

**AIGOM 09 ottobre 2023**

# Malattia EGFR mutata e inserzioni esone 20: nuove strategie terapeutiche

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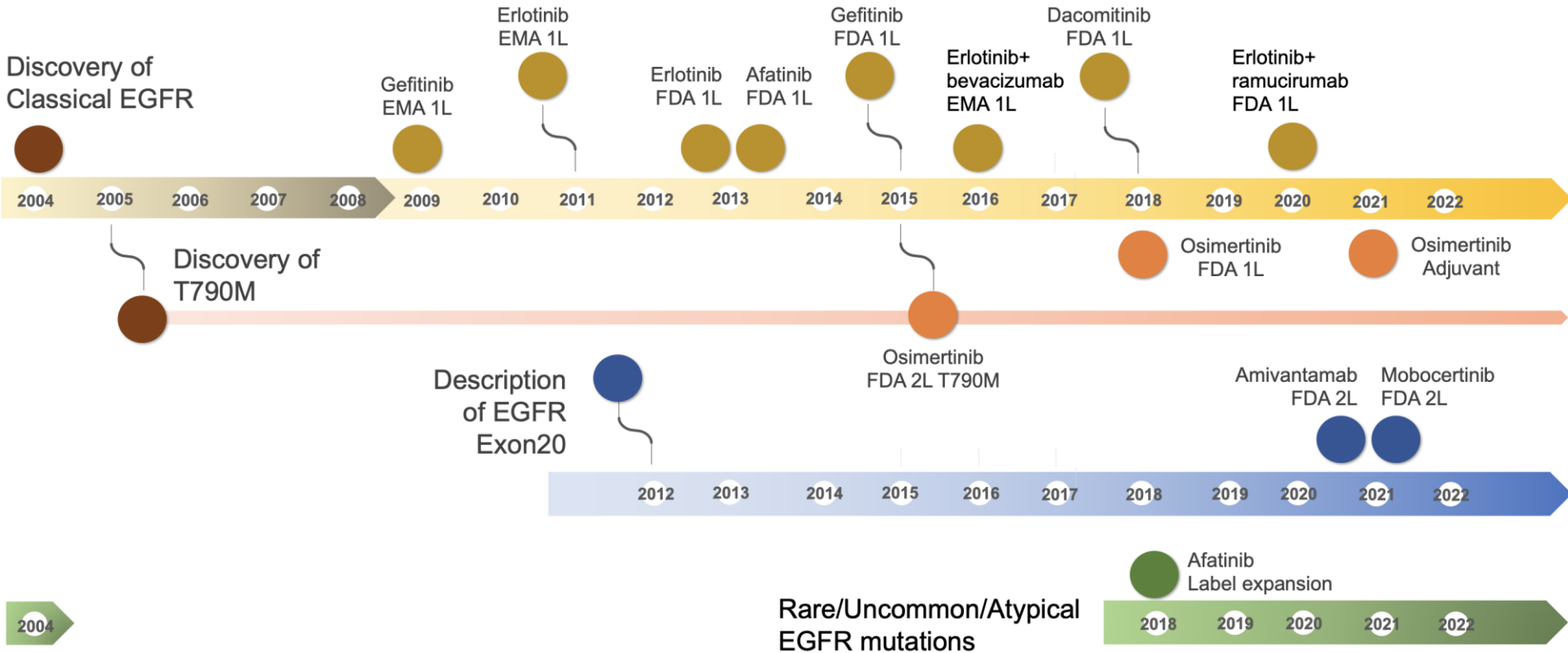
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Palliative Care



