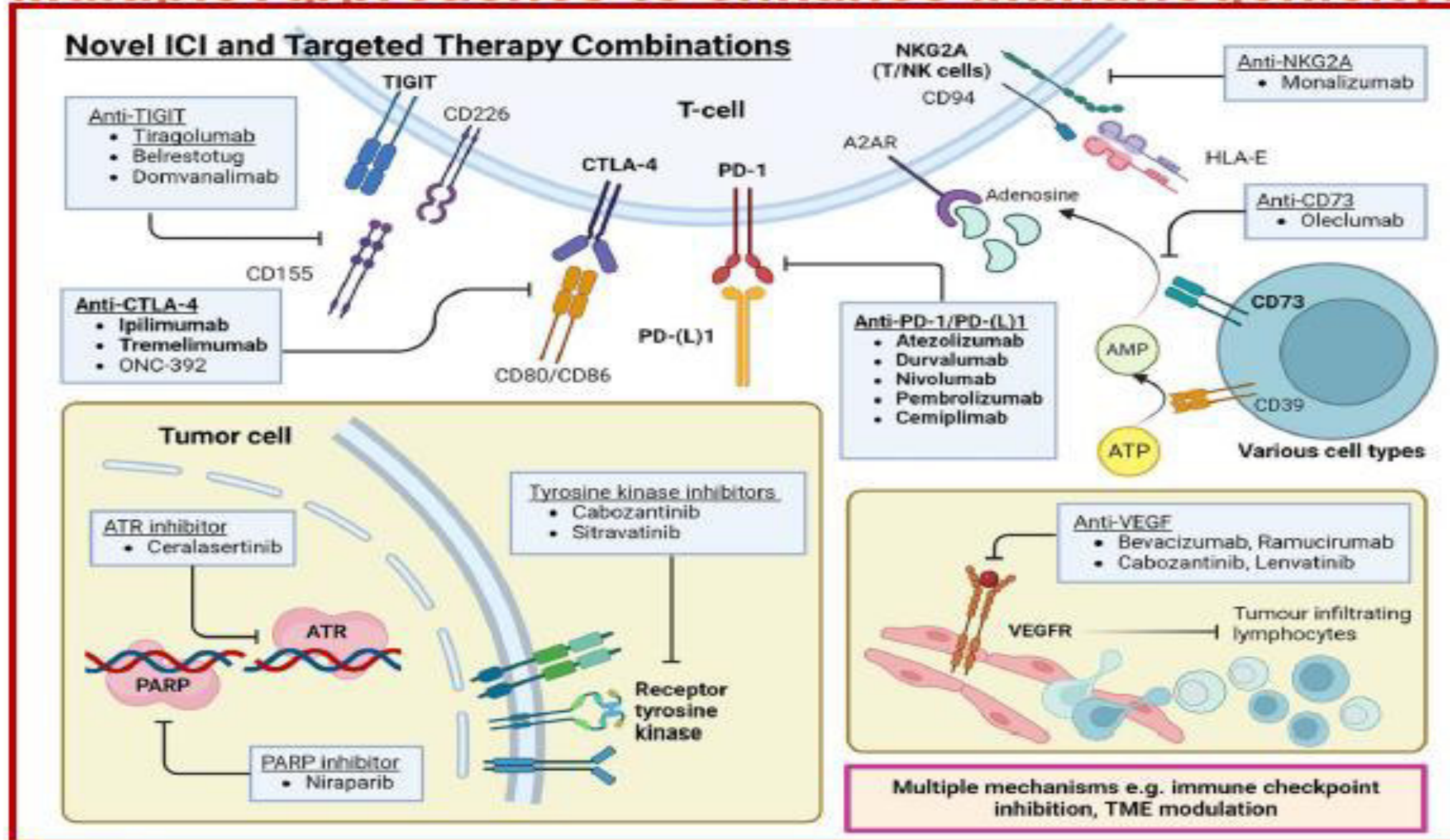
Asian pop

C. Presential Paper session

LBA4 - Phase III study of Ivonescimab plus chemotherapy versus tislelizumab plus chemotherapy as first-line treatment for advanced squamous non-small cell lung cancer (HARMONI-6)

Speakers: Shun Lu (Shanghai, China)
Authors: Shan Lu (Shanghai, China), Fang Yang (Hubei, China), Zhou Jiang (Chongqing, China), Longhua Sun (Beijing, China), Lin Wu (Chongqing, China), Zhengdong Han (Jiangsu, China), Yun Fan (Hangzhou, China), Yanggu Zhao (Shanghai, China), Wangyi Li (Shanghai, China), Heping Xu (Fuzhou, China), Xiangqiao Meng (Chen, China), Ying Cheng (Changshu, China), Zhiye Zhang (Jiuping, China), Zhiwei Chen (Shanghai, China), Hui Luo (Nanchang, China), Qin Shi (Fuzhou, China), Kaili Ma (Shanghai, China), Kuerhen Ma (Jingxi, China), Zhongmin Zhang (Jingxi, China), Yu Xia (Zhongshan, China)
Lecture Time: 16:30 - 16:42

Multiple Approaches to enhance immunogenicity...



