

TRATAMIENTO DIRIGIDO EN CPCNP – II (OTRAS MUTACIONES)

Andrés Barba Joaquín

Hospital de la Santa Creu i Sant Pau

MUTACIÓN o SOBREEXPRESIÓN DE *HER2*

Trastuzumab Deruxtecan in HER2-Overexpressing Metastatic Non–Small Cell Lung Cancer (NSCLC): Interim Results of DESTINY-Lung01

Kazuhiko Nakagawa,¹ Misako Nagasaka,² Enriqueta Felip,³ Jose M. Pacheco,⁴ Christina Baik,⁵ Yasushi Goto,⁶ Andreas Saltos,⁷ Bob T. Li,⁸ Hibiki Udagawa,⁹ Shirish Gadgil,¹⁰ Haruyasu Murakami,¹¹ David Planchard,¹² Lyudmila Bazhenova,¹³ Maz-Ares,¹⁴ Maurice Perol,¹⁵ Julien Mazieres,¹⁶ Fabrice Barlesi,¹⁷ Kapil Saxena,¹⁸ Ryota Shiga,¹⁸ Suddhasatta Acharyya,¹⁸ Yingkai Cheng,¹⁸ Javad Shahidi,¹⁸ Pasi A. Jänne,¹⁹ Egbert F. Smit²⁰

On behalf of the DESTINY-Lung01 investigators

Trastuzumab Deruxtecan in HER2-Mutated Metastatic Non–Small Cell Lung Cancer (NSCLC): Interim Results of DESTINY-Lung01

Egbert F. Smit,¹ Kazuhiko Nakagawa,² Misako Nagasaka,³ Enriqueta Felip,⁴ Yasushi Goto,⁵ Bob T. Li,⁶ Jose M. Pacheco,⁷ Haruyasu Murakami,⁸ Fabrice Barlesi,⁹ Andreas Saltos,¹⁰ Maurice Perol,¹¹ Hibiki Udagawa,¹² Kapil Saxena,¹³ Ryota Shiga,¹³ Ferdinand Guevara,¹³ Suddhasatta Acharyya,¹³ Javad Shahidi,¹³ David Planchard,¹⁴ Pasi A. Jänne¹⁵

On behalf of the DESTINY-Lung01 investigators

ZENITH20 Trial: A Phase 2 International Trial

Updated efficacy, safety, and dosing management of poziotinib in previously treated EGFR and HER2 exon 20 NSCLC patients

R Cornelissen¹, MC Garassino², X Le³, J Clarke⁴, N Tchekmedyian⁵, J Goldman⁶, F Lebel⁷, G Bhat⁷, MA Socinski⁸

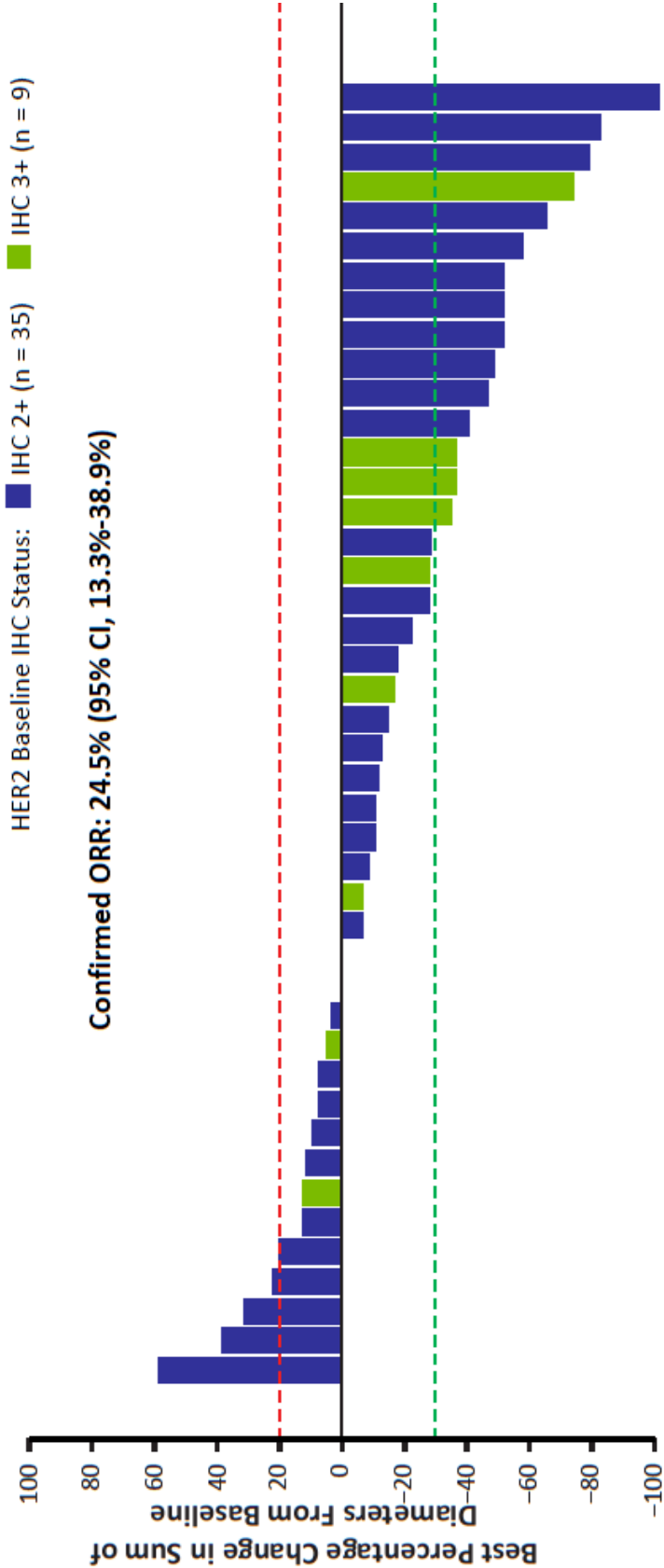
Phase 2 study of T-DXd, a novel antibody-drug conjugate, in patients with HER2-overexpressing or HER2-mutated metastatic NSCLC (NCT03505710)



Demographics and Baseline Characteristics	Patients (N = 49)
Age, median (range), years	63.0 (37-85)
<65 years, n (%) ≥75 years, n (%)	27 (55.1%) 2 (4.1%)
Female, n (%)	19 (38.8%)
Region, n (%)	
Asia	12 (24.5%)
North America	19 (38.8%)
Europe	18 (36.7%)
HER2 IHC status, n (%)	
IHC 3+	10 (20.4%)
IHC 2+	39 (79.6%)
IHC 1+ IHC 0 missing	0 0 0