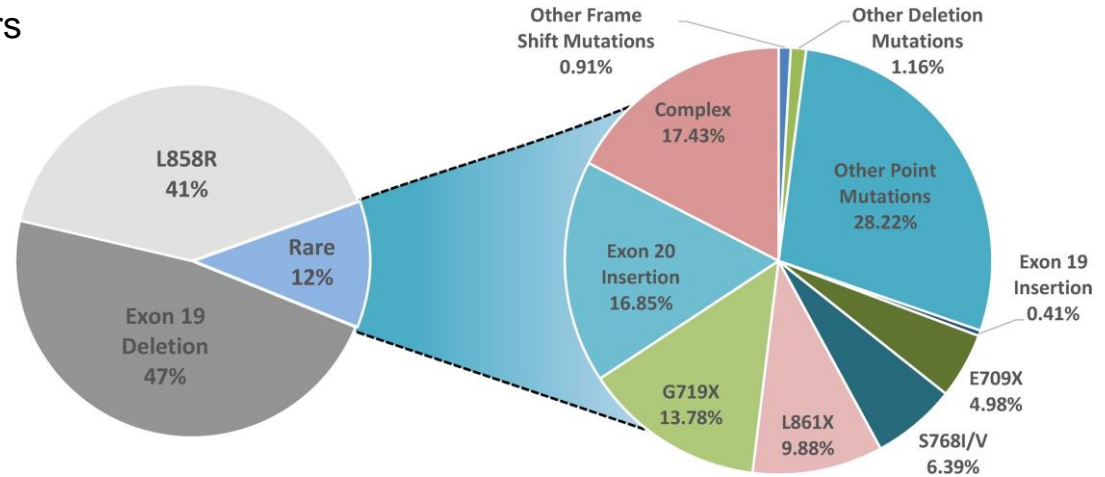
# History of EGFR drugs



# Exon 20 insertions

- ~16% of EGFR rare mutations and highly heterogeneous
- Ex20ins are the third most frequent EGFR mutation after the common mutations
- Poorer outcomes as compared with common EGFR mutations
- Usually associated with resistance to available EGFR TKIs, with few exceptions
- Controversial role of checkpoint inhibitors
- No 1L targeted therapy

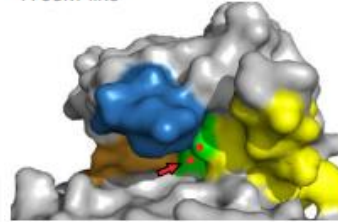
**1L chemo,  
regardless of PD-L1**



# Heterogeneity of exon 20 mutations

- T790M is a recurrent missense mutation within the tyrosine kinase domain of the EGFR gene. The mutation substitutes threonine with methionine at position 790 of exon 20 of EGFR

T790M-like



At least one mutation in hydrophobic core  
  
Increased affinity for ATP compared to classical-like mutations

**T790M-3S**  
Classical/T790M  
G719X/T790M  
L747\_K745del insATSPE  
S768I/T790M

**T790M-3S**  
3rd gen  
PKCi  
ALKi  
2nd gen  
1st gen

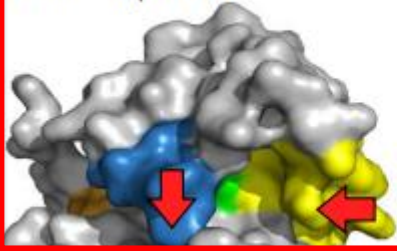
**T790M-3R**  
Ex19del/T790M/L792H  
L858R/T790M/L718X  
Classical/T790M/ C797S

**T790M-3R**  
PKCi  
ALKi  
3rd gen  
2nd gen  
1st gen

Two subgroups:  
T790M-like-3S  
T790M-like-3R



Exon 20 loop insertion



C-terminal loop of  $\alpha$ C-helix  
  
Indirect and substantial impact on drug binding (P-loop and  $\alpha$ C-helix)

**Ex20ins-NL**  
S768dupSVD  
A767dupASV  
D770insNPG  
D770del insGY

**Ex20ins-NL**  
Ex20ins-active  
2nd gen  
1st gen  
3rd gen

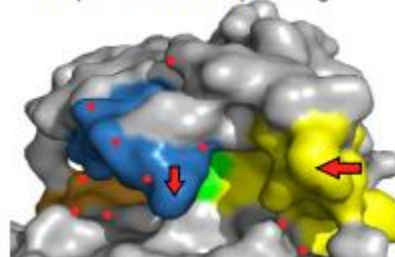
**Ex20ins-FL**  
H773insNPH  
H773dupH  
V774insAV  
V774insPR

**Ex20ins-FL**  
Ex20ins-active  
2nd gen  
1st gen  
3rd gen

Two subgroups:  
Ex20ins-near loop  
Ex20ins- far loop

- Mutations on the interior surface of the ATP-binding pocket or C-terminal end of the  $\alpha$ C-helix, which were predicted to be P-loop and  $\alpha$ C-helix compressing (PACC, es S768I point mutation).

