

15th MADRID
on **Lung** CONGRESS
CANCER
23&24
November 2023

#15CongressGeCP

ALK. The optimal sequence of treatments

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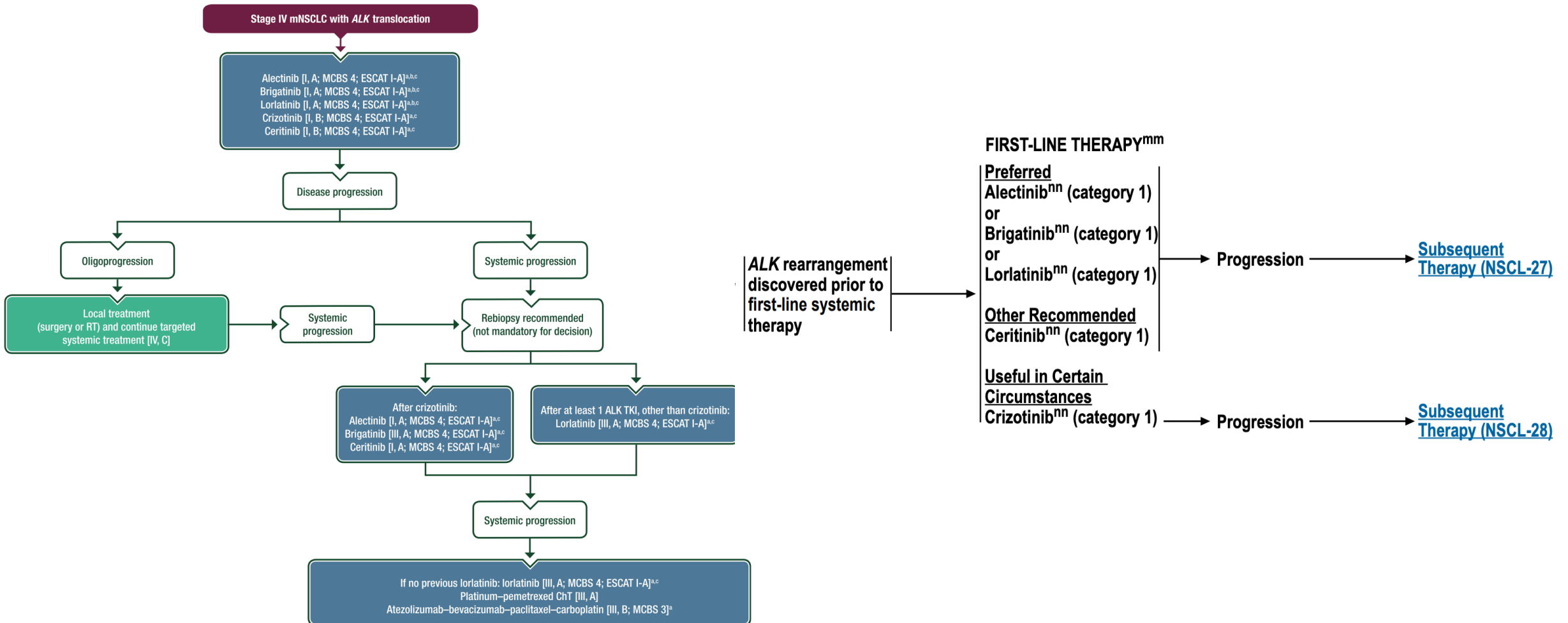
Conflicto de intereses

Employment, Consulting, Advisory role or Speaker:

**Pfizer, Boheringer, Novartis, Roche, Astra Zeneca, Sanofi,
Bristol, Jansen, Pfizer, Astellas, MSD, Ipsen**

Grant or travel support: MSD, Ipsen, Sanofi, Jansen, Roche

Guías ESMO y NCCN 2023





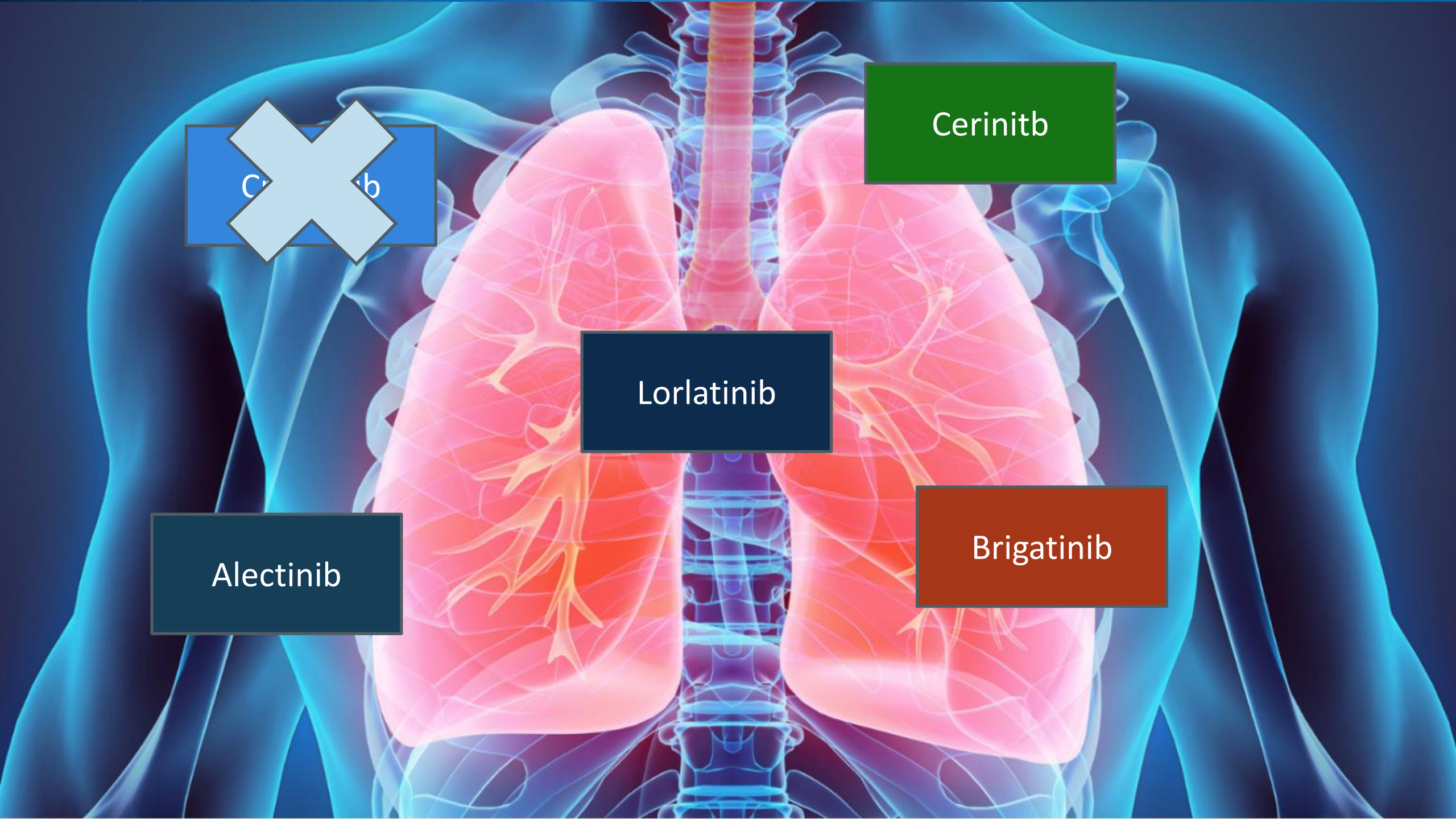
Crizotinib

Ceritinib

Lorlatinib

Alectinib

Brigatinib



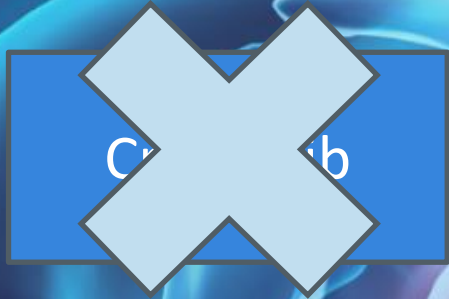
~~Ceritinib~~

Ceritinib

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Alectinib

Brigatinib

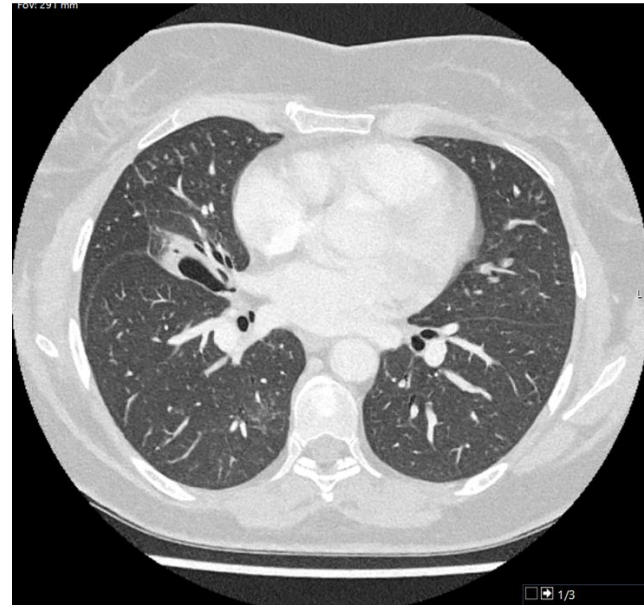
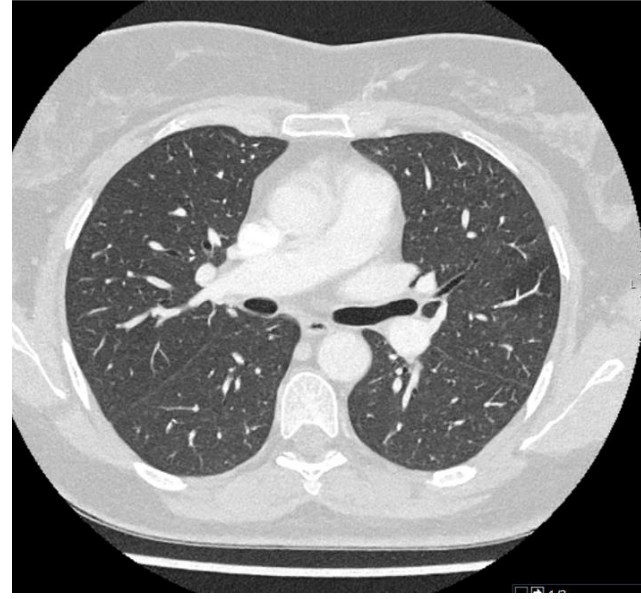
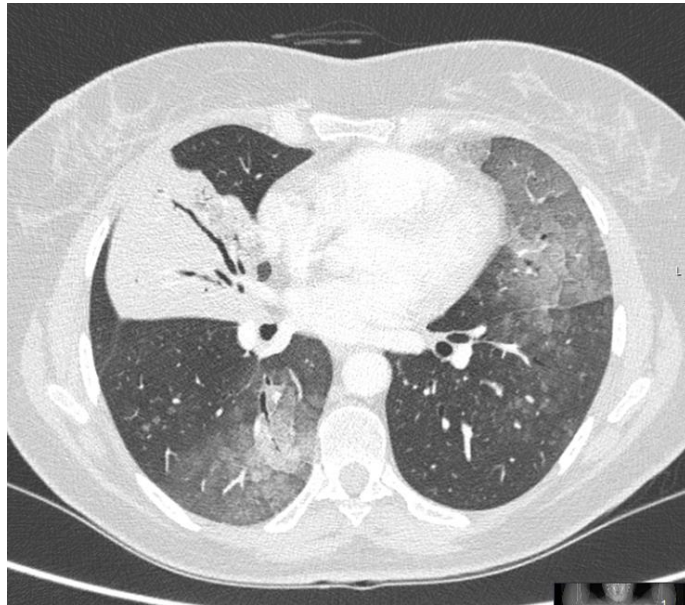
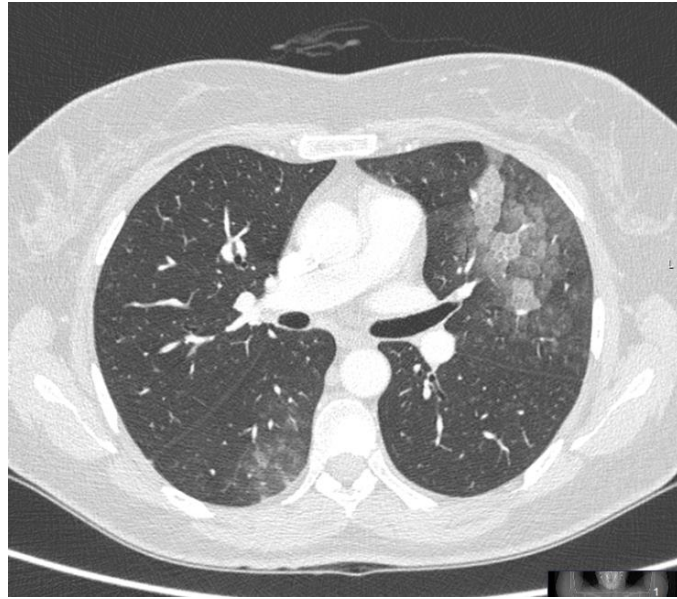


