

 #ESMOUPDATES

Iniciativa científica de:



LUNG CANCER
UPDATES

ESMO HIGHLIGHTS

27 SEPTIEMBRE - 1 OCTUBRE 2019



Con la colaboración de:





LUNG CANCER UPDATES

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BARCELONA

Iniciativa científica de:



Terapias dirigidas (II)

Dra. Noemí Reguart

Con la colaboración de:



[Poster Discussion – NSCLC, metastatic \(ID 256\)](#)

[Proffered Paper 2 – NSCLC, metastatic \(ID 257\)](#)

• EGFR+ Disease

- **LBA85-** Longitudinal **circulating tumour DNA (ctDNA)** monitoring for early detection of disease progression and resistance in advanced NSCLC in **FLAURA** (ID 2685). *Presenter Jhanelle E. Gray*
- **14800- CTONG 1509:** Phase 3 study of bevacizumab with or without erlotinib in untreated Chinese patients with advanced EGFR-mutated NSCLC (ID 3200). *Presenter Qing Zhou*

• ROS1/NTRK+ Disease

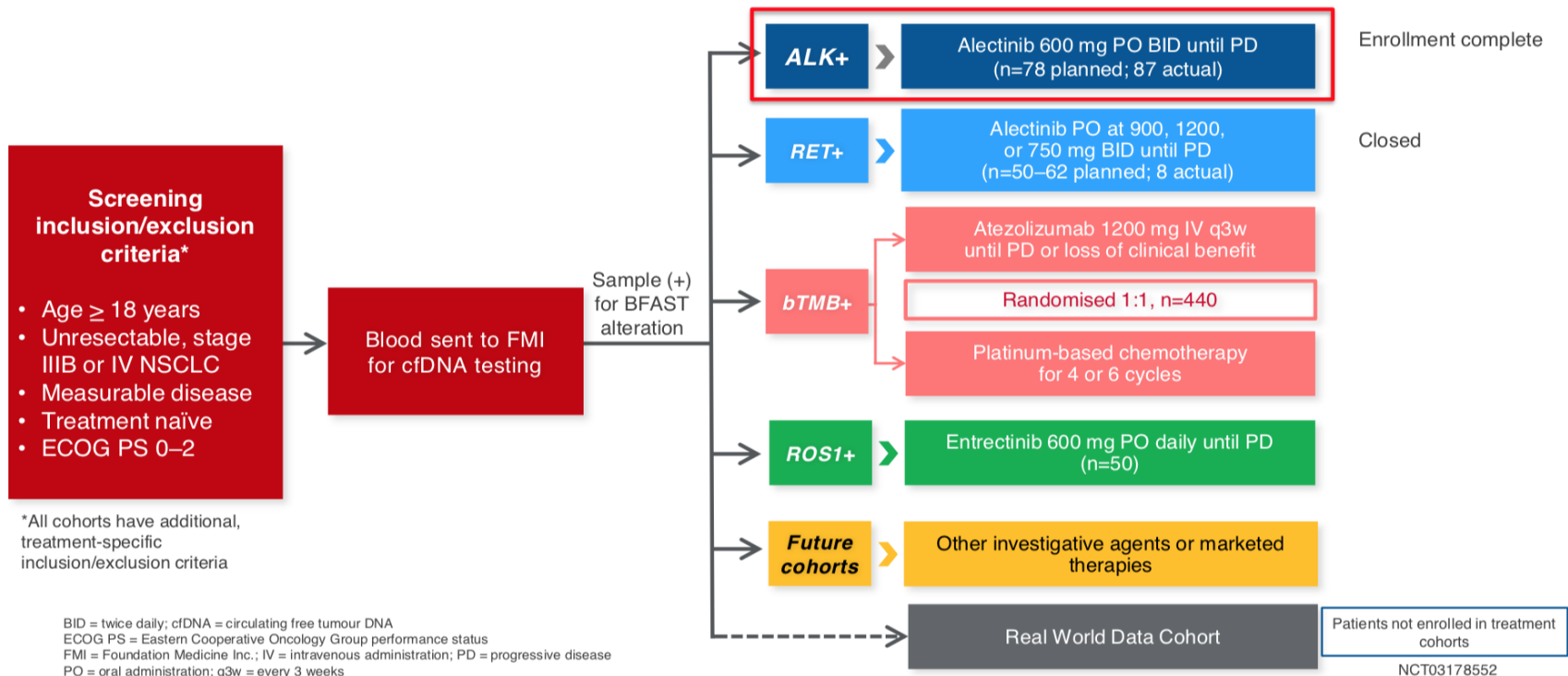
- **1485PD-** Safety and efficacy of **WX-0593** in ALK-positive or ROS1-positive non-small cell lung cancer (ID 6131). *Presenter Yuan-Kai Shi*
- **1488PD- Entrectinib** in Locally Advanced/Metastatic ROS1 and NTRK Fusion-Positive NSCLC: Updated Integrated Analysis of **STARTRK-2, STARTRK-1 and ALKA-372-001** (ID 4178). *Presenter Filippo Guglielmo M. De Braud*
- **1489PD-** Secondary **ROS1 mutations and lorlatinib sensitivity** in crizotinib-refractory ROS1 positive NSCLC: results of the prospective **PFOST trial** (ID 4899). *Presenter Lorenza Landi*