NeoCOAST-2: Efficacy and Safety of Neoadjuvant Durvalumab (D) + Novel Anticancer Agents + CT and Adjuvant D ± Novel Agents in Resectable NSCLC

Tina Cascone,¹ Florian Guisier,² Laura Bonanno,^{3,4} Moishe Liberman,^{5,6} Olivier Bylicki,⁷ Amelia Insa,⁸ Lorenzo Livi,⁹ Romain Corre,¹⁰ Thomas Egenod,¹¹ Agata Bielska,¹² Alula Yohannes,¹³ Ray Mager,¹³ Yun He,¹² Adam Dowson,¹⁴ Lara McGrath,¹² Rakesh Kumar,¹³ Italia Grenga,¹² Jonathan Spicer,¹⁵ Patrick Forde¹⁶

¹Department of Thoracic/Head and Neck Medical Oncology, The University of Texas MD Anderson Cancer Center, Houston, TX, USA;

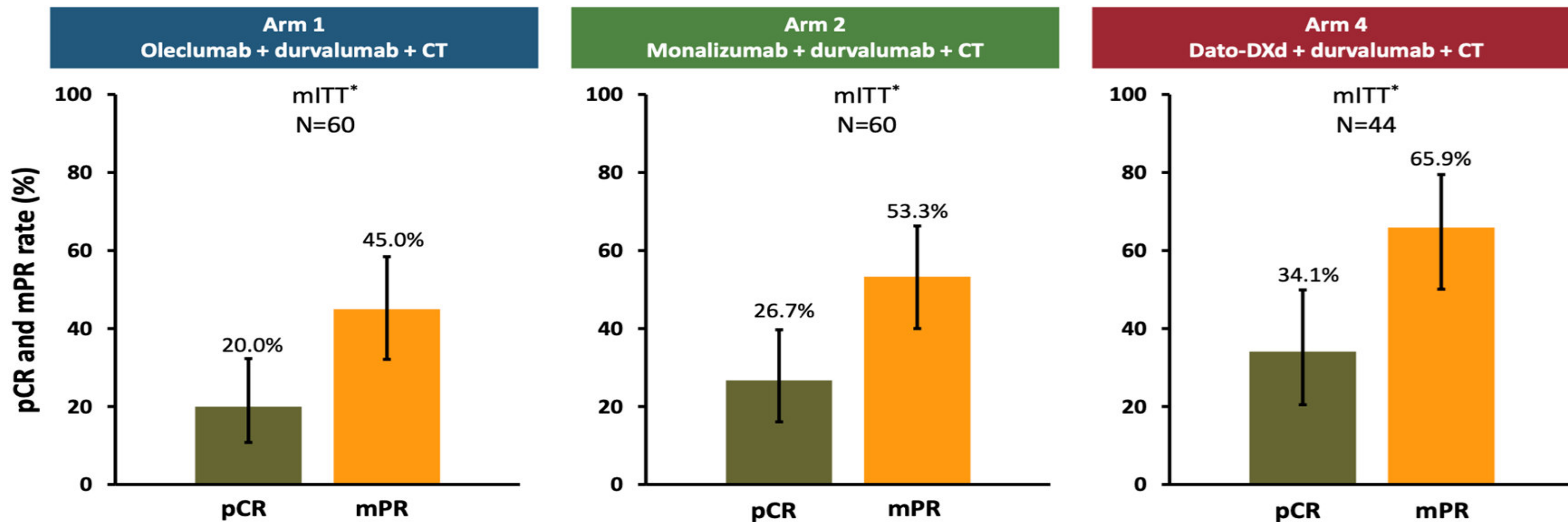
²Univ Rouen Normandie, LITIS Lab QuantIF team EA4108, CHU Rouen, Department of Pneumology and Inserm CIC-CRB 1404, F-76000 Rouen, France;

³Department of Surgery, Oncology and Gastroenterology, University of Padova, Italy; ⁴Medical Oncology 2, Istituto Oncologico Veneto IRCCS, Padova, Italy;

