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Letter from Prof Rolf Stahel



Dear Colleagues

It is my pleasure to present this ETOP slide set which has been designed to highlight and summarise key findings in thoracic cancers from the major congresses in 2025. This slide set specifically focuses on the **ESMO Congress 2025** and is available in 3 languages – English, Chinese and Japanese.

The area of clinical research in oncology is a challenging and continually changing environment. Within this environment we all value access to scientific data and research which helps to educate and inspire further advancements in our roles as scientists, clinicians and educators. I hope you find this review of the latest developments in thoracic cancers of benefit to you in your practice. If you would like to share your thoughts with us, we would welcome your comments. Please send any correspondence to etop@etop.eu-org.

I would like to thank our ETOP members Drs Enriqueta Felip, Solange Peters, Martin Reck and Egbert Smit for their roles as Editors – for prioritising abstracts and reviewing slide content. The slide set you see before you would not be possible without their commitment and hard work.

Finally, we are also very grateful to Lilly Oncology for their financial, administrative and logistical support in the realisation of this complex yet rewarding activity.

A handwritten signature in black ink, appearing to read 'R. Stahel'.

Yours sincerely,

Rolf Stahel

President, ETOP Foundation Council

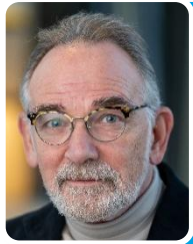
ETOP Medical Oncology Slide Deck Editors 2025



Focus: biomarkers (all stages)

Dr Enriqueta Felip

Oncology Department, Vall d'Hebron University Hospital, Barcelona, Spain



Focus: early and locally advanced NSCLC (stages I–III)

Dr Egbert Smit

Netherlands Cancer Institute, Antoni van Leeuwenhoek Hospital, Amsterdam, Netherlands



Focus: advanced NSCLC (not radically treatable stage III & stage IV)

Dr Solange Peters

Multidisciplinary Oncology Center, Lausanne Cancer Center, Lausanne, Switzerland



Focus: other malignancies, SCLC, mesothelioma, rare tumors

Dr Martin Reck

Department of Thoracic Oncology, Hospital Grosshansdorf, Grosshansdorf, Germany

Contents

- Early stage and locally advanced NSCLC – Stages I, II and III
- Advanced NSCLC – Not radically treatable stage III and stage IV
 - Immunotherapy
 - Targeted therapies
 - ADCs and other therapies
- Other malignancies
 - SCLC, mesothelioma and thymic epithelial tumors

Early stage and locally advanced NSCLC – Stages I, II and III

LBA65: Neoadjuvant durvalumab (D) + chemotherapy (CT) followed by either surgery (Sx) and adjuvant D or CRT and consolidation D in patients (pts) with resectable or borderline resectable stage IIB–IIIB NSCLC: interim analysis (IA) of the phase 2 MDT-BRIDGE study – Reck M, et al

• Study objective

- To evaluate the interim efficacy and safety of neoadjuvant durvalumab + chemotherapy followed by either surgery + adjuvant durvalumab or chemoradiotherapy + consolidation durvalumab in patients with resectable or borderline resectable stage IIB–IIIB NSCLC in the phase 2 MDT-BRIDGE study

Key patient inclusion criteria

- Stage IIB–IIIB resectable or borderline resectable NSCLC
- EGFR and ALK wild type
- WHO/ECOG PS 0–1 (n=131)

MDT assessment before and after the first neoadjuvant period

Neoadjuvant durvalumab + chemotherapy*
q3w for 2 cycles

Resectable

Neoadjuvant durvalumab + chemotherapy* q3w for 1–2 cycles

Surgery
(n=72)

Unresectable

Chemoradiotherapy†
(n=12)

Adjuvant/consolidation durvalumab
q4w (12 cycles)
(n=84)

Primary endpoints

- Resection rate (in patients who had definitive surgery)

Secondary endpoints

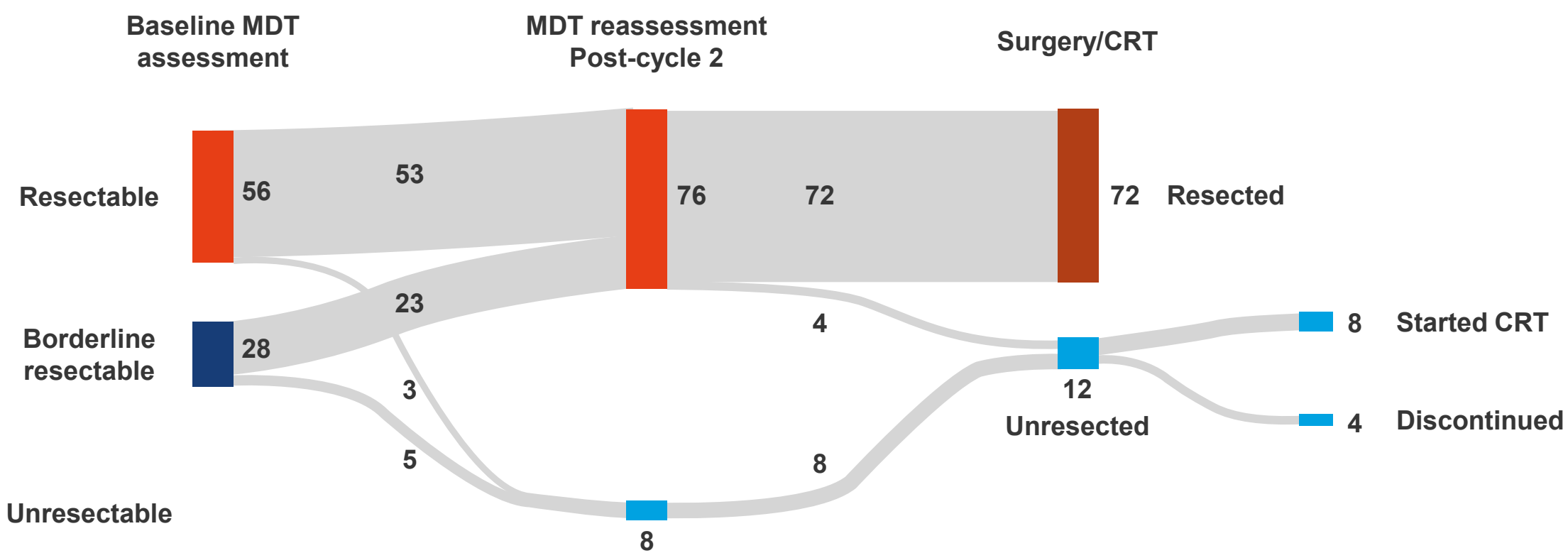
- Resection rate (all patients), surgical outcomes, ORR, pCR, safety

*Investigator's choice platinum-based. †60 Gy ±10% (five fractions/week for 6 weeks).

LBA65: Neoadjuvant durvalumab (D) + chemotherapy (CT) followed by either surgery (Sx) and adjuvant D or CRT and consolidation D in patients (pts) with resectable or borderline resectable stage IIB–IIIB NSCLC: interim analysis (IA) of the phase 2 MDT-BRIDGE study – Reck M, et al

- Key results (cont.)

Change in resectability and local treatment received



LBA65: Neoadjuvant durvalumab (D) + chemotherapy (CT) followed by either surgery (Sx) and adjuvant D or CRT and consolidation D in patients (pts) with resectable or borderline resectable stage IIB–IIIB NSCLC: interim analysis (IA) of the phase 2 MDT-BRIDGE study – Reck M, et al

- Key results

Resection rates and outcomes*

	All patients (n=84)	Baseline resectable (n=56)	Baseline borderline resectable (n=28)
Resection rate, % (95%CI)	85.7 (76.4, 92.4)	92.9 (82.7, 98.0)	71.4 (51.3, 86.8)
Resection outcomes, n	72	52	20
R0, % (95%CI)	94.4 (86.4, 98.5)	98.1 (89.7, 100)	85.0 (62.1, 96.8)
R1, % (95%CI)	1.4 (0, 7.5)	1.9 (0, 10.3)	0 (0, 16.8)
R2, % (95%CI)	1.4 (0, 7.5)	0 (0, 6.8)	5.0 (0.1, 24.9)
NE or missing, % (95%CI)	2.8 (0.3, 9.7)	0 (0, 6.8)	10.0 (1.2, 31.7)

- pCR rate was 27.6% in the efficacy subset (76 resectable patients after neoadjuvant therapy)

ORR pre-surgery or pre-chemoradiotherapy

	Patients resectable after neoadjuvant therapy (n=76)	Patients unresectable after neoadjuvant therapy (n=8)
ORR, % (95%CI)	60.5 (48.6, 71.6)	12.5 (0.3, 52.7)
Response, %		
PR	60.5	12.5
SD	30.3	75.0
PD or death	1.3	0
NE	7.9	12.5

*One patient did not complete surgical resection as intended.

LBA65: Neoadjuvant durvalumab (D) + chemotherapy (CT) followed by either surgery (Sx) and adjuvant D or CRT and consolidation D in patients (pts) with resectable or borderline resectable stage IIB–IIIB NSCLC: interim analysis (IA) of the phase 2 MDT-BRIDGE study – Reck M, et al

• **Key results (cont.)**

AEs, n (%)	All patients (n=131)
Any grade, all-cause	120 (91.6)
Grade ≤3–4	45 (34.4)
Serious	28 (21.4)
Led to death	2 (1.5)
Led to durvalumab discontinuation	8 (6.1)
Any grade, immune-mediated	15 (11.5)
Pneumonitis	2 (1.5)

AEs, n (%) (cont'd)	All patients (n=131)
Any grade, possibly related to study treatment	108 (82.4)
Grade ≤3–4	33 (25.2)
Serious	13 (9.9)
Led to death	1 (0.8)

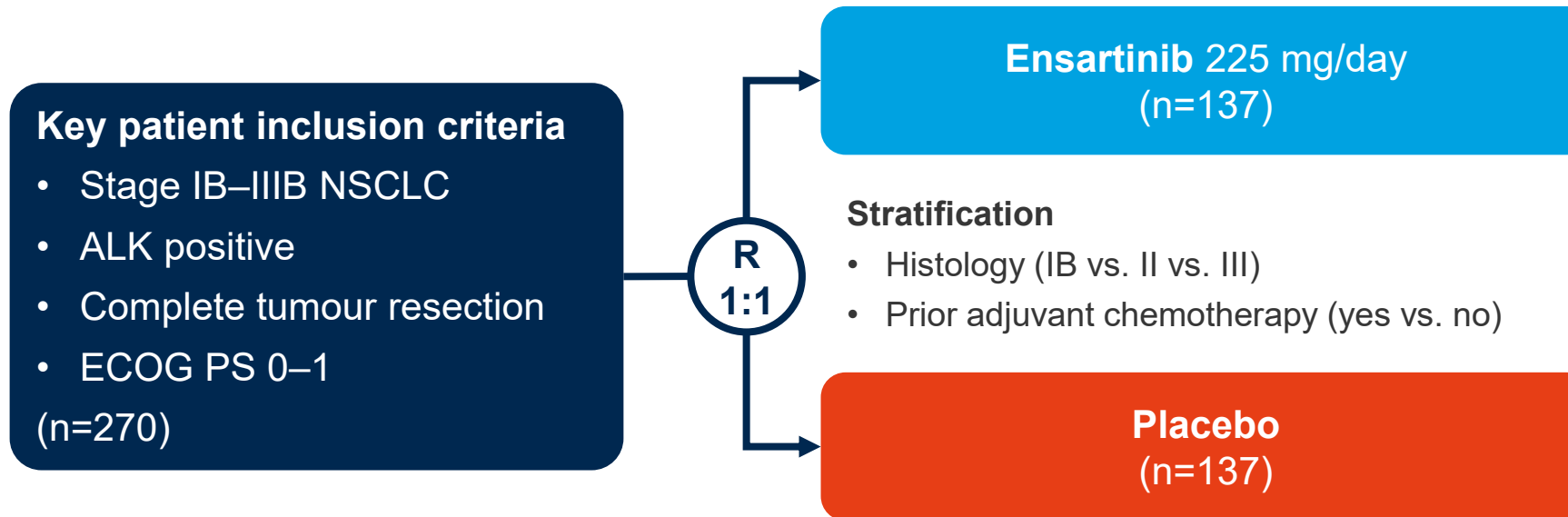
• **Conclusions**

- In patients with resectable or borderline resectable stage IIB–IIIB NSCLC, neoadjuvant durvalumab + chemotherapy enabled high resection rates and maintained chemoradiotherapy eligibility without introducing new safety concerns
- Longer follow-up and a larger sample size are needed to evaluate feasibility, safety and efficacy of the strategy in patients with borderline resectable NSCLC

LBA66: Ensartinib as adjuvant therapy in patients (pts) with stage IB–IIIB ALK-positive (ALK+) non-small cell lung cancer (NSCLC) after complete tumor resection: the phase III randomized ELEVATE trial – Yue D, et al

- **Study objective**

- To evaluate the efficacy and safety of adjuvant ensartinib in patients with stage IB–IIIB ALK-positive NSCLC after complete tumor resection in the phase 3 ELEVATE study



Primary endpoints

- DFS in stage II–IIIB (investigator assessed)

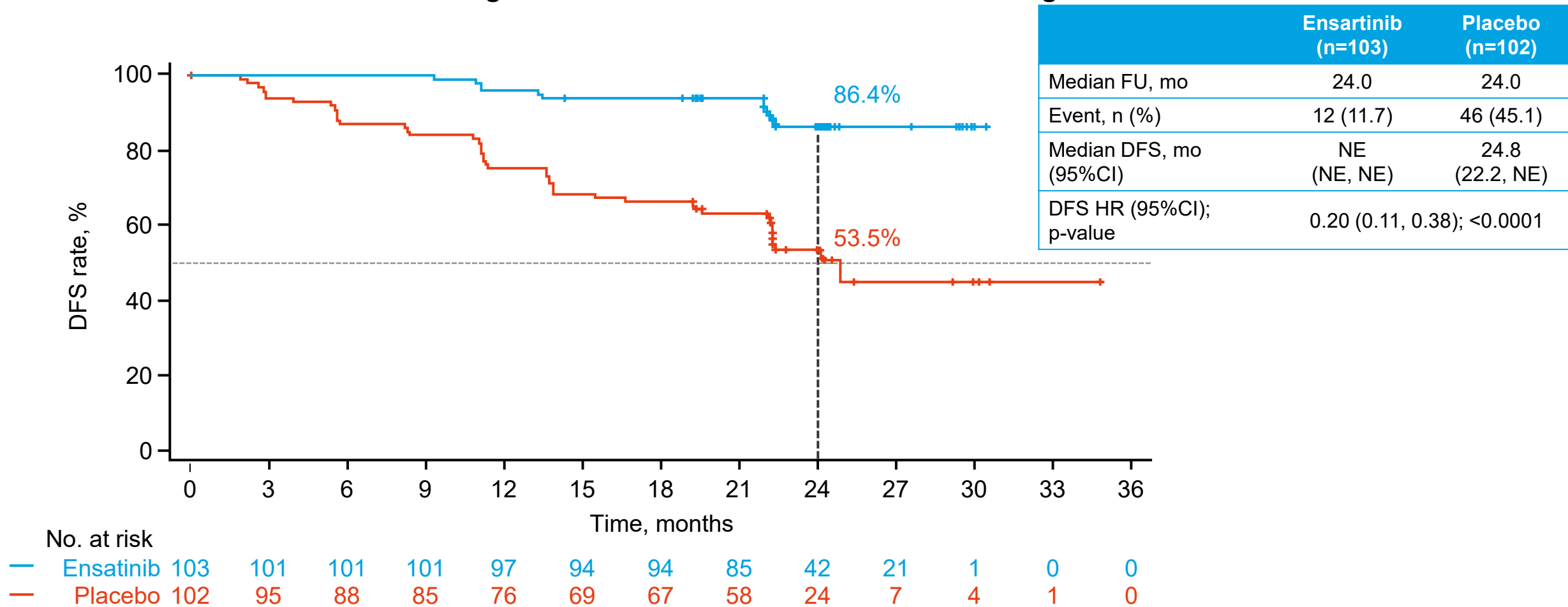
Secondary endpoints

- DFS in stage IB–IIIB, 3–5-year DFS rate, OS, safety

LBA66: Ensartinib as adjuvant therapy in patients (pts) with stage IB–IIIB ALK-positive (ALK+) non-small cell lung cancer (NSCLC) after complete tumor resection: the phase III randomized ELEVATE trial – Yue D, et al

- Key results

Investigator-assessed disease-free survival in stage II–IIIB



LBA66: Ensartinib as adjuvant therapy in patients (pts) with stage IB–IIIB ALK-positive (ALK+) non-small cell lung cancer (NSCLC) after complete tumor resection: the phase III randomized ELEVATE trial – Yue D, et al

- Key results (cont.)

Outcomes in stage IB-IIIB	Ensartinib (n=137)	Placebo (n=137)
Median FU, mo	22.2	22.1
Event, n (%)	12 (8.8)	48 (35.0)
Median DFS, mo (95%CI)	NE (NE, NE)	24.8 (22.2, NE)
DFS HR (95%CI); p-value	0.20 (0.10, 0.37); <0.0001	
2-year DFS rate, %	87.3	57.2

	Ensartinib (n=137)	Placebo (n=137)
Median duration of treatment, mo	22.1	17.1
TEAEs, n (%)		
Any grade	135 (98.5)	126 (92.0)
Grade 3–4	48 (35.0)	23 (16.8)
Grade 5	1 (0.7)	2 (1.5)
SAEs	25 (18.2)	14 (10.2)
Led to dose reduction	41 (29.9)	2 (1.5)
Led to dose interruption	48 (35.0)	20 (14.6)
Led to discontinuation	3 (2.2)	2 (1.5)

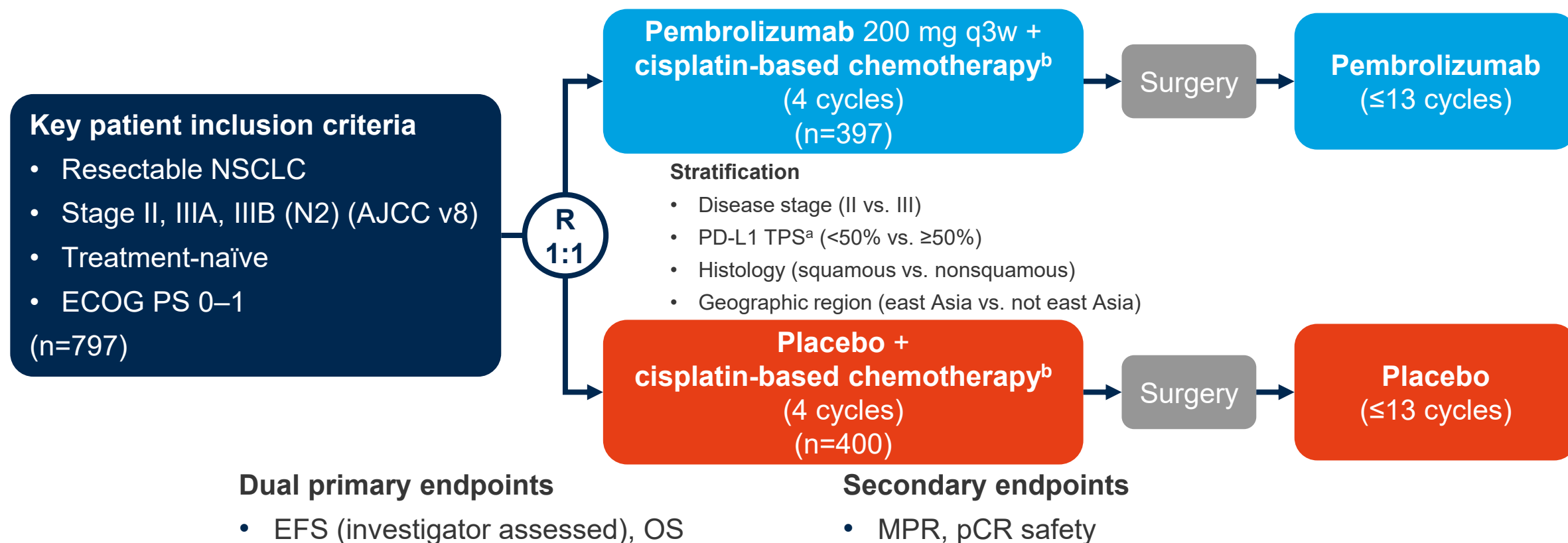
- Conclusions

- In patients with stage IB–IIIB ALK-positive NSCLC, ensartinib significantly improved DFS with no new safety concerns identified in the adjuvant setting

LBA67: Perioperative pembrolizumab in early-stage non–small-cell lung cancer (NSCLC): 5-year follow-up from KEYNOTE-671 – Wakelee H, et al

- **Study objective**

- To evaluate the 5-year efficacy and safety of perioperative pembrolizumab in patients with early-stage NSCLC in the KEYNOTE-671 study



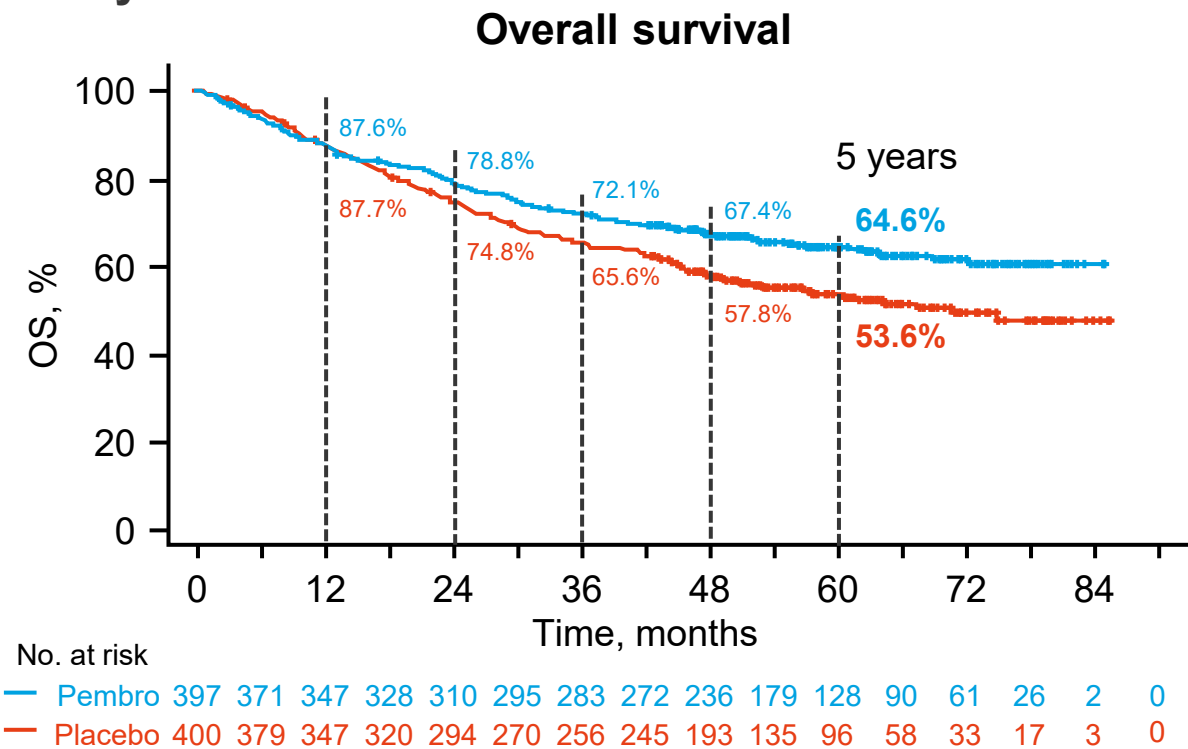
^aAssessed at a central laboratory using PD-L1 IHC 22C3 pharmDx;