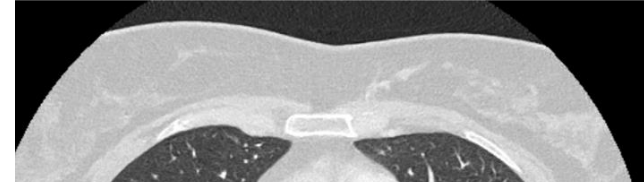
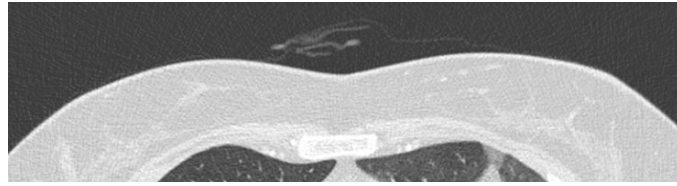
Lorlatinib

Alectinib

Brigatinib

Mujer 51 años,
NSCLC IV
ALK traslocado
Mayo 23



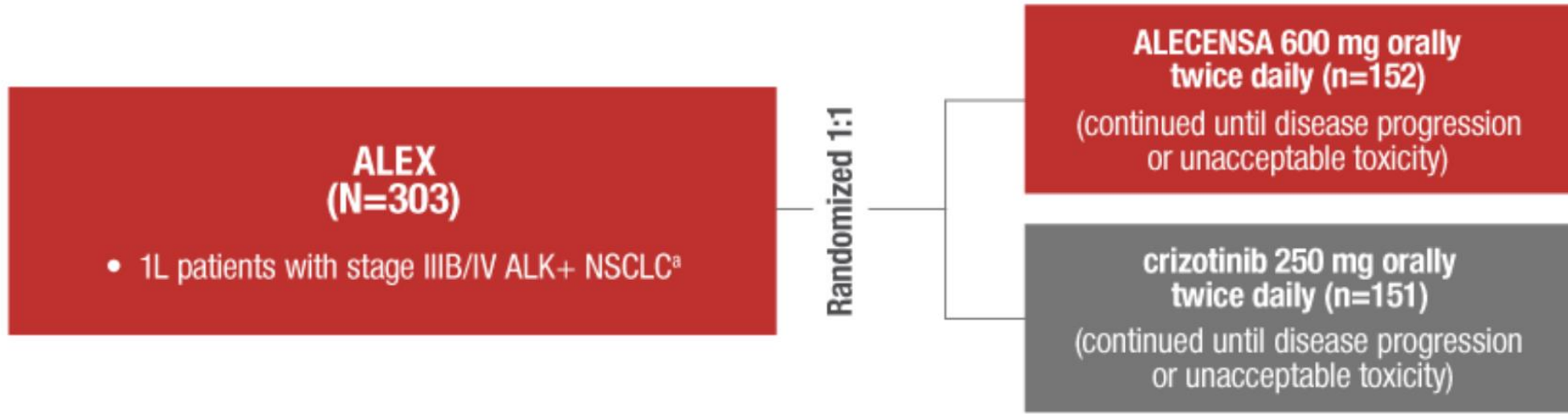


secuencia +

Del lat. *sequentia* 'continuación', de *sequi* 'seguir'.

1. f. Continuidad, sucesión ordenada.
2. f. Serie o sucesión de cosas que guardan entre sí cierta relación.
3. f. En una película, plano o serie de planos que constituyen una unidad argumental.





Crossover no permitido

PRIMARY ENDPOINT²:

- PFS (INV)^b

ADDITIONAL EFFICACY ENDPOINTS²:

- PFS (IRC)^b
- Time to CNS progression (IRC)^b
- ORR (IRC)
- DOR (IRC)
- OS (INV)

EXPLORATORY ENDPOINTS²:

- CNS ORR in patients with CNS metastases at baseline (IRC)
- CNS DOR in patients with CNS metastases at baseline (IRC)

STRATIFICATION FACTORS²:

- ECOG PS (0/1 vs 2)
- Race (Asian vs non-Asian)
- CNS metastases at baseline (yes vs no)

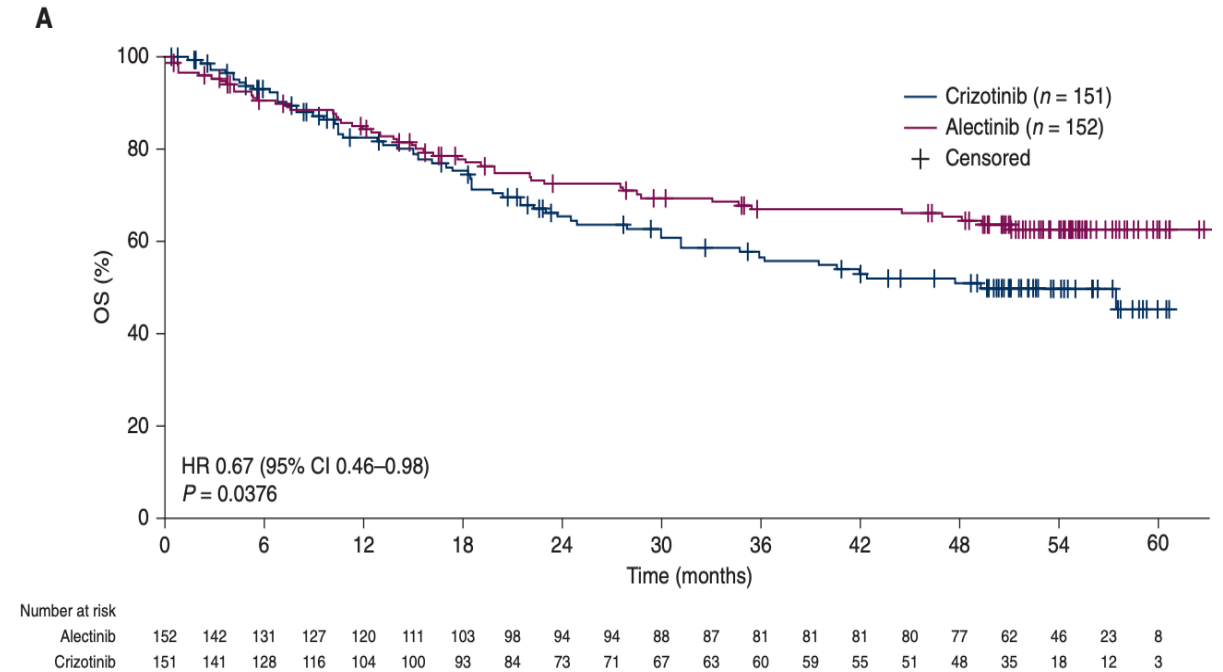
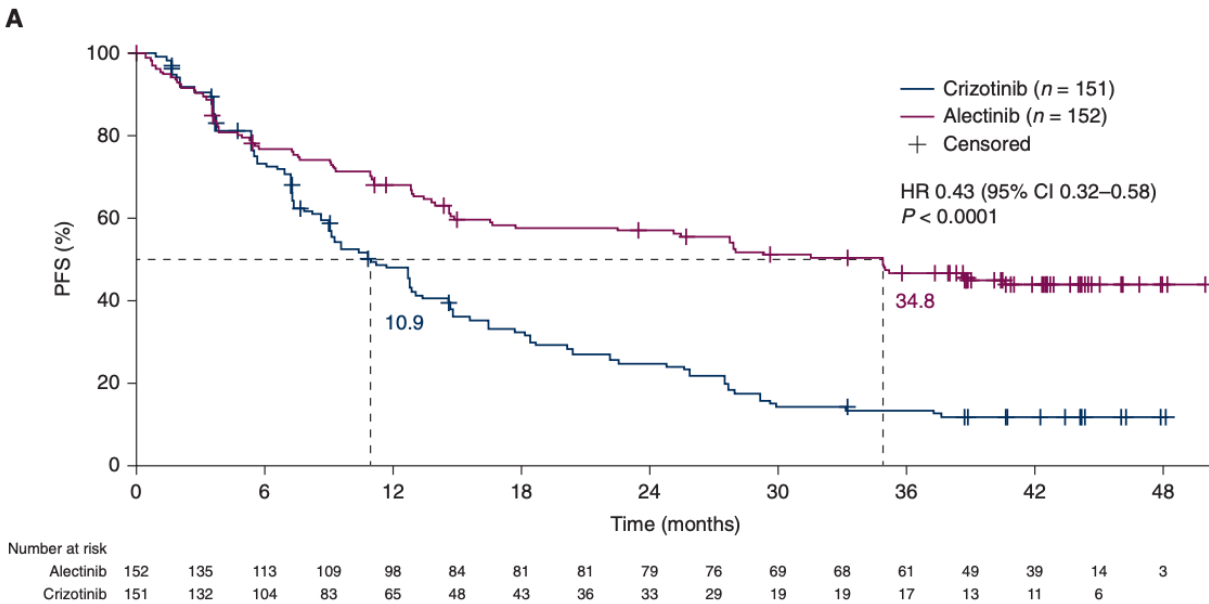
^aPatients were required to have an ECOG PS of 0-2 and ALK+ NSCLC as identified by the VENTANA ALK (D5F3) CDx assay.



ALECTINIB (ALEX)

PFS

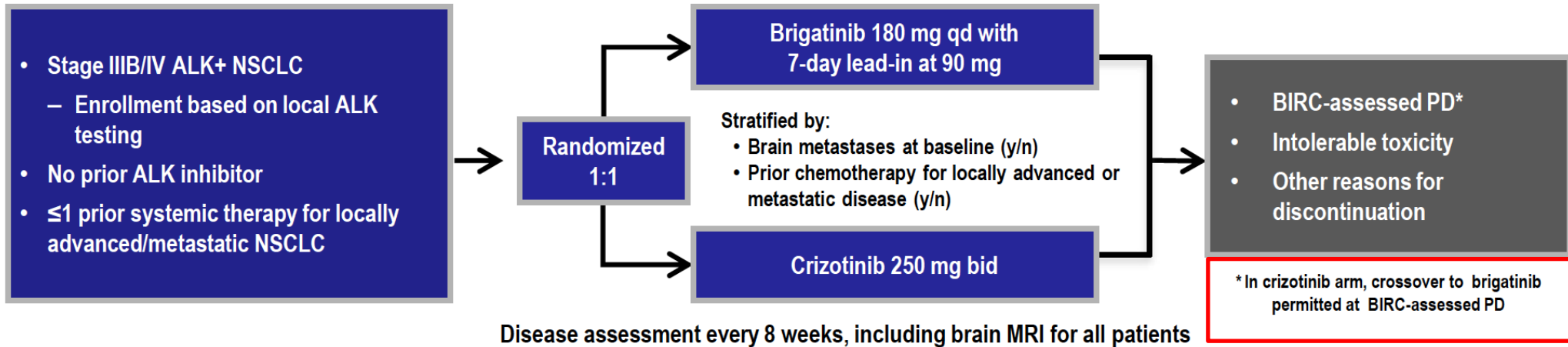
OS



ORR: Alectinib 83 vs Crizotinib 76 %



ALTA-1L: Phase 3, Open-label, Randomized, Multicenter Study (NCT02737501); Second Interim Analysis