- **ALK+ Disease**

- **1484PD**- Final PFS, updated OS and safety data from the randomised, phase III **ALEX study** of alectinib (ALC) versus crizotinib (CRZ) in untreated advanced ALK+ NSCLC (ID 3850). *Presenter Tony S.K. Mok*
- **1486PD**- Exposure-response analyses of ALK-inhibitors **crizotinib and alectinib** in NSCLC patients (ID 1906). *Presenter Steffie L. Groenland*
- **1487PD**- Intracranial and extracranial efficacy of **lorlatinib** in the **post second-generation ALK** tyrosine kinase inhibitor (TKI) setting (ID 2577). *Presenter Steffie L. Groenland*
- **LBA81_PR**- Phase II/III Blood First Assay Screening Trial (**BFAST**) in patients (pts) with treatment-naïve NSCLC: initial results from the **ALK+ cohort** (ID 5026). *Presenter Shingo Miyamoto. Presenter Shirish M. Gadgeel*

Phase II/III Blood First Assay Screening Trial (BFAST) in patients (pts) with treatment-naïve NSCLC: initial results from the ALK+ cohort (ID 5026). Presenter Shingo Miyamoto. Presenter Shirish M. Gadgeel

Study design



Goal

Demonstrate consistency of benefit with alectinib in a population selected by blood-based NGS as opposed to tissue-based assay, **using ALEX alectinib data as reference**



Primary endpoint

Confirmed ORR by investigator

Exploratory endpoint

Confirmed ORR by investigator for patients with baseline CNS metastases

Secondary endpoints

By investigator

DoR
PFS

By independent review facility

ORR
DoR
PFS

CNS = central nervous system; DoR = duration of response
ORR = overall response rate; PD = disease progression; PFS = progression-free survival
ECOG PS = Eastern Cooperative Oncology Group performance status; NGS = next generation sequencing

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Iniciativa científica de:

Phase II/III Blood First Assay Screening Trial (BFAST) in patients (pts) with treatment-naïve NSCLC: initial results from the ALK+ cohort (ID 5026). Presenter Shingo Miyamoto. *Presenter Shirish M. Gadgeel*

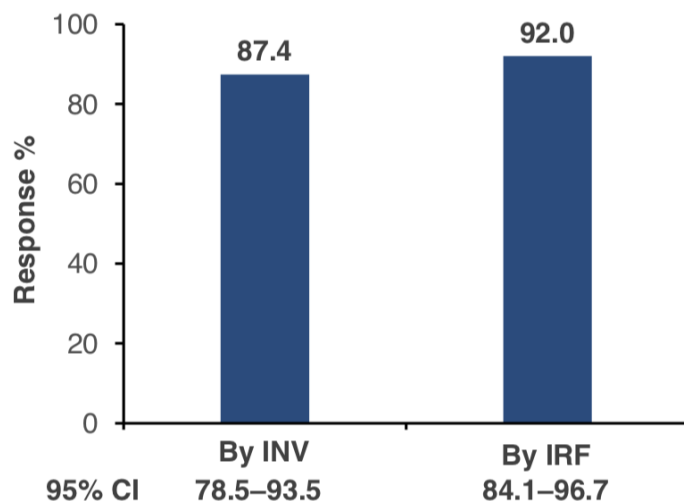
Demographics and baseline characteristics