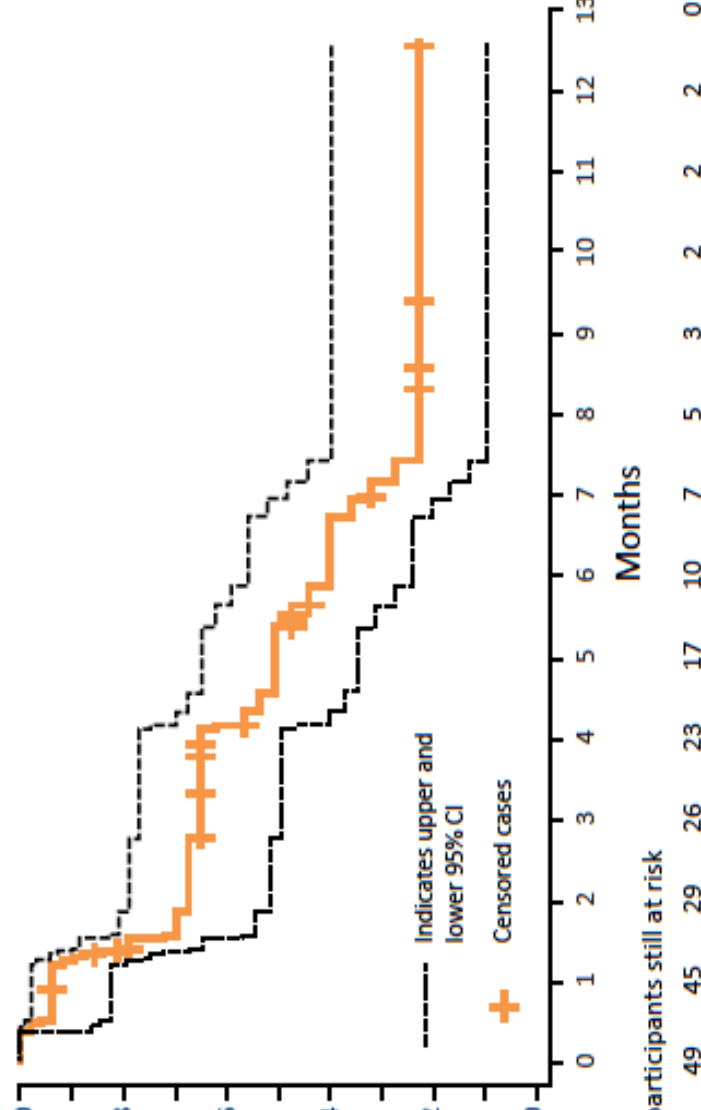
Demographics and Baseline Characteristics	Patients (N = 49)
Other gene abnormality status, n (%)	
EGFR/ALK/ROS1/BRAF	3 (6.1%)
No EGFR/ALK/ROS1/BRAF	14 (28.6%)
Not reported	32 (65.3%)
ECOG performance status, n (%)	0 1 14 (28.6%) 35 (71.4%)
Presence of CNS metastases, n (%)	17 (34.7%)
Prior therapies, n (%)	49 (100.0%)
Platinum-based	45 (91.8%)
Anti-PD-1/PD-L1	36 (73.5%)
Docetaxel	12 (24.5%)
Median number of prior lines of therapies (range)	3 (1-8)

Response Assessment by ICR		IHC 3+ (n = 10)	IHC 2+ (n = 39)	Overall (N = 49)
Confirmed ORR, n (95% CI)		20.0% 2 (2.5-55.6)	25.6% 10 (13.0-42.1)	24.5% 12 (13.3-38.9)
CR, n (%)		0	1 (2.6%)	1 (2.0%)
PR, n (%)		2 (20.0%)	9 (23.1%)	11 (22.4%)
SD, n (%)		6 (60.0%)	16 (41.0%)	22 (44.9%)
PD, n (%)		1 (10.0%)	10 (25.6%)	11 (22.4%)
Not evaluable, n (%)		1 (10.0%)	3 (7.7%)	4 (8.2%)
DCR, n (95% CI)		80.0% 8 (44.4-97.5)	66.7% 26 (49.8-80.9)	69.4% 34 (54.6-81.8)
Median DOR, months (95% CI)		6.0 (NE-NE)	5.8 (3.2-NE)	6.0 (3.2-NE)



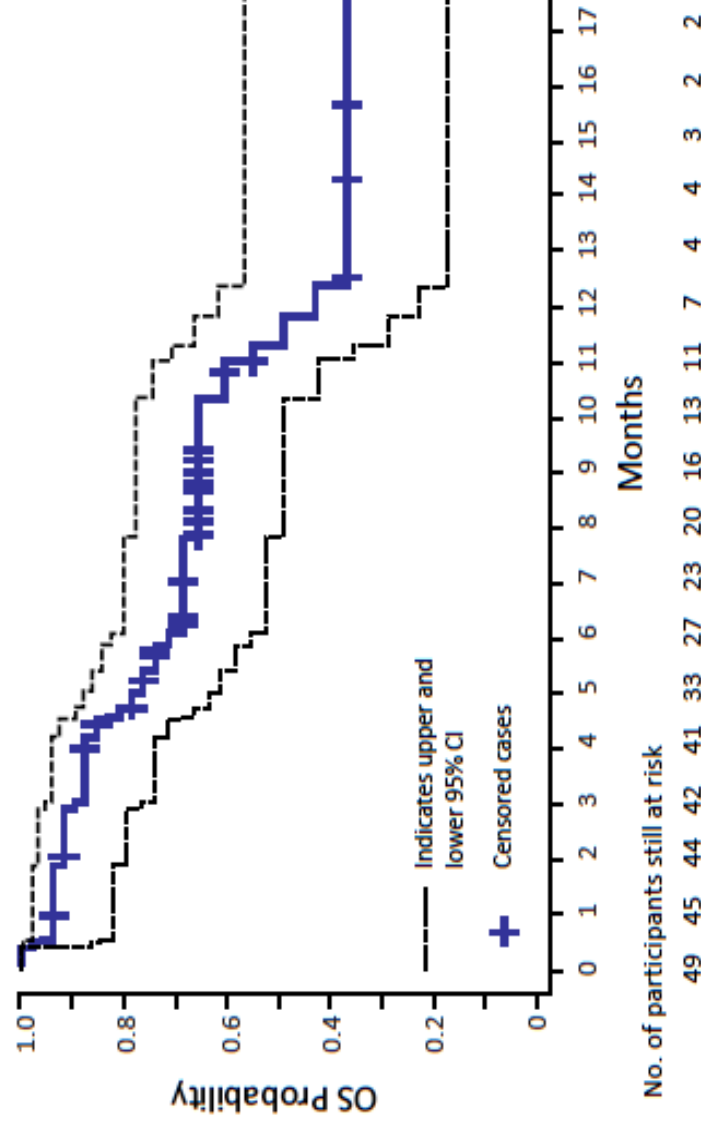
PFS (N = 49)

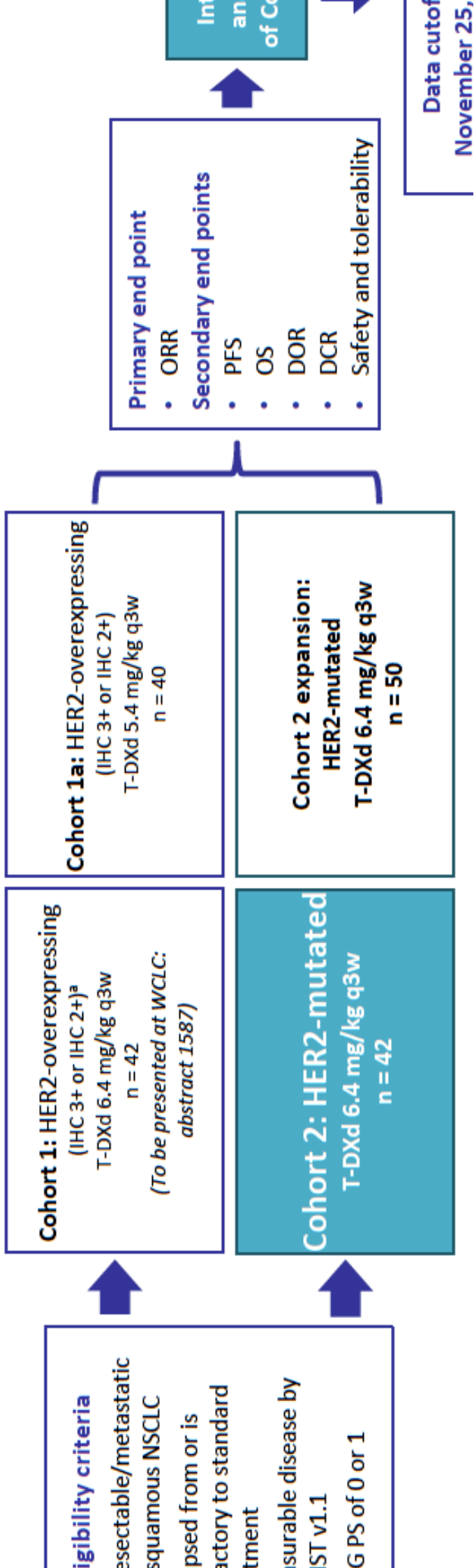
Median: 5.4 months (95% CI, 2.8-7.0 months)