- **Primary endpoint^a:** Blinded independent review committee (BIRC)–assessed PFS per RECIST v1.1
- **Key secondary endpoints:** Confirmed ORR, confirmed intracranial ORR, intracranial PFS, OS, safety, and tolerability
- **Statistical considerations:** ≈270 total patients (198 events); 135 in each arm to detect a 6-month improvement in PFS (HR=0.625), assuming:
 - 10-month PFS in crizotinib arm
 - 2 planned interim analyses at 99 (50%) and 149 (75%) total expected events

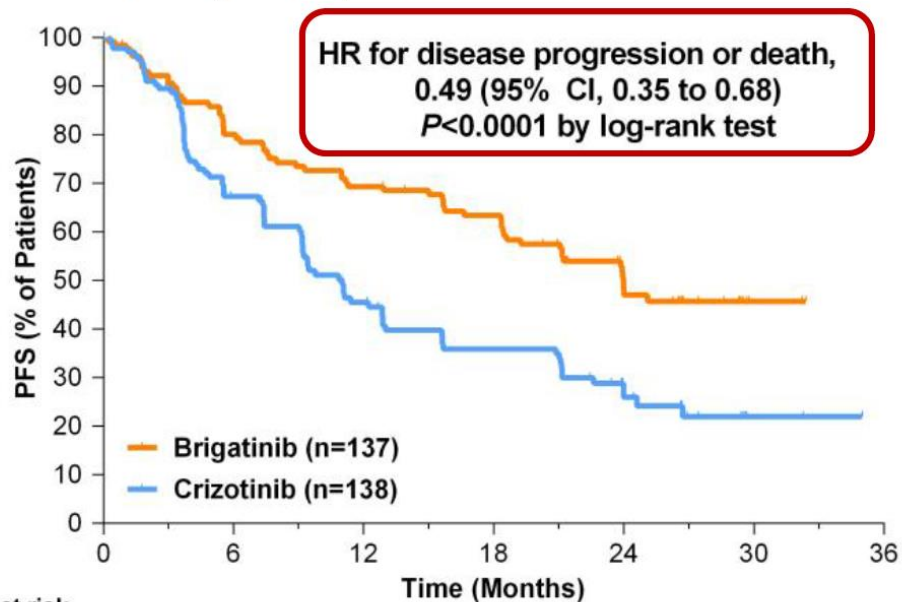
Trial fully accrued in August 2017 (N=275)

^a Statistical significance for the primary endpoint was achieved at the first interim analysis



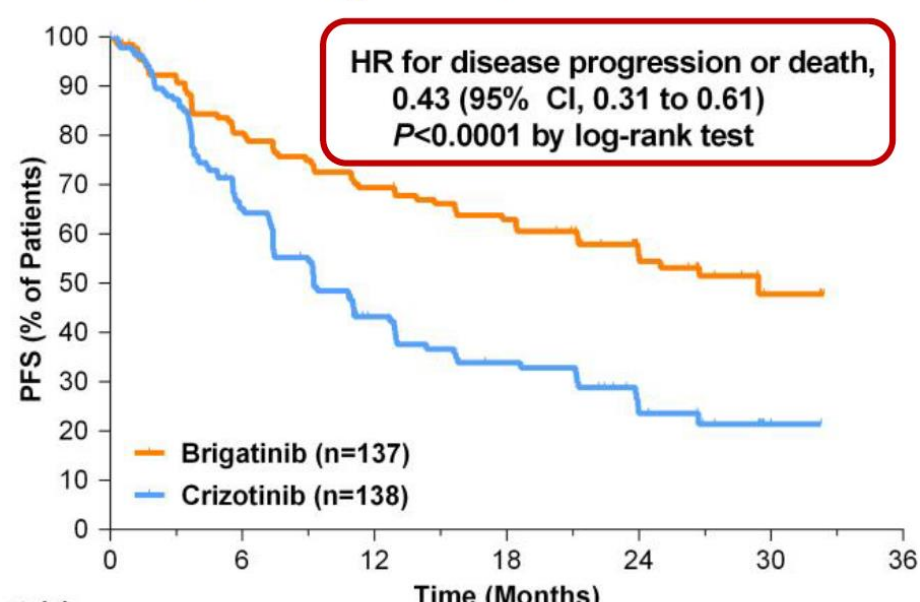
Brigatinib significantly reduced the risk of progression or death by 51% and 57% vs crizotinib, by BIRC and INV respectively

Primary Endpoint: BIRC-Assessed PFS



No. at risk		0	6	12	18	24	30	36
Brigatinib	137	97	84	75	39	3	0	0
Crizotinib	138	80	49	37	17	2	0	0

Investigator-Assessed PFS



No. at risk		0	6	12	18	24	30	36
Brigatinib	137	102	88	78	46	4	0	0
Crizotinib	138	82	46	35	14	1	0	0

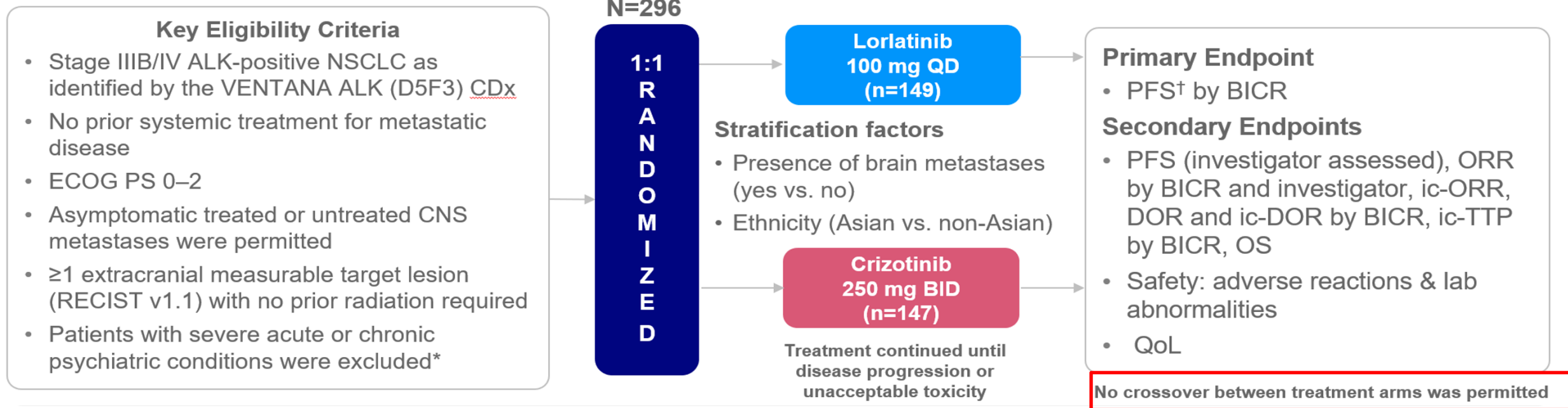
Treatment	No. (%) of Patients With Events	Median PFS (95% CI)	2-Year PFS, % (95% CI)
Brigatinib (n=137)	63 (46)	24.0 mo (18.5–NR)	48 (39–57)
Crizotinib (n=138)	87 (63)	11.0 mo (9.2–12.9)	26 (18–35)

Treatment	No. (%) of Patients With Events	Median PFS (95% CI)	2-Year PFS, % (95% CI)
Brigatinib (n=137)	59 (43)	29.4 mo (21.2–NR)	56 (46–64)
Crizotinib (n=138)	92 (67)	9.2 mo (7.4–12.9)	24 (16–32)

ORR Brigatinib 74 vs Crizotinib 62 %

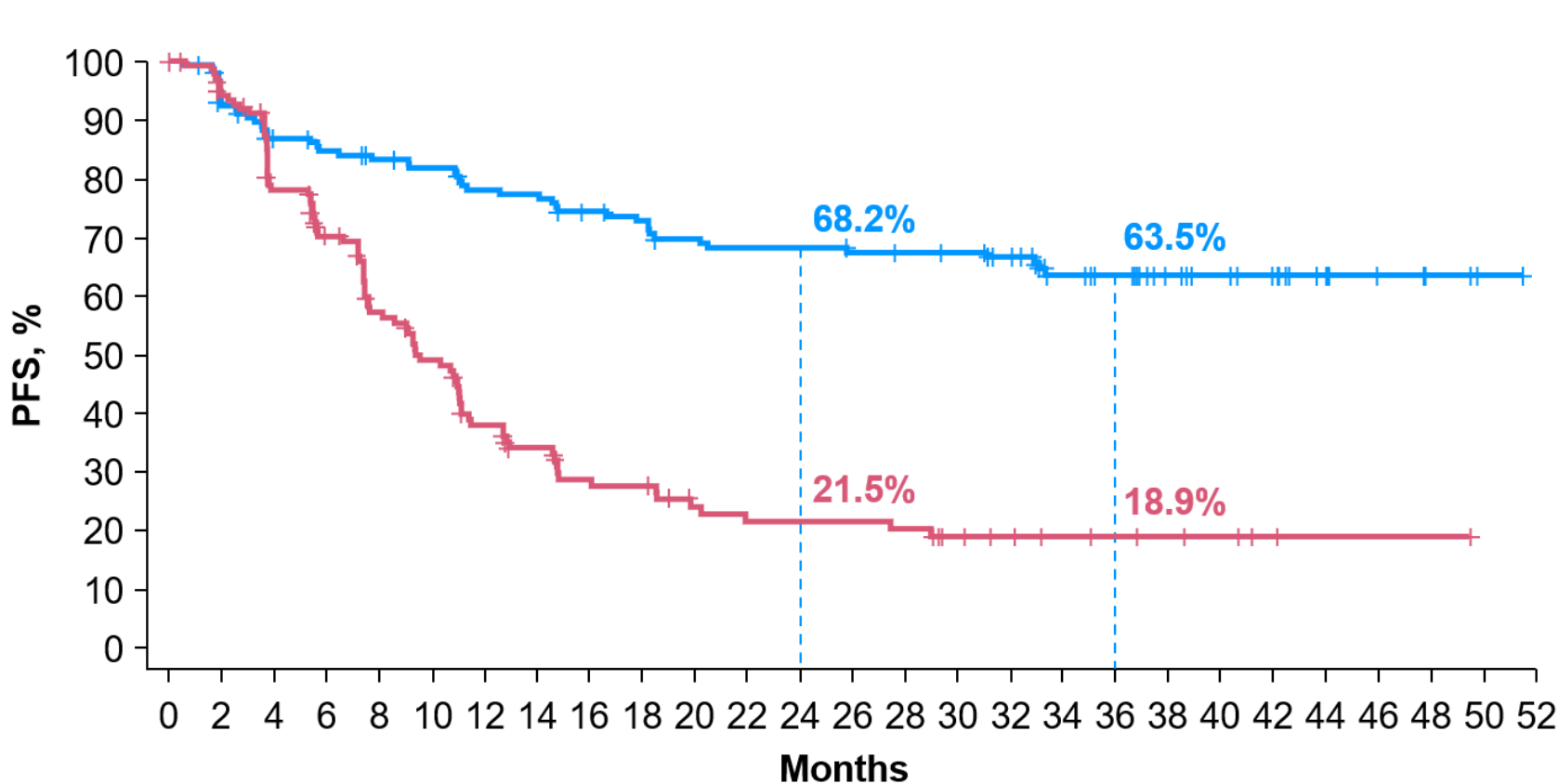


CROWN: Study Design^{1,2}





CROWN Primary Endpoint: PFS by BICR (long-term follow up, ITT population)



	Lorlatinib (n = 149)	Crizotinib (n = 147)
Events	49	92
PFS, median (95% CI), months	NR (NR–NR)	9.3 (7.6–11.1)
HR (95% CI)	0.27 (0.184–0.388)	

- PFS as assessed by the investigators was also longer with lorlatinib than crizotinib
 - Median PFS was NR (95% CI, NR-NR) with lorlatinib and 9.1 months (95% CI, 7.4-10.9 months) with crizotinib (HR, 0.19; 95% CI, 0.131-0.274)