Characteristic	ALK+ Cohort (N=87)	ALEX alectinib arm ¹ (N=152)
Median age, years (range)	55.0 (25–82)	58.0 (25–88)
Gender		
Male	35 (40)	68 (45)
Female	52 (60)	84 (55)
Race, n (%)		
Asian	29 (33)	69 (45)
Non-Asian	58 (67)	83 (55)
ECOG PS, n (%)		
0–1	82 (94)	142 (93)
2	5 (6)	10 (7)
Smoking status, n (%)		
Active smoker	5 (6)	12 (8)
Past smoker	32 (37)	48 (32)
Never smoked	50 (58)	92 (61)
Disease state, n (%)		
IIIb	5 (6)	4 (3)
IV	82 (94)	148 (97)
Histology, n (%)		
Adenocarcinoma	81 (93)	136 (90)
Other	4 (5)	16 (10)
Missing	2 (2)	0 (0)
CNS metastases by investigator, n (%)		
Yes	35 (40)	60 (40)
No	52 (60)	92 (60)

Phase II/III Blood First Assay Screening Trial (BFAST) in patients (pts) with treatment-naïve NSCLC: initial results from the ALK+ cohort (ID 5026). Presenter Shingo Miyamoto. *Presenter Shirish M. Gadgeel*

Results: Confirmed response (INV vs IRF)

Overall Response Rate



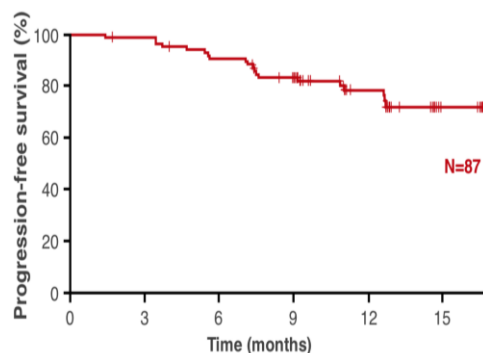
Median duration of follow-up: 12.58 months

	INV (N=87)	IRF (N=87)
Complete Response, n (%) 95% CI	0 (0.00–4.15)	11 (12.6) (6.48–21.50)
Partial Response, n (%) 95% CI	76 (87.4) (78.50–93.52)	69 (79.3) (69.29–87.25)
Progressive Disease, n (%) 95% CI	1 (1.1) (0.03–6.24)	1 (1.1) (0.03–6.24)

ALEX confirmed ORR = 71.7% (95% 63.8–78.7)¹

Phase II/III Blood First Assay Screening Trial (BFAST) in patients (pts) with treatment-naïve NSCLC: initial results from the ALK+ cohort (ID 5026). Presenter Shingo Miyamoto. Presenter Shirish M. Gadgeel

Results: PFS by investigator



Patients at risk 87 85 77 66 37 7

Median duration of follow-up: 12.6 months

Patients with event, n (%)	20 (23)
Median PFS, months (95% CI)	NE (NE)
12-month PFS, % (95% CI)	78.38 (69.07–87.69)
ALEX¹	N=152
12-month PFS, % (95% CI)	68.4 (61.0–75.9)