^bsquamous: cisplatin 75 mg/m² IV q3w + gemcitabine 1000 mg/m² IV D1, 8 q3w;

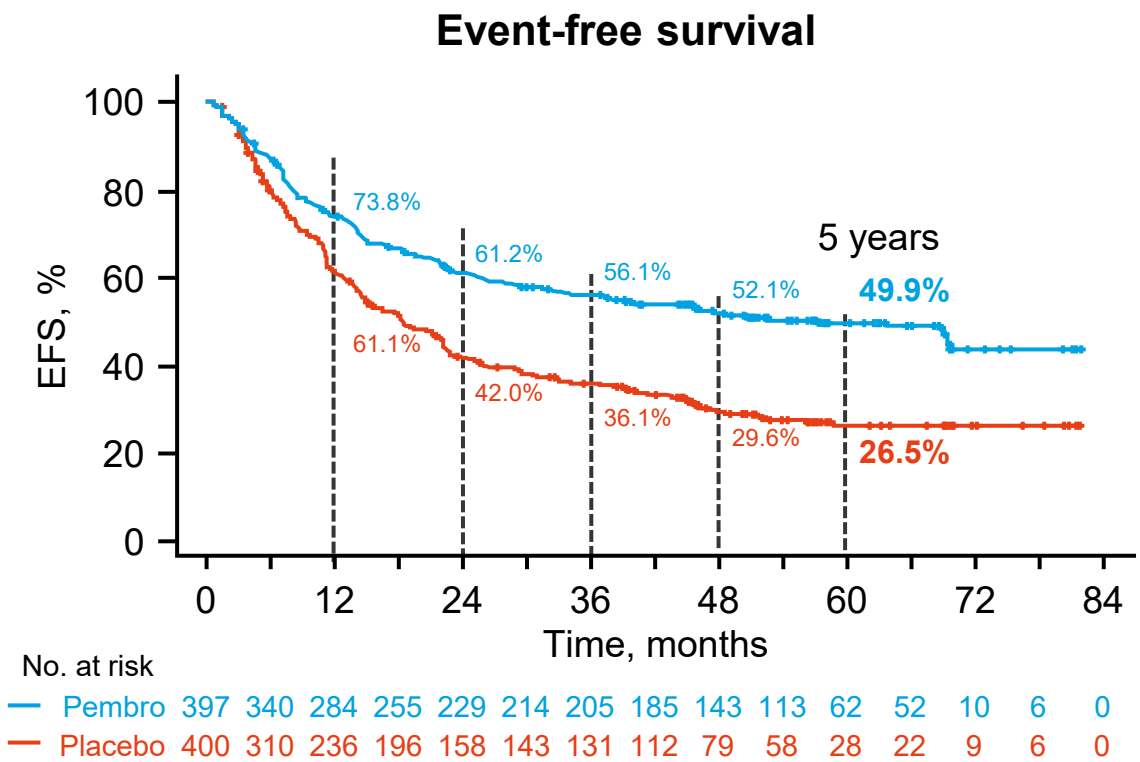
nonsquamous: cisplatin 75 mg/m² IV q3w + pemetrexed 500 mg/m² IV q3w.

LBA67: Perioperative pembrolizumab in early-stage non–small-cell lung cancer (NSCLC): 5-year follow-up from KEYNOTE-671 – Wakelee H, et al

- Key results



	Pembrolizumab (n=397)	Placebo (n=400)
Event, %	35.8	45.5
mOS, mo (95%CI)	NR (NR, NR)	70.7 (53.7, NR)
HR (95%CI)	0.74 (0.59, 0.92)	



	Pembrolizumab (n=397)	Placebo (n=400)
Event, %	48.1	68.3
mEFS, mo (95%CI)	57.1 (38.0, NR)	18.4 (14.8, 22.1)
HR (95%CI)	0.58 (0.48, 0.69)	

LBA67: Perioperative pembrolizumab in early-stage non–small-cell lung cancer (NSCLC): 5-year follow-up from KEYNOTE-671 – Wakelee H, et al

- Key results (cont.)

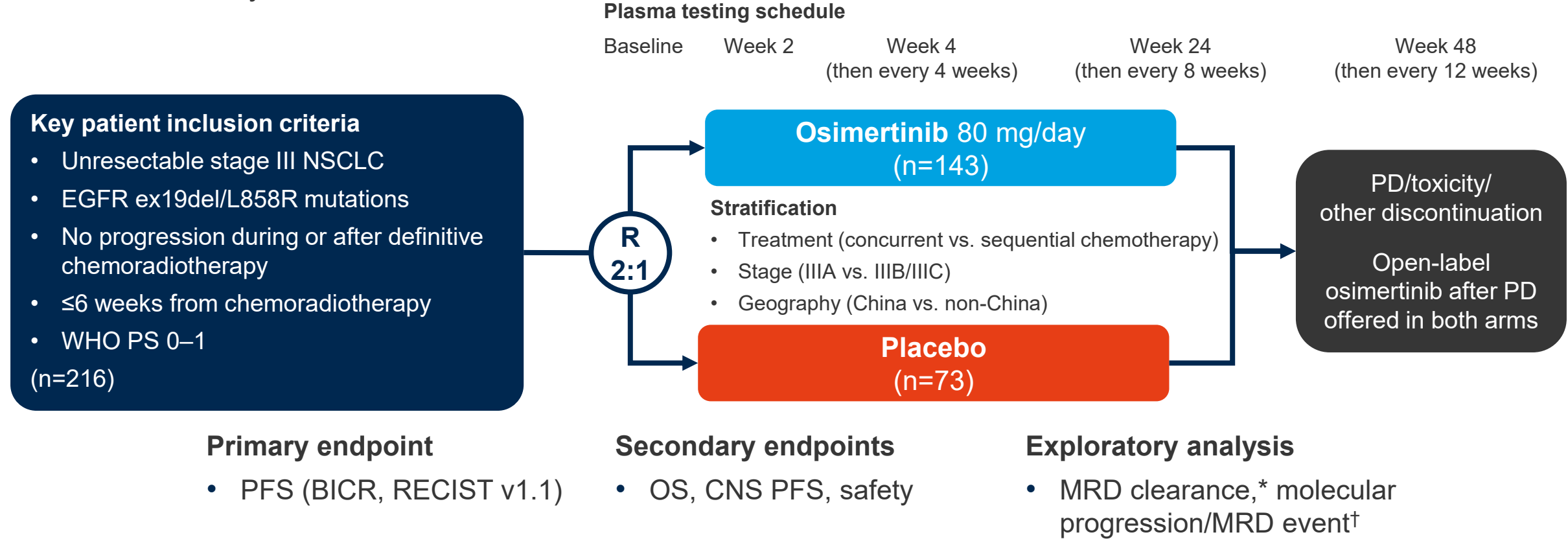
AEs, n (%)	Pembrolizumab (n=396)	Placebo (n=399)
TRAE	383 (96.7)	381 (95.5)
Grade 3–5	179 (45.2)	151 (37.8)
Serious	73 (18.4)	59 (14.8)
Led to death	4 (1.0)	3 (0.8)
Led to discontinuation of all study treatment	55 (13.9)	21 (5.3)
irAE and infusion reaction	103 (26.0)	37 (9.3)
Grade 3–5	25 (6.3)	7 (1.8)
Serious	24 (6.1)	7 (1.8)
Led to death	1 (0.3)	0
Led to discontinuation of all study treatment	22 (5.6)	3 (0.8)

- Conclusions

- In patients with early-stage NSCLC, perioperative pembrolizumab combined with neoadjuvant chemotherapy provided sustained improvements in overall and event-free survival over 5 years, with no new safety signals observed

1817MO: Molecular residual disease (MRD) analysis from the LAURA study of osimertinib (osi) in unresectable (UR) stage III EGFR-mutated (EGFRm) NSCLC – Arriola E, et al

- Study objective
 - To evaluate MRD with osimertinib in patients with unresectable stage III EGFR-mutant NSCLC in the LAURA study

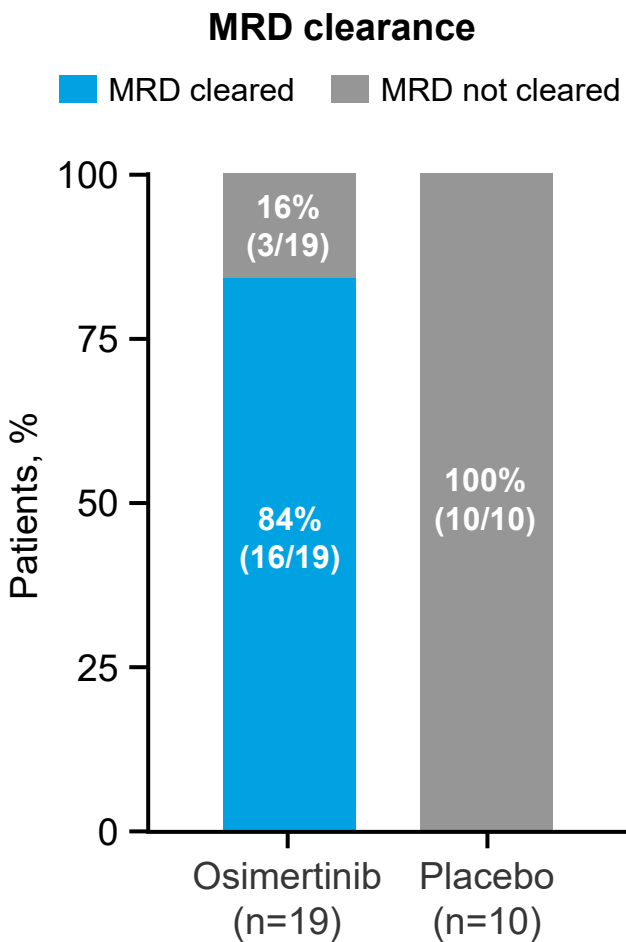


*MRD clearance: 10-fold ctDNA decrease from post-chemoradiotherapy levels or undetected MRD for 2 consecutive timepoints by week 12; †100% increase in ctDNA at a single timepoint or detected MRD above the lower limit of quantification. Plasma testing was done using Personalis Next Personal® assay.

1817MO: Molecular residual disease (MRD) analysis from the LAURA study of osimertinib (osi) in unresectable (UR) stage III EGFR-mutated (EGFRm) NSCLC – Arriola E, et al

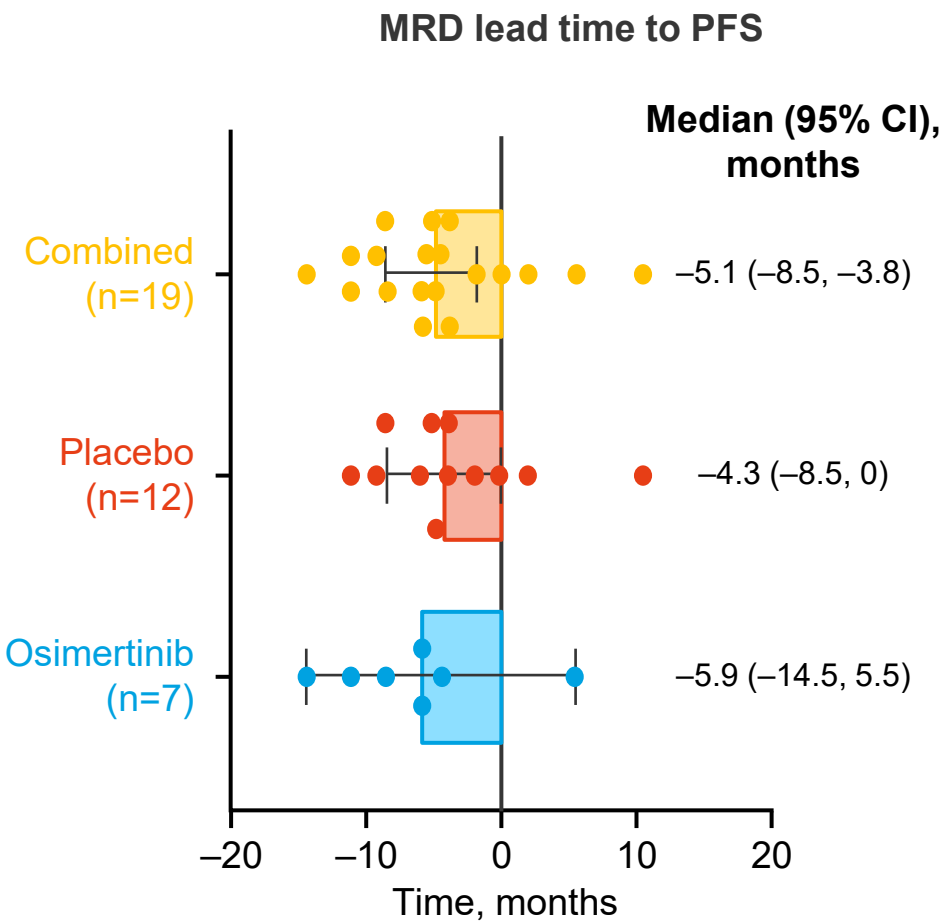
- Key results

Only 52/216 patients were included in the MRD analysis set



MRD-based molecular progression

	MRD status, n	
	Molecular progression (n=22)	No molecular progression (n=30)
PFS, n/N		
Event	19/30	11/30
Censored	3/22	19/22
Concordance of MRD with PFS, % (95%CI)		
PPA (sensitivity)	63 (46, 81)	
NPA (specificity)	86 (72, 100)	
PPV	86 (72, 100)	
NPV	63 (46, 81)	



1817MO: Molecular residual disease (MRD) analysis from the LAURA study of osimertinib (osi) in unresectable (UR) stage III EGFR-mutated (EGFRm) NSCLC – Arriola E, et al

- Key results (cont.)

	Osimertinib	Placebo
MRD detected post-CRT, n	19	10
mPFS, mo (95%CI)	38.8 (16.6, NC)	5.8 (1.9, 9.5)
MRD not detected post-CRT, n	15	7
mPFS, mo (95%CI)	39.3 (9.0, NC)	11.1 (3.5, 13.8)

- Conclusions

- In patients with unresectable stage III EGFR-mutant NSCLC, osimertinib improved PFS regardless of MRD status after chemoradiotherapy
- MRD status after chemotherapy was prognostic but not predictive of osimertinib benefit, and MRD monitoring identified disease progression earlier than radiological assessment

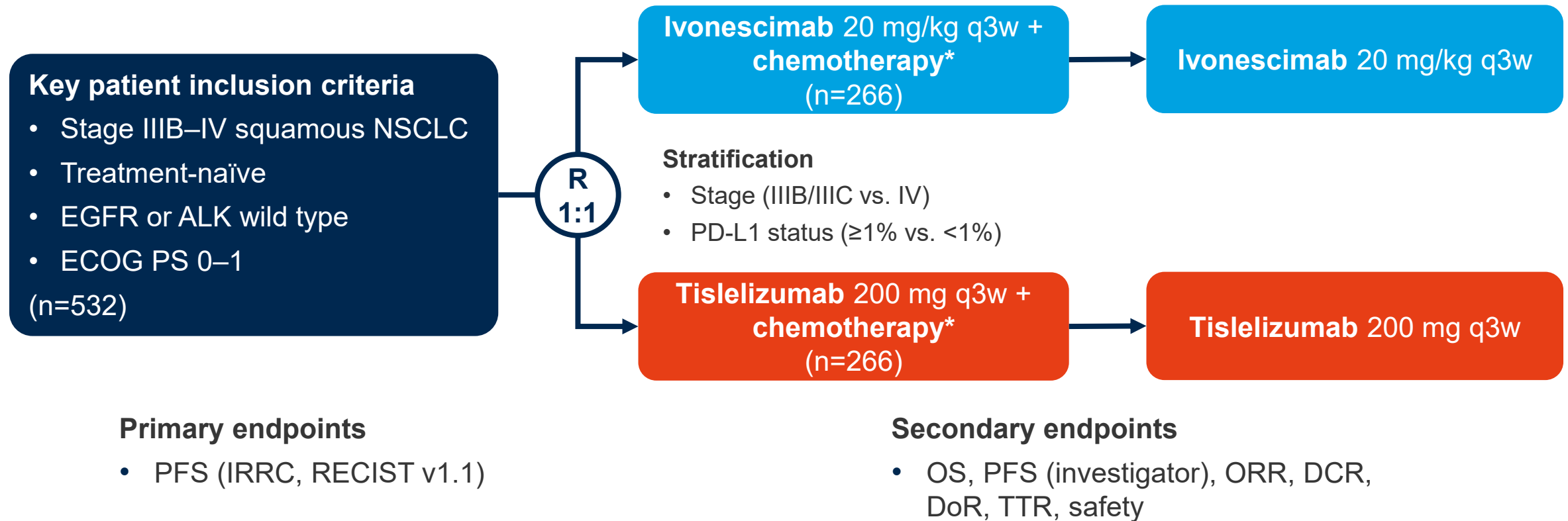
Advanced NSCLC – Not radically treatable stage III and stage IV

Immunotherapy

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) – Lu S, et al

- **Study objective**

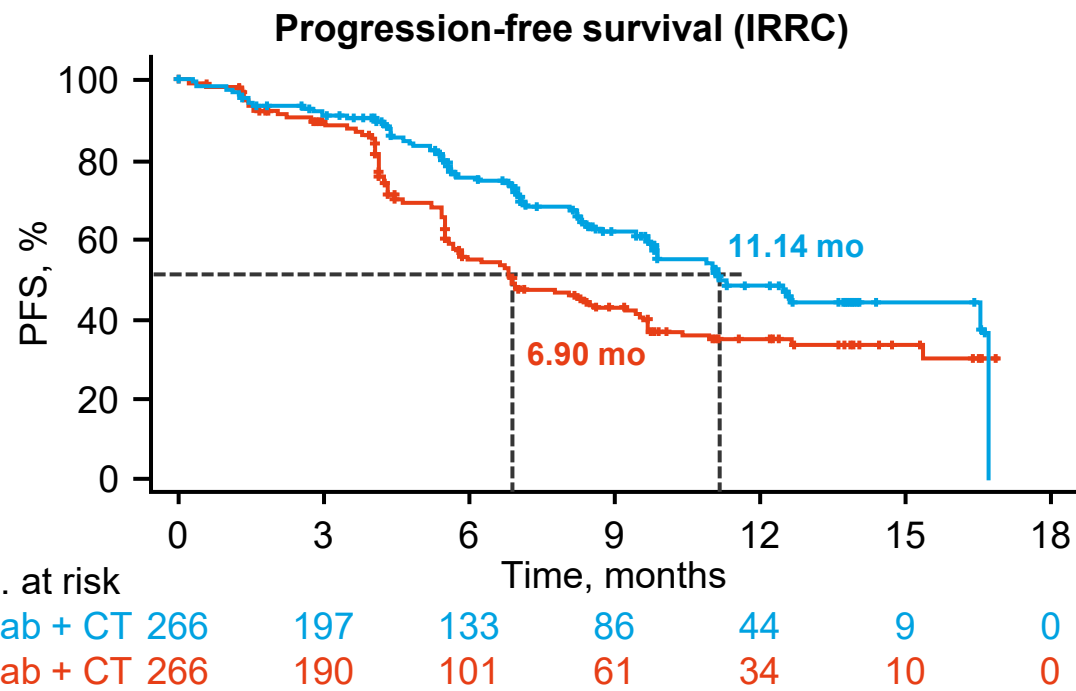
- To evaluate the efficacy and safety of 1L ivonescimab + chemotherapy vs tislelizumab + chemotherapy in patients with advanced squamous NSCLC in the phase 3 HARMONi-6 study



*Carboplatin AUC5, q3w + paclitaxel 175 mg/m² q3w (up to 4 cycles).

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) – Lu S, et al

- Key results



PFS in different PD-L1 expression subgroups

PD-L1 TPS	HR (95%CI)
<1%	0.55 (0.37, 0.82)
≥1%	0.66 (0.46, 0.95)
1–49%	0.63 (0.41, 0.98)
≥50%	0.71 (0.37, 1.33)

	Ivonescimab + chemotherapy (n=266)	Tislelizumab + chemotherapy (n=266)
Median FU, mo	10.28	
mPFS, mo (95%CI)	11.14 (9.86, NE)	6.90 (5.82, 8.57)
Stratified HR (95%CI); p-value	0.60 (0.46, 0.78); <0.0001	

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) – Lu S, et al

- Key results (cont.)

ORR (IRRC)

	Ivonescimab + chemotherapy (n=266)	Tislelizumab + chemotherapy (n=266)
BOR, n (%)		
CR	1 (0.4)	0
PR	201 (75.6)	177 (66.5)
SD	39 (14.7)	60 (22.6)
PD	6 (2.3)	15 (5.6)
ORR, %		
Any PD-L1	75.9	66.5
p-value	p=0.008	
PD-L1 TPS <1%	69.5	61.0
Any PD-L1 TPS ≥1%	80.1	70.2

DoR (IRRC)

	Ivonescimab + chemotherapy (n=202)	Tislelizumab + chemotherapy (n=177)
mDoR, mo (95%CI)	11.20 (8.54, NE)	8.38 (5.2, NE)
p-value	0.0219	

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) – Lu S, et al

- Key results (cont.)