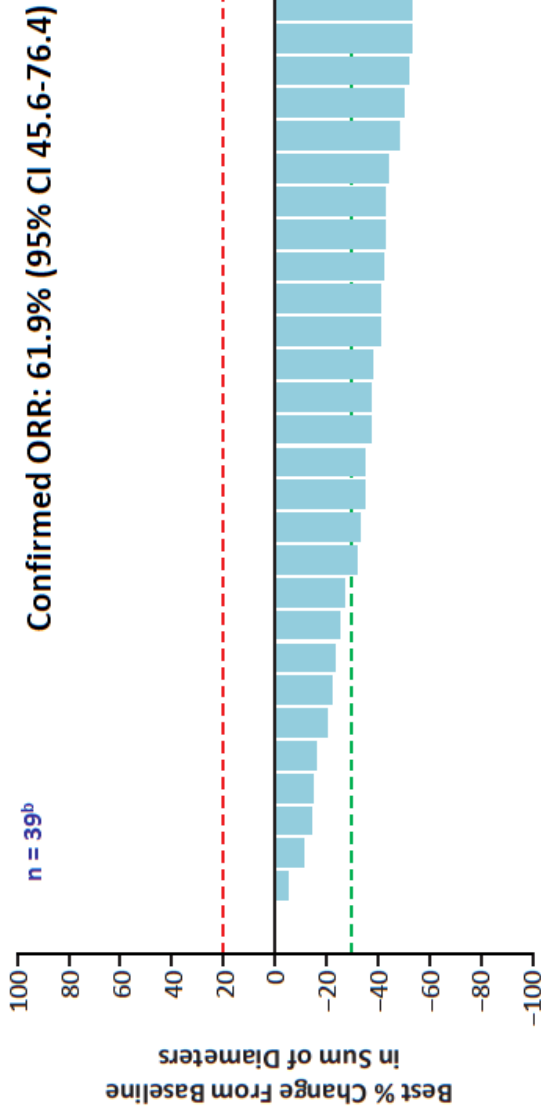
OS (N = 49)

Median: 11.3 months (95% CI, 7.8-NE)





Assessment by ICR		Patients (N = 42)
ORR	61.9%	26 (45.6-76.4)
	1 (2.4%)	
	25 (59.5%)	
	12 (28.6%)	
DOR, months (95% CI)	2 (4.8%)	
	2 (4.8%)	
	90.5%	38 (77.4-97.3)
	NE (5.3-NE)	
OS, months (95% CI)	14 (6.4-14.0)	
	NE (11.8-NE)	



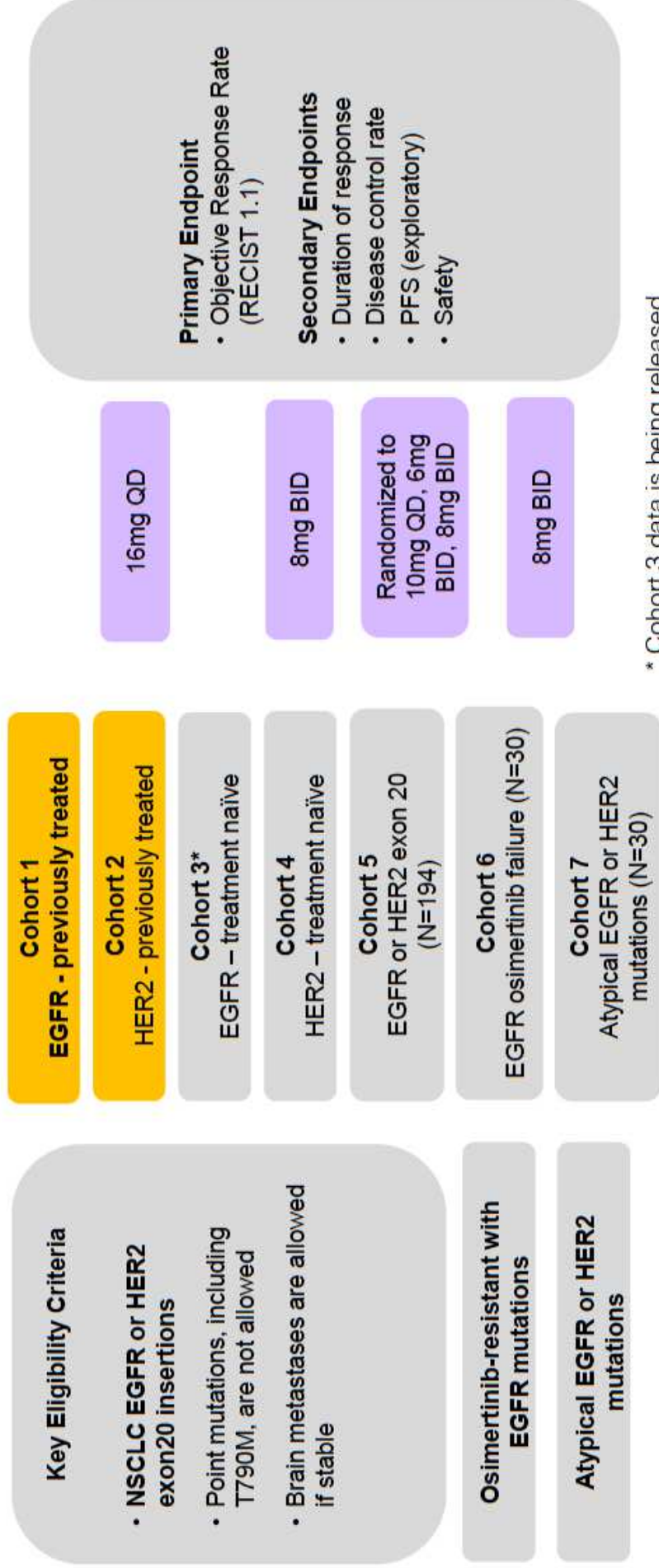
Es of Special Interest: ILD

All Patients (N = 49)						
	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Any Grade/Total
Median time to onset was 64.5 days (range, 2-126 days)						
patients had drug withdrawal						
steroid treatment was used in patients who had grade 2 (n = 3) and those who had grade 5 ILDs (n = 3)						
patients recovered (grade 1 [n = 1] and grade 2 [n = 2]) and patients had not recovered by data cutoff (grade 1 [n = 1] and grade 2 [n = 1])						
of 8 patients had immune checkpoint inhibitors included in their prior lines of therapy						
	2 (4.1%)	3 (6.1%)	0	0	3 (6.1%)	8 (16.3%)
Grade 5 ILD^c events						