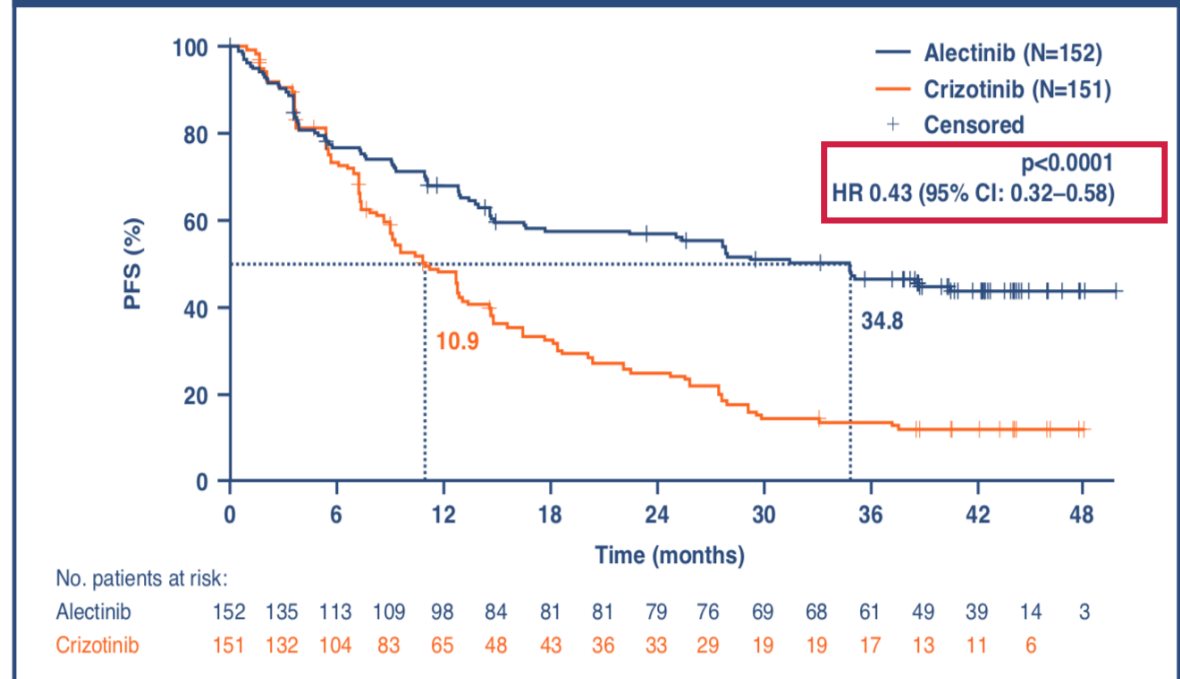
Conclusions

- BFAST is the **first prospective trial to use** blood-based NGS testing as the **sole method of identifying** actionable genetic alterations and **assigning** NSCLC patients to **targeted or immunotherapy**
- The **primary endpoint** of the ALK+ cohort **was achieved** with an **investigator-confirmed ORR of 87.4%** and an **independent review facility confirmed ORR of 92.0%**
- **Key secondary endpoints:** 6-month DoR 90.4%, 12-month PFS 78.38%
- The **safety profile of alectinib was consistent** with that established in previous phase III trials and post-marketing experience
- These results demonstrate the **clinical utility of blood-based NGS** as a method to **inform clinical decision-making in ALK+ NSCLC**

1484PD- Final PFS, updated OS and safety data from the randomised, phase III ALEX study of alectinib (ALC) versus crizotinib (CRZ) in untreated advanced ALK+ NSCLC (ID 3850). Presenter Tony S.K. Mok

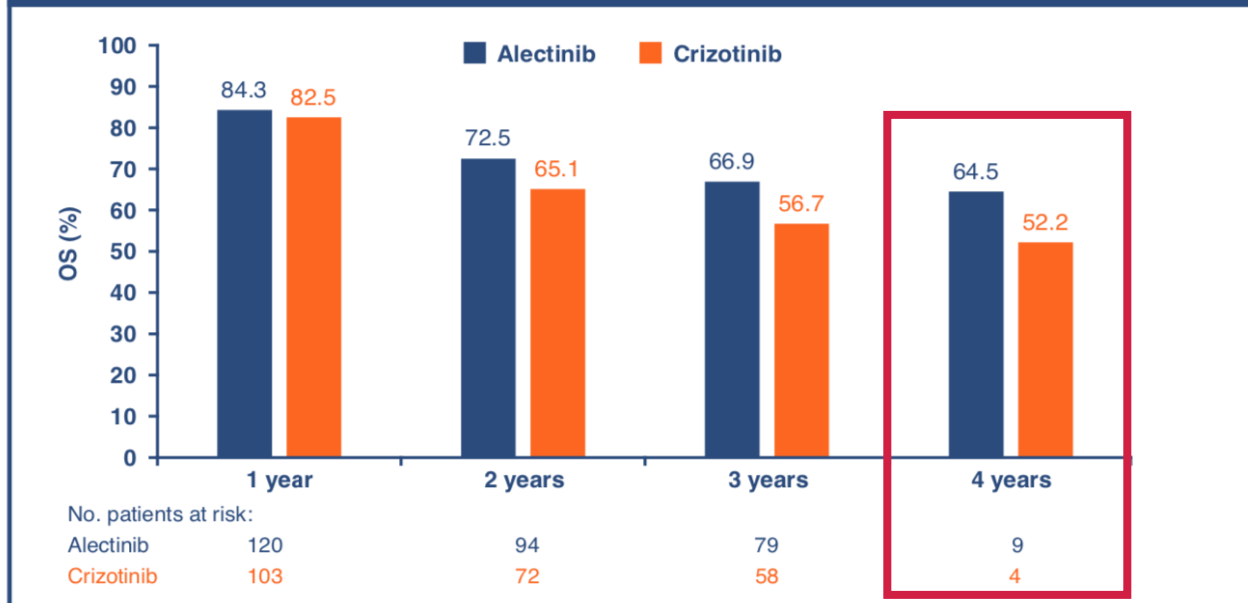
- Last update: PFS alectinib vs crizotinib HR 0.43, (95% CI: 0.32–0.58): Median 34.8 versus 10.9 months. OS immature: stratified HR 0.76, 95% CI: 0.50–1.15.2
- Present updated data median duration of follow-up 4 years (37.8 months with alectinib and 23.0 months with crizotinib)