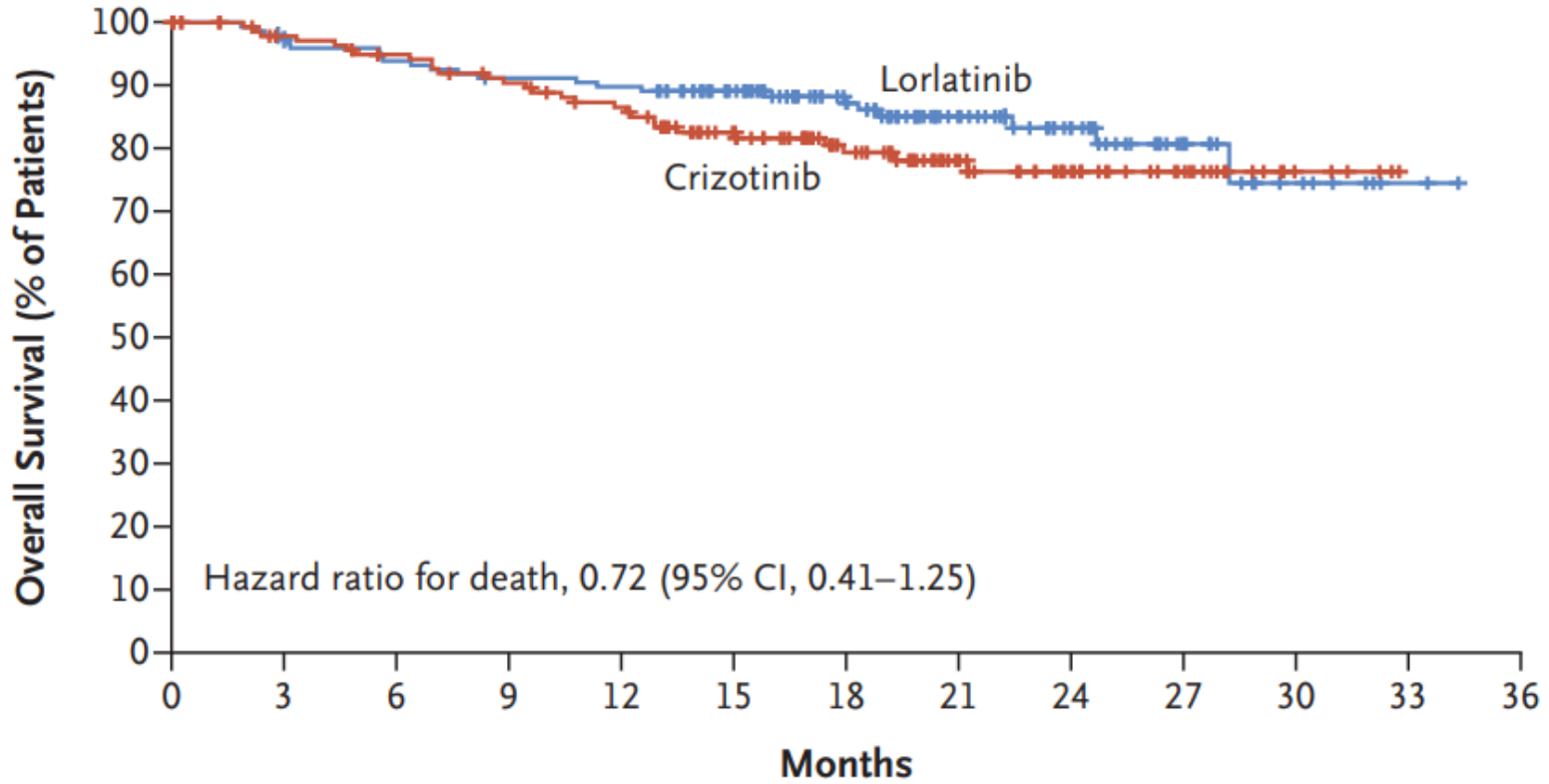
Number at risk

	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52
Lorlatinib	149	133	122	118	114	111	105	104	98	95	90	88	88	86	85	83	72	55	50	34	31	23	15	7	4	2	0
Crizotinib	147	126	100	85	64	54	40	33	26	25	19	17	17	17	16	11	9	7	6	5	4	2	1	1	1	0	0

Data cutoff: September 20, 2021.
 Median duration of treatment: lorlatinib, 33.3 months; crizotinib, 9.6 months.
 Median duration of follow-up for PFS by BICR: lorlatinib, 36.7 months; crizotinib, 29.3 months.
 BICR, blinded independent central review; ITT, intent to treat; NR, not reached; PFS, progression-free survival.
 Solomon B, et al. AACR Annual Meeting. April 8-13, 2022. Abstract CT223.



Overall Survival



No. at Risk

Lorlatinib	149	148	141	138	135	133	131	122	101	85	63	50	38	27	13	8	4	1	0
Crizotinib	147	139	133	127	122	116	111	97	85	68	55	40	31	22	12	5	3	0	0



Table I Systemic Response of Next-generation ALK Inhibitors

	Alectinib	Brigatinib	Ceritinib	Lorlatinib
Clinical trial	ALEX ^{9,18}	ALTA-IL ^{17,22}	ASCEND-4 ¹⁶	CROWN ¹¹
OR (%) (95% CI)	82.9 (76.0–88.5)	74 (66–81)	72.5 (65.5–78.7)	76 (68–83)
Median DOR (months) (95% CI)	NE (NE)	33.2 (22.1 – NE)	23.9 (16.6 – NE)	NE (NE – NE)
Median PFS by ICR (months) (95% CI)	25.7 (19.9 – NE)	24.0 (18.5–43.2)*	16.6 (12.6–27.2)*	NE (NE – NE)*
Median PFS by IR (months) (95% CI)	34.8 (17.7 – NE)*	30.8 (21.3–40.6)	16.8 (13.5–25.2)	NE (NE – NE)
HR for disease progression or death (95% CI)	0.47 (0.34–0.65)	0.48 (0.35–0.66)	0.55 (0.42–0.73)	0.28 (0.19–0.41)
OS rates (%) (95% CI)	5-year OS rate 62.5% (54.3–70.8)	3 year-OS probability 71% (62–78)	2 year-OS probability 70.6% (62.2–77.5)	NA
Median OS, HR (95% CI)	0.67 (0.46–0.98)	0.81 (0.53–1.22)	0.73 (0.50–1.08)	0.72 (0.41–1.25)

Note: *Primary end point of the study.

Abbreviations: ICR, independent central review; CI, confidence interval; DOR, duration of response; HR, hazard ratio; IR, investigator review; NA, no available data; NE, not estimable; OR, overall response; OS, overall survival; PFS, progression-free survival.



Pacientes con NSCLC ALK traslocado y metástasis SNC

Substance	Intracranial overall response rate*	Intracranial complete response rate*	Intracranial duration of response >12 months	Study
Alectinib	81 %	38 %	59 %	ALEX ^{1,9} (asympt.)
Brigatinib	78 %	28 %	-	ALTA-1L ² (asympt.)
Lorlatinib	82 %	71 %	79 %	CROWN ^{4,10} (asympt.)
Crizotinib	20–50 %	~10 %	-	ALEX ¹ , ALTA-1L ² , CROWN ⁴
Chemotherapy	20–30 %	~10 %	-	ASCEND4 ³ , AURA3 ⁵
Radiotherapy	60 %	<5 %	-	Various series ^{6,7}

*BICR-assessed, measurable CNS metastases.

Patients with prior radiotherapy (% of patients with brain metastases): ALEX: 39 %, ALTA-1L: 46 %, CROWN: 24 %.



Pacientes con NSCLC ALK traslocado y metástasis SNC

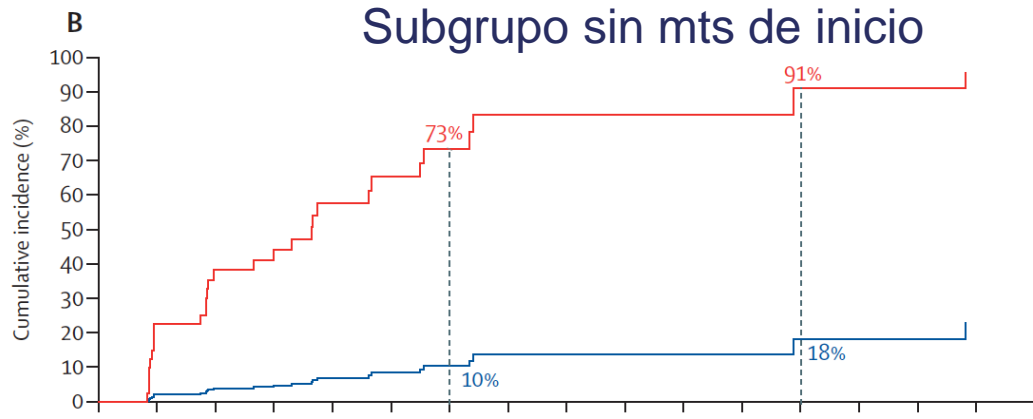
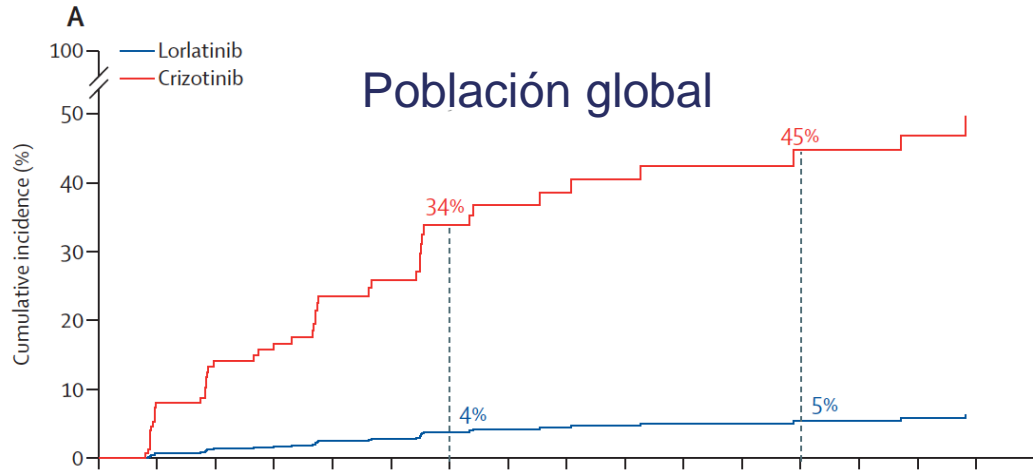
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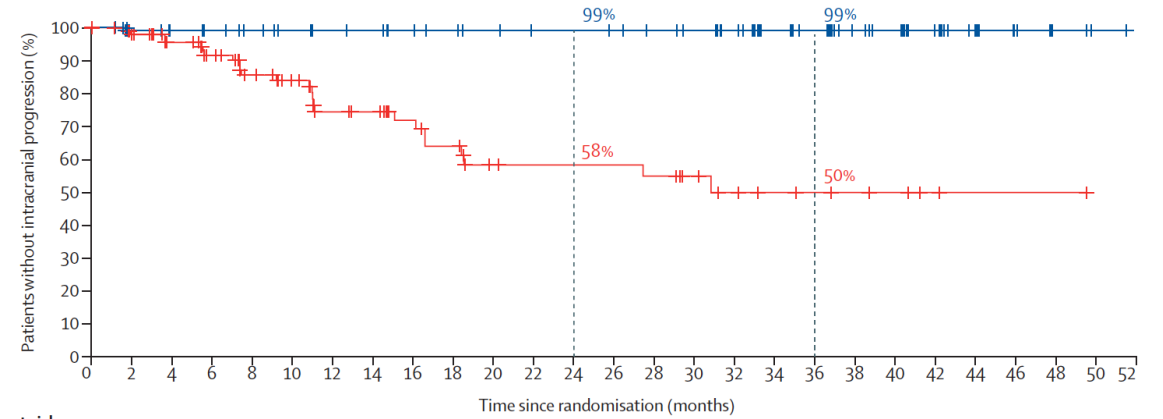
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Actividad SNC de Lorlatinib



Supervivencia libre PD SNC en pts sin mts de inicio



Number at risk (number censored)

Lorlatinib	112	99	96	93	90	87	85	84	81	79	76	74	74	73	71	69	61	49	44	31	27	20	13	7	3	1	0
	(0)	(12)	(15)	(18)	(21)	(24)	(26)	(27)	(30)	(32)	(35)	(37)	(37)	(38)	(40)	(42)	(50)	(62)	(67)	(80)	(84)	(91)	(98)	(104)	(108)	(110)	(111)
Crizotinib	108	89	76	67	54	47	36	34	28	24	18	17	17	17	16	12	9	7	6	5	4	2	1	1	1	0	0
	(0)	(17)	(28)	(34)	(43)	(49)	(55)	(57)	(62)	(63)	(67)	(68)	(68)	(68)	(68)	(72)	(74)	(76)	(77)	(78)	(79)	(81)	(82)	(82)	(82)	(83)	..