ZENITH20 Trial: A Phase 2 International Trial

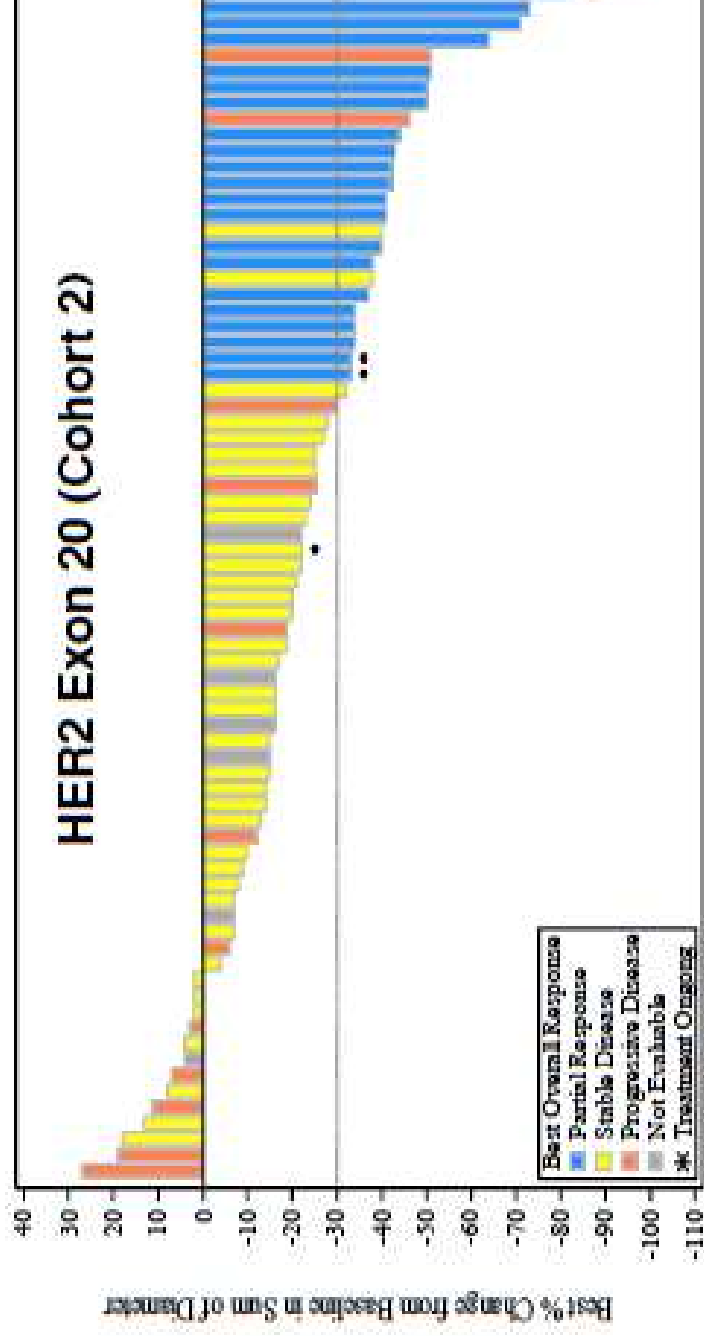
Updated efficacy, safety, and dosing management of poziotinib in previously treated EGFR and HER2 exon 20 NSCLC patients

R Cornelissen¹, MC Garassino², X Le³, J Clarke⁴, N Tchekmedyian⁵, J Goldman⁶, F Lebel⁷, G Bhat⁷, MA Socinski⁸



* Cohort 3 data is being released

	2L HER2 Exon 20 (N=90)
(n), [95% CI]	27.8% (25) [18.9, 38.2%]
Confirmed ORR (n), CI]	31.1% (28) [21.8, 41.7%]
(n), CI]	70.0% (63) [59.4, 79.2%]
median (months), CI]	5.1 [4.2, 5.5]
median (months), CI]	5.5 [3.9, 5.8]



Phase 1/2 TRIDENT-1 Study of Repotrectinib in Patients with ROS1+ or NTRK+ Advanced Solid Tumors

Byoung Chul Cho,¹ Robert C. Doebele,² Jessica J. Lin,³ Misako Nagasaka,⁴ Christina Baik,⁵ Anthonie J. van der Wekken,⁶ Vamsidhar Velcheti,⁷ Ki Hyeon Lee,⁸ Stephen V. Liu,⁹ Benjamin Solomon,¹⁰ Steven Kao,¹¹ Matthew G. Krebs,¹² Viola Zhu,¹³ Shanna Stopatschinskaja,¹⁴ D. Ross Camidge,¹⁵ Alexander Drilon¹⁶

TRIDENT-1 Study Design and Early Interim Phase 2 Data as of August 2020

ROS1+ Advanced NSCLC			NTRK+ Advanced Solid Tumors	
EXP-1 ROS1 TKI naïve (n=55)	EXP-2 1 prior ROS1 TKI AND 1 platinum-based chemotherapy (n=60)	EXP-3 2 prior ROS1 TKIs AND No prior chemotherapy (n=40)	EXP-4 1 prior ROS1 TKI AND No prior chemotherapy (n=60)	EXP-5 TRK TKI naïve (n=55)
ORR 86% (6/7) 95% CI, 42–100	ORR 40% (2/5) 95% CI, 5–85	ORR 40% (2/5) 95% CI, 5–85	ORR 67% (4/6) 95% CI, 22–96	Not Reported
				EXP-6 TRK TKI pretreated (n=40)
				ORR 50% (3/6) 95% CI, 12–88

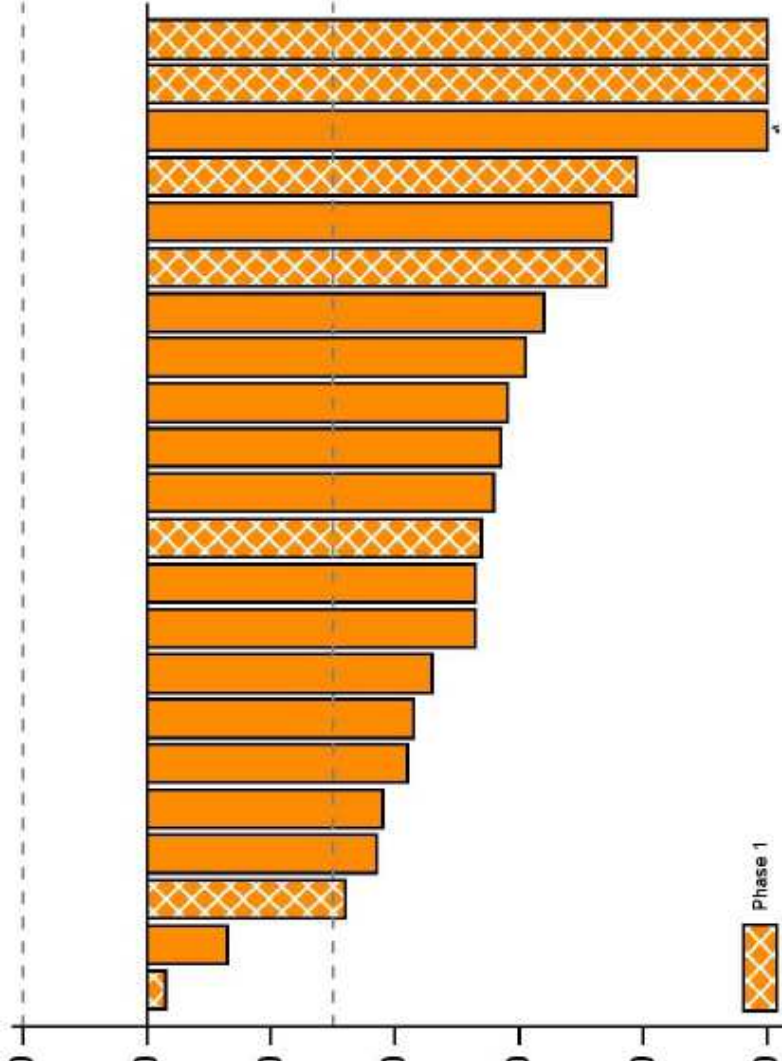
Today's presentation will focus on UPDATED Phase 2 EXP-1 data (N=15) utilizing a data cutoff of 31 December 2020:

- Median age 58 (range 30-76); ECOG PS 1 = 60%; Prior Chemotherapy Use = 20%

Previously reported Phase 1 ROS1+ TKI-Naïve results (N=11) based on data cutoff by BICR of 22 July 2019:

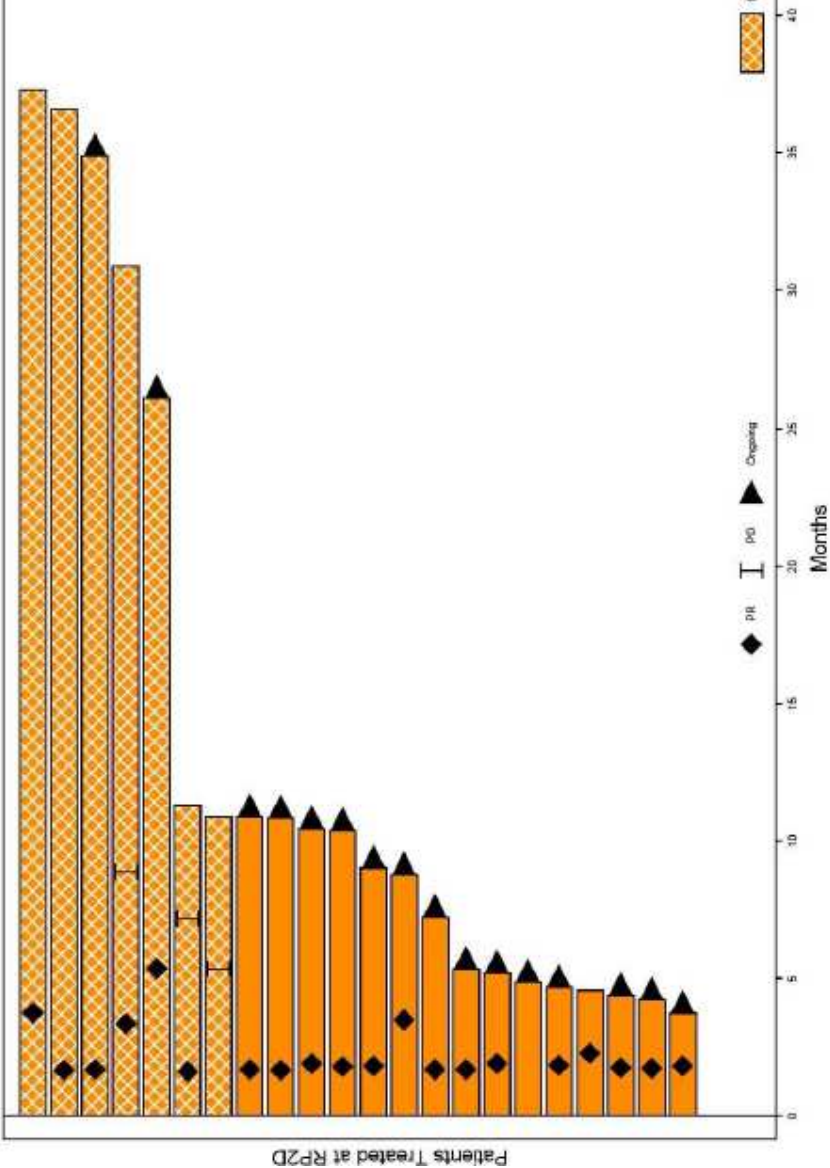
- ORR: 91% (10/11) (95% CI: 59 – 100)
- ORR 86% (6/7) at or above the Phase 2 recommended dose
- Median DOR (95% CI): 23.1 months (5.6 - NR)
- Median PFS (95% CI): 24.6 months (7.2 - NR)

Overall Response (N=22)



^a = Patient previously a confirmed partial response now in unconfirmed CR on treatment.

Duration of Treatment (N=22):[†]



	Phase 1 n=7	Phase 2 n=15
Remaining on treatment, n (%)	2 (29)	14 (93)
On treatment >30 months, n (%)	4 (57)	–
Median Time on treatment, months (range)	30.9 (10.9–37.3)	5.3 (3.7+–10.9+)

	Phase 2 N=15	Phase 1+2 N=22
Confirmed ORR, % (95% CI)	93% (68–100)	91% (71–99)

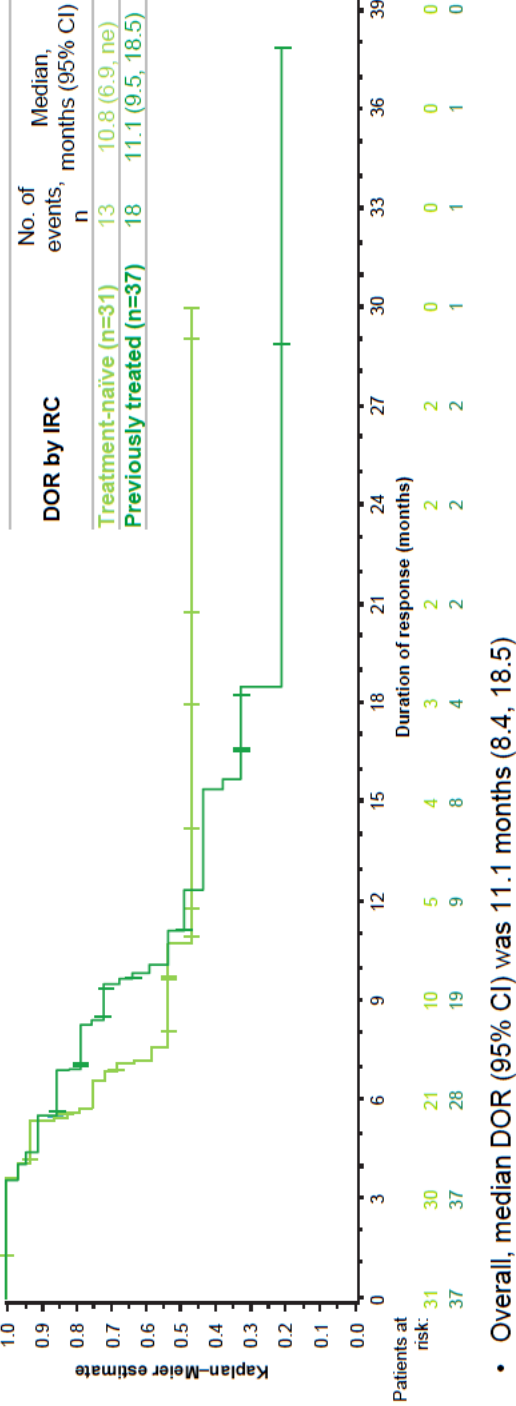
Tepotinib in patients with *MET* exon 14 (*MET*ex14) skipping advanced NSCLC: Updated efficacy results from VISION Cohort A

Paul K. Paik,^{1,2} Hiroshi Sakai,³ Enriqueta Felip,⁴ Remi Veillon,⁵ Marina Chiara Garassino,⁶ Jo Raskin,⁷ Santiago Viteri,⁸ Julien Mazieres,⁹ Alexis B. Cortot,¹⁰ Egbert Smit,¹¹ Michael Thomas,¹² Byoung Chul Cho,¹³ Pierfranco Conte,¹⁴ James Chih-Hsin Yang,¹⁵ Masahiro Morise,¹⁶ Yuh-Min Chen,¹⁷ Keunchil Park,¹⁸ Maya Gottfried,¹⁹ Christian Britschgi,²⁰ Rolf Bruns,²¹ Gordon Otto,²² Andreas Johnè,²² Xiuning Le²³

Efficacy according to C	Treatment-naïve (n=69)	Previously treated (n=83)	Overall (N=152)
ORR, (95% CI)	44.9 (32.9, 57.4)	44.6 (33.7, 55.9)	44.7 (36.7, 53.0)
DOR, n (%)			
CR	0	0	0
PR	31 (44.9)	37 (44.6)	68 (44.7)
SD	16 (23.2)	23 (27.7)	39 (25.7)
PD	13 (18.8)	13 (15.7)	26 (17.1)
NE	9 (13.0)	10 (12.0)	19 (12.5)
Median DOR, months (95% CI)	10.8 (6.9, ne)	11.1 (9.5, 18.5)	11.1 (8.4, 18.5)
Median PFS, months (95% CI)	8.5 (6.8, 11.3)	10.9 (8.2, 12.7)	8.9 (8.2, 11.2)

ata cut-off: July 1, 2020.