P-loop  $\alpha$ C-helix compressing



Proximal to drug-binding pocket

Direct or indirect impact on drug binding via moderate displacement of P-loop and/or  $\alpha$ C-helix

**Primary**  
G719X  
S768I  
L747P/S  
V769L  
E709\_T710 delinsD

2nd gen  
1st gen  
Ex20ins-active

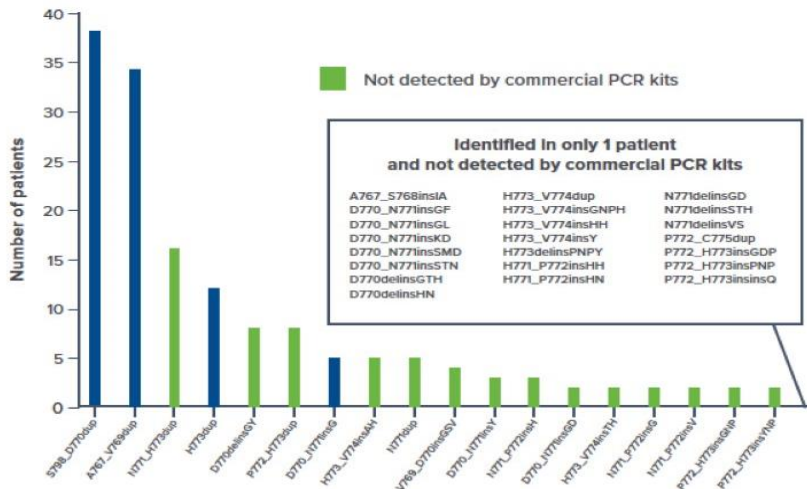
**Acquired**  
C797S  
L792H  
G724S  
L718X  
T854I

3rd gen

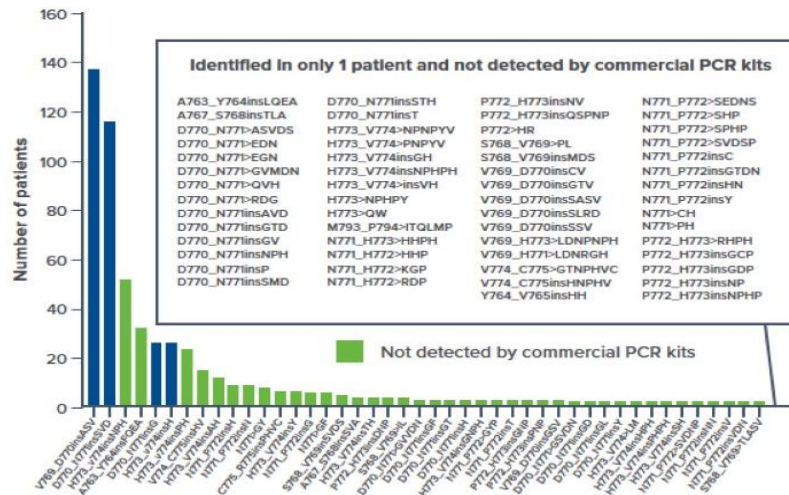
# EGFR ex20ins detection: NGS is the gold standard