TRAE, n (%)	Ivonescimab + chemotherapy (n=266)	Tislelizumab + chemotherapy (n=265)
Any grade	264 (99.2)	261 (98.5)
Grade ≥3	170 (63.9)	144 (54.3)
Serious	86 (32.3)	80 (30.2)
Led to ivonescimab or tislelizumab discontinuation	9 (3.4)	11 (4.2)
Led to death	8 (3.0)	10 (3.8)

irAEs, n (%)	Ivonescimab + chemotherapy (n=266)	Tislelizumab + chemotherapy (n=265)
Any grade	73 (27.4)	67 (25.3)
Grade ≥3	24 (9.0)	27 (10.2)
Serious	23 (8.6)	26 (9.8)
Led to ivonescimab or tislelizumab discontinuation	3 (1.1)	6 (2.3)
Led to death	0	1 (0.4)

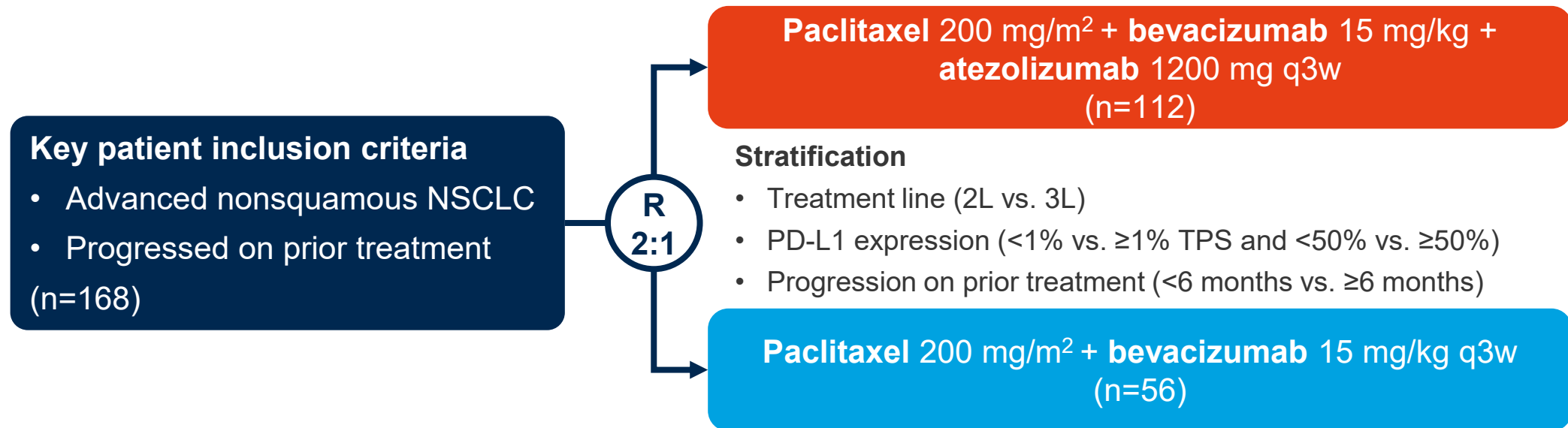
- Conclusions

- In patients with advanced squamous NSCLC, 1L ivonescimab + chemotherapy significantly improved PFS compared with tislelizumab + chemotherapy, the benefit was consistent across all PD-L1 subgroups, and no new safety signals were observed
- OS data are currently immature to be reported

LBA76: Paclitaxel-bevacizumab ± atezolizumab in advanced non-squamous NSCLC progressing after chemo-immunotherapy: IFCT-2201 ADAPTABLE randomized phase II trial – Scherpereel A, et al

- **Study objective**

- To evaluate the efficacy and safety of paclitaxel-bevacizumab ± atezolizumab in patients with advanced nonsquamous NSCLC who have progressed after chemoimmunotherapy in the phase 2 ADAPTABLE study



Primary endpoints

- 6-month PFS (IRC)

Secondary endpoints

- ORR, OS, DCR, safety

LBA76: Paclitaxel-bevacizumab ± atezolizumab in advanced non-squamous NSCLC progressing after chemo-immunotherapy: IFCT-2201 ADAPTABLE randomized phase II trial – Scherpereel A, et al

- Key results (cont.)

	Paclitaxel + bevacizumab + atezolizumab (n=103)	Paclitaxel + bevacizumab (n=50)
6-mo PFS rate, % (95%CI)		
IRC	40.8 (31.3, 50.3)	52.0 (38.2, 65.9)
Investigator	42.7 (33.2, 52.3)	52.0 (38.2, 65.9)
mPFS rate, mo (95%CI)	6.2 (5.5, 8.2)	7.5 (5.8, 9.8)
mOS rate, mo (95%CI)	16.6 (10.8, 19.3)	17.0 (10.9, NR)
ORR, %	41.7	42.0
DCR, %	76.7	82.0

TRAE, %	Paclitaxel + bevacizumab + atezolizumab (n=110)	Paclitaxel + bevacizumab (n=53)
Grade 3–4	48.2	54.7
Grade 5	1.8	3.8

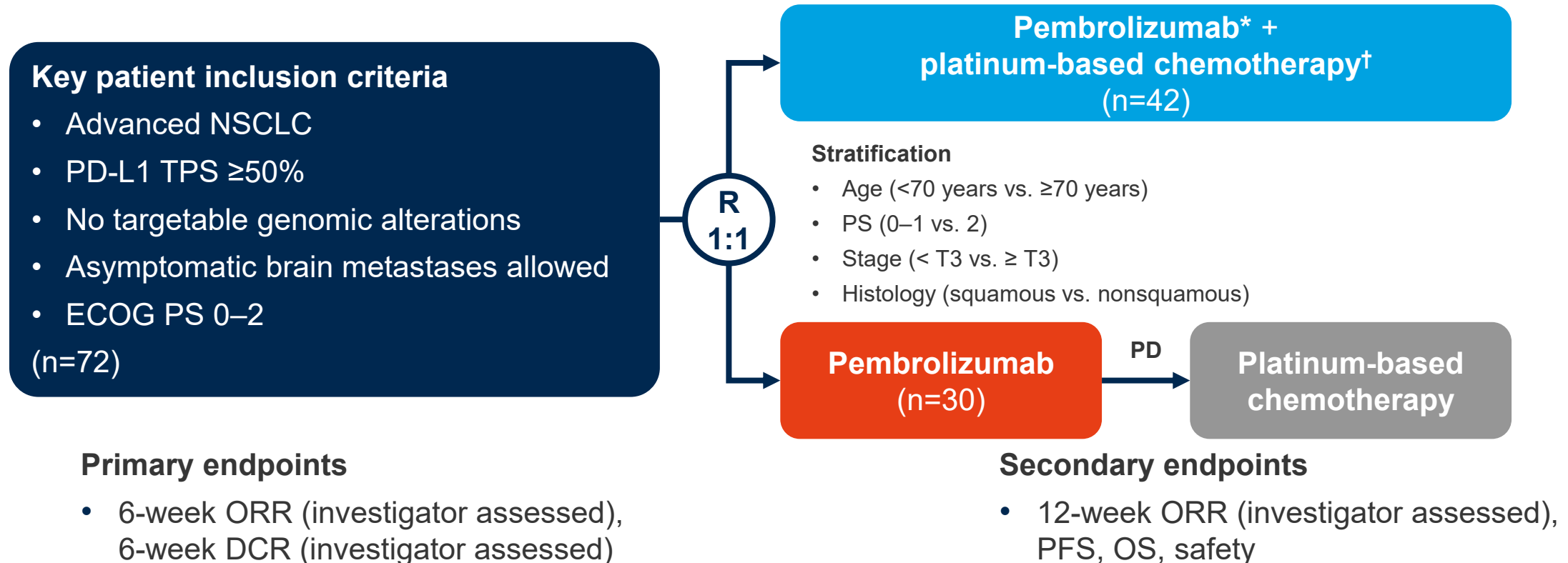
- Conclusions

- In patients with advanced nonsquamous NSCLC, the addition of atezolizumab to paclitaxel-bevacizumab + failed to provide survival benefit over paclitaxel-bevacizumab alone, and no new safety signals were observed

1851MO: Pembrolizumab plus chemotherapy (PEM + CT) versus pembrolizumab (PEM) as first-line therapy for advanced NSCLC with PD-L1 tumor proportion score (TPS) $\geq 50\%$: open-label, phase 3, randomized trial (PAULIEN) – Houda I, et al

- **Study objective**

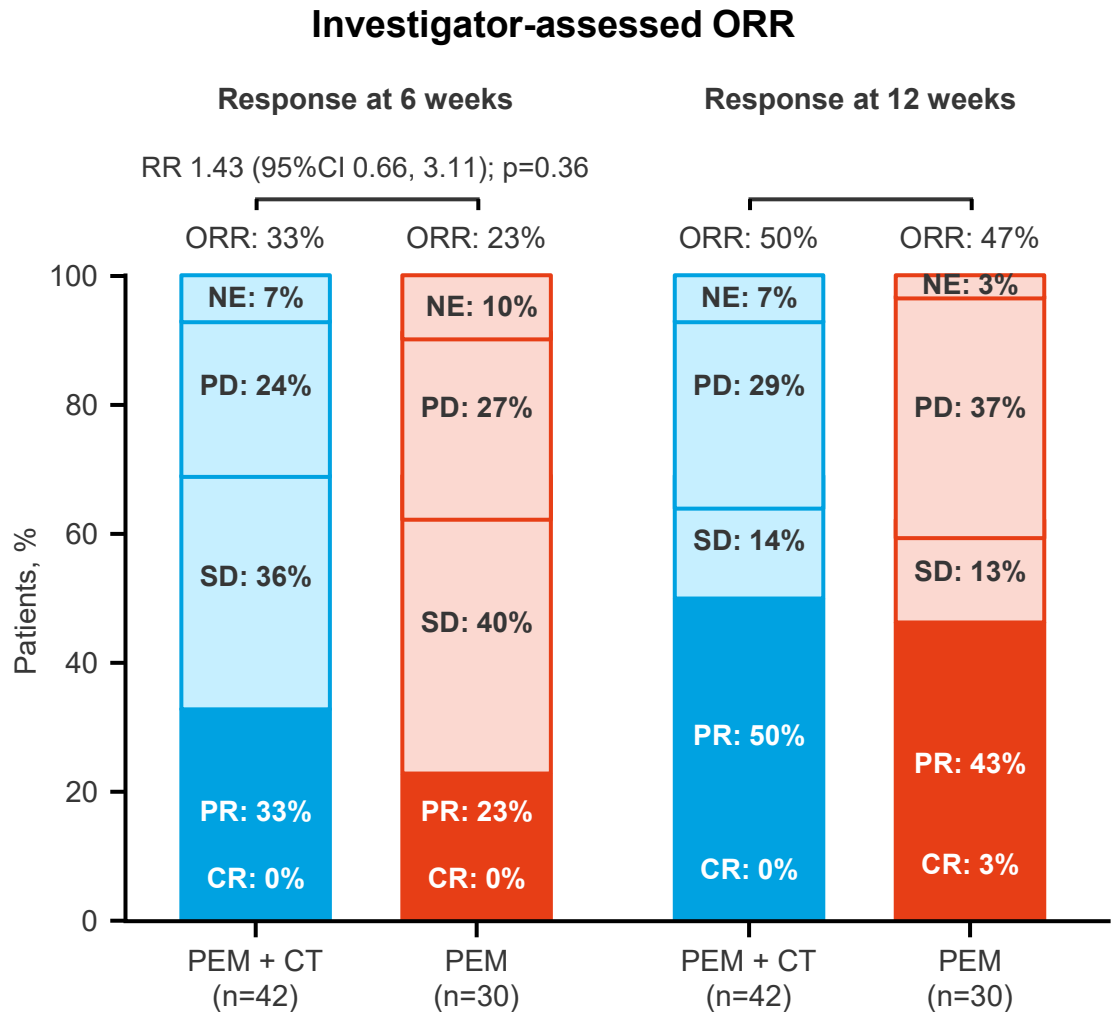
- To evaluate the efficacy and safety of 1L pembrolizumab $\pm$ chemotherapy in patients with advanced NSCLC and PD-L1 TPS $\geq 50\%$ in the phase 3 PAULIEN study



*Pembrolizumab every 3 or 6 weeks, depending on the local hospital guidelines. †Squamous NSCLC: platinum-paclitaxel q3w; nonsquamous NSCLC: platinum-pemetrexed q3w followed by pemetrexed q3w.

1851MO: Pembrolizumab plus chemotherapy (PEM + CT) versus pembrolizumab (PEM) as first-line therapy for advanced NSCLC with PD-L1 tumor proportion score (TPS) ≥50%: open-label, phase 3, randomized trial (PAULIEN) – Houda I, et al

- Key results



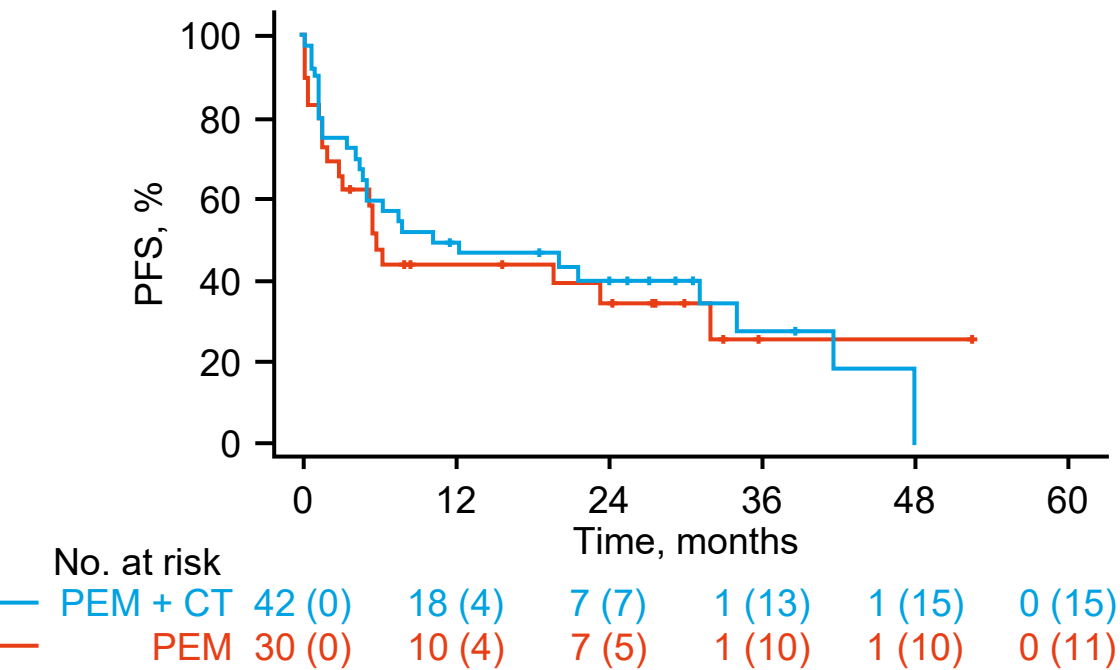
Response	Pembrolizumab + chemotherapy (n=42)	Pembrolizumab (n=30)
6-week ORR, n (%) [95%CI]	14 (33) [21, 48]	7 (23) [12, 41]
6-week DCR, n (%) [95%CI]	29 (69) [54, 81]	19 (63) [46, 78]
12-week ORR, n (%) [95%CI]	21 (50) [36, 64]	14 (47) [30, 64]
12-week DCR, n (%) [95%CI]	27 (64) [49, 77]	18 (60) [42, 75]
BOR, n (%)		
CR	0	1 (3)
PR	25 (60)	14 (47)
SD	4 (10)	5 (17)
PD	10 (24)	9 (30)
NE	3 (7)	1 (3)
DoR		
Responders, n (%)	25 (60)	15 (50)
Median, months (IQR)	11.3 (3.7–28.5)	14.1 (4.4–26.4)
Time to response		
Median, weeks (IQR)	6.0 (5.6–12.6)	11.3 (5.9–12.0)

1851MO: Pembrolizumab plus chemotherapy (PEM + CT) versus pembrolizumab (PEM) as first-line therapy for advanced NSCLC with PD-L1 tumor proportion score (TPS) ≥50%: open-label, phase 3, randomized trial (PAULIEN) – Houda I, et al

- Key results (cont.)

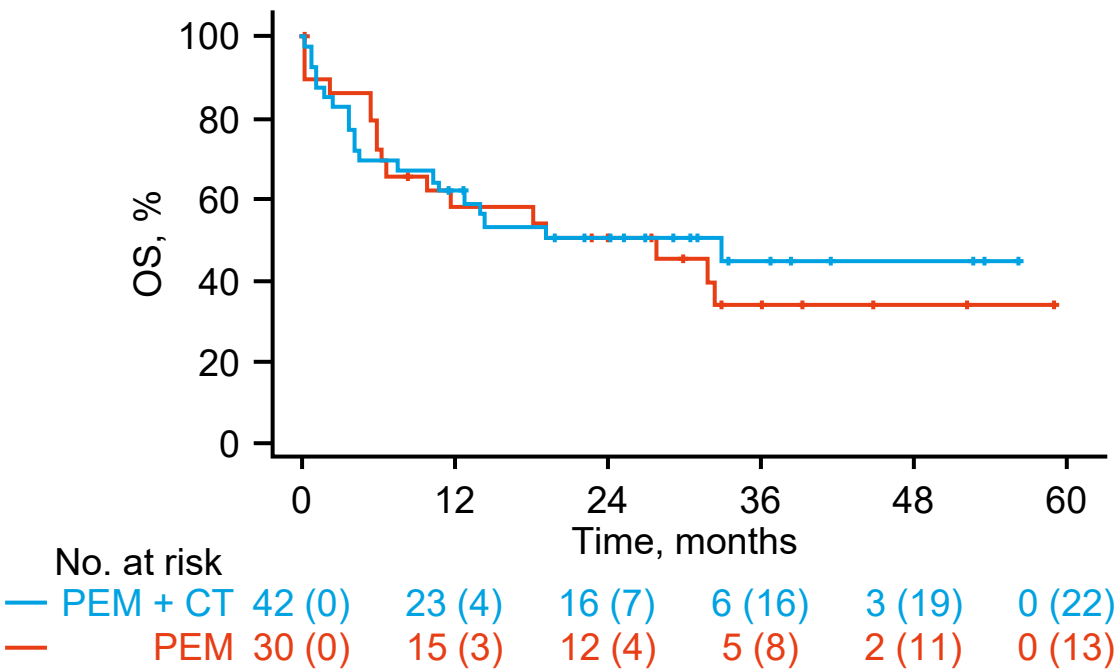
Progression-free survival

	Pembrolizumab + chemotherapy (n=42)	Pembrolizumab (n=30)
Events, n (%)	27 (64)	19 (63)
mPFS, mo (95%CI)	10 (5, NE)	6 (3, NE)
HR (95%CI)	0.91 (0.51, 1.64)	



Overall survival

	Pembrolizumab + chemotherapy (n=42)	Pembrolizumab (n=30)
Events, n (%)	20 (48)	17 (57)
mOS, mo (95%CI)	33 (11, NE)	28 (10, NE)
HR (95%CI)	0.89 (0.46, 1.70)	



1851MO: Pembrolizumab plus chemotherapy (PEM + CT) versus pembrolizumab (PEM) as first-line therapy for advanced NSCLC with PD-L1 tumor proportion score (TPS) ≥50%: Open-label, phase 3, randomized trial (PAULIEN) – Houda I, et al

- Key results (cont.)

n (%)	Pembrolizumab + chemotherapy (n=39)	Pembrolizumab (n=26)
Any grade AEs, any cause	39 (100)	26 (100)
Grade 3–4	27 (69)	15 (58)
Grade 5*	13 (33)	7 (27)
Any grade TRAEs	39 (100)	26 (100)
Grade 3–4	21 (54)	9 (35)
irAEs	15 (38)	16 (62)
Grade 3–4	4 (10) [†]	2 (8) [‡]
Serious AEs	28 (72)	15 (58)
TRAEs led to any treatment discontinuation	15 (38) [§]	5 (19)

Grade 3–4 TRAEs, n (%)	Pembrolizumab + chemotherapy (n=39)	Pembrolizumab (n=26)
Leukopenia	18	0
Anemia	15	8
Fatigue	8	0
Electrolyte disorders	5	0
Appetite loss/nausea/vomiting	5	8
Renal function decreased	5	0
Transaminitis/hepatitis	5	0
GGT increased	5	0
Pneumonitis	3	8
Airway infection/pneumonia	3	4
Constipation	0	4
Cardiac disorders	0	4

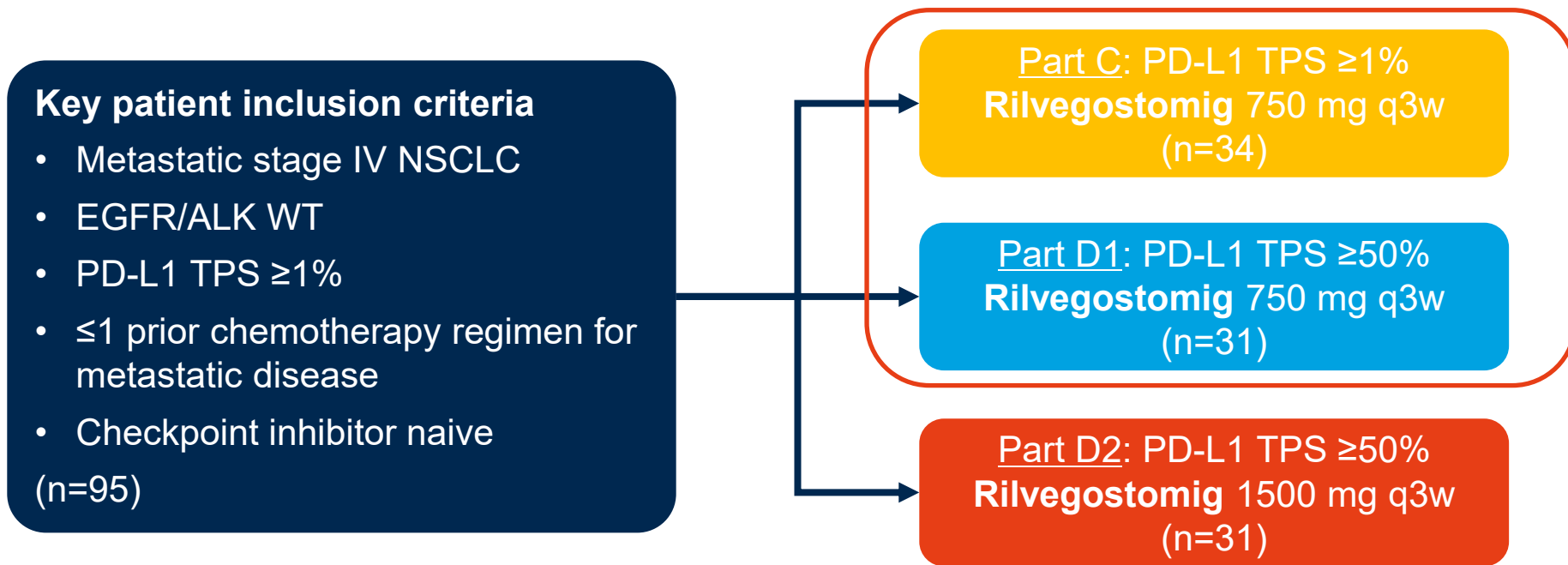
- Conclusions

- In patients with advanced PD-L1-positive NSCLC, pembrolizumab + chemotherapy did not improve tumor response, PFS, or OS compared with pembrolizumab alone
- The trial was stopped early due to small sample size, and definitive conclusions are awaited from the results of larger ongoing controlled trials