Responses to tepotinib treatment were durable and consistent irrespective of therapy line



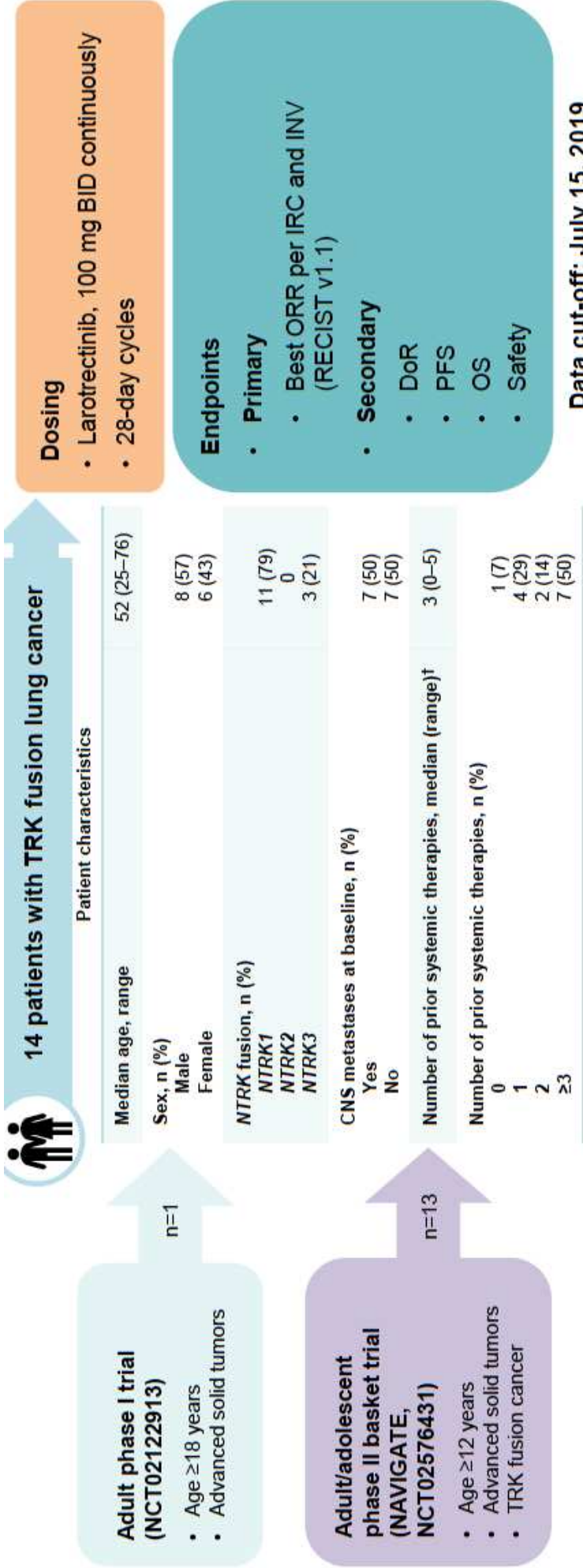
Efficacy and Safety of Larotrectinib in Patients With Tropomyosin Receptor Kinase (TRK) Fusion Lung Cancer

Daniel S. W. Tan

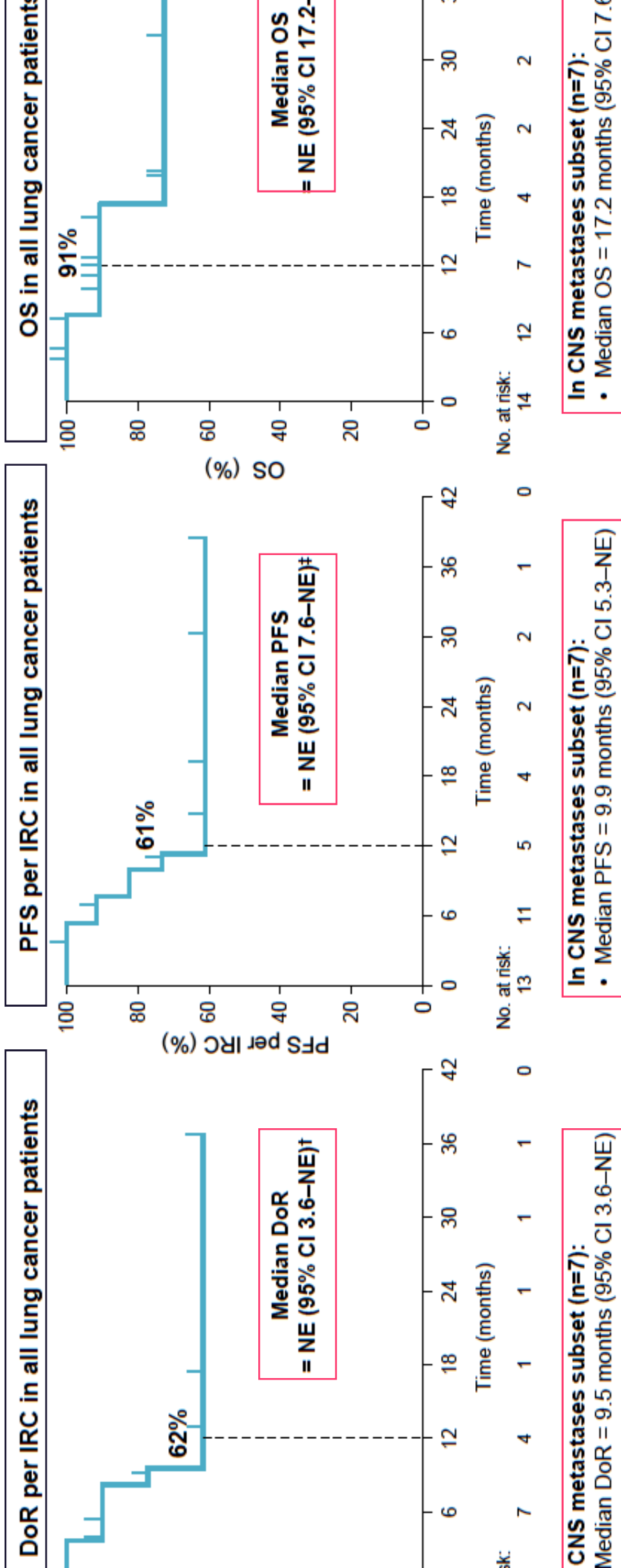
National Cancer Center, Singapore

On behalf of:

Daniel S. W. Tan,¹ Anna F. Farago,² Shivaani Kummar,³ Victor Moreno,⁴ Jyoti Patel,⁵ Ulrik Lassen,⁶ Benjamin Solomon,⁷ Lee Rosen,⁸ Serge Leyvraz,⁹ John A. Reeves,¹⁰ Nicoletta Brega,¹⁰ Laura Dima,¹⁰ Barrett H. Childs,¹⁰ Alexander Drilon¹¹



[†]Median prior systemic therapies for CNS metastases patients = 1 (range 0–4). The best overall response to prior therapy was PR in two patients, SD in two patients and PD in one patient. Responses were unavailable for two patients. BID, twice daily; CNS, central nervous system; DoR, duration of response; INV, investigator; IRC, independent review committee; NTRK, neurotrophic tyrosine receptor kinase; ORR, objective response rate; OS, overall survival; PD, progressive disease; PFS, progression-free survival; PR, partial response; RECIST, response evaluation criteria in solid tumors; SD, stable disease; TRK, tropomyosin receptor kinase.