PCR misses ~ 50% of EGFR exon 20 insertions identified via NGS

## Exon 20 Insertions Identified From GENIE

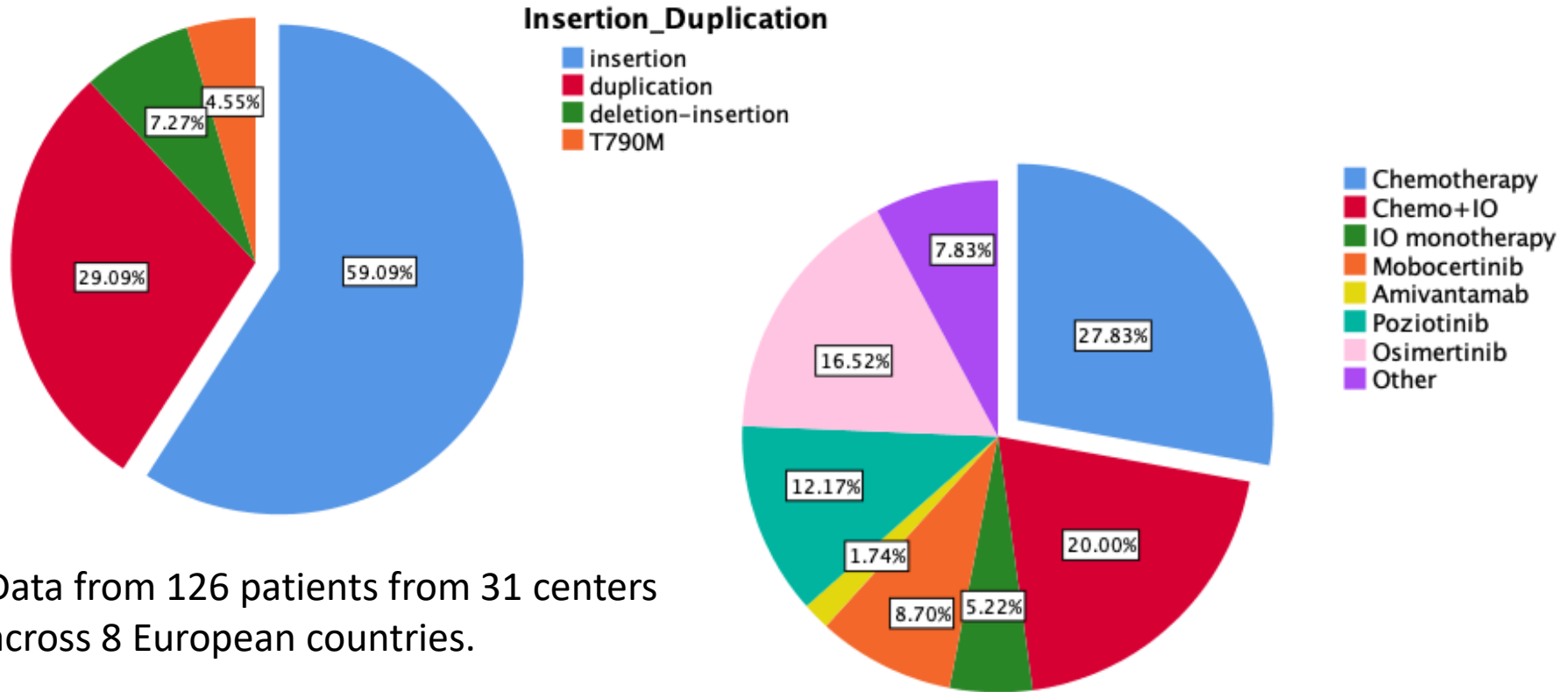


## Exon 20 Insertions Identified From FoundationInsights



Baumli J, et al. Abstract presented at: IASLC 2020; January 28-31, 2021; Virtual. Abstract FP07.

# Real-world management of EGFR exon 20+ NSCLC in the precision oncology era: report from the European EXOTIC registry

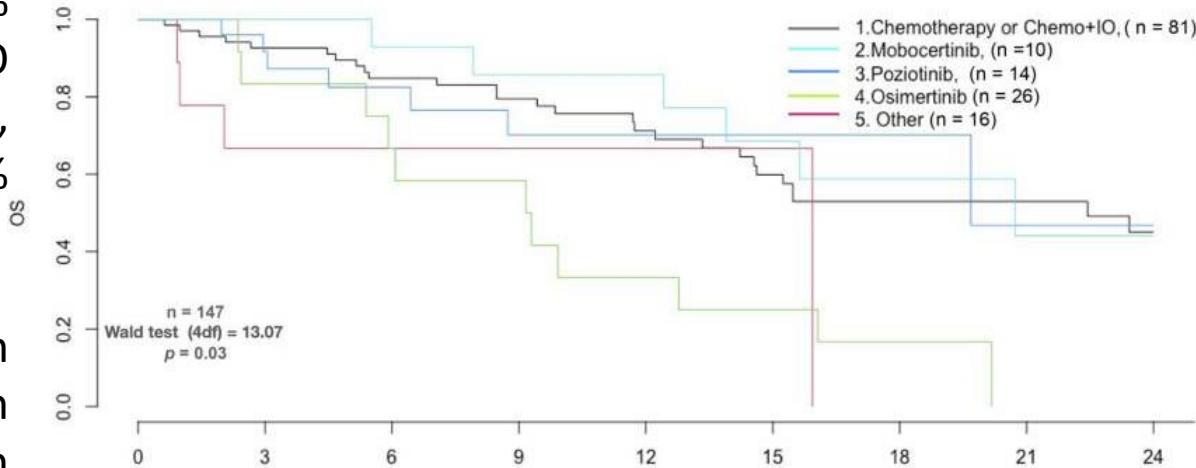


Data from 126 patients from 31 centers across 8 European countries.