1853MO: Efficacy and safety of rilvegostomig, an anti-PD-1/TIGIT bispecific antibody, for checkpoint inhibitor (CPI)-naïve metastatic non-small-cell lung cancer (mNSCLC): ARTEMIDE-01 – Cho BC, et al

- **Study objective**

- To evaluate the efficacy and safety of rilvegostomig, an anti-PD-1/TIGIT bispecific antibody, in checkpoint inhibitor-naïve patients with metastatic NSCLC in the ARTEMIDE-01 study



Primary endpoints

- ORR (investigator assessed, RECIST v1.1), safety

Secondary endpoints

- DoR, PFS

1853MO: Efficacy and safety of rilvegostomig, an anti-PD-1/TIGIT bispecific antibody, for checkpoint inhibitor (CPI)-naïve metastatic non-small-cell lung cancer (mNSCLC): ARTEMIDE-01 – Cho BC, et al

• Key results

Outcomes	PD-L1 TPS 1–49%		PD-L1 TPS ≥50%	
	CPI-naïve (n=31)	CPI + CTx-naïve (n=18)	CPI-naïve (n=34)	CPI + CTx-naïve (n=31)
ORR, % (95%CI)	29.0 (14.2, 48.0)	44.4 (21.5, 69.2)	61.8 (43.6, 77.8)	67.7 (48.6, 83.3)
Median DoR, mo (range)	9.9 (4.1–NC)	8.5 (4.1–NC)	NR (10.3–NC)	NR (10.3–NC)

TRAEs ≥5%, %	Any grade	Grade ≥3
Pruritus	12.3	1.5
AST increased	10.8	1.5
Myalgia	10.8	0
Hypercholesterolemia	10.8	0
Hypothyroidism	10.8	0
Lipase increased	9.2	1.5
Rash	9.2	0
Constipation	7.7	0
ALT increased	7.7	0
Fatigue	7.7	0
Diarrhea	7.7	3.1
Hypertriglyceridemia	7.7	3.1
Appetite decreased	6.2	0
GGT increased	6.2	3.1
Nausea	6.2	0

• Conclusions

- In patients with metastatic NSCLC, rilvegostomig demonstrated antitumor activity with durable responses and promising PFS, while maintaining a manageable safety profile with no new safety signals observed

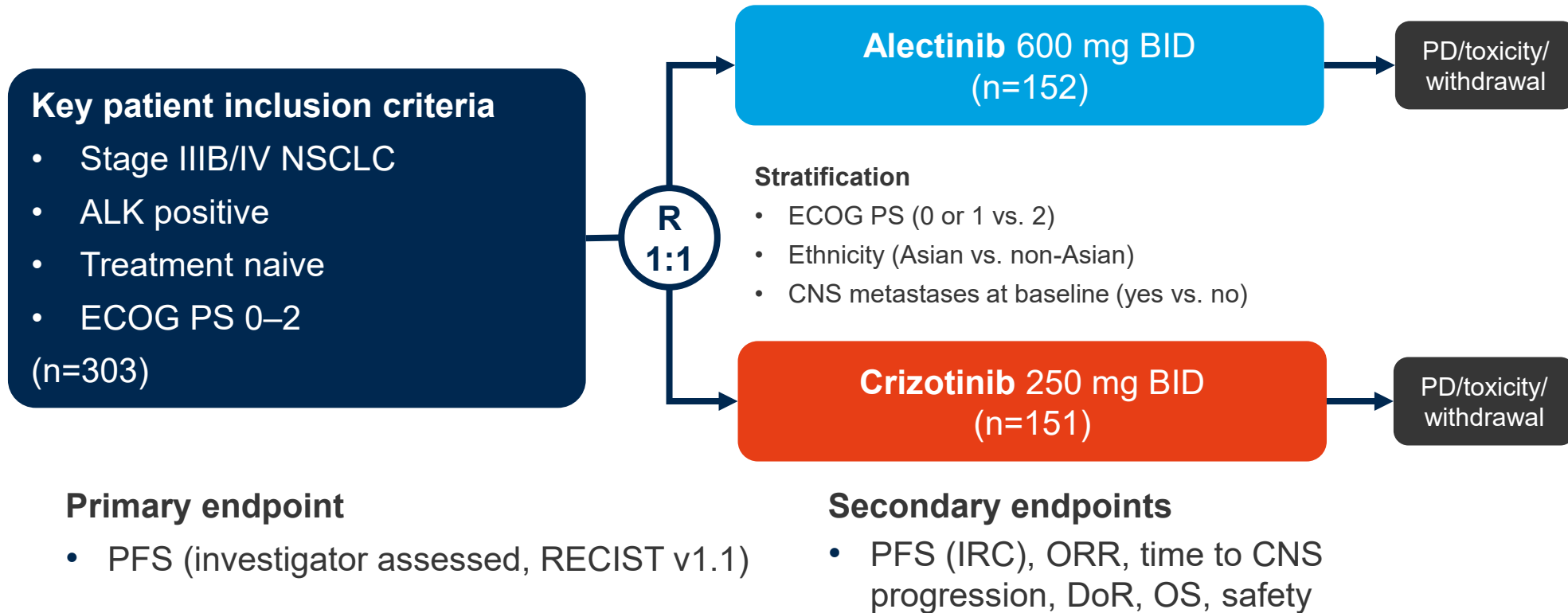
Advanced NSCLC – Not radically treatable stage III and stage IV

Targeted therapies

LBA73: Final overall survival (OS) and safety analysis of the phase 3 ALEX study of alectinib vs crizotinib in patients with previously untreated, advanced ALK-positive (ALK+) non-small cell lung cancer (NSCLC) – Mok TSK, et al

- **Study objective**

- To evaluate the final OS and safety of alectinib vs crizotinib in previously untreated patients with advanced ALK-positive NSCLC in the phase 3 ALEX study

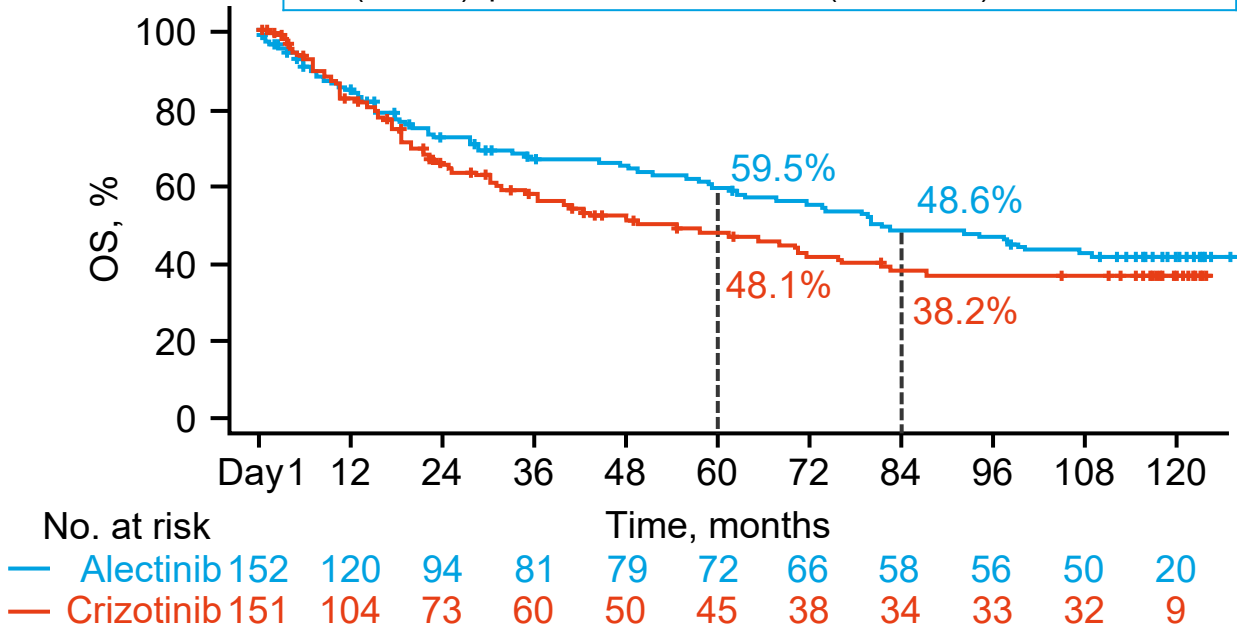


LBA73: Final overall survival (OS) and safety analysis of the phase 3 ALEX study of alectinib vs crizotinib in patients with previously untreated, advanced ALK-positive (ALK+) non-small cell lung cancer (NSCLC) – Mok TSK, et al

- Key results

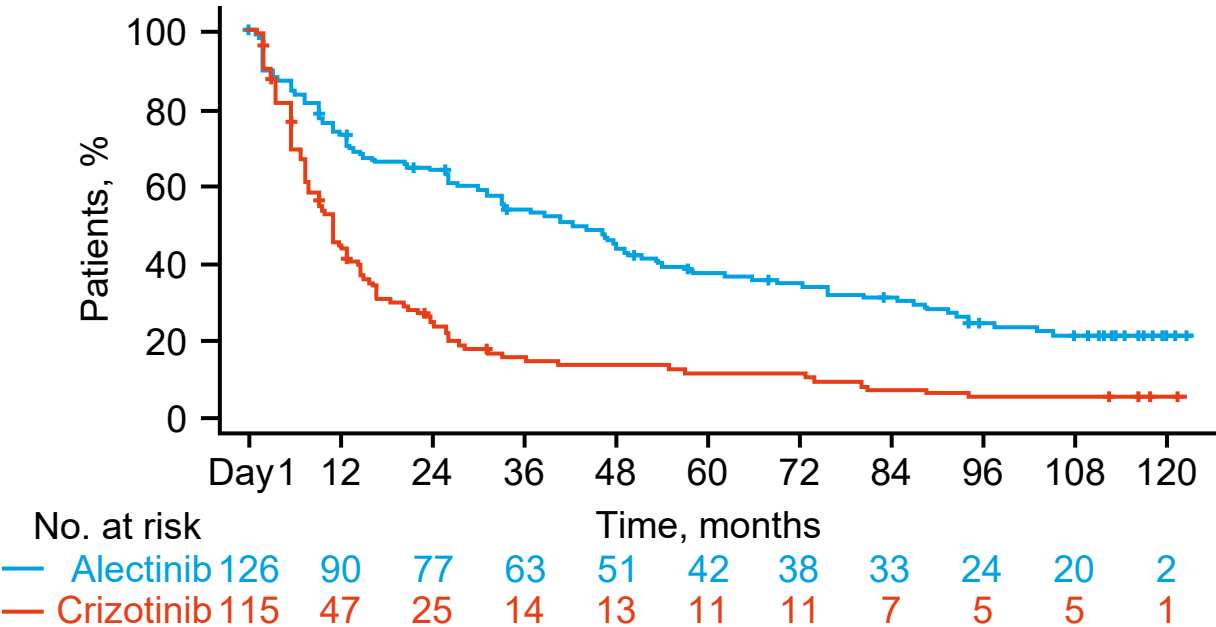
Overall survival (ITT)

	Alectinib (n=152)	Crizotinib (n=151)
Events, n (%)	76 (50.0)	73 (48.3)
mOS, mo (95%CI)	81.1 (62.3, NE)	54.2 (34.6, 75.6)
HR (95%CI); p-value*	0.78 (0.56, 1.08); 0.1320	



DoR in responders[†] (Investigator-assessed)

	Alectinib (n=126)	Crizotinib (n=115)
mDoR, mo (95%CI)	42.3 (31.3, 51.3)	11.1 (7.9, 13.0)
HR (95%CI)	0.41 (0.30, 0.56)	



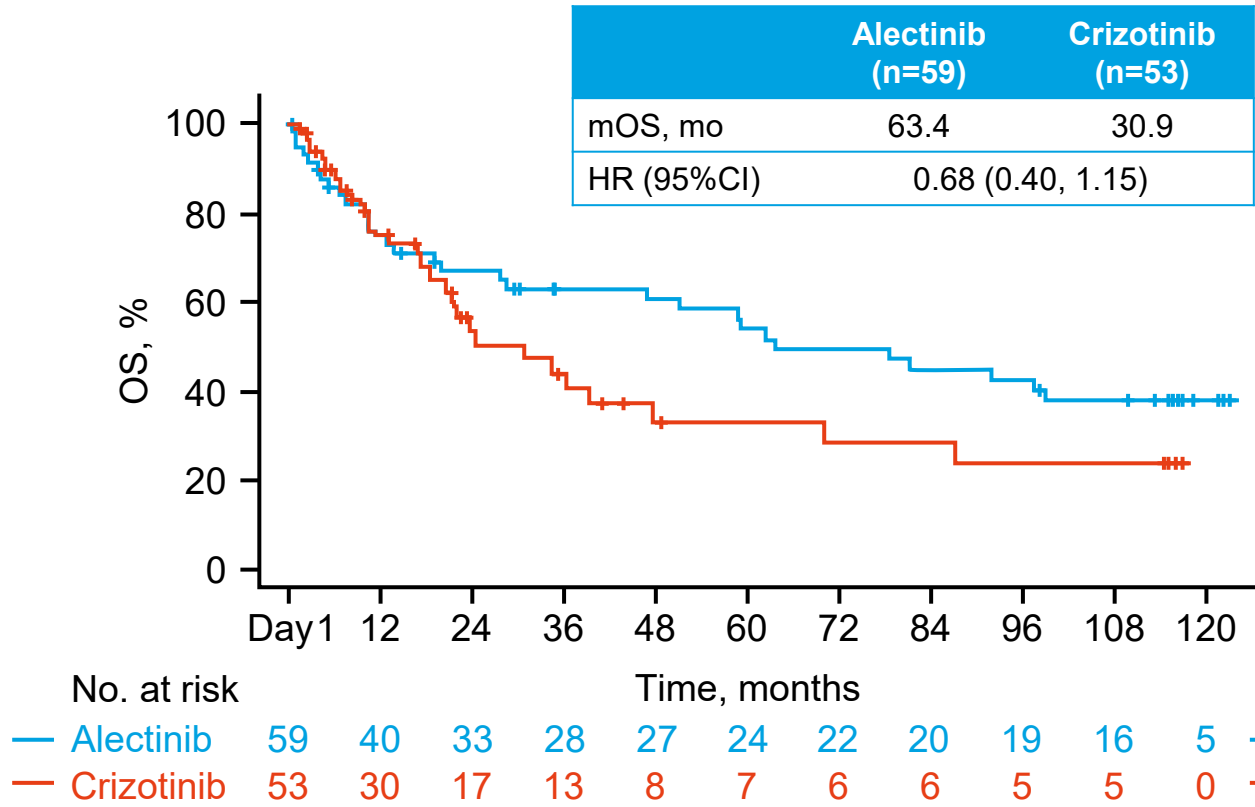
*Stratified Log-rank; [†]patients with measurable disease at baseline.

LBA73: Final overall survival (OS) and safety analysis of the phase 3 ALEX study of alectinib vs crizotinib in patients with previously untreated, advanced ALK-positive (ALK+) non-small cell lung cancer (NSCLC) – Mok TSK, et al

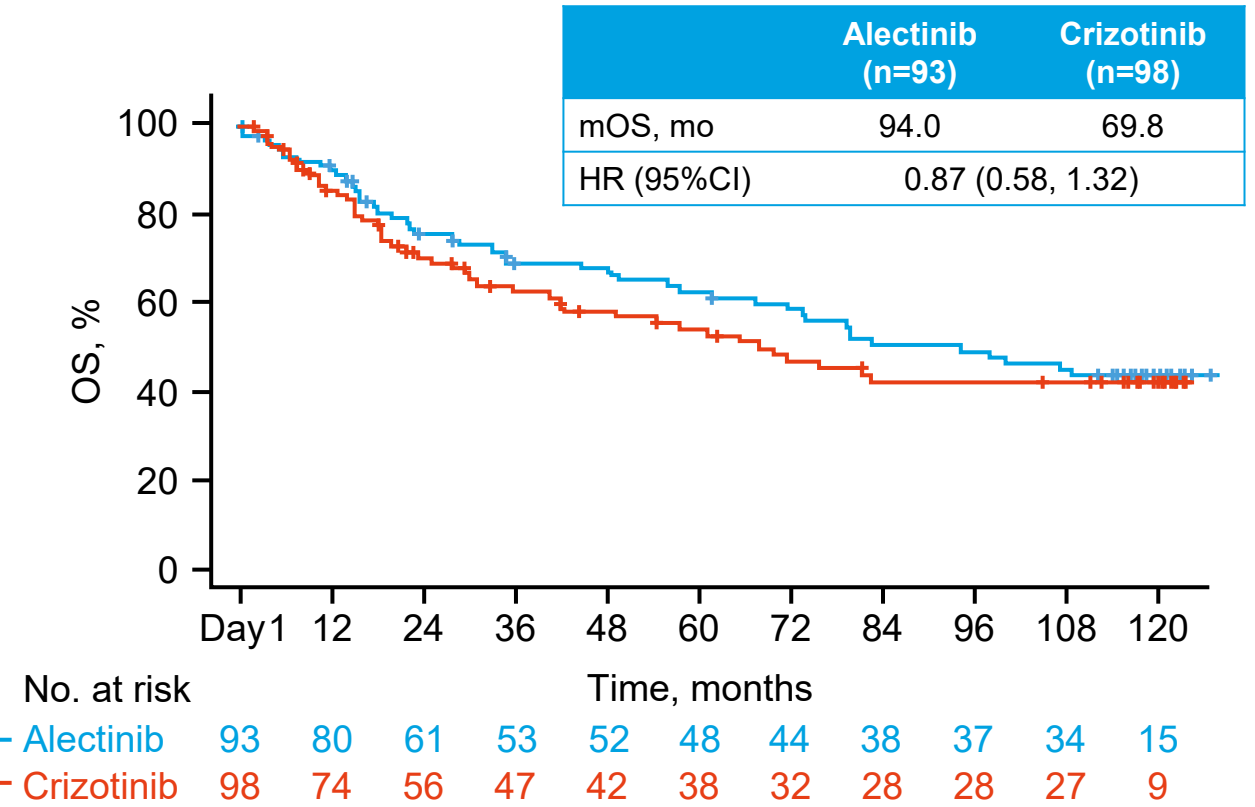
- Key results (cont.)

Overall survival

Patients with CNS metastases at baseline



Patients without CNS metastases at baseline



LBA73: Final overall survival (OS) and safety analysis of the phase 3 ALEX study of alectinib vs crizotinib in patients with previously untreated, advanced ALK-positive (ALK+) non-small cell lung cancer (NSCLC) – Mok TSK, et al

- Key results (cont.)

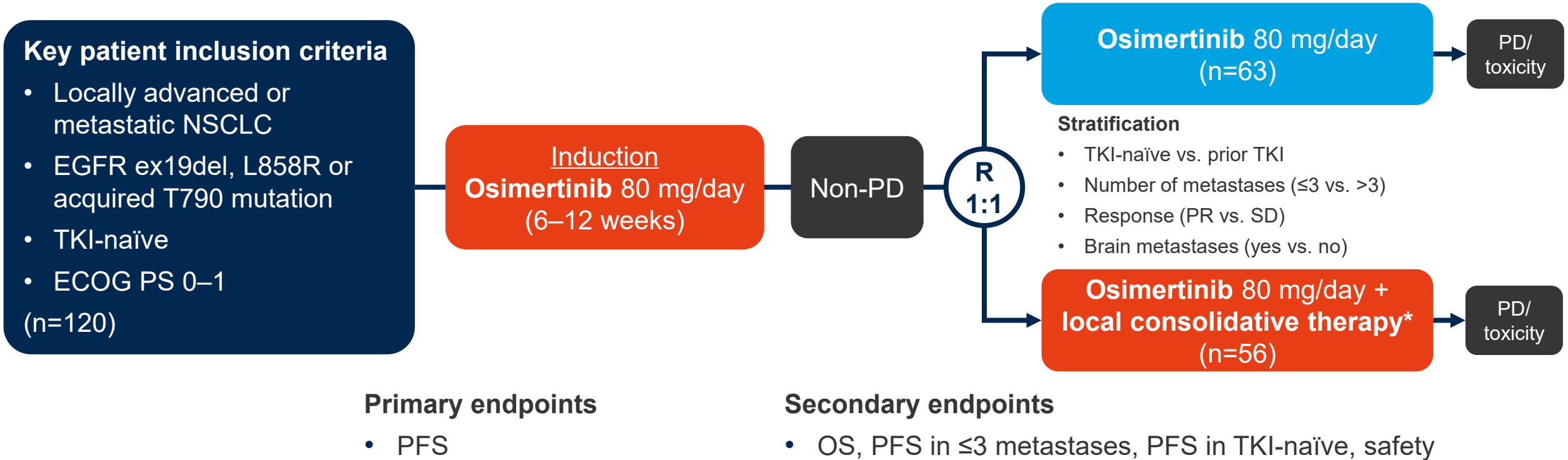
AEs, n (%)	Alectinib (n=152)	Crizotinib (n=151)
Any grade	147 (96.7)	148 (98.0)
Grade 3–5	88 (57.9)	87 (57.6)
Serious	70 (46.1)	48 (31.8)
Treatment-related	125 (82.2)	135 (89.4)
Led to treatment discontinuation	27 (17.8)	22 (14.6)
Led to dose reduction	35 (23.0)	30 (19.9)
Led to dose interruption	49 (32.2)	43 (28.5)
Led to death	10 (6.6)	7 (4.6)

- Conclusions

- In previously untreated patients with advanced ALK-positive NSCLC, 1L alectinib provided a sustained clinical benefit over crizotinib, including patients with CNS metastases, and no new safety signals were observed

LBA72: NorthStar: a phase II randomized study of osimertinib (OSI) with or without local consolidative therapy (LCT) for metastatic EGFR-mutant non-small cell lung cancer (NSCLC) – Elamin YY, et al

- **Study objective**
 - To evaluate the efficacy and safety of osimertinib ± local consolidative therapy in patients with metastatic EGFR-mutant NSCLC in the phase 2 NorthStar study



*Radiation (VMAT or IMRT, SBRT or 3D/2D conformal; n=33); surgery (lobectomy, wedge resection, lobectomy and wedge resection, segmentectomy, or adrenalectomy; n=17); surgery and radiation (n=6).