⁵Division of Thoracic Surgery, University of Montréal, Montréal, Québec, Canada; ⁶CETOC - CHUM Endoscopic Tracheobronchial and Oesophageal Center, Centre Hospitalier de l'Université de Montréal, Montréal, Québec, Canada; ⁷Respiratory Medicine Department, Hôpital d'Instruction des Armées Sainte-Anne, Toulon, France; ⁸Medical Oncology Department, Hospital Clínico Universitario de Valencia, 46010 Valencia, Spain; ⁹Department of Radiation Oncology, University of Florence, Florence, Italy; ¹⁰Department of Medical Oncology, CH de Cornouaille, Quimper, France; ¹¹Department of Thoracic Oncology, Dupuytren University Hospital, Limoges, France; ¹²AstraZeneca, Waltham, MA, USA; ¹³AstraZeneca, Gaithersburg, MD, USA; ¹⁴AstraZeneca, Cambridge, UK;

¹⁵Department of Thoracic Surgery, McGill University, Montréal, Québec, Canada; ¹⁶Bloomberg-Kimmel Institute for Cancer Immunotherapy, Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins University, Baltimore, MD, USA

NeoCOAST-2: pCR and mPR rates across treatment arms



EXPANDING THE ARMAMENTARIUM BEYOND TKIS



- **Next-generation TKIs**
→ deeper, more durable responses (e.g., lorlatinib, repotrectinib, zidesmatinib)



- **Antibody–drug conjugates (ADCs)**
→ *trastuzumab deruxtecan* (approved) – new agents in development targeting TROP2, MET and others



- **Bispecific antibodies**
→ *amivantamab* (EGFR/MET; approved), *ivonescimab* (PD-1/VEGF) – early promising results and others