Figure 1. Mature investigator-assessed PFS (primary endpoint).



1484PD- Final PFS, updated OS and safety data from the randomised, phase III ALEX study of alectinib (ALC) versus crizotinib (CRZ) in untreated advanced ALK+ NSCLC (ID 3850). *Presenter Tony S.K. Mok*

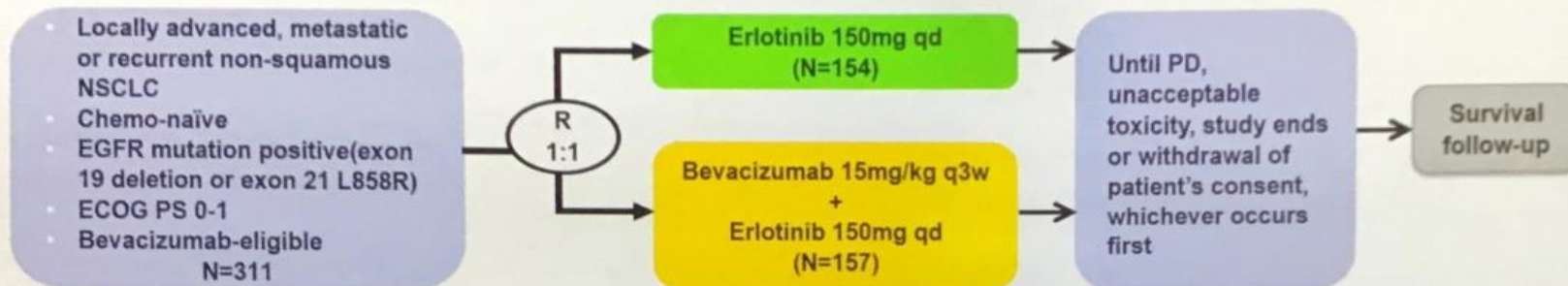
Figure 3. OS event-free rate in the ITT population.



OS data remain immature, with a 4-year OS rate of 64.5% (95% CI: 55.6–73.4) with alectinib versus 52.2% (95% CI: 42.6–61.8) with crizotinib

CTONG 1509: Phase 3 study of bevacizumab with or without erlotinib in untreated Chinese patients with advanced EGFR-mutated NSCLC (ID 3200). *Presenter Qing Zhou*

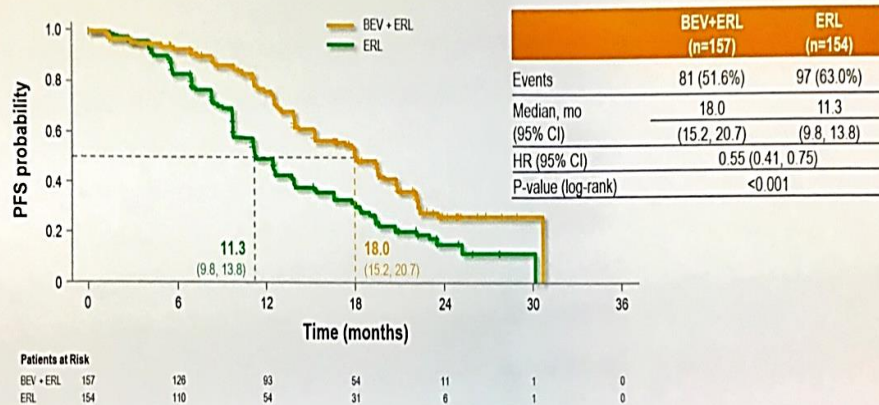
STUDY DESIGN



- Primary endpoint: PFS (Independent Review Committee, IRC)
- Secondary endpoints:
 - ✓ PFS (Investigator, INV), ORR, DCR, DOR, OS, TTF, safety
- Exploratory endpoints:
 - ✓ To identify biomarkers in tissue and plasma that are associated with acquired resistance to bevacizumab combined with erlotinib or erlotinib alone in NSCLC
- Stratified by
 - ✓ Sex (female vs. male)
 - ✓ Disease stage (stage IIIb vs. stage IV vs. recurrence)
 - ✓ EGFR gene mutation (exon 19 del vs. exon 21 L858R)