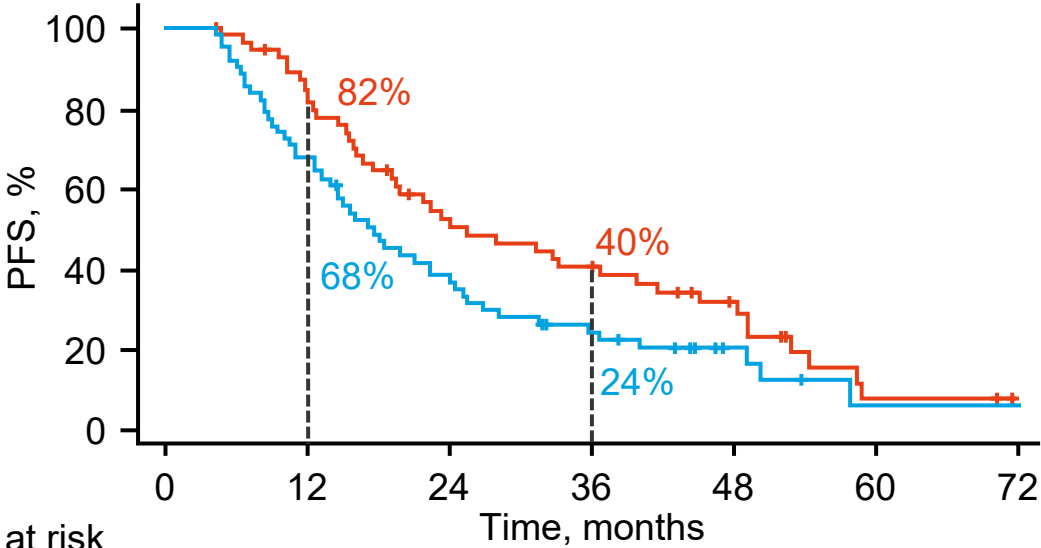
Elamin YY, et al. Ann Oncol 2025;36(suppl):Abstr LBA72 37

LBA72: NorthStar: a phase II randomized study of osimertinib (OSI) with or without local consolidative therapy (LCT) for metastatic EGFR-mutant non-small cell lung cancer (NSCLC) – Elamin YY, et al

- Key results

Progression-free survival

	Osimertinib (n=63)	Osimertinib + LCT (n=56)
PFS events, n (%)	50 (79.3)	42 (75.0)
mPFS, mo (95%CI)	17.5 (14.5, 24.3)	25.3 (19.4, 45.0)
HR (90%CI); p-value*	0.66 (0.50, 0.87); 0.025	



PFS per EGFR mutation subtype

	Osimertinib	Osimertinib + LCT
Ex19del, n	44	34
mPFS, mo (95%CI)	22.4 (17.0, 35.7)	39.8 (25.4, 58.7)
HR (90%CI)	0.57 (0.40, 0.82)	
L858R, n	22	19
mPFS, mo (95%CI)	11.0 (6.4, 20.9)	19.0 (15.4, 36.6)
HR (90%CI)	0.60 (0.39, 0.92)	

PFS per number of metastases

	Osimertinib	Osimertinib + LCT
No. metastases ≤3, n	26	24
mPFS, mo (95%CI)	22.4 (12.5, NA)	33.1 (23.9, NA)
HR (90%CI)	0.67 (0.43, 1.03)	
No. metastases >3, n	37	32
mPFS, mo (95%CI)	15.9 (13.8, 23.9)	19.7 (15.4, 48.3)
HR (90%CI)	0.70 (0.50, 1.00)	

PFS in patients with polymetastatic disease

	Complete LCT	Partial LCT
mPFS, mo (95%CI)	27.9 (16.6, 48.3)	14.5 (10.2, 21.6)

*One-sided Log rank.

LBA72: NorthStar: a phase II randomized study of osimertinib (OSI) with or without local consolidative therapy (LCT) for metastatic EGFR-mutant non-small cell lung cancer (NSCLC) – Elamin YY, et al

- Key results (cont.)

	Osimertinib (n=63)	Osimertinib + LCT (n=56)
Hyponatremia	3 (4.8)	4 (7.1)
Transaminitis	3 (4.8)	-
Pneumonitis	2 (3.2)	1 (1.8)
Diarrhea	-	2 (3.6)
Constipation		1 (1.8)
Leukopenia	-	1 (1.8)
Pleural effusion	-	1 (1.8)
Skin disorders	-	1 (1.8)
Thrombocytopenia	-	1 (1.8)

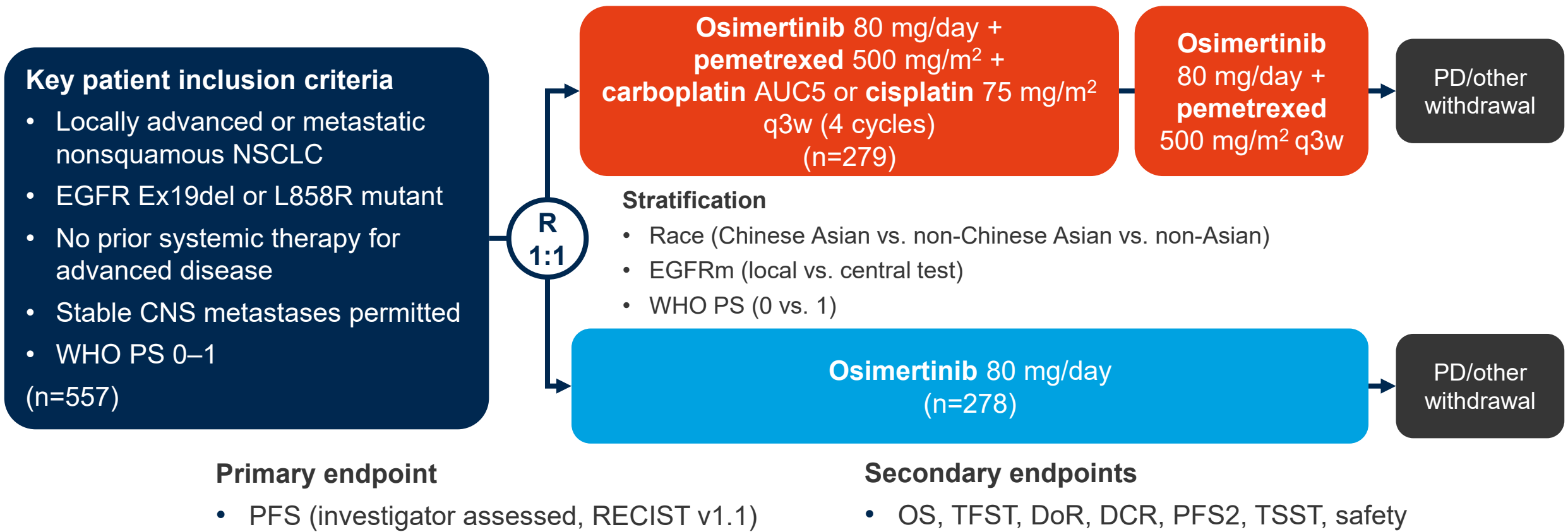
	Osimertinib + LCT (n=56)		
LCT-specific AEs, n (%)	Grade 1	Grade 2	Grade 3
Pneumonitis	1 (1.8)	5 (8.9)	1 (1.8)
Dyspnea	15 (26.8)	2 (3.6)	-
Arterial injury	-	-	1 (1.8)
Empyema	-	-	1 (1.8)
Esophagitis	1 (1.8)	1 (1.8)	-
Dysphagia	7 (12.5)	-	-

- Conclusions

- In patients with metastatic EGFR-mutant NSCLC, osimertinib + local consolidative therapy significantly prolonged PFS over osimertinib alone, including in those with polymetastatic burden and no unexpected safety signals were observed

LBA77: FLAURA2: exploratory overall survival (OS) analysis in patients (pts) with poorer prognostic factors treated with osimertinib (osi) ± platinum-pemetrexed chemotherapy (CTx) as first-line (1L) treatment (tx) for EGFR-mutated (EGFRm) advanced NSCLC – Jänne PA, et al

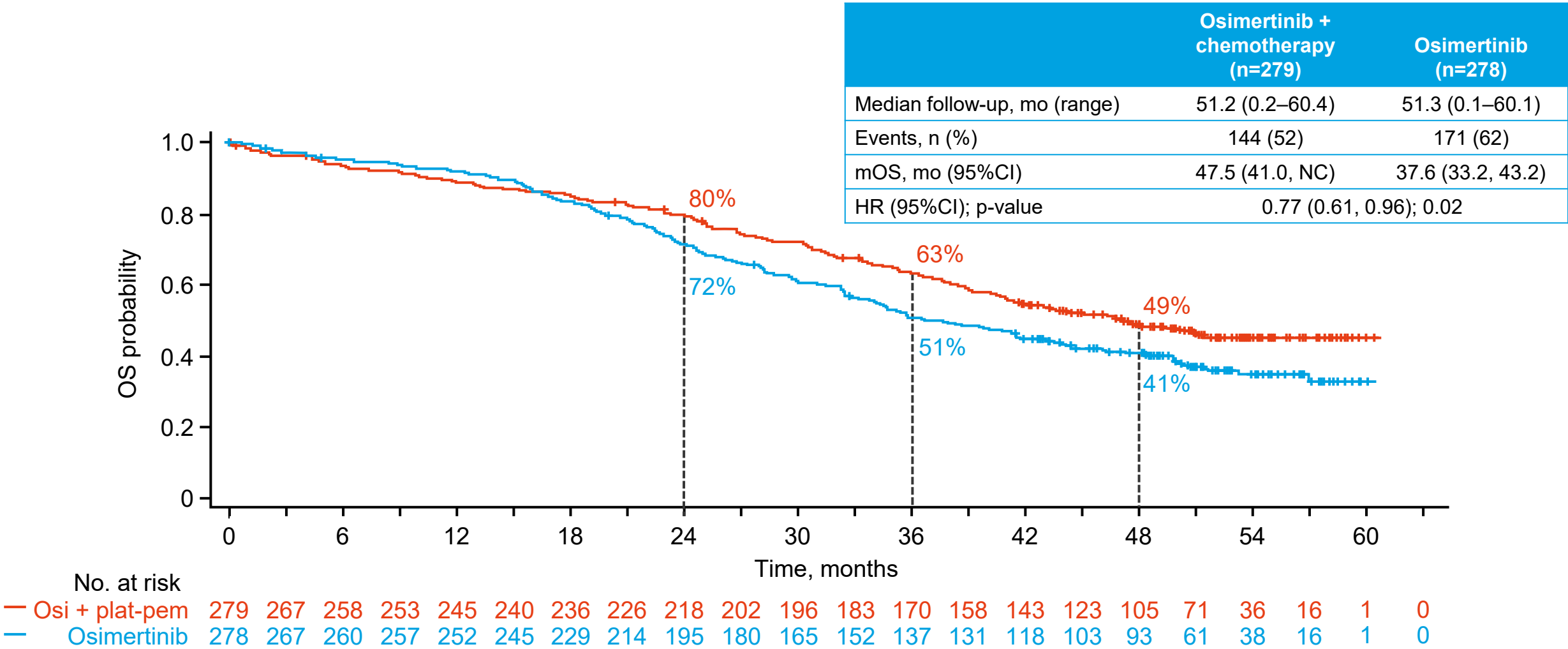
- **Study objective**
 - To evaluate OS with 1L osimertinib ± platinum-pemetrexed chemotherapy in patients with advanced EGFR-mutant NSCLC and poorer prognostic factors in the FLAURA2 study



LBA77: FLAURA2: exploratory overall survival (OS) analysis in patients (pts) with poorer prognostic factors treated with osimertinib (osi) ± platinum-pemetrexed chemotherapy (CTx) as first-line (1L) treatment (tx) for EGFR-mutated (EGFRm) advanced NSCLC – Jänne PA, et al

• Key results

Overall survival



LBA77: FLAURA2: exploratory overall survival (OS) analysis in patients (pts) with poorer prognostic factors treated with osimertinib (osi) ± platinum-pemetrexed chemotherapy (CTx) as first-line (1L) treatment (tx) for EGFR-mutated (EGFRm) advanced NSCLC – Jänne PA, et al

- Key results (cont.)

Prognostic factor	Osimertinib + chemotherapy	Osimertinib
With CNS metastases at baseline, n	116	110
3-year OS rate, %	57	40
mOS, mo (95%CI)	40.9 (35.2, 46.6)	29.7 (25.6, 35.8)
HR (95%CI)	0.72 (0.52, 0.99)	
Without CNS metastases at baseline, n	163	168
3-year OS rate, %	67	58
mOS, mo (95%CI)	NR (45.0, NC)	43.9 (37.8, 53.3)
HR (95%CI)	0.77 (0.57, 1.05)	
L858R mutation, n	106	107
3-year OS rate, %	54	42
mOS, mo (95%CI)	38.1 (33.4, 42.0)	32.4 (28.0, 37.6)
HR (95%CI)	0.76 (0.55, 1.07)	
Ex19 deletion, n	172	169
3-year OS rate, %	69	57
mOS, mo (95%CI)	NR (47.2, NC)	43.0 (35.7, 51.9)
HR (95%CI)	0.76 (0.56, 1.02)	

Prognostic factor (cont'd)	Osimertinib + chemotherapy	Osimertinib
Detected EGFRm, n	148	161
3-year OS rate, %	53	42
mOS, mo (95%CI)	38.4 (33.2, 46.6)	32.5 (28.8, 35.8)
HR (95%CI)	0.79 (0.60, 1.03)	
Non-detected EGFRm, n	65	48
3-year OS rate, %	83	77
mOS, mo (95%CI)	NR (50.8, NC)	NR (46.0, NC)
HR (95%CI)	0.79 (0.44, 1.44)	
With bone metastases, n	132	142
3-year OS rate, %	55	42
mOS, mo (95%CI)	40.2 (33.9, 47.2)	32.3 (26.7, 36.5)
HR (95%CI)	0.76 (0.56, 1.02)	
Without bone metastases, n	147	136
3-year OS rate, %	71	60
mOS, mo (95%CI)	NR (46.6, NC)	44.5 (38.3, NC)
HR (95%CI)	0.79 (0.57, 1.10)	

LBA77: FLAURA2: exploratory overall survival (OS) analysis in patients (pts) with poorer prognostic factors treated with osimertinib (osi) ± platinum-pemetrexed chemotherapy (CTx) as first-line (1L) treatment (tx) for EGFR-mutated (EGFRm) advanced NSCLC – Jänne PA, et al

• **Key results (cont.)**

Prognostic factor (cont'd)	Osimertinib + chemotherapy	Osimertinib
TP53 altered*, n	46	40
3-year OS rate, %	65	58
mOS, mo (95%CI)	51.1 (35.0, NC)	43.1 (34.0, 50.1)
HR (95%CI)	0.71 (0.40, 1.27)	
TP53 WT, n	33	34
3-year OS rate, %	85	76
mOS, mo (95%CI)	NR (46.6, NC)	NR (41.3, NC)
HR (95%CI)	0.70 (0.32, 1.54)	

• **Conclusions**

- In patients with advanced EGFR-mutant NSCLC, osimertinib + platinum-pemetrexed chemotherapy significantly prolonged OS, and the benefit was consistent across all prognostic patient subgroups

1846MO: Intracranial efficacy of olomorasib, a second-generation KRAS G12C inhibitor, in patients with KRAS G12C-mutant NSCLC who have active, untreated brain metastases – Cassier P, et al

- **Study objective**

- To evaluate the intracranial efficacy of olomorasib in patients with KRAS G12C-mutant NSCLC and active untreated brain metastases

Key patient inclusion criteria

- Advanced NSCLC
- KRAS G12C mutant
- No prior KRAS G12C inhibitor
- Active untreated brain metastases
- ECOG PS 0–1

(n=201)



Cohort B8: NSCLC
Olomorasib 150 mg BID
(n=21)

Primary endpoints

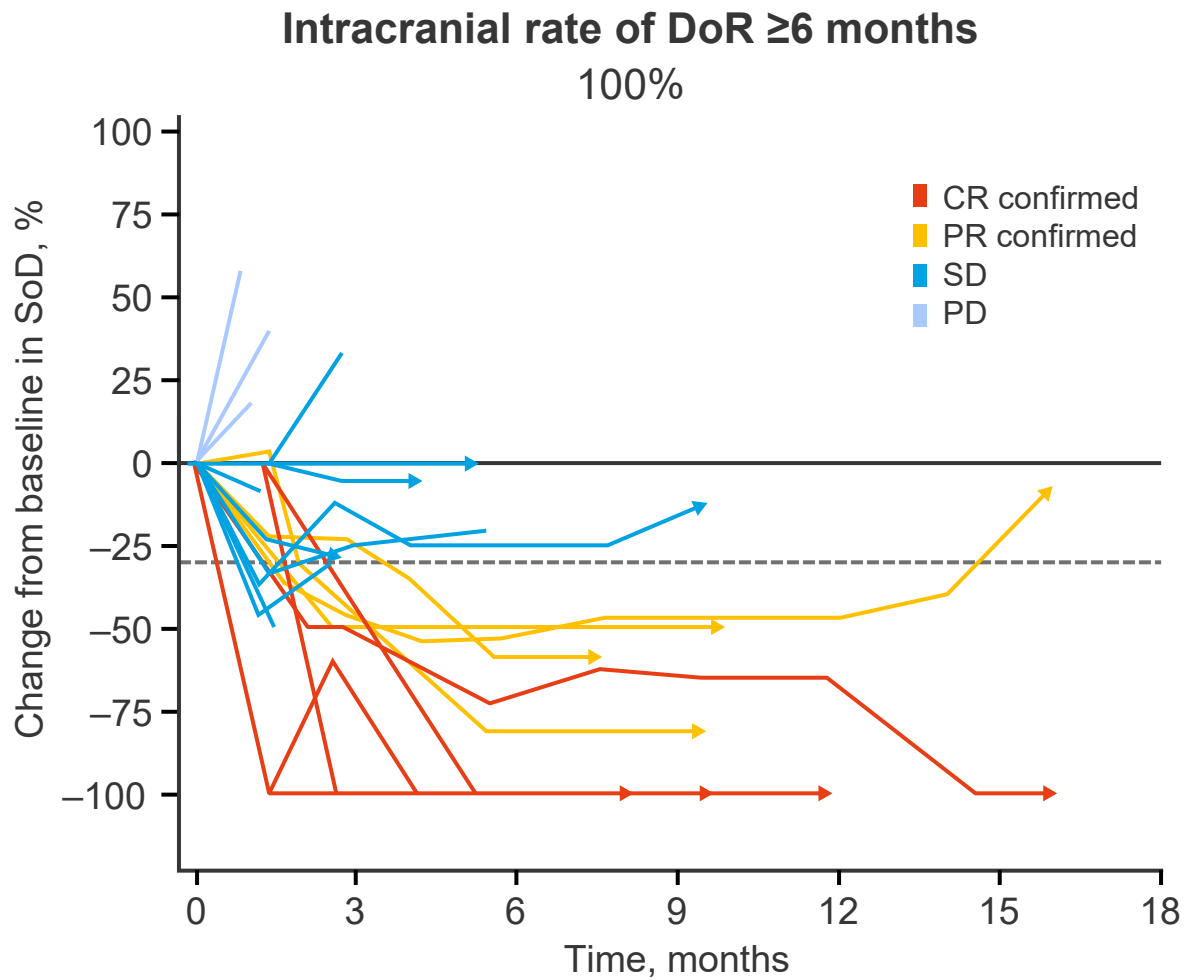
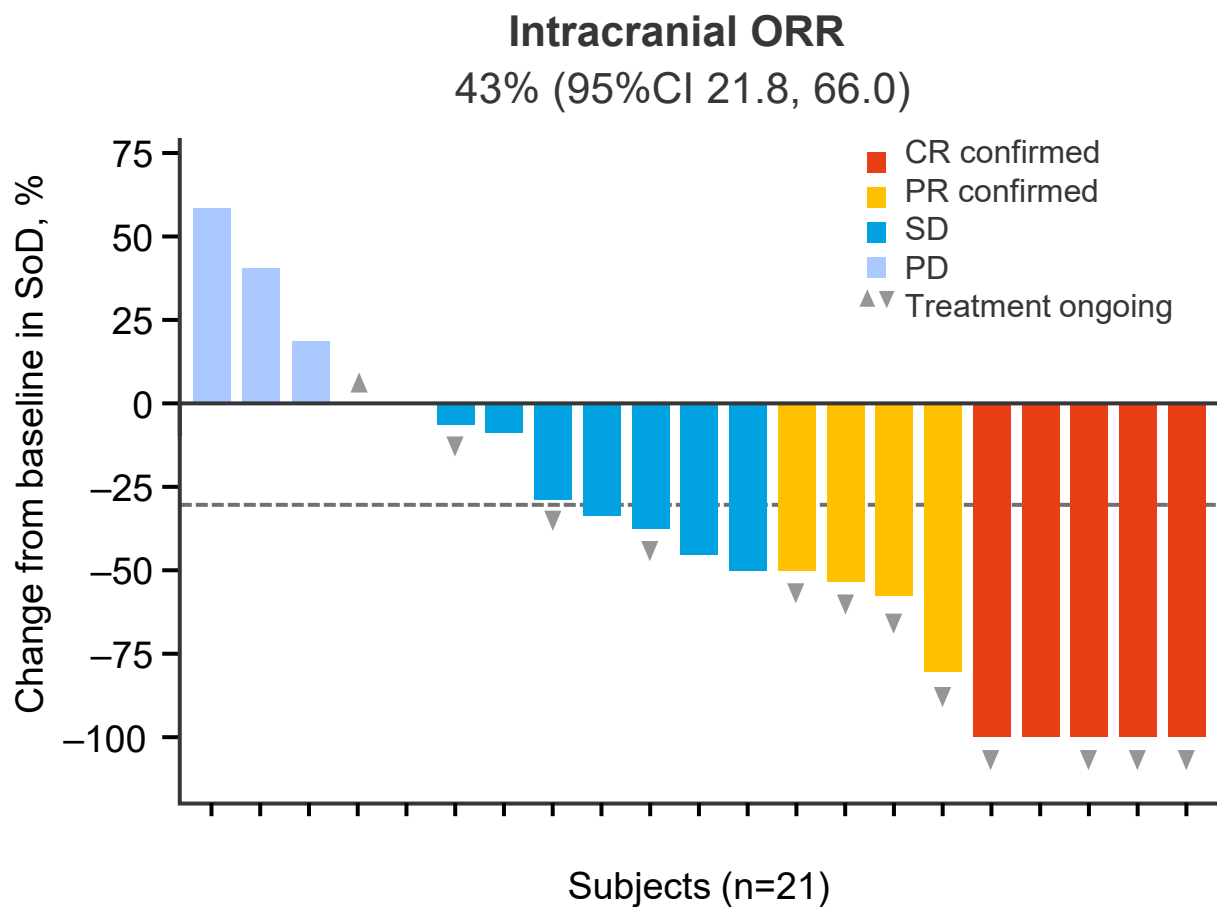
- Safety and tolerability

Secondary endpoints

- Pharmacokinetics, intracranial ORR, intracranial DoR, ORR, DoR, DCR, PFS

1846MO: Intracranial efficacy of olomorasib, a second-generation KRAS G12C inhibitor, in patients with KRAS G12C-mutant NSCLC who have active, untreated brain metastases – Cassier P, et al

- Key results



1846MO: Intracranial efficacy of olomorasib, a second-generation KRAS G12C inhibitor, in patients with KRAS G12C-mutant NSCLC who have active, untreated brain metastases – Cassier P, et al

- Key results (cont.)