Safety and Toxicity Profiles

Drug (dose)	Serious TRAEs	TRAE leading to dose reduction (% pts)	TRAE leading to drug discontinuation (% pts)	TRAEs more common in study drug vs. crizotinib	Ref.
Lorlatinib (100mg po / day)	<u>Lorlatinib</u> = 34% <u>Crizotinib</u> = 27%	<u>Lorlatinib</u> = 49% <u>Crizotinib</u> = 47%	<u>Lorlatinib</u> = 7% <u>Crizotinib</u> = 9%	Hypercholesterolemia Hypertriglyceridemia Weight increase Peripheral Neuropathy Cognitive Effects	Solomon B, et. al. ESMO 2020, 09.19/2020, LBA2
Alectinib (600mg po twice/day)	<u>Alectinib</u> = 28% <u>Crizotinib</u> = 29%	<u>Alectinib</u> = 16% <u>Crizotinib</u> = 21%	<u>Alectinib</u> = 11% <u>Crizotinib</u> = 13%	Anemia Myalgia Increased Bilirubin Increased weight Musculoskeletal pain Photosensitivity reaction	<u>Initial Publication:</u> Peters et al. <i>NEJM</i> 377;9 08/31/2017
Brigatinib (90mg po / day x 7 days, then 180mg po / day)	<u>Brigatinib</u> = 28% <u>Crizotinib</u> = 29%	<u>Brigatinib</u> = 28% <u>Crizotinib</u> = 29%	<u>Brigatinib</u> = 12% <u>Crizotinib</u> = 9%	Increased CK Cough Hypertension Increased Lipase Early onset ILD/pneumonitis	<u>Initial Publication:</u> Camidge et al. <i>NEJM</i> 379;21 11/22/2018
Ensartinib (225 mg po / day)	<u>Ensartinib</u> = 24% <u>Crizotinib</u> = 20%	<u>Ensartinib</u> = 24% <u>Crizotinib</u> = 20%	<u>Ensartinib</u> = 9% <u>Crizotinib</u> = 7%	Rash -- all grade ~70%, grade 1/2 ~60% Pruritis Pyrexia	Horn L et al. IASLC WCLC 08/08/2020

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Irreconcilable Differences: The Divorce Between Response Rates, Progression-Free Survival, and Overall Survival

Margret Merino, MD¹; Yvette Kasamon, MD¹; Marc Theoret, MD^{1,2}; Richard Pazdur, MD^{1,2}; Paul Kluetz, MD^{1,2}; and Nicole Gormley, MD¹

TABLE 2. Key Considerations for Early End Point and OS Analysis in Oncology Trials

Consideration
Toxicity
Greater attention to dose optimization is needed to minimize toxicity while maximizing efficacy. This has the potential to result in a more favorable benefit-risk profile.
Adequate capture of information on subsequent therapy and long-term safety outcomes is important to assess the overall benefit risk.
OS analysis
Clinical trial design and statistical analysis plans should consider the amount of OS information that will be available at the time of early end point analysis.
If OS is not the primary efficacy end point, when feasible, OS should be included as a key secondary end point.
When OS is not the primary or key secondary efficacy end point, OS information should be provided to assess the potential for harm.
Trials should provide for adequate OS follow-up and analysis.
Subgroup considerations
Consider biomarker predictiveness and mechanism of action in the trial design, sample size, and prespecified analyses.
Clinical trials should include an adequate number of patients, including relevant subpopulations to evaluate both early end points and OS.

Progression-Free Survival Should Not Be Used as a Primary End Point for Registration of Anticancer Drugs

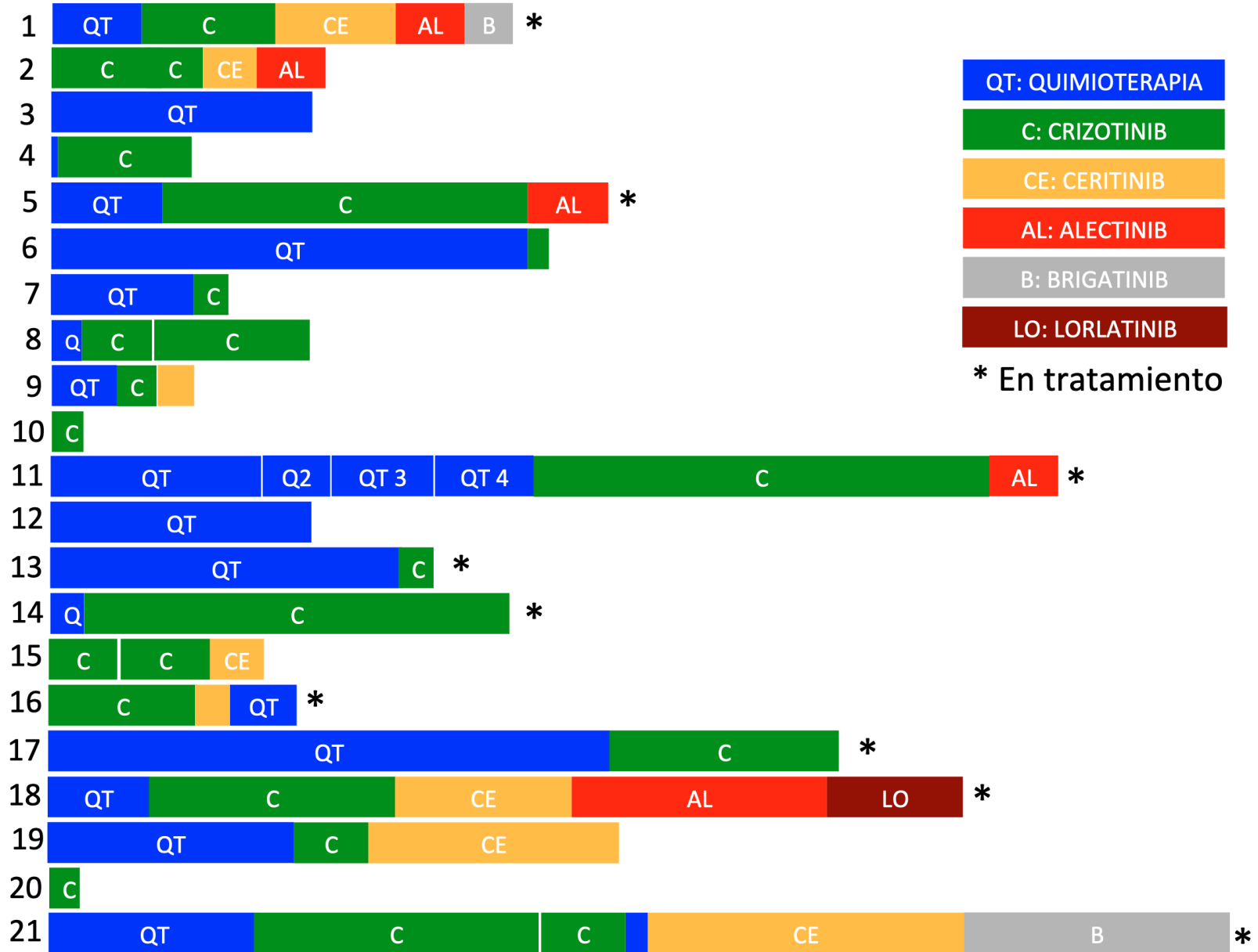
Christopher M. Booth, MD^{1,2,3}; Elizabeth A. Eisenhauer, MD²; Bishal Gyawali, MD, PhD^{1,2,3}; and Ian F. Tannock, MD, PhD⁴

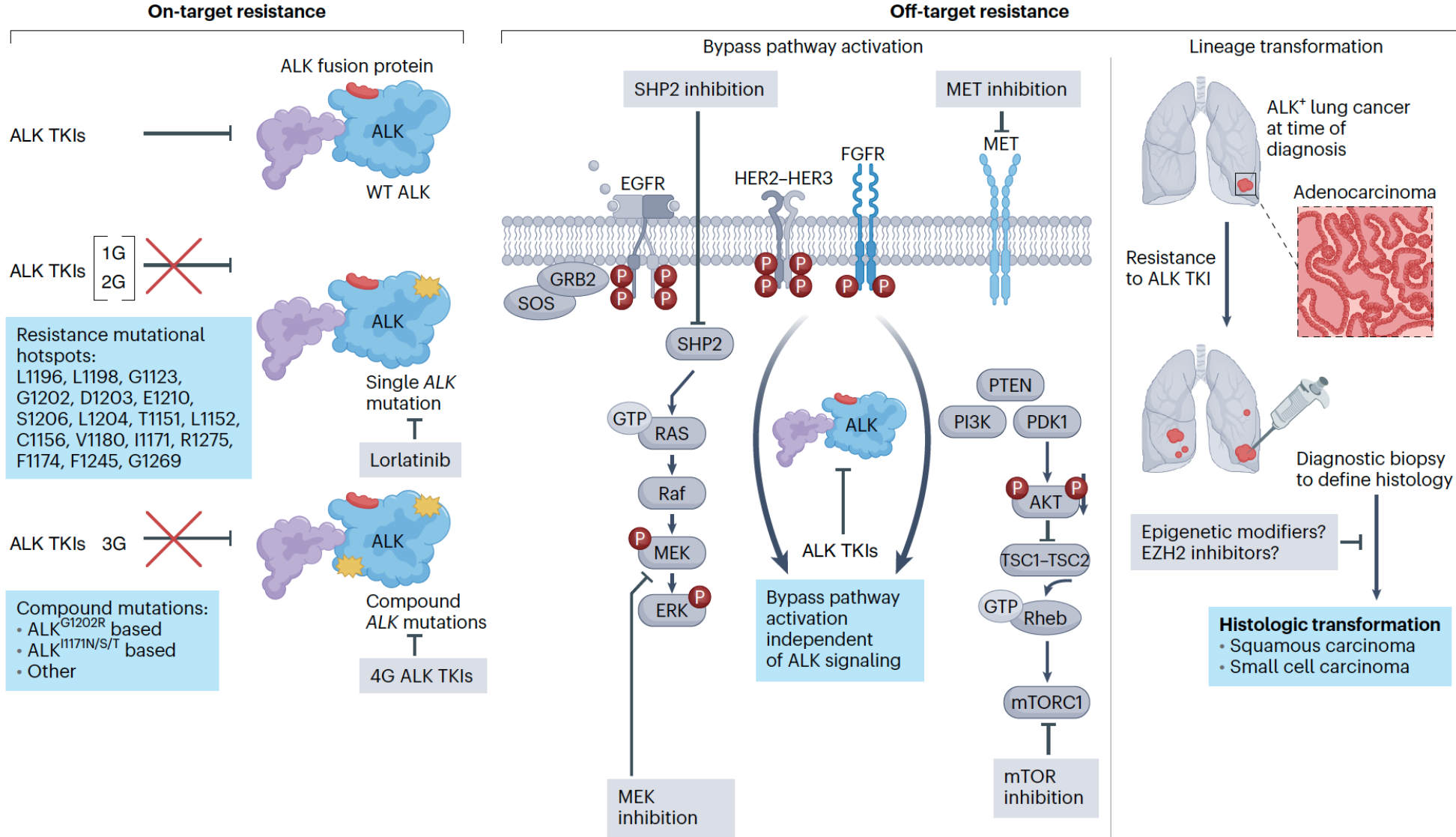
TABLE 1. Reasons Why PFS Is an Inappropriate Primary End Point in Most Trials Evaluating Anticancer Drugs