CTONG 1509: Phase 3 study of bevacizumab with or without erlotinib in untreated Chinese patients with advanced EGFR-mutated NSCLC (ID 3200). *Presenter Qing Zhou*

PRIMARY ENDPOINT : PFS BY IRC (ITT POPULATION)

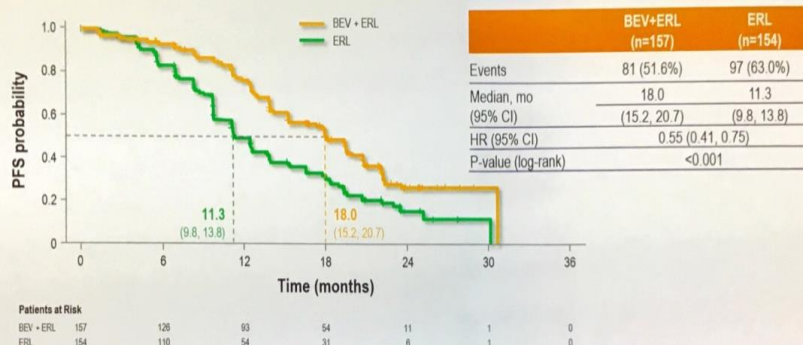


SUBGROUP ANALYSIS OF PFS BY INV (ITT POPULATION)

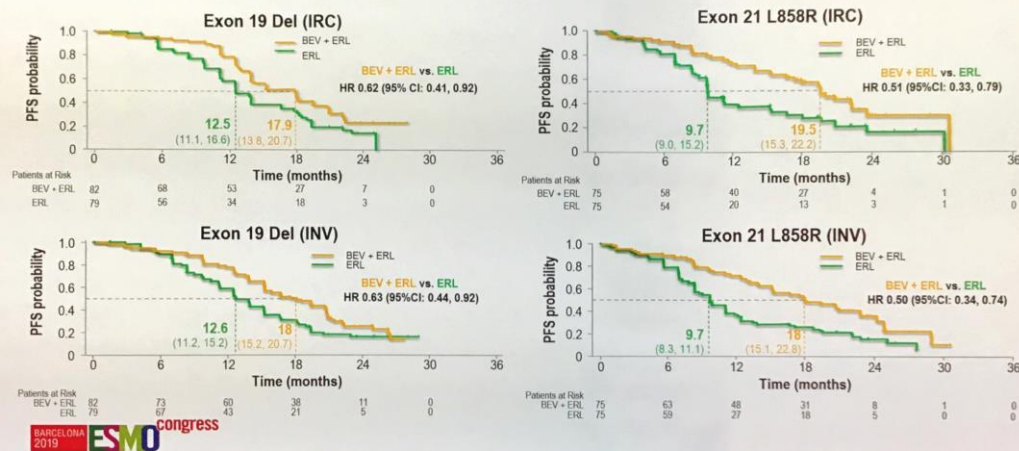
Subgroup	Total number of patients/events (n/N)	BEV + ERL (n/N)	ERL (n/N)	Hazard Ratio and 95% CI	HR with its 95%CI
All	311/221	157/100	154/121	0.55 (0.41, 0.75)	0.57 (0.44, 0.75)
Gender: Male	118/81	60/37	58/44	0.54 (0.35, 0.85)	0.54 (0.35, 0.85)
Gender: Female	193/140	97/63	96/77	0.59 (0.42, 0.82)	0.59 (0.42, 0.82)
Stage: IIb	10/6	4/4	6/2	2.09 (0.36, 12.1)	2.09 (0.36, 12.1)
Stage: IV	275/199	141/89	134/110	0.52 (0.39, 0.69)	0.52 (0.39, 0.69)
Stage: recurrence	28/16	12/7	14/9	0.77 (0.28, 2.12)	0.77 (0.28, 2.12)
EGFR mutation type: Exon 19 Del	161/115	82/56	79/59	0.63 (0.44, 0.92)	0.63 (0.44, 0.92)
EGFR mutation type: Exon 21 L858R	150/106	75/44	75/62	0.50 (0.34, 0.74)	0.50 (0.34, 0.74)
Age: ≥75yr	6/2	3/0	3/2	NA	NA
Age: <75yr	305/219	154/100	151/119	0.59 (0.45, 0.77)	0.59 (0.45, 0.77)
Pathological type: adenocarcinoma	311/221	157/100	154/121	0.57 (0.44, 0.75)	0.57 (0.44, 0.75)
Baseline ECOG score: 0	42/31	25/16	17/15	0.41 (0.20, 0.85)	0.41 (0.20, 0.85)
Baseline ECOG score: 1	269/190	132/84	137/106	0.60 (0.45, 0.80)	0.60 (0.45, 0.80)
Baseline brain metastasis: Yes	91/75	44/32	47/43	0.42 (0.26, 0.67)	0.42 (0.26, 0.67)
Baseline brain metastasis: No	220/146	113/68	107/78	0.63 (0.45, 0.87)	0.63 (0.45, 0.87)