# Real-world management of EGFR exon 20+ NSCLC in the precision oncology era: report from the European EXOTIC registry

Overall response rates were 39,3% with **CT+/- IO**, 16,7% with **IO** alone, 21,3% with **osimertinib**, 33,3% with **poziotinib** and 50% with **mobocertinib**.

Median survival (OS) was 19,7 m with **CT+/-IO**, 9,2 m with **osimertinib**, 15,9 m with **poziotinib** and 22,4 m with **mobocertinib**.



# Sensitivity of exon 20 insertions to EGFR TKIs

	Gefitinib			Erlotinib			Afatinib			Osimertinib		
	IV <sup>a</sup>	XM <sup>a</sup>	IH <sup>b</sup>	IV <sup>a</sup>	XM <sup>a</sup>	IH <sup>b</sup>	IV <sup>a</sup>	XM <sup>a</sup>	IH <sup>b</sup>	IV <sup>a</sup>	XM <sup>a</sup>	IH <sup>b</sup>
p.A763_Y764insFQEA	>0.1 <sup>32</sup>	>0.1 <sup>27</sup>	-	0.048 <sup>32</sup>	0.15 <sup>27</sup>	5.5 <sup>32</sup>	0.0037 <sup>32</sup>	0.005 <sup>27</sup>	-	0.044 <sup>32</sup>	0.005 <sup>27</sup>	-
p.V769_D770insASV	>0.1 <sup>32</sup>	>0.1 <sup>27</sup>	-	>0.1 <sup>32</sup>	>0.1 <sup>27</sup>	-	0.072 <sup>32</sup>	0.1 <sup>27</sup>	-	>0.1 <sup>32</sup>	0.1 <sup>27</sup>	-
p.D770_N771insSVD	-	>0.1 <sup>27</sup>	-	>0.1 <sup>32</sup>	>0.1 <sup>27</sup>	2.7 <sup>31</sup>	0.086 <sup>32</sup>	0.15 <sup>27</sup>	-	-	0.1 <sup>27</sup>	-

*In vitro*

Outcome <sup>1</sup>	Group 1 (n = 38)	Group 2 (n = 14)	Group 3 (n = 23)
Objective response, n (%)	27 (71.1)	2 (14.3)	2 (8.7)
Median DoR, mo	11.1	8.2	7.1
DCR, n (%)	32 (84.2)	9 (64.3)	15 (65.2)
Median PFS, mo	10.7	2.9	2.7
Median OS, mo	19.4	14.9	9.2

Post-hoc analysis of Lux-Lung 2-3-6 trials  
group 3: Exon 20 insertions (n=23)



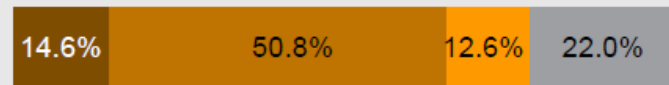
# UpSwinG: real-world, non-interventional cohort study on TKI activity in patients with EGFR mutation-positive NSCLC with uncommon mutations

	Any TKI (n=246)				1 <sup>st</sup> -gen EGFR TKIs (n=106)				Afatinib (n=132)			
	TTF, mos	OS, mos	ORR <sup>†</sup> , %	DoR <sup>†</sup> , mos	TTF, mos	OS, mos	ORR <sup>†</sup> , %	DoR <sup>†</sup> , mos	TTF, mos	OS, mos	ORR <sup>†</sup> , %	DoR <sup>†</sup> , mos
All patients	9.9	24.4	43.4	9.0	8.8	24.2	44.1	6.0	11.3	24.5	43.8	12.0
Major uncommon	11.3	25.7	49.1	10.0	9.8	28.5	47.3	6.5	14.3	24.5	50.6	12.0
Exon 20 insertion	5.5	22.5	17.4	19.3	5.2	21.0	16.7	33.0	8.3	22.5	18.8	5.5
T790M	2.8	32.7	20.0	6.0	2.1	14.2	0	-	5.7	-	33.3	6.0
Other	7.4	13.4	43.8	7.5	7.3	12.8	55.6	4.5	10.8	20.2	28.6	10.5
Compound	12.3	28.7	48.6	10.0	12.4	31.3	43.8	6.0	12.6	23.4	52.5	10.0