TRAEs, n (%)	Olomorasib (n=201)	
	Any grade	Grade ≥3
Any	140 (70)	14 (7)
Diarrhea	56 (28)	1 (1)
Nausea	24 (12)	-
Fatigue	19 (9)	1 (1)
ALT increased	19 (9)	2 (1)
AST increased	19 (9)	3 (2)

- Conclusions

- In patients with KRAS G12C-mutant NSCLC, olomorasib showed meaningful intracranial antitumor activity and disease control, with durable responses and a manageable safety profile

1987MO: Efficacy of lorlatinib after failure of a first-line ROS1 tyrosine kinase inhibitor (ROS1 TKI) in patients (pts) with advanced ROS1-positive non-small cell lung cancer (ROS1+ NSCLC) (IFCT-2003 ALBATROS) – Duruisseaux M, et al

- **Study objective**

- To evaluate the efficacy and safety of lorlatinib after failure of 1L ROS1 TKI in patients with advanced ROS1-positive NSCLC in the ALBATROS study

Key patient inclusion criteria

- Advanced NSCLC
 - ROS1 positive
 - Failed on 1L ROS1 TKI
 - Stable CNS metastases
 - Tumour tissue and blood samples available
 - ECOG PS 0–2
- (n=54)

Lorlatinib 100 mg/day
(n=50)

PD

Primary endpoints

- Confirmed ORR (investigator assessed)

Secondary endpoints

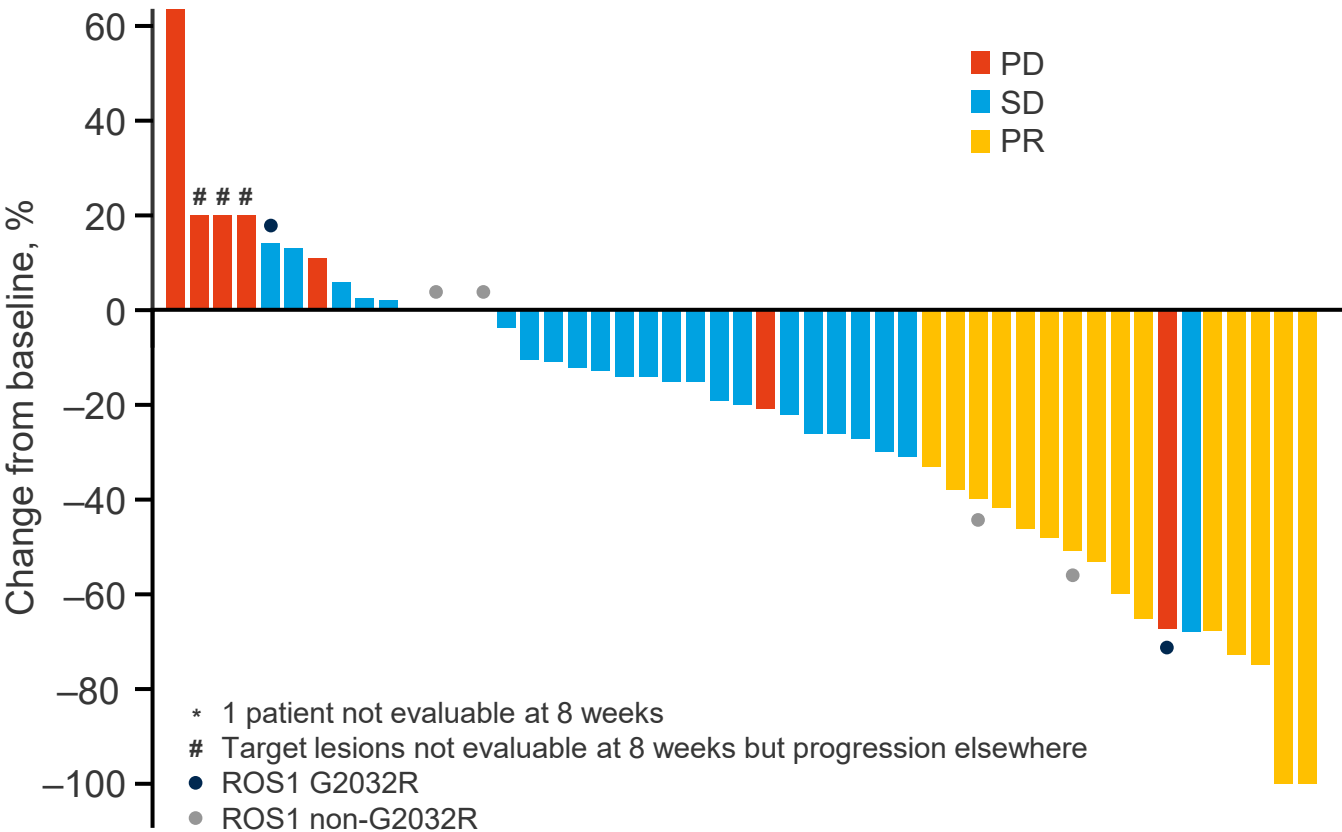
- Confirmed ORR (BICR), DCR, PFS, DoR, OS, CNS ORR, safety

1987MO: Efficacy of lorlatinib after failure of a first-line ROS1 tyrosine kinase inhibitor (ROS1 TKI) in patients (pts) with advanced ROS1-positive non-small cell lung cancer (ROS1+ NSCLC) (IFCT-2003 ALBATROS) – Duruisseaux M, et al

- Key results

Response, n (%) [95%CI]	Investigator assessed (n=50)	BICR assessed (n=50)
ORR	15 (30.0) [17.3,42.7]	17 (34.0) [20.9, 47.1]
CR	0	0
PR	15 (30.0) [17.3,42.7]	17 (34.0) [20.9, 47.1]
DCR	42 (84.0) [73.8, 94.3]	37 (74.0) [61.8, 86.2]

Investigator assessed CNS ORR, n (%) [95%CI]	Lorlatinib (n=13)
ORR	12 (92.3) [77.8, 100]
CR	7 (53.8) [26.7, 80.9]
PR	5 (38.5) [12.0, 64.9]
SD	1 (7.7) [0, 22.2]
PD	0
DCR	13 (100) [100, 100]



1987MO: Efficacy of lorlatinib after failure of a first-line ROS1 tyrosine kinase inhibitor (ROS1 TKI) in patients (pts) with advanced ROS1-positive non-small cell lung cancer (ROS1+ NSCLC) (IFCT-2003 ALBATROS) – Duruisseaux M, et al

- Key results (cont.)

Secondary endpoints	Lorlatinib (n=50)
Investigator assessed PFS	
Events, n (%)	36 (72.0)
mPFS, mo (95%CI)	7.4 (4.1, 14.6)
Investigator assessed DoR	
Events, n (%)	14 (56)
mDoR, mo (95%CI)	20.4 (3.9, 34.5)
OS	
Events, n (%)	23 (46.0)
mOS, mo (95%CI)	42.3 (14.5, NR)

	Lorlatinib (n=530)	
TRAEs occurring in ≥10%, %	All grades	Grade 3–5
Any	90.6	45.3
Blood cholesterol increased	81.1	37.7
Hypertriglyceridemia	64.2	9.5
Peripheral edema	43.4	0
Diarrhea	18.9	0
AST increased	17.0	0
ALT increased	15.1	0
Fatigue	15.1	0
Weight increased	15.1	1.9
Anemia	13.2	0

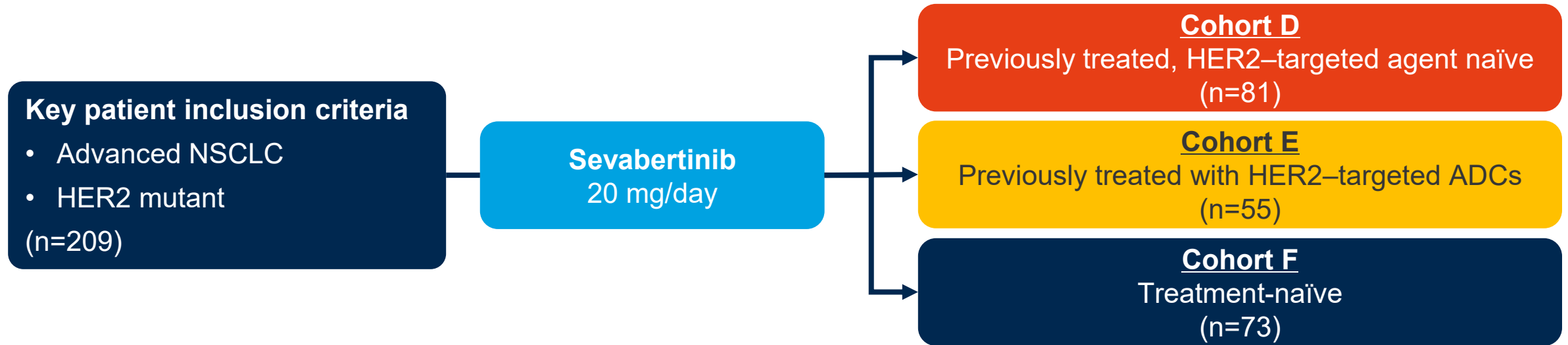
- Conclusions

- In patients with advanced ROS1-positive NSCLC, lorlatinib demonstrated durable antitumor activity and CNS efficacy with a manageable safety profile

LBA75: Sevabertinib (BAY 2927088) in advanced HER2-mutant non-small cell lung cancer (NSCLC): results from the SOHO-01 study – Le X, et al

- **Study objective**

- To evaluate the efficacy and safety of sevabertinib in patients with advanced HER2-mutant NSCLC in the SOHO-01 study



Primary endpoints (extension phase)

- ORR (BICR, RECIST v1.1)

Secondary endpoints

- DoR, DCR, PFS, safety

LBA75: Sevabertinib (BAY 2927088) in advanced HER2-mutant non-small cell lung cancer (NSCLC): results from the SOHO-01 study – Le X, et al

- Key results

ORR (BICR)

	Cohort D (n=81)	Cohort E (n=55)	Cohort F (n=73)
Median FU, mo (range)	13.8 (1–32)	11.6 (2–22)	9.9 (<1 –15)
BOR, n (%)			
CR	2 (2)	3 (5)	3 (4)
PR	50 (62)	18 (33)	49 (67)
SD	20 (25)	23 (42)	16 (22)
PD	6 (7)	7 (13)	2 (3)
NE	3 (4)	4 (7)	1 (1)
NA	-	-	2 (3)
ORR,* n (%) [95%CI]	52 (64) [53, 75]	21 (38) [25, 52]	52 (71) [59, 81]
DCR,† n (%) [95%CI]	66 (81) [71, 89]	39 (71) [57, 82]	65 (89) [80, 95]
mDoR, mo (95%CI)	9.2 (6.3, 13.5)	8.5 (5.6, 16.4)	11.0 (81, NE)
mPFS, mo (95%CI)	8.3 (6.9, 12.3)	5.5 (4.3, 8.3)	NE (9.6, NE)

*Confirmed CR and PR; †confirmed CR, PR, or SD for ≥12 week.

Le X, et al. Ann Oncol 2025;36(suppl):Abstr LBA75
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LBA75: Sevabertinib (BAY 2927088) in advanced HER2-mutant non-small cell lung cancer (NSCLC): results from the SOHO-01 study – Le X, et al

- Key results (cont.)

ORR (RECIST, v1.1) in patients with and without brain metastases at baseline

	Cohort D	Cohort E	Cohort F	Total
Brain metastases at baseline, n/N (%)	18/81 (22)	15/55 (27)	9/73 (12)	42/209 (20)
Post-progression in brain	4/18 (22)	3/15 (20)	0/9 (0)	7/42 (17)
ORR, n/N (%)				
All patients	52/81 (64)	21/55 (38)	52/73 (71)	125/209 (60)
Brain metastases	11/18 (61)	4/15 (27)	7/9 (78)	22/42 (52)
No brain metastases	41/63 (65)	17/40 (43)	45/64 (70)	103/167 (62)
No brain metastases at baseline, n/N (%)	63/81 (78)	40/55 (73)	64/73 (88)	167/209 (80)
Post-progression in brain	4/63 (6)	2/40 (5)	2/64 (3)	8/167 (5)

LBA75: Sevabertinib (BAY 2927088) in advanced HER2-mutant non-small cell lung cancer (NSCLC): results from the SOHO-01 study – Le X, et al

• Key results (cont.)

Mot frequent TRAEs (≥10% of total), %	Cohort D (n=81)		All cohorts (n=209)	
	Grade 1–2	Grade 3	Grade 1–2	Grade 3
Diarrhea	63	23	73	14
Rash	49	1	48	1
Paronychia	27	0	26	0
Stomatitis	17	1	18	1
Nausea	19	3	16	2
Hypokalemia	12	4	14	6
Vomiting	14	4	11	4
Anemia	15	1	16	1
Weight decreased	17	0	14	0

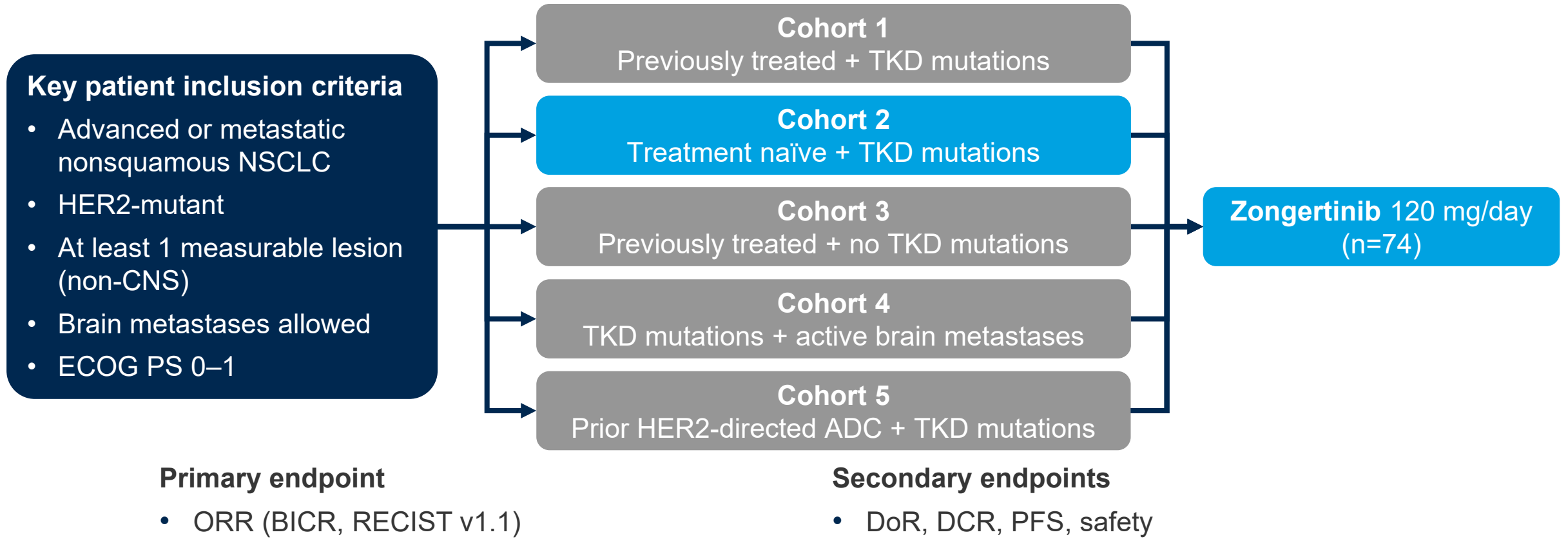
Mot frequent TRAEs (≥10% of total), % (cont'd)	Cohort D (n=81)		All cohorts (n=209)	
	Grade 1–2	Grade 3	Grade 1–2	Grade 3
ALT increased	15	1	13	1
Dry skin	17	0	14	0
AST increased	16	1	13	1
Pruritus	17	3	13	1
Appetite decreased	11	4	13	2
Amylase increased	15	0	14	1
Lipase increased	12	0	16	0

• Conclusions

- In patients with advanced HER2-mutant NSCLC, sevabertinib demonstrated a durable response regardless of the prior treatment, with high efficacy observed in treatment-naïve patients
- Previously treated patients with baseline brain metastases achieved a similar ORR to those without brain metastases
- The safety profile was manageable but included a high proportion of patients experiencing GI toxicities

LBA74: Zongertinib as first-line treatment in patients with advanced HER2-mutant NSCLC: Beamion LUNG 1 – Popat S, et al

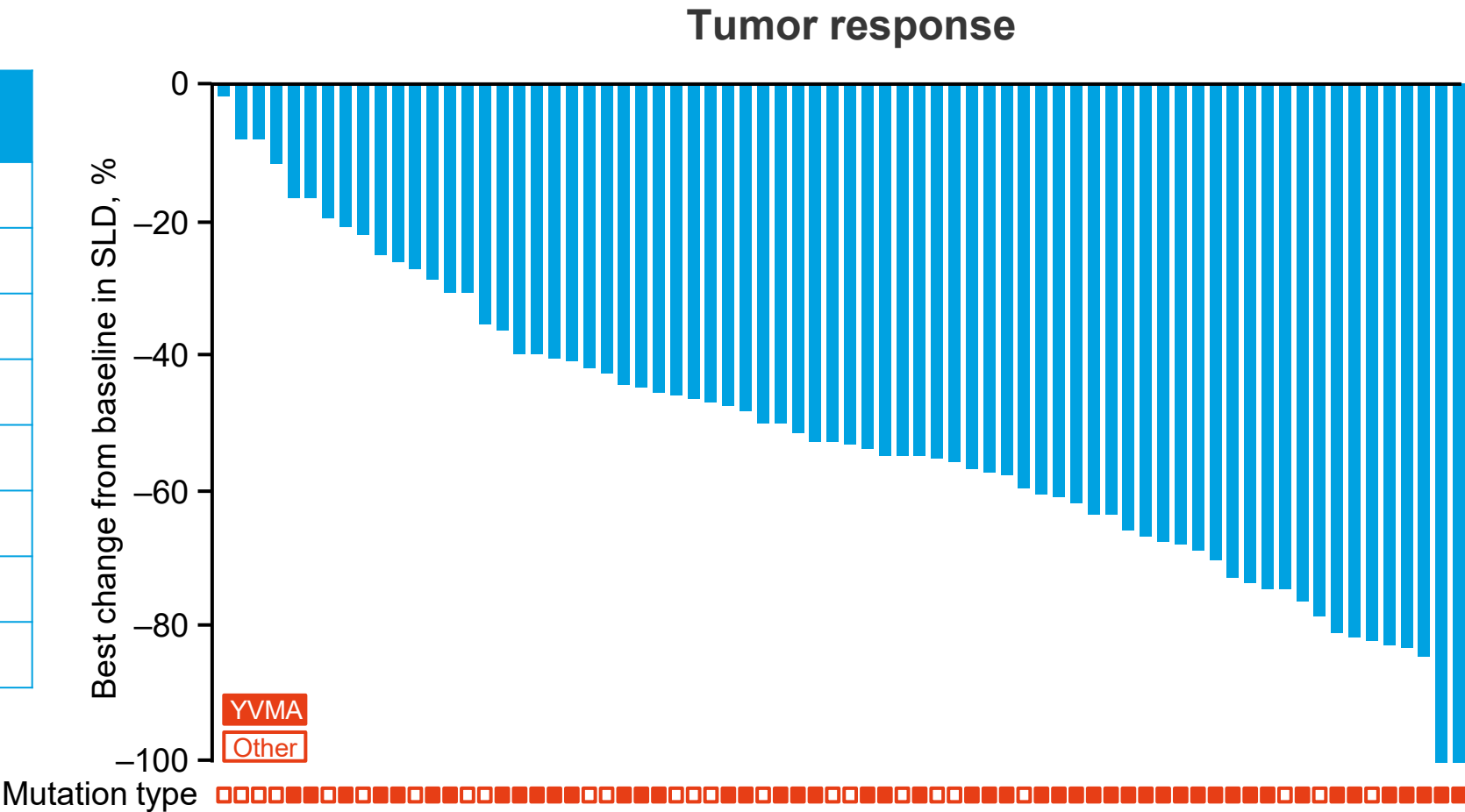
- **Study objective**
 - To evaluate the efficacy and safety of 1L zongertinib in patients with advanced HER2-mutant NSCLC in the Beamion LUNG 1 study



LBA74: Zongertinib as first-line treatment in patients with advanced HER2-mutant NSCLC: Beamion LUNG 1 – Popat S, et al

- Key results

Confirmed response by BICR (RECIST, v1.1)	Cohort 2 (n=74)*
ORR, % (95%CI)	77 (66, 85)
p-value	<0.0001
BOR, n (%)	
CR	6 (8)
PR	51 (69)
SD	14 (19)
PD	1 (1)†
DCR, % (95%CI)	96 (89, 99)



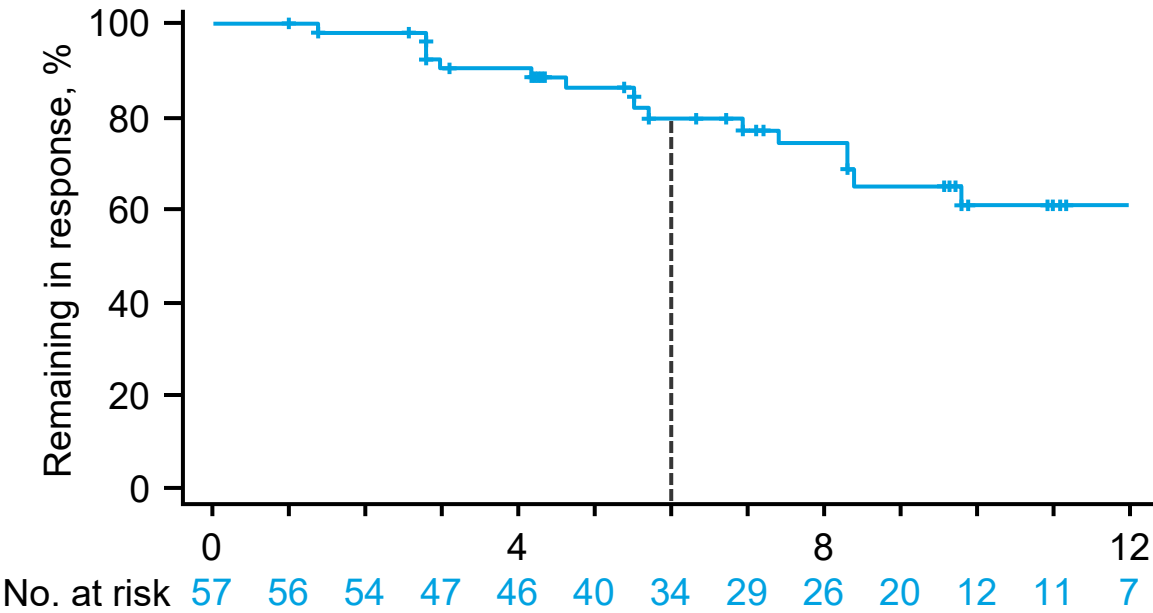
*Two patients were not evaluable for response; †PD due to non-target lesion progression. Popat S, et al. Ann Oncol 2025;36(suppl):Abstr LBA74 55

LBA74: Zongertinib as first-line treatment in patients with advanced HER2-mutant NSCLC: Beamion LUNG 1 – Popat S, et al

- Key results (cont.)