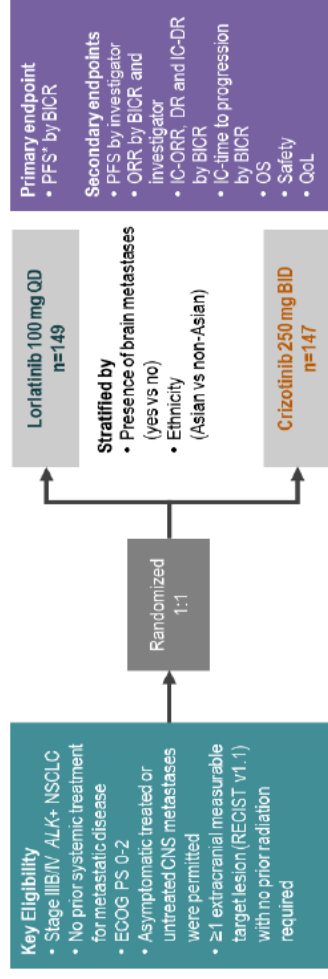


Patient-reported outcomes from the randomized Phase 3 CROWN study of first-line lorlatinib versus crizotinib in ALK+ NSCLC

Julien Mazieres,¹ Laura Iadecola,² Alice T. Shaw,³ Benjamin Solomon,⁴ Todd M. Bauer,⁵ Filippo de Marinis,⁶ Enriqueta Felip,⁷ Yasushi Goto,⁸ Dong-Wan Kim,⁹ Tony Mok,¹⁰ Arlene Reisman,² Holger Thurm,¹¹ Anna Polli,¹² Geoffrey Liu¹³

INTRODUCTION

- Lorlatinib, a 3rd-generation ALK inhibitor, significantly improved progression-free survival compared with crizotinib in the CROWN Phase 3 study in patients with previously untreated advanced ALK-positive NSCLC (NCT03052608)



- Improvement in global quality of life (QoL) was greater in patients receiving lorlatinib versus crizotinib
- Here, we report additional patient-reported outcomes (PROs) from the CROWN Phase 3 study

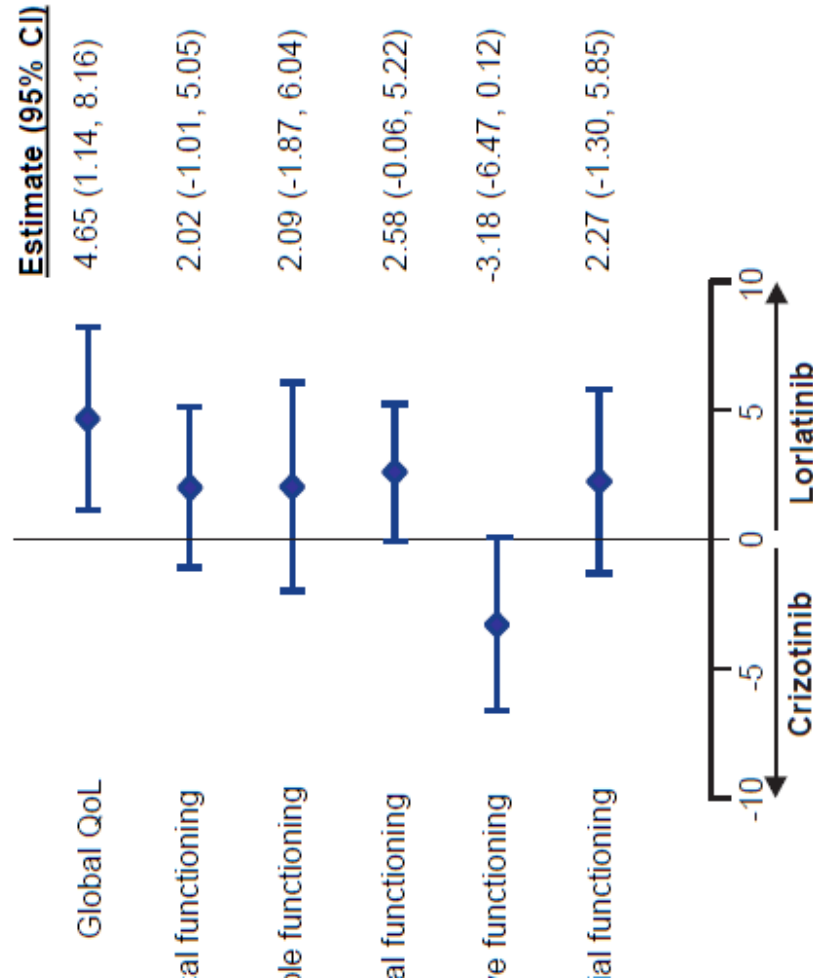
METHODS

- Patients (n=296) with ALK+ NSCLC were randomized to receive either lorlatinib or crizotinib
- PROs were assessed using the EORTC QLQ-C30 and QLQ-LC13 at baseline, then on the first day of each cycle (28 days) through end of treatment (EOT)
- A longitudinal random-intercept, random-slope, mixed-effect model was used to assess score change from baseline. Longitudinal mean score changes from baseline were compared between treatment arms (≥10-point difference considered clinically meaningful). No adjustments were made for multiple comparisons
- Time to deterioration (TTD) in the composite endpoint of pain in chest, dyspnea, and cough, and in global QoL, was compared between treatment arms using a 1-sided log-rank test stratified by randomization stratification factors. The treatment effect was estimated using a Cox Proportional Hazard model

Differences in Change from Baseline up to But Not Including EOT (Mixed Model)

EORTC QLQ-C30

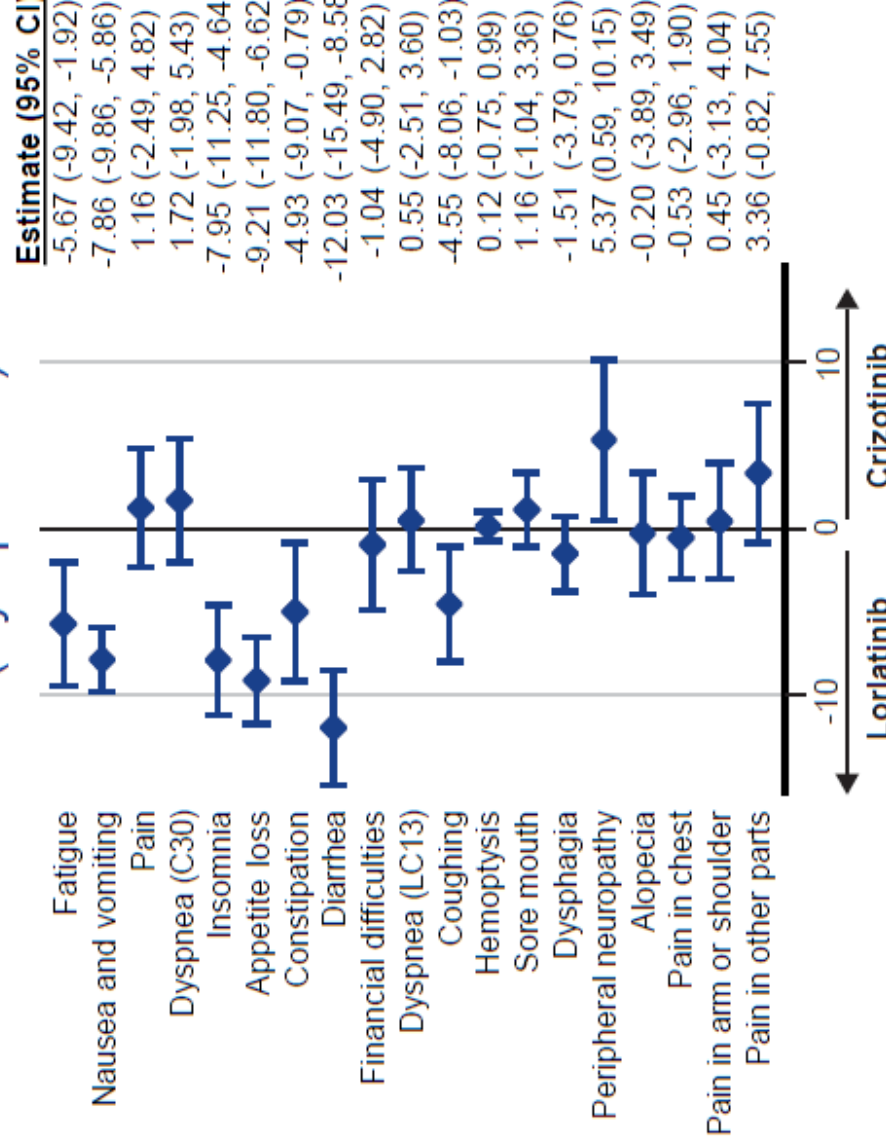
(Global QoL and Functioning^a)