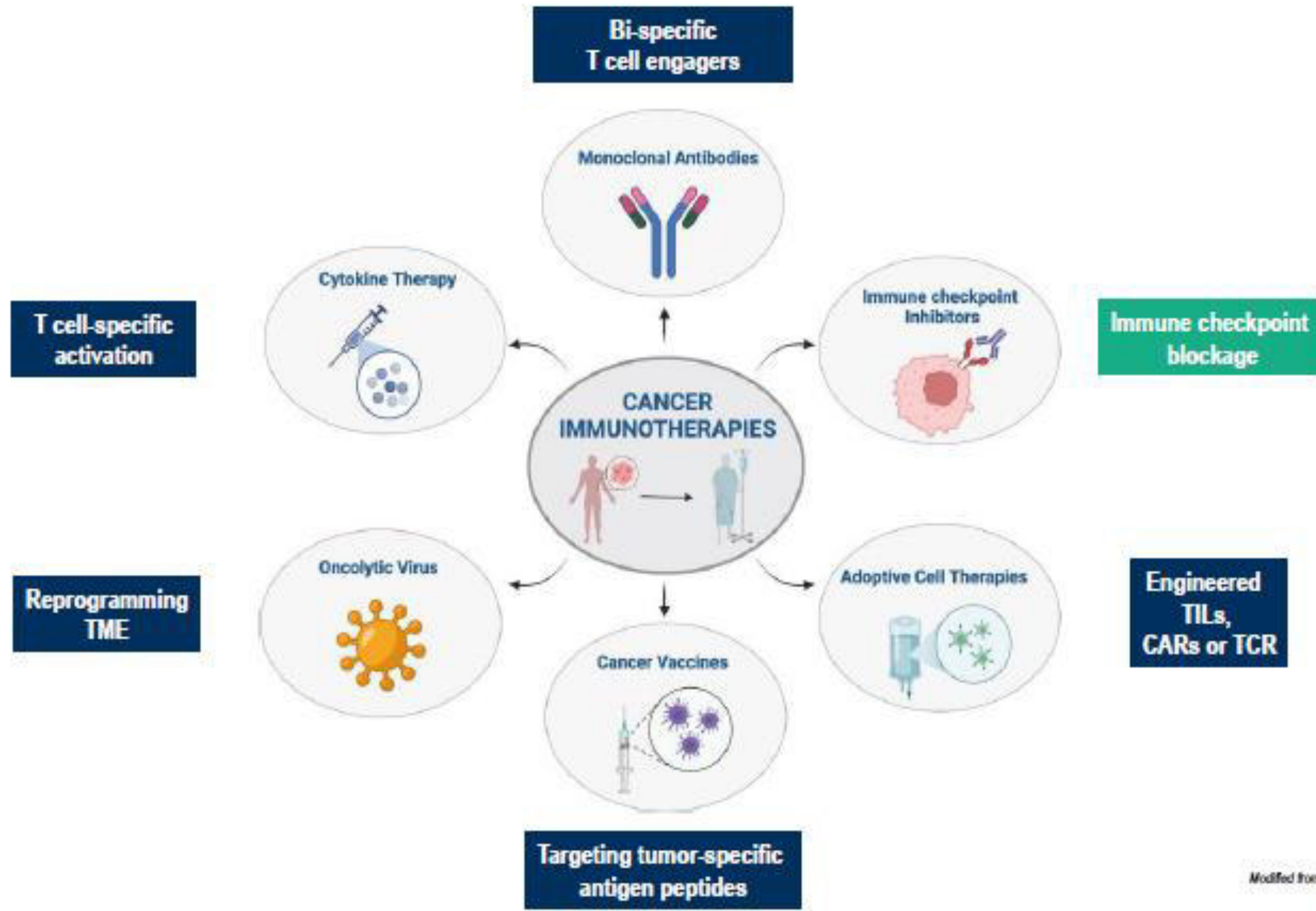


- **Novel mechanisms**
→ MET degraders, PROTACS, SHP2 and SOS1 inhibitors, pan-KRAS inhibitors and others



- **Cell-based and immune approaches**
→ T-cell vaccines, CAR-T concepts in early testing