Improvement in PFS is seldom a surrogate for, nor reliably predictive of, improvement in OS
Improvement in PFS is not a surrogate for, nor predictive of, improvement in QoL
PFS does not recognize that the balance between benefit and harm depends not only on changes in tumor size but also on toxicity
PFS measurement and comparisons are subject to error and bias because of
Timing of assessment
Measurement error in assessing tumor progression
Informative censoring because of uneven dropout between groups in an RCT
Improvement in PFS is widely misunderstood by patients and the public to imply improvement in survival



Hospital Clínico
 Santiago, 2018

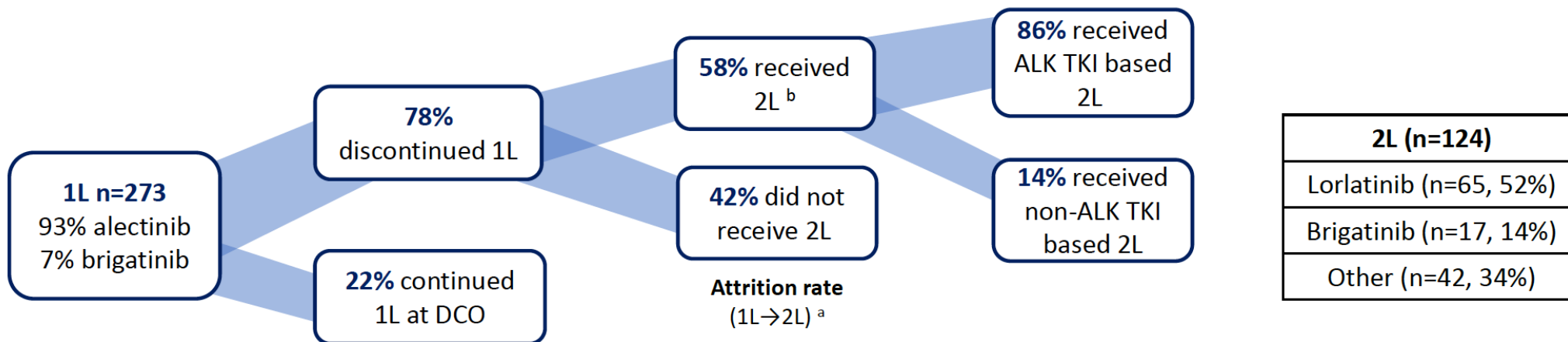






89.062 Pacientes en el base de datos Flatiron NSCLC

Results: 42% of patients who discontinued 1L did not receive 2L



- Alectinib followed by lorlatinib was the most common sequence
- 36% of patients discontinued their 1L treatment within 12 months

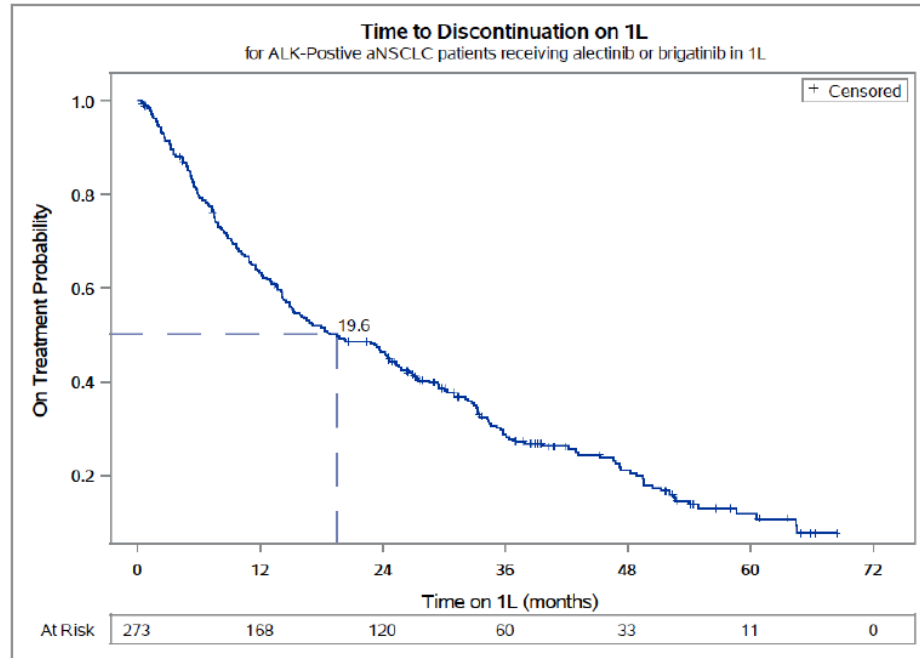
ALK Test Type, (%)	
Fluorescence in situ (FISH)	145 (53)
Immunohistochemistry screening (IHC)	27 (10)
Next Generation Sequencing (NGS)	89 (33)
Other, unknown	12 (4)



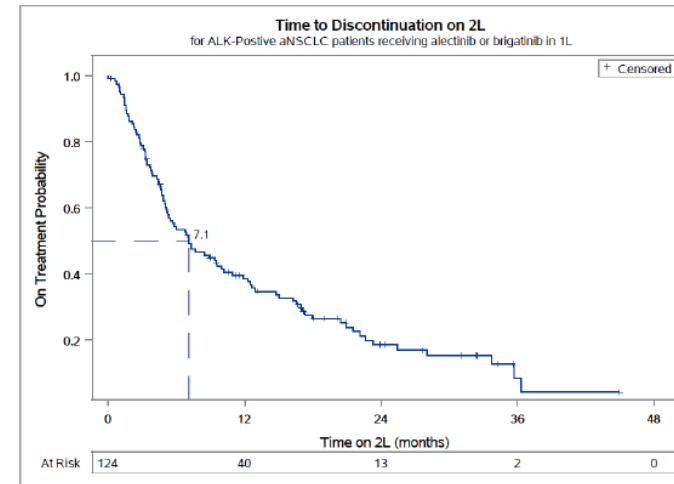
89.062 Pacientes en el base de datos Flatiron NSCLC

Results: Decreased effectiveness in 2L vs 1L

Median (95% CI) TTD **1L**: 19.6 (15.1-25.1) months



Median (95% CI) TTD **2L**: 7.1 (5.2-10.2) months



2L (n=124)	
Stratification	Median TTD (95%CI)
ALK TKI- based (n=107)	8.9 (6.7-12.5)
Non-ALK TKI based (n=17)	4.6 (3.2-5.2)



CROWN: First Subsequent Systemic Anticancer Therapies (long-term follow up)

	Lorlatinib	Crizotinib
≥1 Subsequent therapy, n/N (%)	33/149 (22.1)	103/147 (70.1)
First subsequent therapy, n	33	103
ALK TKI, n/N (%)	21/33 (63.6)	96/103 (93.2)
Alectinib	12/21 (57.1)	65/96 (67.7)
Crizotinib	4/21 (19.0)	5/96 (5.2)
Ceritinib	3/21 (14.3)	3/96 (3.1)
Brigatinib	1/21 (4.8)	20/96 (20.8)
Lorlatinib	1/21 (4.8)	3/96 (3.1)
Chemotherapy ± anti-angiogenic drugs, n/N (%)	11/33 (33.3)	3/103 (2.9)
Chemotherapy/immunotherapy, n/N (%)	1/33 (3.0)	0
Other, n/N (%)	0	4/103 (3.9)
Duration of first subsequent systemic anticancer therapy, median (IQR), months	9.6 (2.9–18.1)	13.3 (4.8–21.2)
ALK TKIs as first subsequent therapy	9.6 (2.8–19.3)	14.0 (6.5–21.8)
Non-ALK TKIs* as first subsequent therapy	10.4 (3.4–15.1)	1.0 (0.8–1.8)

Tras recaída a Lorlatinib 1L, en el estudio CROWN, alrededor de un 30% de pacientes alcanzó respuesta objetiva con un ALK TKI alternativo



Plasma Genotyping From the CROWN, ALTA-1L, and ALEX Trials: Can We Speak With One Voice on What to Test, How to Test, When to Test, and for What Purpose?



Jii Bum Lee, MD,^a Sai-Hong Ignatius Ou, MD, PhD^{b,*}

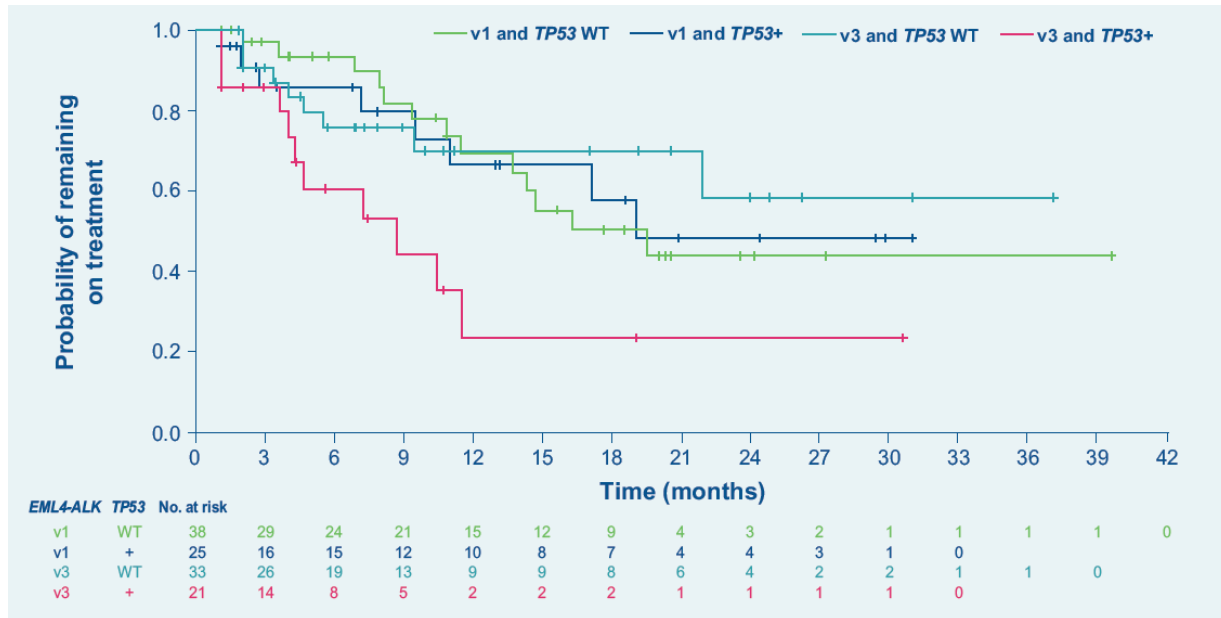
Trial	CROWN (n = 293) ^{9,12}		ALTA-1L (n = 275) ⁸	ALEX (n = 303) ^{6,7}
Authors	Soo et al. ⁹		Bearz et al. ¹²	Camidge et al. ⁸ Dziadziuszko et al. ⁶ Camidge et al. ⁷
ALK TKI (with plasma samples)	Lorlatinib (n = 134)		Brigatinib (n = 123)	Alectinib (n = 137)
Comparator (with plasma samples)	Crizotinib (n = 129)		Crizotinib (n = 127)	Crizotinib (n = 139)
NGS platform	Guardant360 v2.11 (Guardant Health) (plasma) Guardant360 v2.13 (Guardant Health) (tissue)		ctDx Lung NGS panel (Resolution Bioscience, Kirkland, WA)	FoundationACT (Foundation Medicine Inc.)
Genes analyzed (n)	74		38	62 (6 fusions)
Time points analyzed	Baseline, week 4, week 24, EOT		Baseline	Baseline
Purpose of test	1. ctDNA as a prognostic biomarker 2. ctDNA as a response monitor		1. ctDNA as a prognostic biomarker 2. <i>EML4-ALK</i> variants and <i>TP53</i> mutations as biomarkers for ORR and PFS	1. Baseline median cfDNA, ctDNA, <i>EML4-ALK</i> variants, and <i>TP53</i> mutations as biomarkers for ORR and PFS.
Plasma genotyping	ctDNA		<i>ALK</i> fusions, <i>TP53</i>	cfDNA, ctDNA, <i>ALK</i> fusions, <i>TP53</i>