- In patients treated with 1<sup>st</sup>-line chemotherapy (n=20), median TTF, DoR and ORR was 6.6 months, 4.0 months and 41.2%, respectively

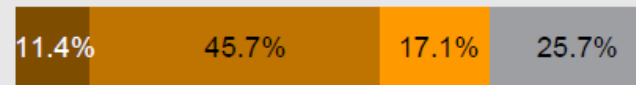
## ECOG PS at start of 1<sup>st</sup>-line treatment (n=246)

0 1 ≥2 Unknown



## ECOG PS at start of 2<sup>nd</sup>-line treatment (n=140)

0 1 ≥2 Unknown



\*Results from patients treated with osimertinib not shown due to small sample size; <sup>†</sup>Does not include patients with unknown best response. mos, months

# Available therapies for mNSCLC wth EGFR exon 20 insertions

EGFR EXON 20 INSERTION MUTATION<sup>mm</sup>

FIRST-LINE THERAPY<sup>ccc</sup>

EGFR exon 20 insertion mutation

Systemic therapy  
Adenocarcinoma  
([NSCL-K 1 of 5](#))  
or  
Squamous Cell Carcinoma  
([NSCL-K 2 of 5](#))

Tumor response evaluation

Progression

SUBSEQUENT THERAPY<sup>pp</sup>

Amivantamab-vmjw  
or  
Mobocertinib

Progression

If not received previously,<sup>ddd</sup>

• Amivantamab-vmjw  
or  
• Mobocertinib

or  
Systemic Therapy, Subsequent<sup>fff</sup>  
([NSCL-K 4 of 5](#))

Progression

Systemic Therapy, Subsequent<sup>fff</sup>  
([NSCL-K 4 of 5](#))

Progression

Progression

Amivantamab-vmjw  
or  
Mobocertinib

Response or stable disease

4-6 cycles (total)<sup>eee</sup>

Tumor response evaluation

Response or stable disease

Maintenance therapy  
([NSCL-K 3 of 5](#))

Progression

# Role of immunotherapy

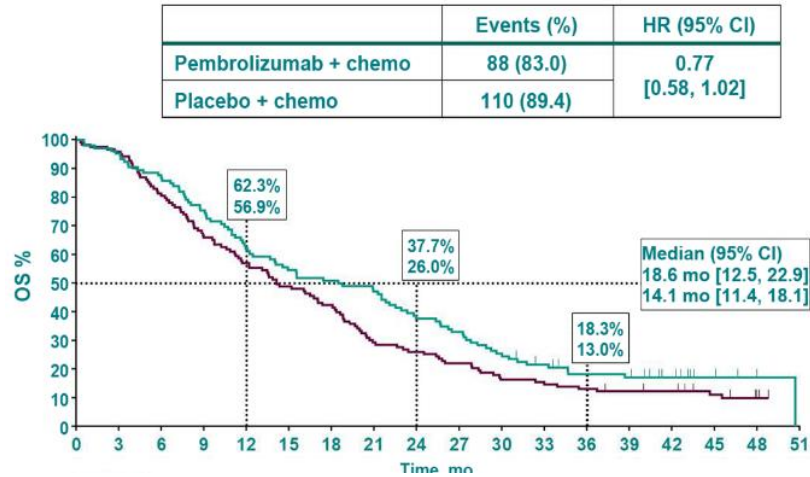


- Data about the efficacy of ICIs as monotherapy in *EGFR* ex20ins are scarce. In small series, a RR of about 15%, a mPFS of 2 to 4 months, and mOS up to 8 months.
- Despite limited data, an ICI strategy is not uncommon in *EGFR* ex20ins tumors, as 30% to 60% of patients enrolled in mobocertinib, amivantamab, and CLN-081 trials had been previously treated with an ICI.
- Chemotherapy plus an ICI is the preferred 1st treatment option for most patients with NSCLC: data on the subgroup of *EGFR* ex20ins do not exist, as these patients were excluded from most first-line chemotherapy-ICI phase III trials.