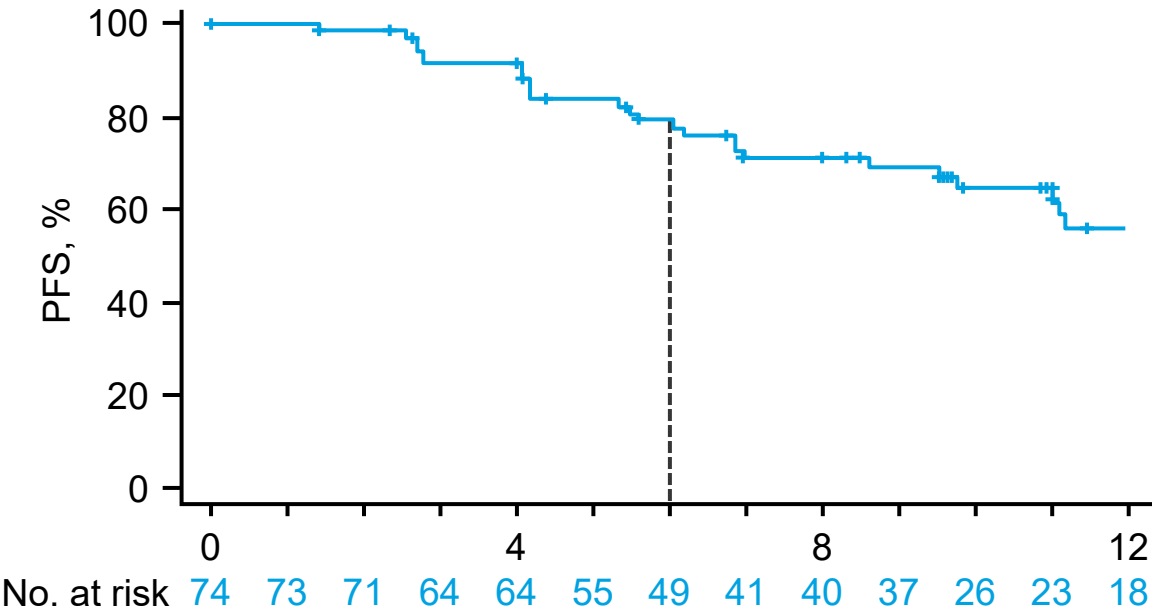
6-month DoR

Cohort 2	
Median FU, mo (95%CI)	9.7 (7.1, 9.9)
DoR, % (95%CI)	80 (65, 89)



6-month PFS

Cohort 2	
Median FU, mo (95%CI)	11.0 (9.7, 12.4)
6-month PFS, % (95%CI)	79 (68, 87)



LBA74: Zongertinib as first-line treatment in patients with advanced HER2-mutant NSCLC: Beamion LUNG 1 – Popat S, et al

- Key results (cont.)

TRAEs, n (%)	Cohort 2
Any	67 (91)
Grade 3	13 (18)
Led to dose reduction	11 (15)
Led to dose discontinuation	7 (9)

AEs, n, %	Cohort 2	
	All	Grade 3
Diarrhea	40 (54)	2 (3)
Rash	17 (23)	0
ALT increased	13 (18)	3 (4)
AST increased	12 (16)	2 (3)
Dysgeusia	12 (16)	0
Nausea	12 (16)	0
Dry skin	10 (14)	0
Pruritus	10 (14)	0
Paronychia	9 (12)	1 (1)
Stomatitis	8 (11)	0

- Conclusions

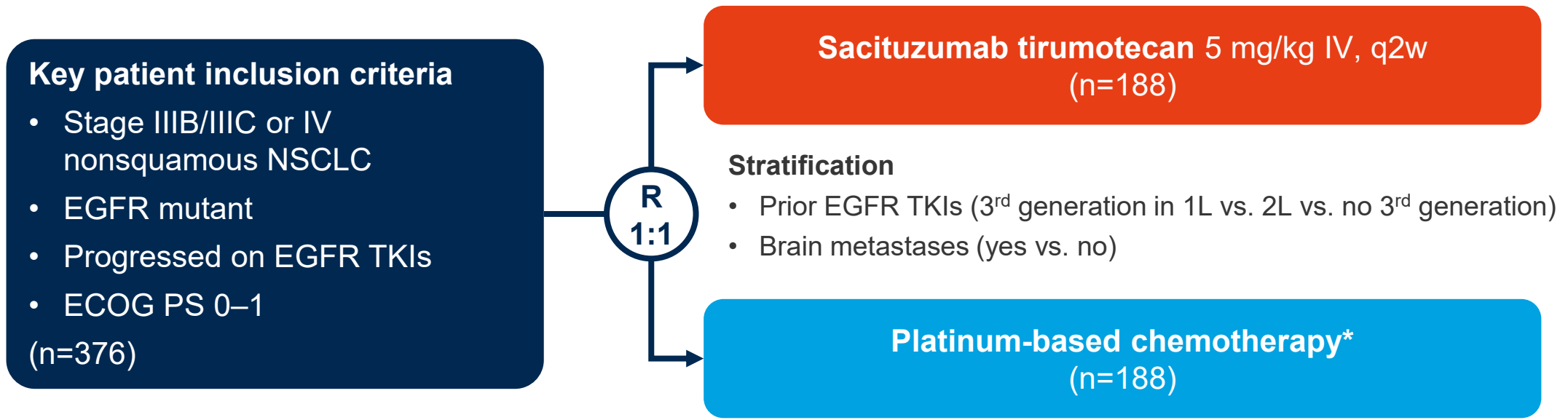
- In patients with advanced HER2-mutant NSCLC, 1L zongertinib demonstrated a significant ORR benefit with durable responses, and was generally well tolerated, although around half of the patients experienced diarrhea but this was rarely grade 3

Advanced NSCLC – Not radically treatable stage III and stage IV

ADCs and other therapies

LBA5: Sacituzumab tirumotecan (sac-TMT) vs platinum-based chemotherapy in EGFR-mutated (EGFRm) non-small cell lung cancer (NSCLC) following progression on EGFR-TKIs: results from the randomized, multi-center phase 3 OptiTROP-Lung04 study – Zhang L, et al

- Study objective
 - To evaluate the efficacy and safety of sacituzumab tirumotecan vs platinum-based chemotherapy in patients with EGFR-mutant NSCLC who have progressed on EGFR TKIs in the phase 3 OptiTROP-Lung04 study



- Primary endpoints**

 - PFS (BICR)
- Secondary endpoints**

 - OS, PFS (investigator assessed), ORR, DCR, DoR, safety

*Pemetrexed 500 mg/m² + carboplatin AUC5 or cisplatin 75 mg/m² q3w (up to 4 cycles), followed by pemetrexed 500 mg/m² q3w (maintenance).

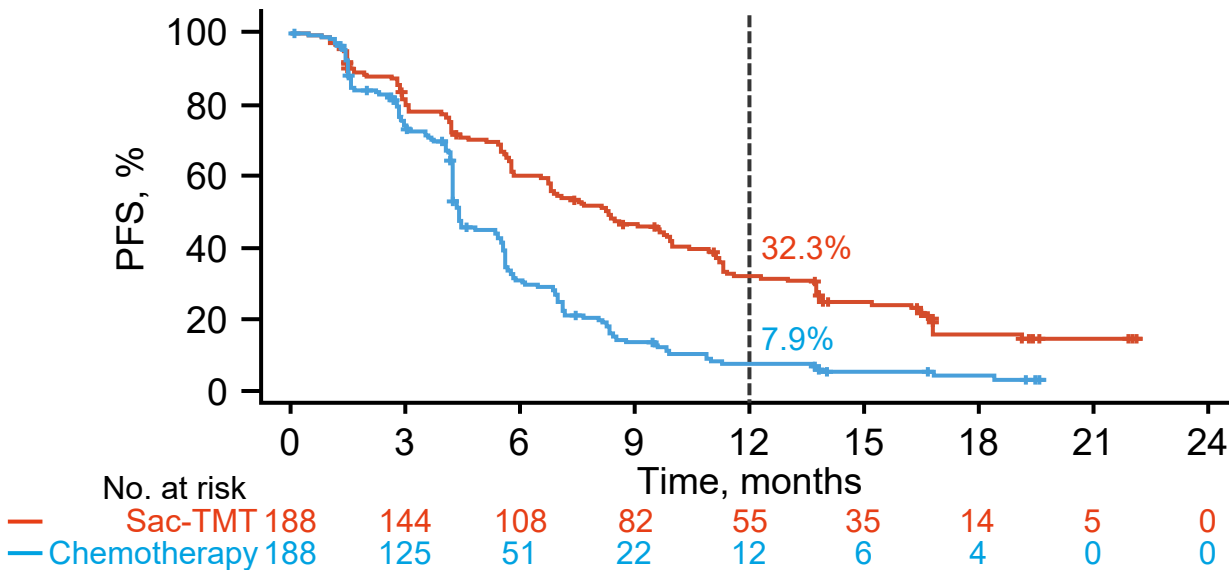
Zhang L, et al. Ann Oncol 2025;36(suppl):Abstr LBA5 59

LBA5: Sacituzumab tirumotecan (sac-TMT) vs platinum-based chemotherapy in EGFR-mutated (EGFRm) non-small cell lung cancer (NSCLC) following progression on EGFR-TKIs: results from the randomized, multi-center phase 3 OptiTROP-Lung04 study – Zhang L, et al

• Key results

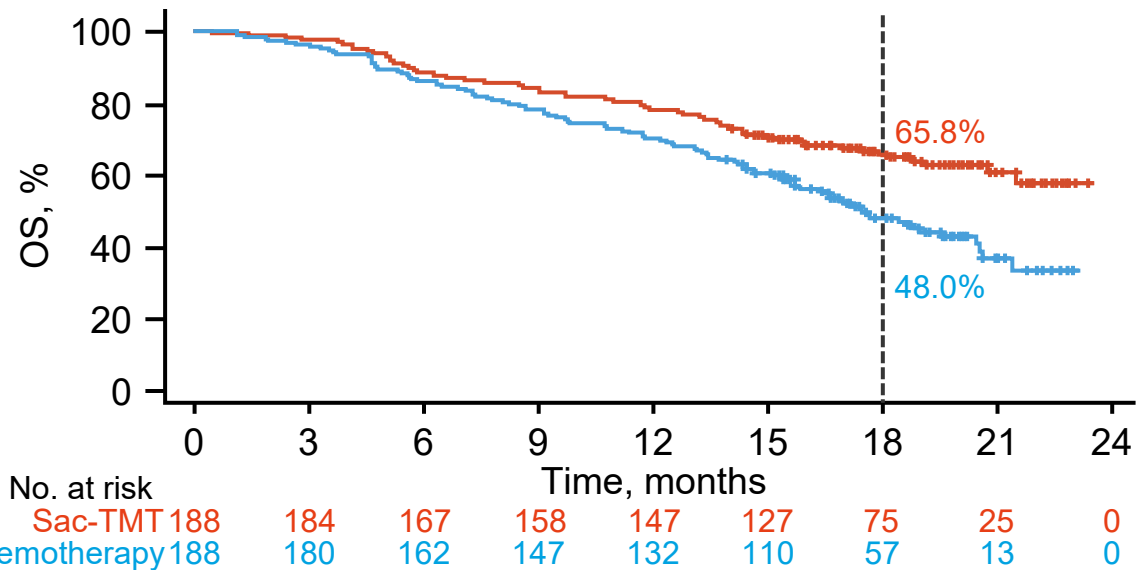
Progression-free survival (BICR)

	Sacituzumab tirumotecan (n=188)	Chemotherapy (n=188)
PFS events, n (%)	144 (76.6)	159 (84.6)
mPFS, mo (95%CI)	8.3 (6.7, 9.9)	4.3 (4.2, 5.5)
12-mo PFS, mo (95%CI)	32.3 (25.5, 39.2)	7.9 (4.4, 12.8)
HR (95%CI); p-value	0.49 (0.39, 0.62); <0.0001	



Overall survival

	Sacituzumab tirumotecan (n=188)	Chemotherapy (n=188)
OS events, n (%)	67 (35.6)	101 (53.7)
mOS, mo (95%CI)	NR (21.5, NE)	17.4 (15.7, 20.4)
18-mo OS, mo (95%CI)	65.8 (58.3, 72.3)	48.0 (40.2, 55.4)
HR (95%CI); 2-sided p-value*	0.60 (0.44, 0.82); 0.001*	



*Determined by the O’Brien-Fleming alpha spending function. Based on pre-specified OS IA, it was less than pre-specified efficacy boundary.

LBA5: Sacituzumab tirumotecan (sac-TMT) vs platinum-based chemotherapy in EGFR-mutated (EGFRm) non-small cell lung cancer (NSCLC) following progression on EGFR-TKIs: results from the randomized, multi-center phase 3 OptiTROP-Lung04 study – Zhang L, et al

- Key results (cont.)

	Sacituzumab tirumotecan (n=188)	Chemotherapy (n=182)
ORR, % (95%CI)	60.6 (53.3, 67.7)	43.1 (35.9, 50.5)
Difference,* % (95%CI)	17.0 (7.0, 27.1)	
DCR, % (95%CI)	87.2 (81.6, 91.6)	80.3 (73.9, 85.7)
Median DoR, mo (95%CI)	8.3 (6.2, 10.0)	4.2 (3.0, 4.4)
12-mo DoR rate, % (95%CI)	36.3 (27.3, 45.3)	8.1 (3.3, 15.8)

TRAEs, n (%)	Sacituzumab tirumotecan (n=188)	Chemotherapy (n=182)
Any	188 (100)	179 (98.4)
Grade ≥3	109 (58.0)	98 (53.8)
Serious	17 (9.0)	32 (17.6)
Led to dose reduction	57 (30.3)	41 (22.5)
Led to dose interruption	69 (36.7)	60 (33.0)
Led to dose discontinuation	0	1 (0.5)
Led to death	0	1 (0.5)†

- Conclusions

- In patients with EGFR-mutant NSCLC who had progressed on EGFR TKIs, sacituzumab tirumotecan significantly improved PFS and OS compared with platinum-based chemotherapy, with a manageable safety profile and no unexpected safety concerns

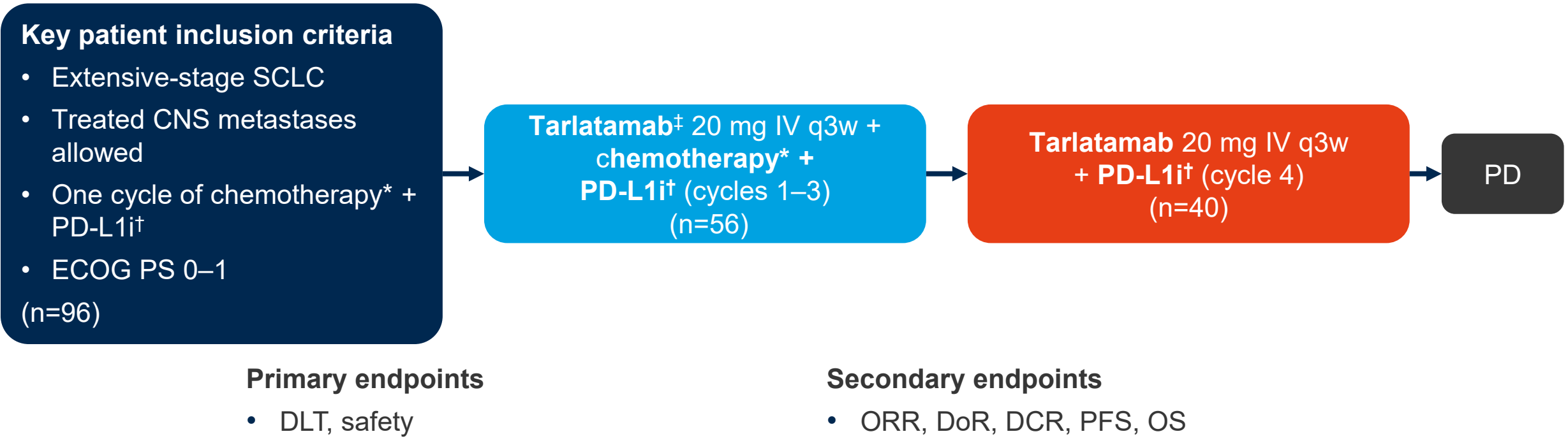
*Cochran-Mantel-Haenszel test; †cardiorespiratory arrest chemotherapy-related.

Other malignancies

SCLC, mesothelioma and thymic epithelial tumors

2757O: Tarlatamab with first-line chemoimmunotherapy for extensive stage small cell lung cancer (ES-SCLC): DeLLphi-303 study – Wermke M, et al

- **Study objective**
 - To evaluate the efficacy and safety of 1L tarlatamab + chemoimmunotherapy after 1 cycle of chemotherapy + immunotherapy in patients with extensive-stage SCLC in the DeLLphi-303 study



*Carboplatin AUC5 IV (D1) + etoposide 100 mg/m² (D1–3); †atezolizumab 1200 mg IV q3w OR durvalumab 1500 mg IV q3w; ‡tarlatamab was administered with step dosing: 1 mg (Cycle 1, D1), followed by 20 mg q3w.

Wermke M, et al. Ann Oncol 2025;36(suppl):Abstr 2757O 63

2757O: Tarlatamab with first-line chemoimmunotherapy for extensive stage small cell lung cancer (ES-SCLC): DeLLphi-303 study – Wermke M, et al

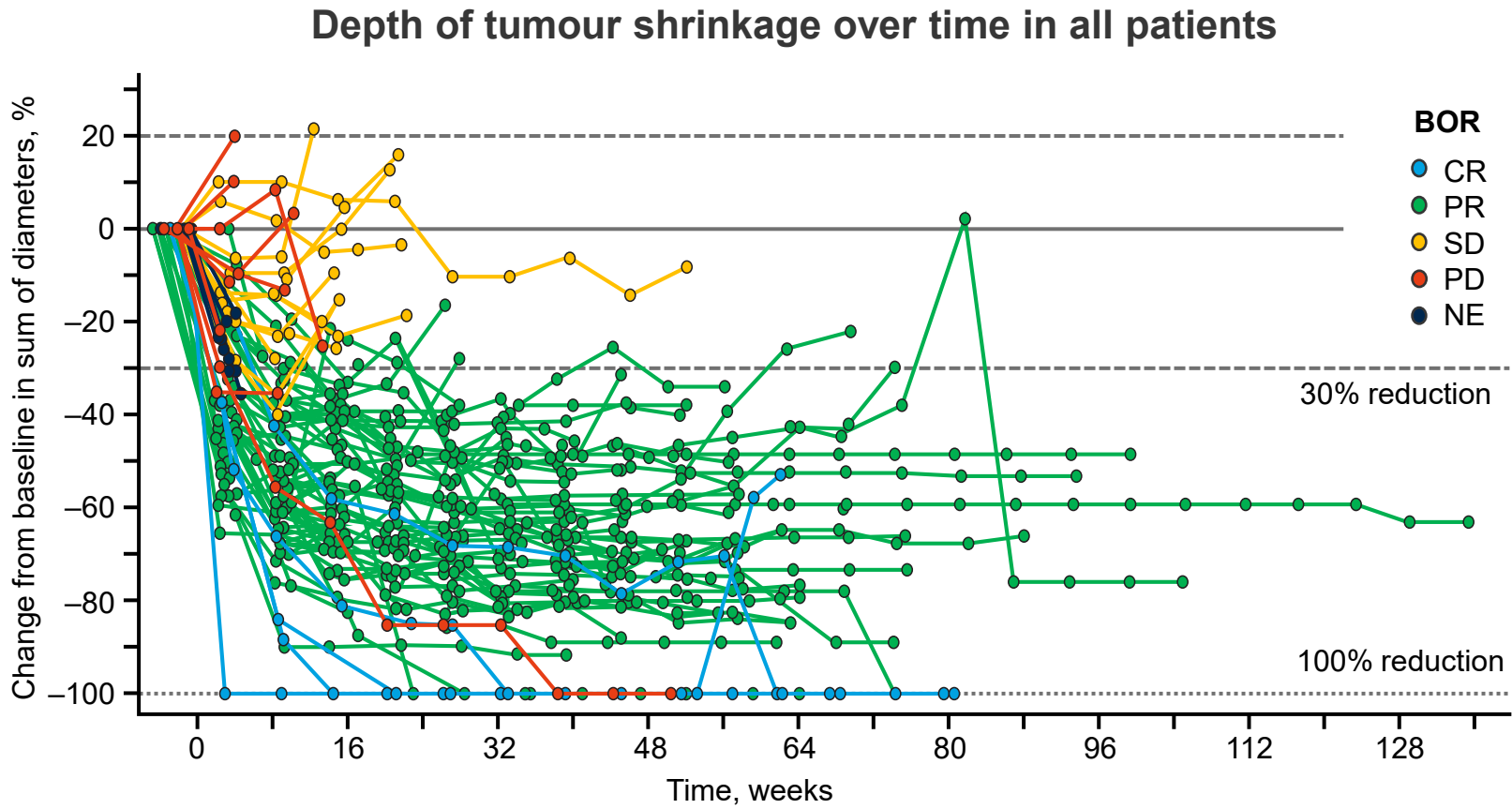
- Key results

Safety	Tarlatamab + EP + atezolizumab (n=56)	Tarlatamab + EP + durvalumab (n=40)	Overall (n=96)
Median duration of treatment, weeks (IQR)	46 (16–60)	30 (12–62)	46 (14–60)
Median study FU, mo (95%CI)	12.5 (11.3, 14.7)	14.8 (13.2, 15.0)	13.8 (12.5, 15.0)
Dose-limiting toxicities,* n (%)	3 (5)	0	3 (3)
Treatment-emergent AEs, n (%)	56 (100)	40 (100)	96 (100)
TRAEs, n (%)	56 (100)	40 (100)	96 (100)
Grade 3	26 (46)	15 (38)	41 (43)
Grade 4	21 (38)	13 (33)	34 (35)
Fatal TRAEs	0	1 (3)	1 (1)

2757O: Tarlatamab with first-line chemoimmunotherapy for extensive stage small cell lung cancer (ES-SCLC): DeLLphi-303 study – Wermke M, et al

• Key results (cont.)