CTONG 1509: Phase 3 study of bevacizumab with or without erlotinib in untreated Chinese patients with advanced EGFR-mutated NSCLC (ID 3200). Presenter Qing Zhou

PRIMARY ENDPOINT : PFS BY IRC (ITT POPULATION)

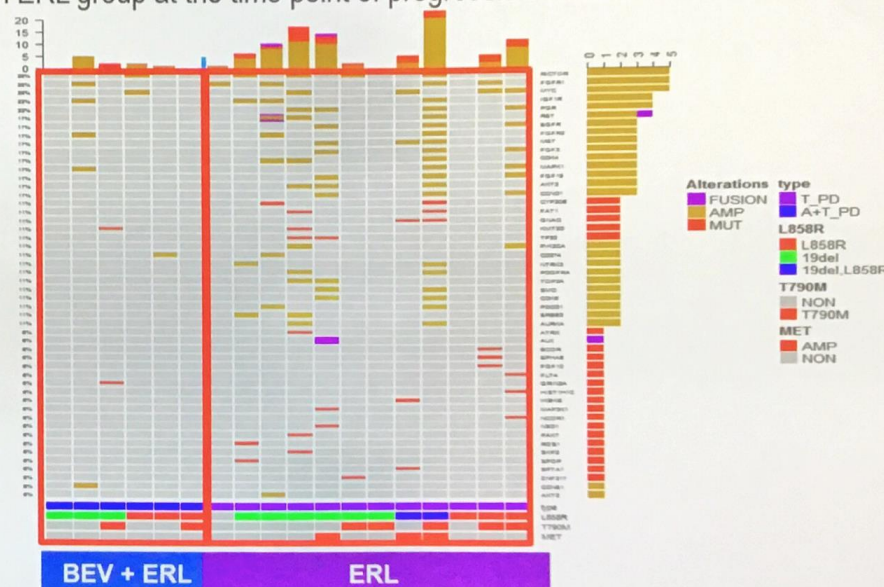
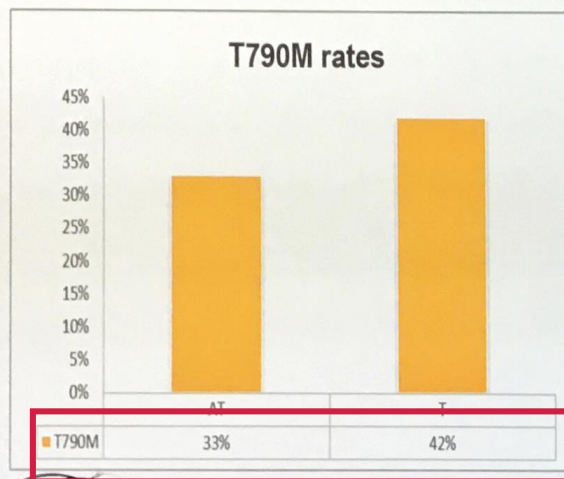


PFS BY EGFR MUTATION TYPE (ITT POPULATION)