There were no differences between treatment arms in any functioning domain

EORTC QLQ-C30 and LC13

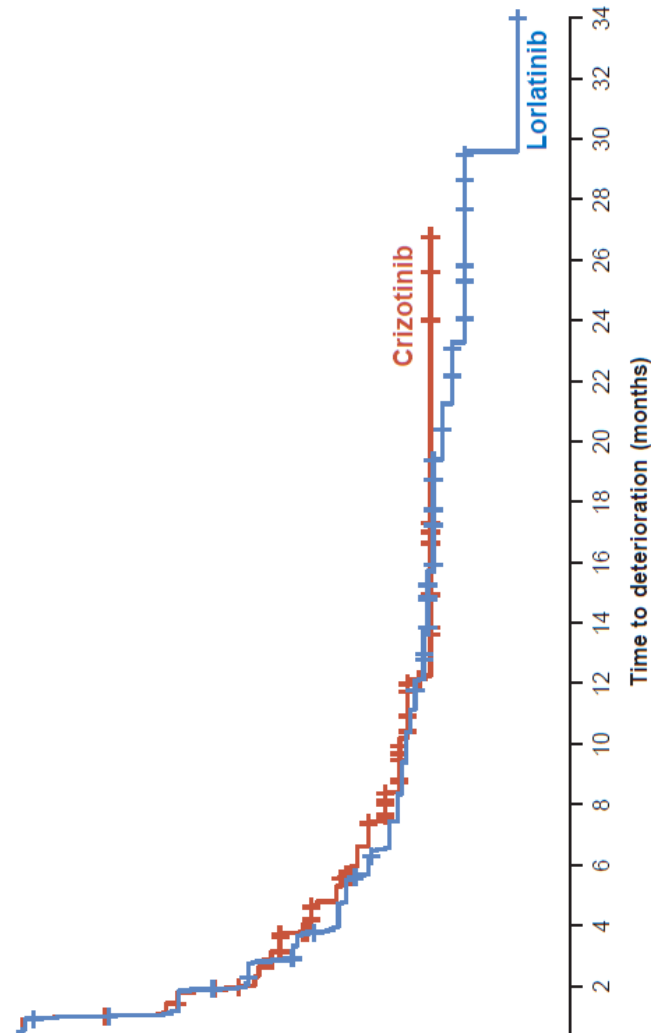
(Symptoms^b)



For diarrhea there was both a clinically meaningful and statistically significant difference favoring lorlatinib

^aPatients in the EORTC QLQ-C30 PRO analysis set with a score at baseline and post-baseline assessment. Analysis based on random-intercept, random-slope, mixed-effects model with an intercept term, treatment arm as a continuous variable, treatment-by-time, baseline and randomization stratification factors as covariates. Analysis model included post-baseline assessments up to EOT, but not including EOT.

TIME TO DETERIORATION IN COMPOSITE ENDPOINT*



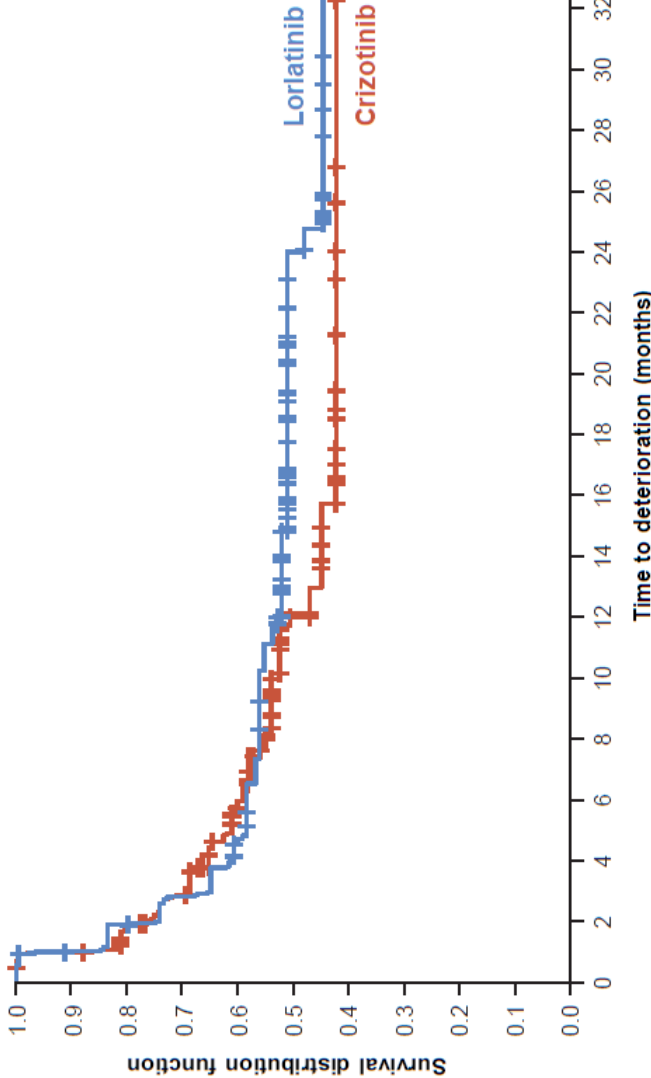
No. at risk
Lorlatinib: 16 107 82 68 56 54 48 42 40 39 38 37 35 31 28 25 22 22 20 19 15 14 13 11 8 7 5 5 4 3 1 1 1 1 1
Crizotinib: 10 82 56 48 40 39 38 37 35 31 28 25 22 22 20 19 15 14 13 11 8 7 5 5 4 3 1 1 1 1 1 1 1 1 0

endpoint of lung cancer symptoms: cough, dyspnea, and pain in chest

Lorlatinib: Median 3.3 months (95% CI 2.1–4.7)
Crizotinib: Median 3.7 months (95% CI 2.0–5.5)

Hazard Ratio: **1.09** (95% CI 0.822–1.444)
1-sided $P = 0.7293$

TIME TO DETERIORATION IN GLOBAL QoL



No. at risk
Lorlatinib: 148 123 104 91 85 80 77 75 74 73 72 71 64 60 55 48 43 37 36 31 26 20 19 18 15 11 6 5 4 2 1 1
Crizotinib: 139 116 97 86 76 69 64 57 49 43 39 36 24 21 19 17 15 11 10 8 6 6 5 5 3 3 2 1 1 1 1 1 1

Lorlatinib: Median 24 months (95% CI 6.5–NE)
Crizotinib: Median 12 months (95% CI 6.5–NE)

Hazard Ratio: **0.92** (95% CI 0.650–1.294)
1-sided $P = 0.3127$