NSCLC avanzado/mts con fusión ALK x Guardant
 360 (n=496)



Guardant 360 realizado antes 1L ALK TKI (n=164) Alectinib (147); Brigatinib (7); Lorlatinib (8); Ceritinib (2)





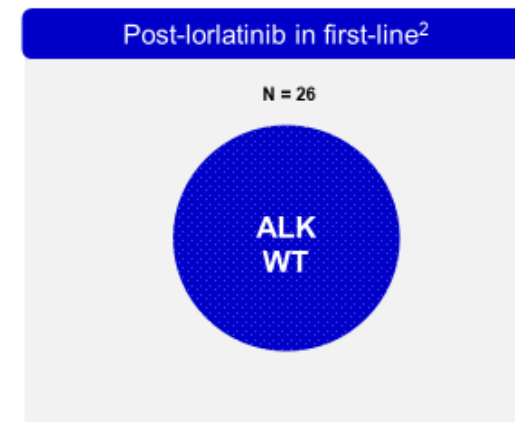
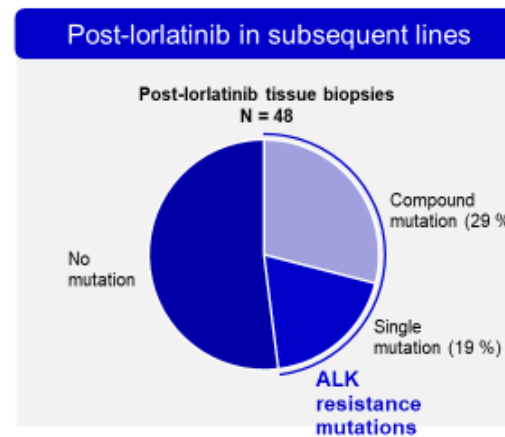
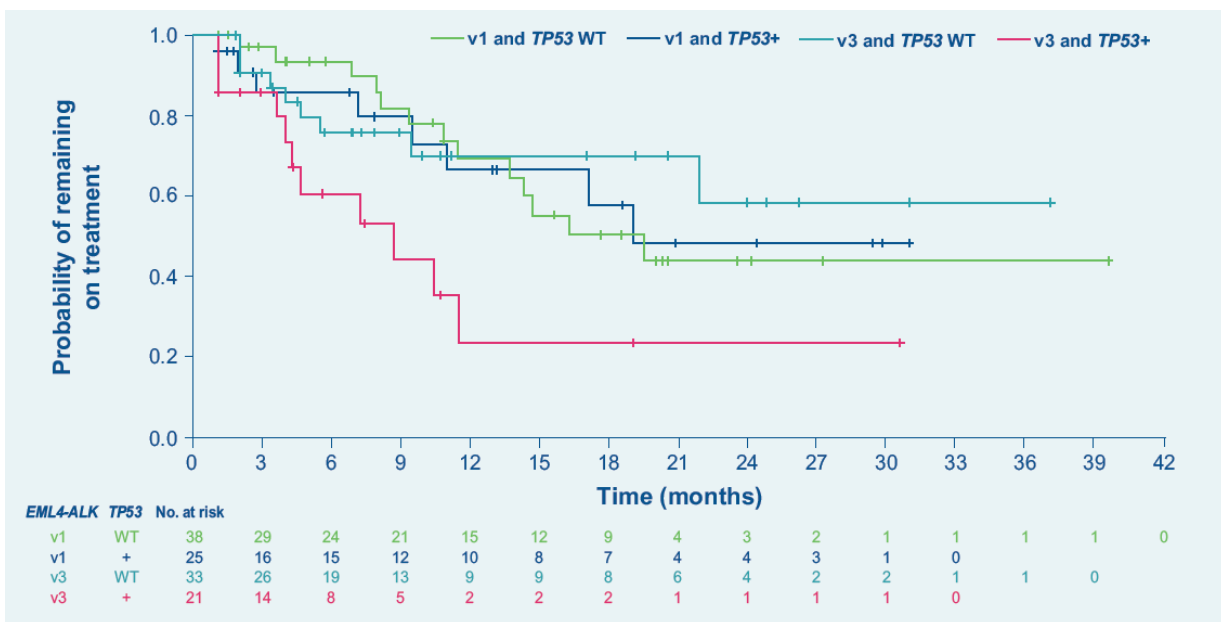
NSCLC avanzado/mts con fusión ALK x Guardant

360 (n=496)



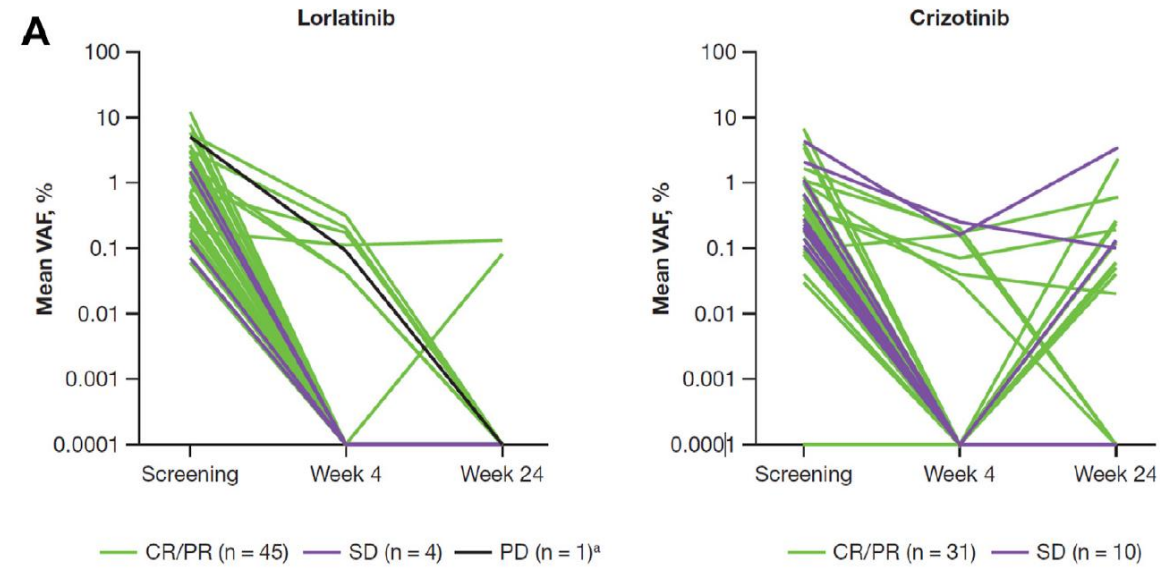
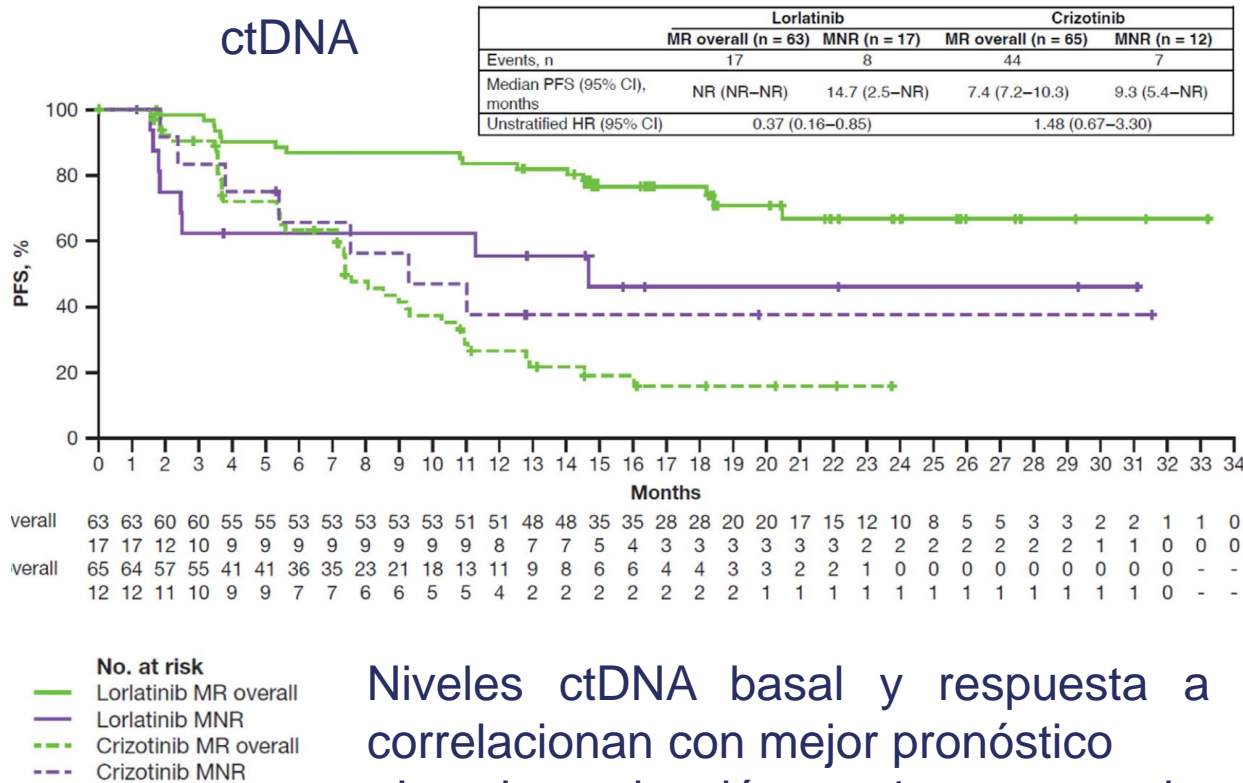
Guardant 360 realizado antes 1L ALK TKI (n=164) Alectinib (147); Brigatinib (7); Lorlatinib (8); Ceritinib (2)

Lorlatinib Resistance Spectrum in 1L Differs From the One in Later Lines: No ALK Resistance Mutations in the CROWN Study so far





Early circulating tumor DNA dynamics and efficacy of lorlatinib in patients with treatment-Naive advanced, ALK-Positive NSCLC



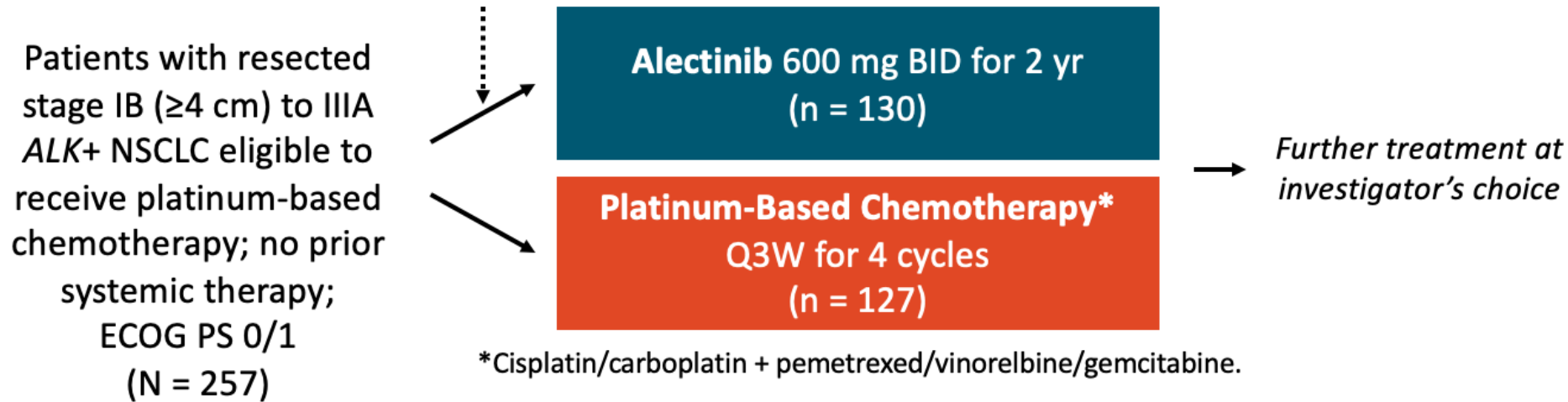
Niveles ctDNA basal y respuesta a 4 sem se correlacionan con mejor pronóstico
 ¿La determinación a 4 sem puede servir para establecer estrategia?