	Overall (n=96)
ORR, n (%) [95%CI]	68 (71) [61, 80]
BOR, n (%)	
CR	5 (5)
PR	63 (66)
SD	11 (11)
PD	8 (8)
NE	9 (9)
mDoR, mo (95%CI)	11.0 (8.5, NE)
DCR, % (95%CI)	82 (73, 89)
mDoDC, mo (95%CI)	10.7 (7.7, 18.8)
12-mo OS, %	80.6



• Conclusions

- In patients with extensive-stage SCLC, 1L tarlatamab + chemoimmunotherapy provided durable response with a manageable safety profile

2759O: DAREON®-8: a phase I trial of first-line obrixtamig plus standard of care (SoC) in extensive-stage small cell lung carcinoma (ES-SCLC) – Peters S, et al

- **Study objective**
 - To evaluate the efficacy and safety of 1L obrixtamig + SoC in patients with extensive-stage SCLC in the phase 1 DAREON-8 study



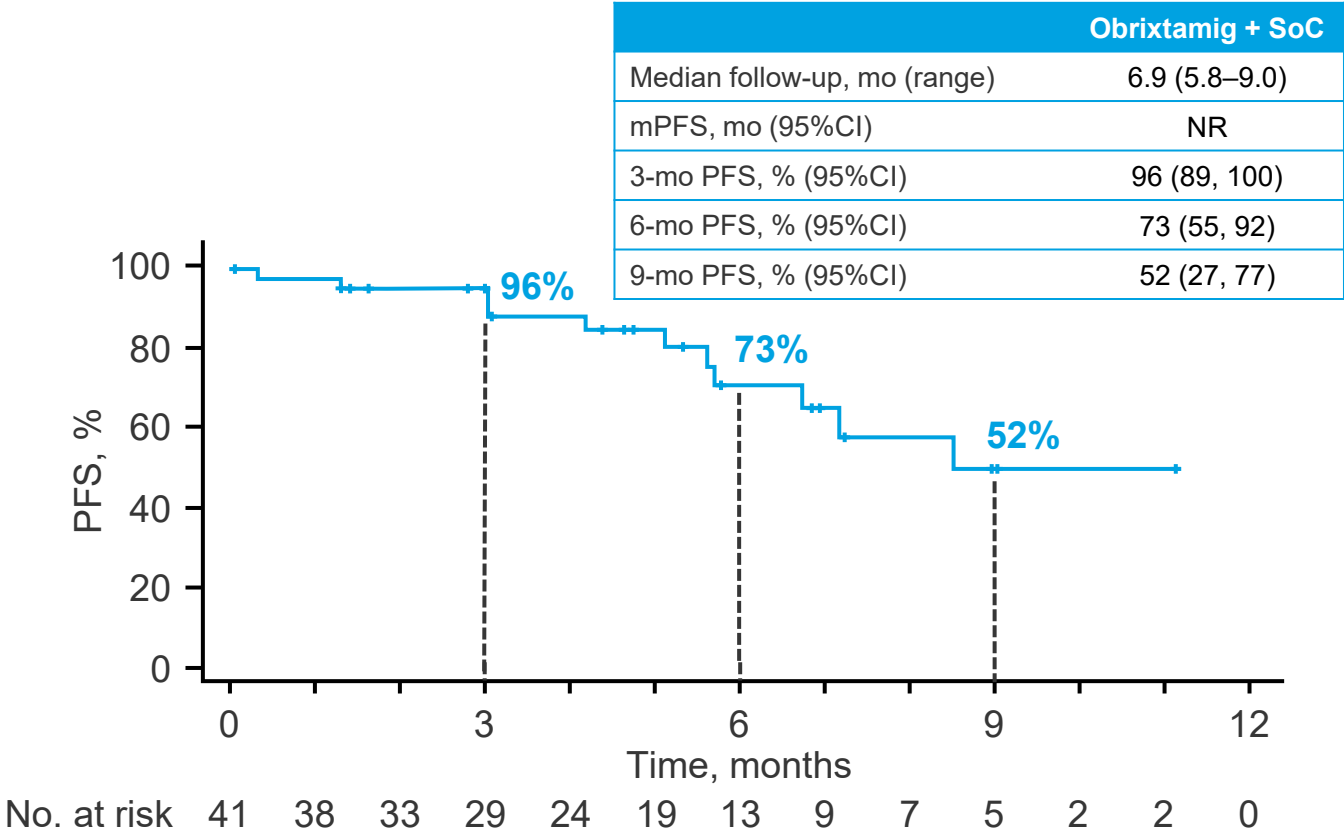
- Primary endpoints**
- DLT (evaluation period)

- Secondary endpoints**
- DLT (on-treatment period), ORR, DoR, safety

2759O: DAREON®-8: a phase I trial of first-line obrixtamig plus standard of care (SoC) in extensive-stage small cell lung carcinoma (ES-SCLC) – Peters S, et al

- Key results

Progression-free survival



Obrixtamig + SoC (n=28)	
Confirmed ORR, % (95%CI)	68 (49, 82)
Confirmed DCR, % (95%CI)	89 (73, 96)
mDoR, mo (95%CI)	7.3 (4.4, NC)
BOR, n (%)	
CR	1 (4)
PR	18 (64)
SD	6 (21)
PD	1 (4)
NE/missing	2 (7)

2759O: DAREON®-8: a phase I trial of first-line obrixtamig plus standard of care (SoC) in extensive-stage small cell lung carcinoma (ES-SCLC) – Peters S, et al

- Key results (cont.)

Obrixtamig-related AEs in ≥25% of patients, n (%)	All (n=28)	
	All grade	Grade ≥3
Any	27 (96)	11 (39)
CRS	14 (50)	0
Dysgeusia	11 (39)	0
Appetite decreased	9 (32)	0
Neutropenia	8 (29)	6 (21)*
Pyrexia	8 (29)	0
Anemia	7 (25)	0
Fatigue	7 (25)	1 (4)

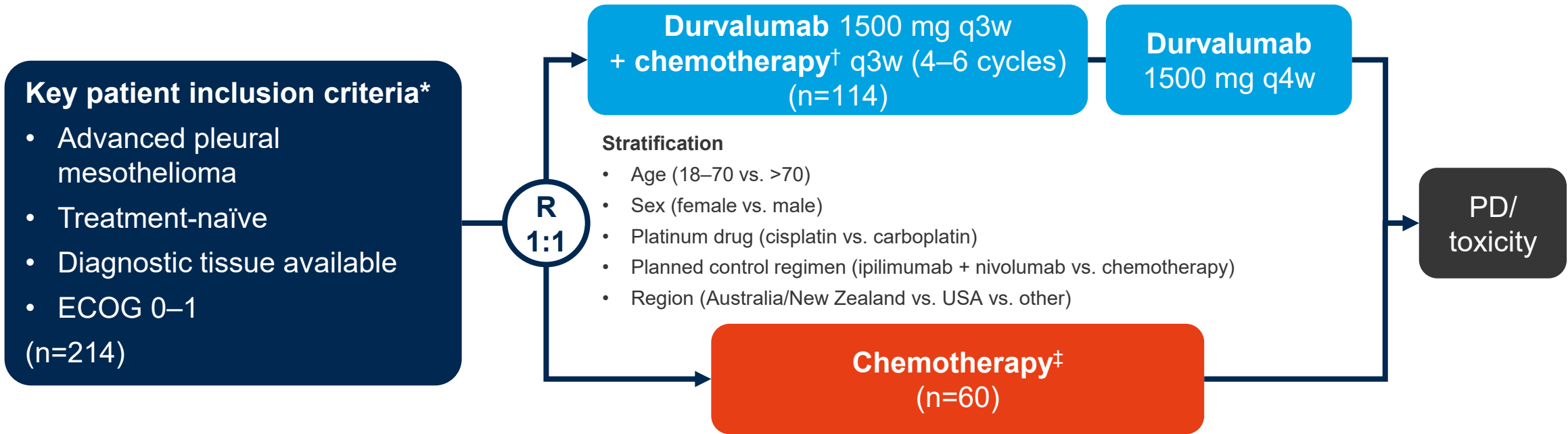
TEAEs, %	Grade ≥3	Grade ≥3 attributed to chemotherapy
Any	79	75
Neutropenia	54	54
Anemia	18	18
Appetite decreased	14	14
Asthenia	11	4
Thrombocytopenia	7	7

- Conclusions

- In patients with extensive-stage SCLC , 1L obrixtamig combined with SoC chemo-immunotherapy showed favorable tolerability with no unexpected toxicities and delivered encouraging efficacy

LBA104: Primary results of DREAM3R: DuRvalumab (MEDI4736) with chEmotherapy as first line treAtment in advanced pleural Mesothelioma - a phase 3 Randomised trial – Nowak AK, et al

- Study objective
 - To evaluate the efficacy and safety of 1L durvalumab + chemotherapy in patients with advanced pleural mesothelioma in the phase 3 DREAM3R study



- Primary endpoints**

 - OS
- Secondary endpoints**

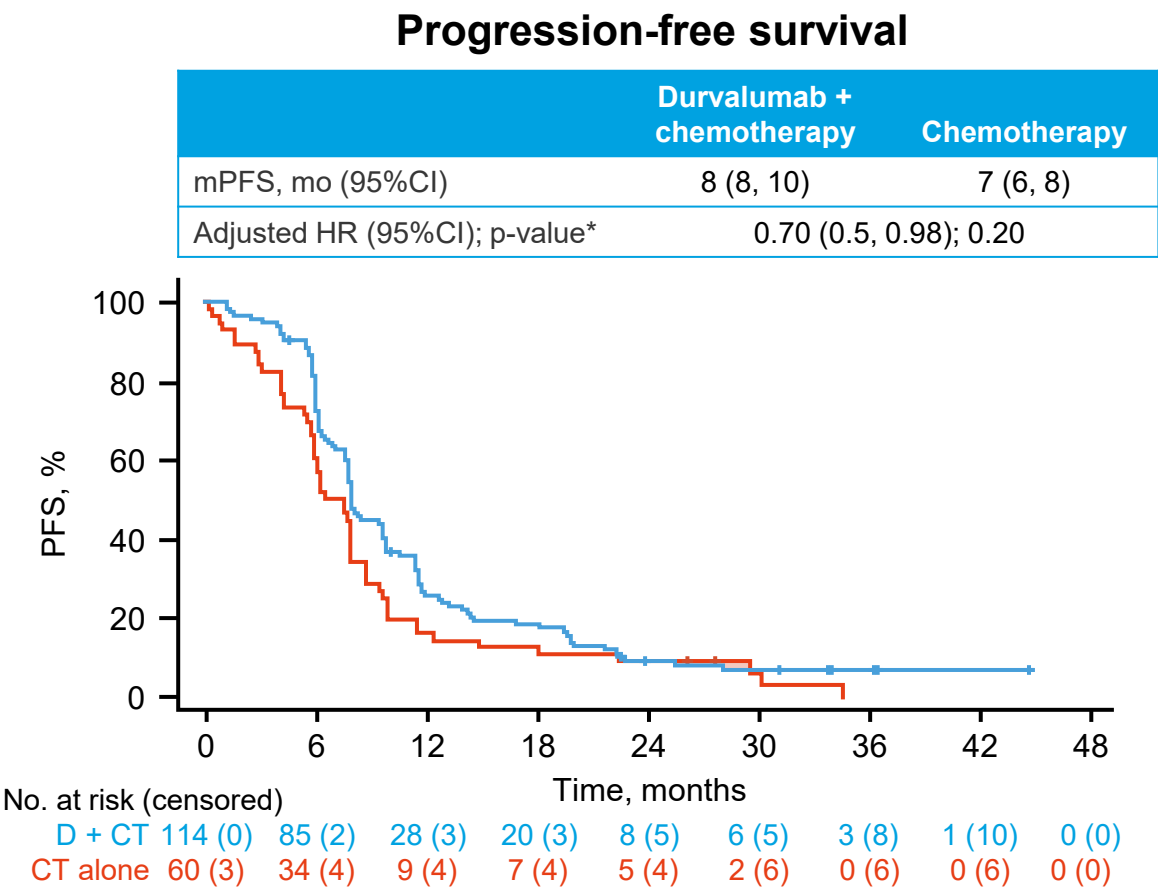
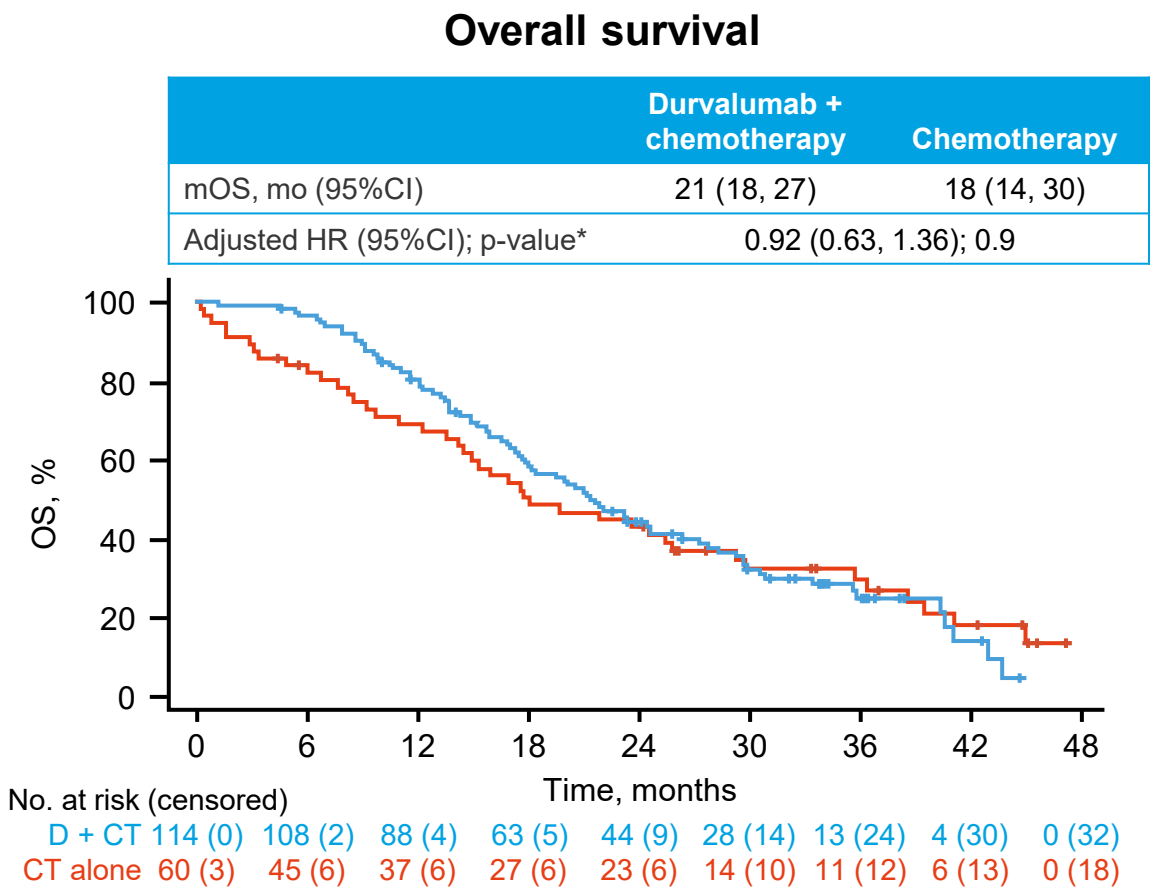
 - PFS, ORR, safety

*Key changes: protocol v3, choice of chemotherapy (cisplatin or carboplatin); protocol v4, investigator choice of control (chemotherapy or nivolumab + ipilimumab), randomization from 2:1 to 1:1, and limiting recruiting to epithelioid subtype; †cisplatin 75 mg/m² or carboplatin AUC5 + pemetrexed 500 mg/m²; ‡ipilimumab 1 mg/kg q6w + nivolumab 360 mg q3w or 3 mg/kg q2w OR chemotherapy.

Nowak AK, et al. Ann Oncol 2025;36(suppl):Abstr LBA104 69

LBA104: Primary results of DREAM3R: DuRvalumab (MEDI4736) with chEmotherapy as first line treAtment in advanced pleural Mesothelioma - a phase 3 Randomised trial – Nowak AK, et al

- Key results



*Stratified Log-rank test.

LBA104: Primary results of DREAM3R: DuRvalumab (MEDI4736) with chEmotherapy as first line treAtment in advanced pleural Mesothelioma - a phase 3 Randomised trial – Nowak AK, et al

- Key results (cont.)

Objective tumor response	Durvalumab + chemotherapy (n=113)	Chemotherapy (n=60)
iCR/iPR, n (%)	65 (58)	21 (35)
iSD/iPD/Unknown, n (%)	48 (42)	39 (65)

AEs occurring in ≥5% of patients, %	Durvalumab + chemotherapy (n=112)			Chemotherapy (n=60)		
	Grade 1–2	Grade 3–5	Any	Grade 1–2	Grade 3–5	Any
Fatigue	66	7	73	22	3	25
Nausea	61	2	63	27	2	29
Anemia	28	15	43	12	1	13
Neutrophil count decreased	19	12	31	4	2	6
Mucositis oral	15	1	16	6	1	7
Platelet count decreased	8	5	13	1	1	2
Pain	8	2	10	1	1	2
Thromboembolic event	6	3	9	0	3	3
Pleural effusion	6	3	9	1	1	2
Skin infection	6	1	7	1	1	2
Hypertension	5	1	6	2	1	3

- Conclusions

- In patients with advanced pleural mesothelioma, durvalumab + chemotherapy showed safety and efficacy outcomes consistent with prior phase 2 trials, but early trial closure limited definitive conclusions

LBA105: A phase II, open-label, single-arm, multi-center study of rivoceranib in patients with metastatic thymic epithelial tumor, KCSG LU23-09 (THRIVE) – Ahn M-J, et al

- **Study objective**

- To evaluate the efficacy and safety of rivoceranib (an anti-VEGFR2 TKI) in patients with metastatic thymic epithelial tumour in the phase 2 THRIVE study

Key patient inclusion criteria

- Metastatic thymic epithelial tumour, including thymoma A, AB, B1, B2, B3 and thymic carcinoma
- Progressed on prior treatment (n=40)

Rivoceranib
700 mg/day q4w (4 cycles)
(n=40)

PD/
toxicity

Primary endpoints

- ORR

Secondary endpoints

- PFS, DCR, DoR, safety

LBA105: A phase II, open-label, single-arm, multi-center study of rivoceranib in patients with metastatic thymic epithelial tumor, KCSG LU23-09 (THRIVE) – Ahn M-J, et al

- Key results

	Total (n=40)*	Thymoma (n=16)	Thymic carcinoma (n=24)
ORR, %	35.0	-	-
DCR, %	85.0	-	-
BOR, n (%)			
PR	14 (35.0)	5 (31.2)	9 (37.5)
SD	20 (50.0)	10 (62.5)	10 (41.7)
PD	2 (5.0)	0	2 (8.3)
NE	4 (10.0)	1 (6.3)	3 (12.5)
Median reduction in tumor size, %	-19.8 (-69.7, 50.7)	-21.0 (-69.7, -3.3)	-14.1 (-59.6, 50.7)
mPFS, mo	NR	-	-
mOS, mo	NR	-	-

*Four patients were not radiologically evaluable (treatment discontinuation, n=3; disease progression, n=1). Ahn M-J, et al. Ann Oncol 2025;36(suppl):Abstr LBA105 73

LBA105: A phase II, open-label, single-arm, multi-center study of rivoceranib in patients with metastatic thymic epithelial tumor, KCSG LU23-09 (THRIVE) – Ahn M-J, et al

- Key results (cont.)

Safety, n (%)	Total (n=40)			
	Any	Grade 1–2	Grade 3	Grade 4
Dose modification	25 (62.5)	-	-	-
Treatment discontinuation	6 (15.0)	-	-	-
TRAE ≥20%				
Proteinuria	17 (42.5)	12 (30.0)	4 (10.0)	1 (2.5)
Hypertension	19 (47.5)	12 (30.0)	7 (17.5)	0
Stomatitis	14 (35.0)	10 (25.0)	4 (10.0)	0
Palmar-plantar erythrodysesthesia syndrome	10 (25.0)	9 (22.5)	1 (2.5)	0
Nausea	9 (22.5)	9 (22.5)	0	0
Headache	8 (20.0)	8 (20.0)	0	0
Fatigue	8 (20.0)	8 (20.0)	0	0

- Conclusions

- In patients with metastatic thymic epithelial tumour, rivoceranib showed encouraging efficacy and had a manageable safety profile