Immuno-oncology 2.0: redefining targets & mechanisms

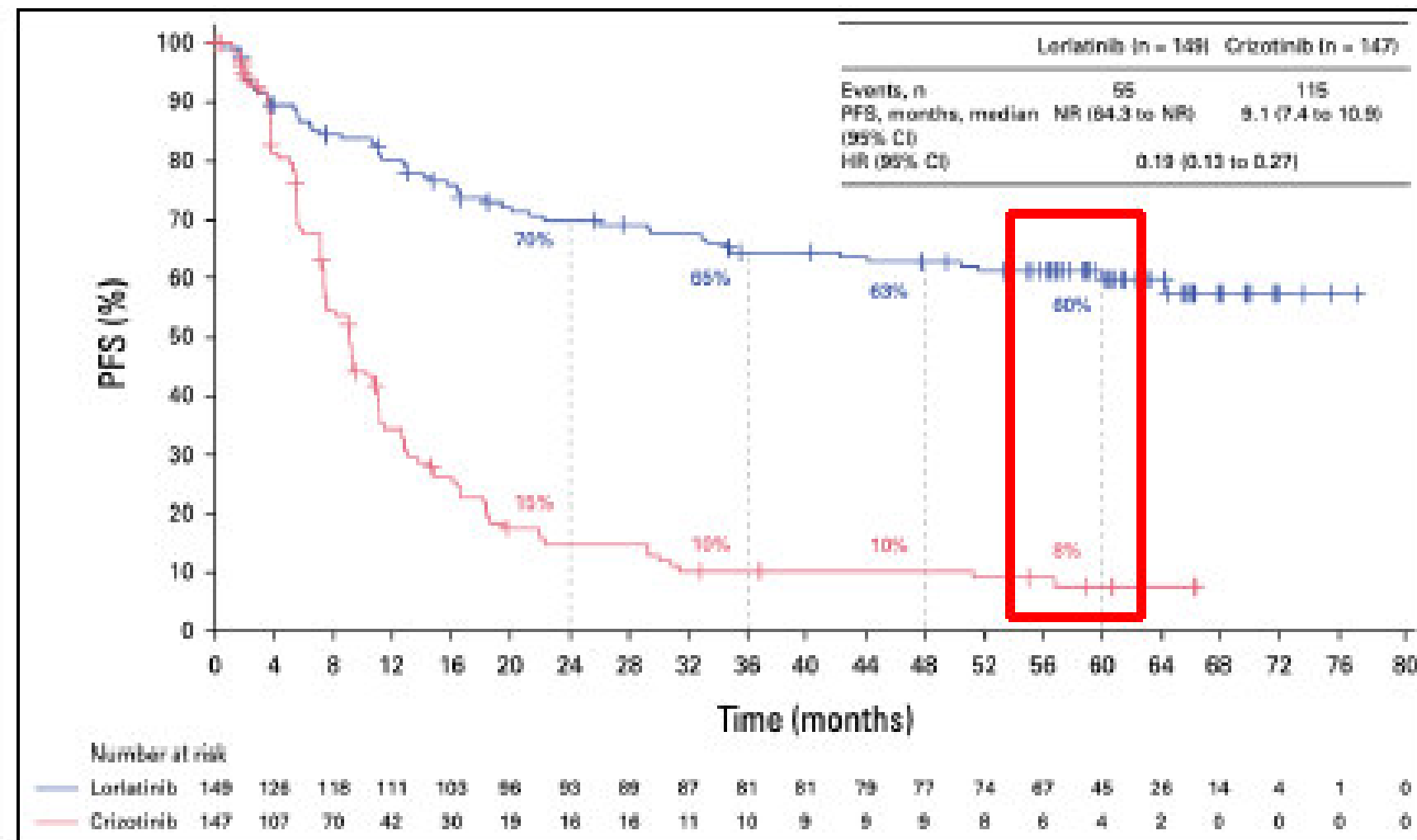




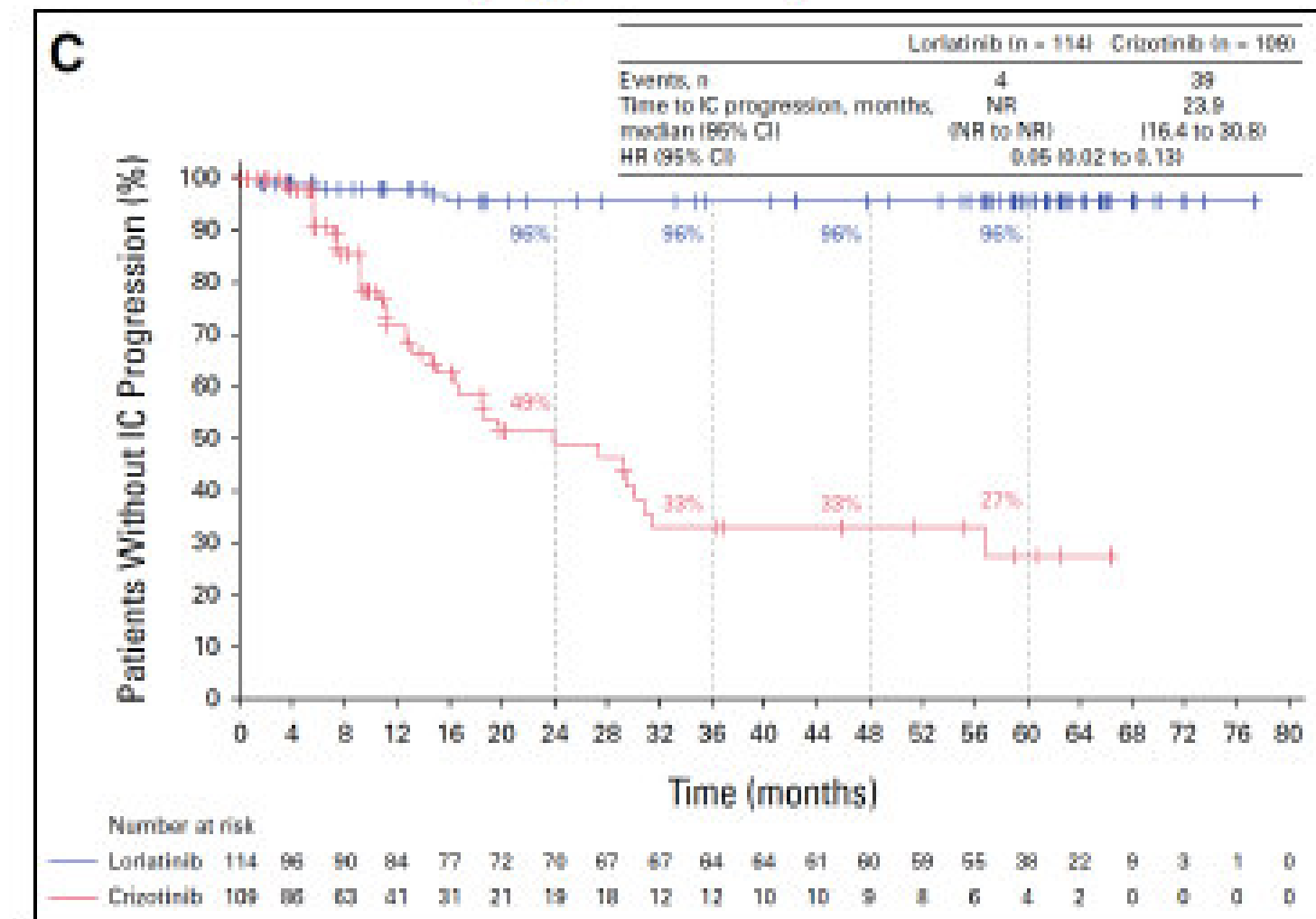
I have a Dream

ALK FUSIONS: SETTING THE BAR 2025

CROWN phase III trial – update (1l crizotinib vs. lorlatinib)



Time to CNS-progression in pts. w/o initial brain mets



- excellent CNS-efficacy