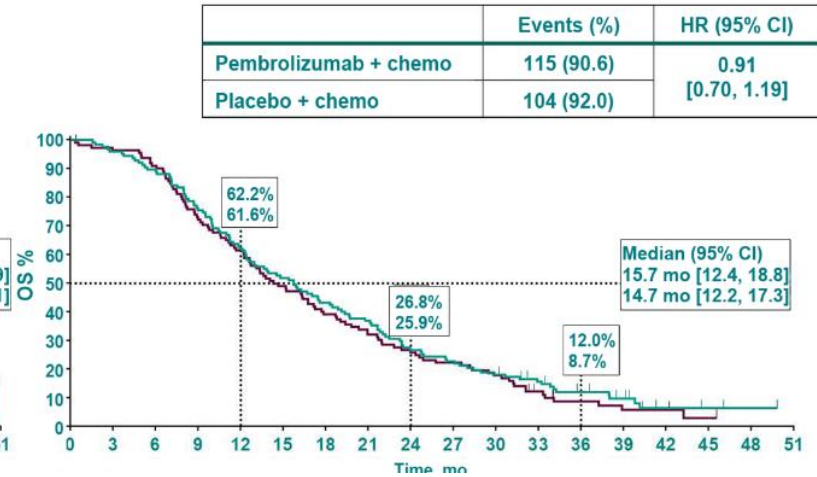
# Role of immunotherapy

**KEYNOTE-789** failed to show a significant improvement in PFS or OS with the addition of pembrolizumab to chemotherapy in patients with TKI-resistant EGFR-mutated metastatic nonsquamous NSCLC.

PD-L1 TPS  $\geq 1\%$

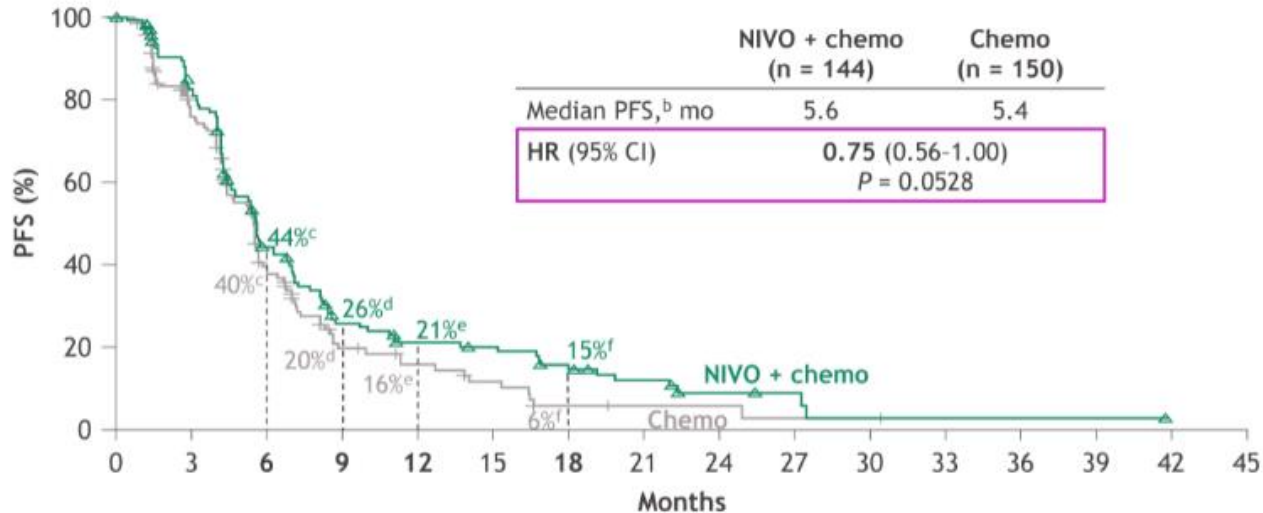


PD-L1 TPS  $\leq 1\%$



# Role of immunotherapy

**Checkmate-722** failed to meet its primary endpoint in patients with cancer progressing on one or two prior lines of EGFR tyrosine-kinase inhibitors