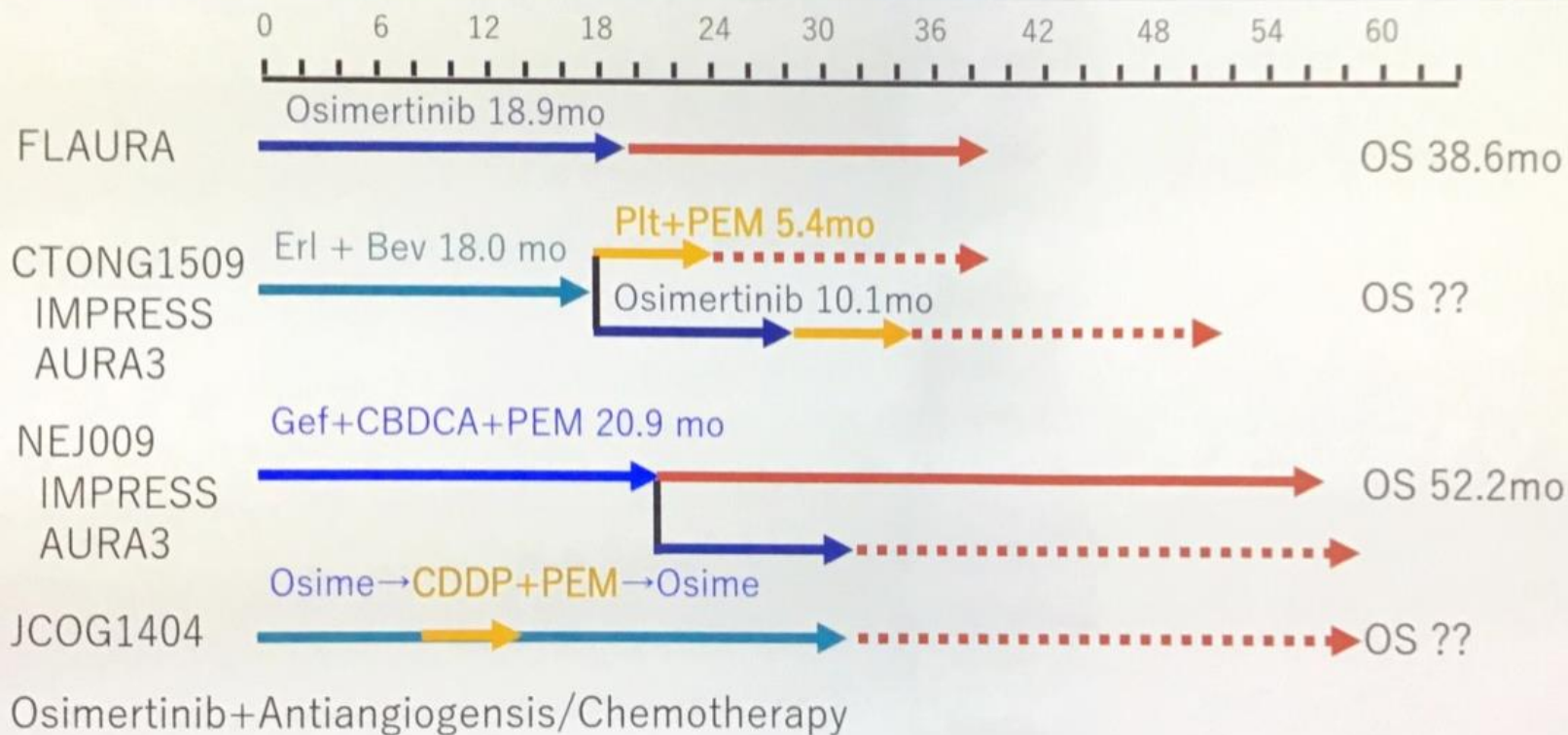
RESISTANCE BIOMARKER ANALYSIS

22 baseline-PD paired frozen tissue samples in ERL group and 10 paired tissue samples in BEV + ERL group underwent Next-generation sequencing (NGS) of a 448-gene panel and transcriptome sequencing (RNA-Seq) was used for resistance biomarker analysis. Relatively less T790M was found in BEV + ERL group and more mutations and amplifications were found in ERL group at the time point of progression disease.



CTONG 1509: Phase 3 study of bevacizumab with or without erlotinib in untreated Chinese patients with advanced EGFR-mutated NSCLC (ID 3200). *Presenter Qing Zhou*

Treatment strategy with combination and/or sequencing



Panel 10. ESMO 2018. Zhou. ESMO 2018. Mok. N Engl J Med. 2017. Mok. JCO. 2017. Mok. Lung Cancer. 2018. JCO. 2018. Zhou. ESMO 2018.

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