Fusiones y/o variantes en ALK

ALINA: Study Design

- International, randomized, open-label phase III trial

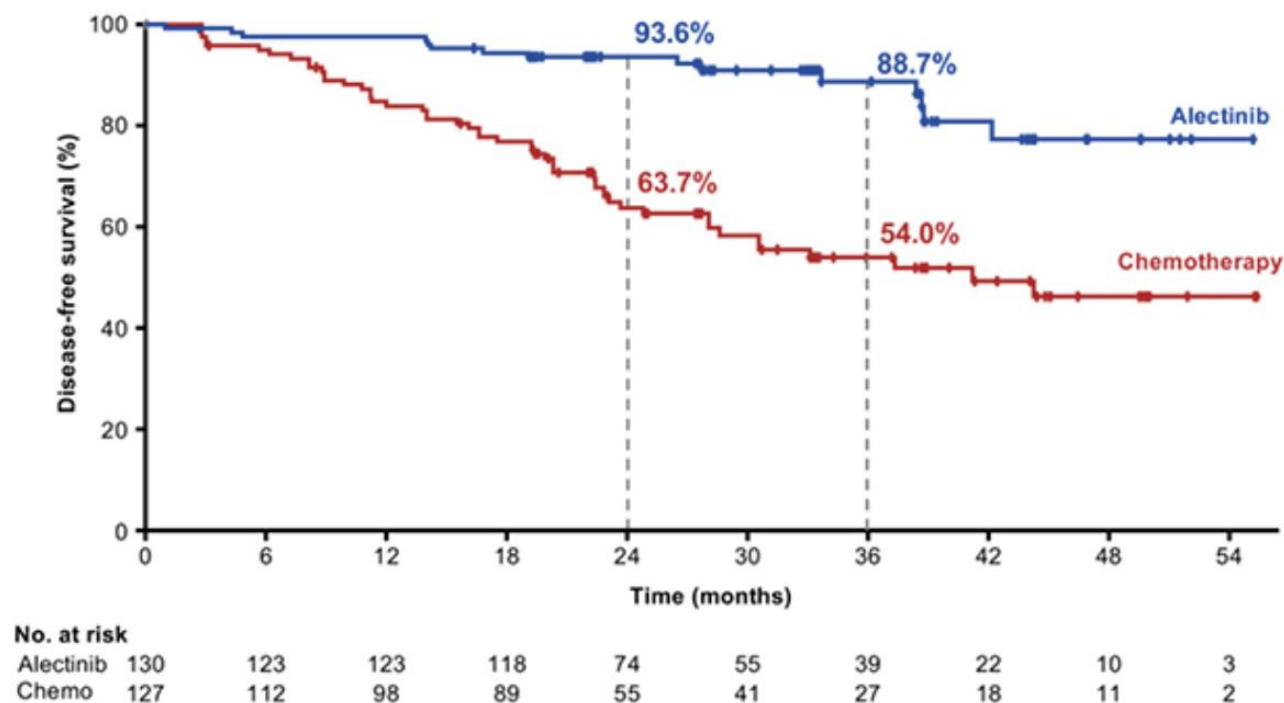
*Stratified by stage (IB [≥ 4 cm] vs II vs IIIA),
race (Asian vs non-Asian)*



- Primary endpoint:** DFS per investigator (hierarchical: stage II-III A; then stage IB-III A [ITT population])
- Secondary endpoints:** CNS DFS, OS, safety



Disease-free survival: ITT (stage IB-III A)*

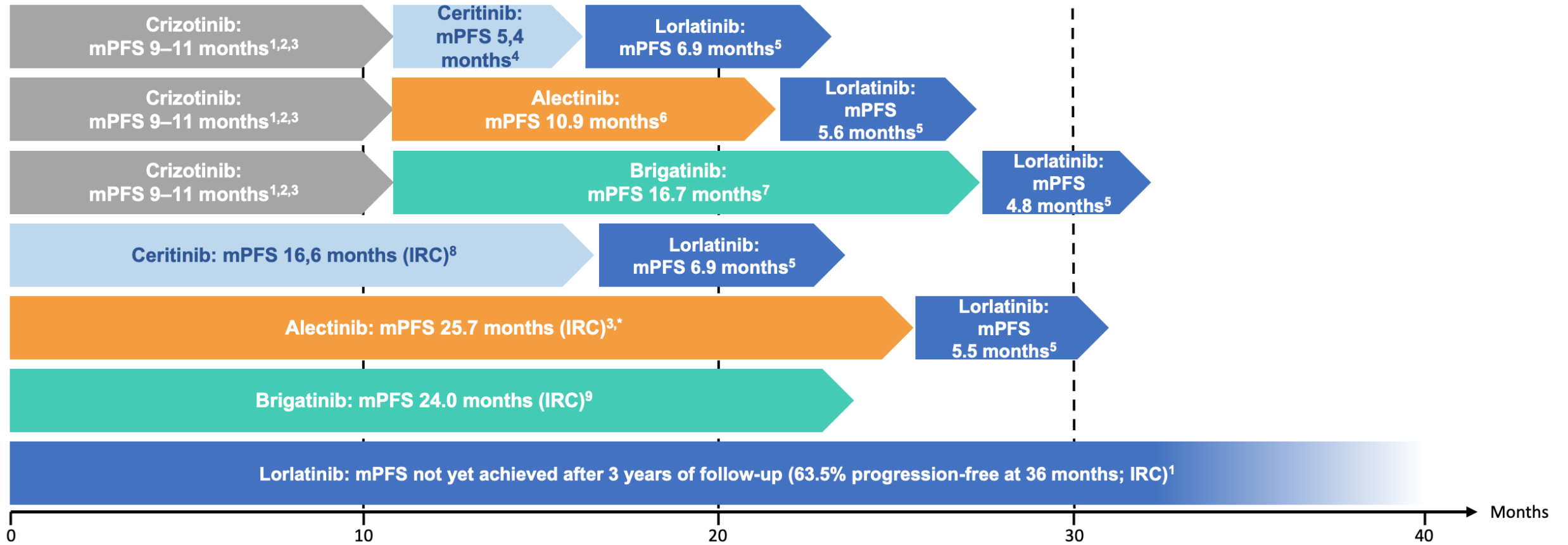


	Alectinib (N=130)	Chemotherapy (N=127)
Patients with event		
Death	0	1
Recurrence	15 (12%)	49 (39%)
Median DFS, months (95% CI)	Not reached	41.3 (28.5, NE)
DFS HR (95% CI)	0.24 (0.13, 0.43) p†<0.0001	

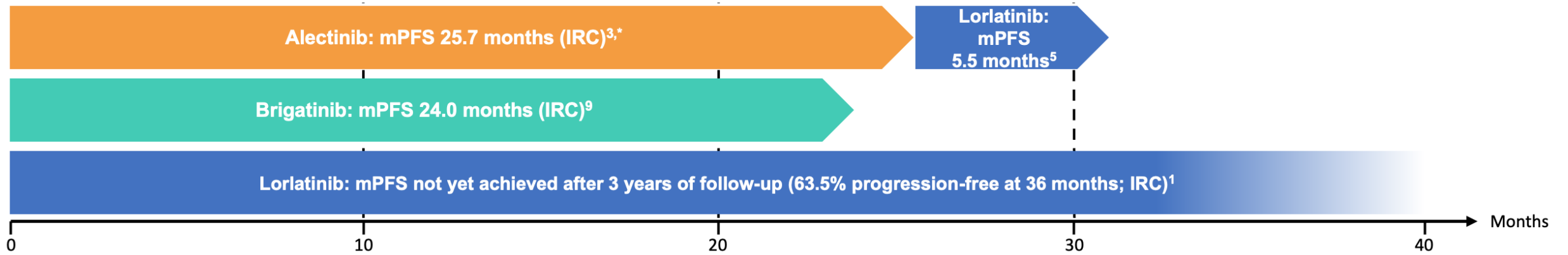
At the data cutoff date, **OS data were immature** with only 6 (2.3%) OS events reported[§]

Median survival follow up: alectinib, 27.8 months; chemotherapy, 28.4 months

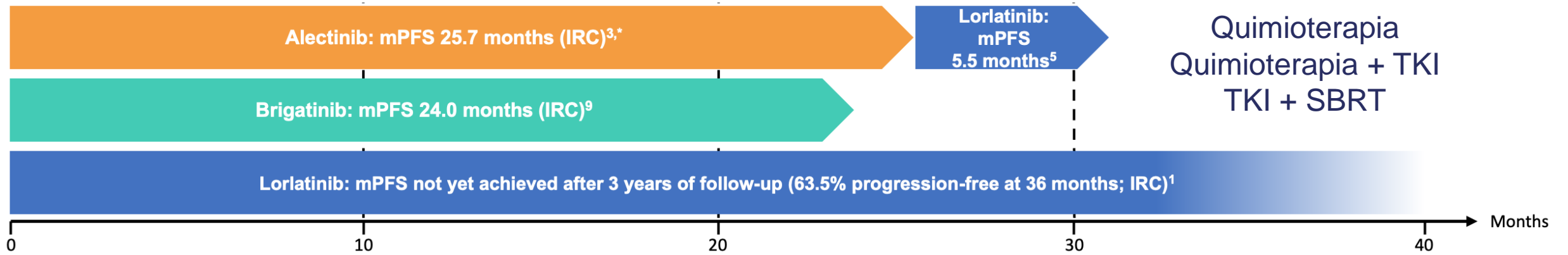
Data cut-off: 26 June 2023; *Per UICC/AJCC 7th edition; †Stratified log rank; ‡2 events in the alectinib arm, 4 events in the chemo arm; one patient in chemo died but was censored due to incomplete date of death recorded. DFS defined as the time from randomisation to the first documented recurrence of disease or new primary NSCLC as determined by the investigator, or death from any cause, whichever occurs first.



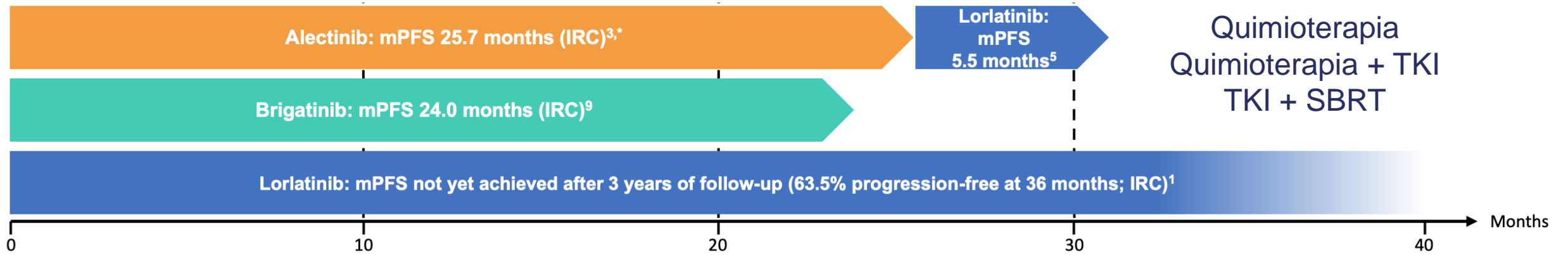
Cross-trial comparisons have clear limitations and are not permitted. These are only summary presentations of published data, not direct comparisons. * Median PFS according to independent, blinded assessment was reported in the ALEX study only from the first data cut. |
 References: 1. Solomon BJ et al ACR 2022 Poster CT223. 2. Solomon BJ et al. J Clin Oncol 2018;36: 2251-2258. 3. Mok T et al. Ann Oncol 2020;31(8):1056-1064. 4. Shaw AT et al. Lancet Oncol. 2017;18(7):874-886. 5. Felip E et al. Ann Oncol 2021;32(5):620-630. 6. Wolf J et al. ESMO Open. 2022;7(1):100333. 7. Gettinger SN et al. J Clin Oncol 2021;39:9071-9071. 8. Soria J-C et al. Lancet. 2017; 389(10072): 917-929. 9. Camidge DR et al. J Clin Oncol 2020; 38(31): 3592-3603..



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Integrando la caracterización molecular

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