# Combination strategies to enhance ICIs efficacy in EGFR mutated NSCLC

Trial	Treatment	PFS	OS
ORIENT-31 <sup>9</sup>	Cisplatin-Pemetrexed +/- Sintilimab (anti- PD-1)	0.72 (0.55-0.94)	0.97 (0.71-1.32)**
ORIENT-31 <sup>9</sup>	Cisplatin-Pemetrexed+ Sintilimab + IBI305 (bevacizumab biosimilar) vs. chemo alone	0.51 (0.39-0.67)	0.98 (0.72-1.34)**
Impower 150 (EGFR- prior TKI)	carbo-paclitaxel-atezolizumab-bevacizumab (ACBP vs. CBP)	0.42 (0.22-0.80)	0.74 (0.38-1.46)

No clear OS benefit with IO + antiangiogenesis

\*Not statistically significant per statistical plan, \*\* adjusted for crossover  
# T790M+ allowed w/o prior osimertinib

Potential risk of ILD-related AEs when combining osimertinib with durvalumab.

EGFR-TKI	PD-(L)1	Efficacy	Toxicity
Erlotinib	Nivolumab	ORR=15% (3/20 w/prior TKI)	24% G3 trAEs (10% diarrhea, 10%transaminitis) <sup>1</sup>
Osimertinib	Durvalumab	ORR=43% prior TKI	35% pneumonitis (TKI naïve) <sup>2</sup> ; 26% (prior TKI) <sup>3</sup>
Afatinib	Pembrolizumab	ORR 2/11 (18%) prior EGFR TKI	36% irAEs (nephritis, adrenal insuff, colitis) <sup>4</sup>
Gefitinib	Durvalumab	ORR 64% - treatment naive	35% transaminitis <sup>5</sup>

# Poziotinib

- The **first oral TKI evaluated** for EGFR ex20 NSCLC
- **ZENITH20 trial Cohort 1 (after platinum-based chemotherapy)**

Best Overall Response	Intent to treat (N=115) N (%)
<b>Objective Response Rate (ORR)</b> by independent review committee (IRC) 95% Confidence Interval	<b>17 (14.8%)</b> (8.9 - 22.6%)
<b>Disease Control Rate (DCR=CR+PR+SD)</b>	<b>79 (68.7%)</b> (59.4 - 77.0%)
<b>Duration of Response, Median (months)</b>	<b>7.4</b> (3.7, 9.7)
<b>Progression-free Survival, Median (months)</b>	<b>4.2</b> (3.7, 6.6)

**Not approved by FDA and EMA**

AE (preferred term)	N = 90		
	Any Grade	Grade 3	Grade 4
Patients with at least one event, No. (%)	88 (97.8)	71 (78.9)	4 (4.4)
Rash (multiple terms) <sup>a</sup>	82 (91.1)	44 (48.9)	0
Diarrhea	74 (82.2)	23 (25.6)	0
Stomatitis (multiple terms) <sup>b</sup>	62 (68.9)	21 (23.3)	1 (1.1)
Paronychia	34 (37.8)	1 (1.1)	0
Dry skin	28 (31.1)	5 (5.6)	0
Vomiting	21 (23.3)	0	0
Fatigue	20 (22.2)	2 (2.2)	0
Anemia	13 (14.4)	3 (3.3)	0
Weight decreased	13 (14.4)	1 (1.1)	0
Epistaxis	11 (12.2)	0	0
Hypomagnesemia	10 (11.1)	1 (1.1)	1 (1.1)
Asthenia	9 (10.0)	3 (3.3)	0
Hypokalemia	9 (10.0)	3 (3.3)	0
Dry mouth	9 (10.0)	0	0
Dyspnea	3 (3.3)	0	1 (1.1)
Hypocalcemia	3 (3.3)	1 (1.1)	1 (1.1)
Pancreatitis relapsing	1 (1.1)	0	1 (1.1)

# Mobocertinib

## EXCLAIM trial (after platinum-based chemotherapy)

	Mobocertinib N = 114	Pozitotinib N = 115
ORR (%)	28%	15%
mDOR (months)	17.5	7.4
mPFS (months)	7.3	4.2
mOS (months)	24.0	---
Grade $\geq$ 3 AE	47%	---

FDA approval in 2021 for exon 20 ins after platinum-based chemotherapy

02 Oct 2023 – EXCLAIM-2 trial (mobocertinib vs CT) failed to meet its primary endpoint (PFS). Takeda will be working with FDA towards a voluntary withdrawal in the U.S. for adult patients with EGFR Exon20 insertion positive

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Stomatitis



# Amivantamab

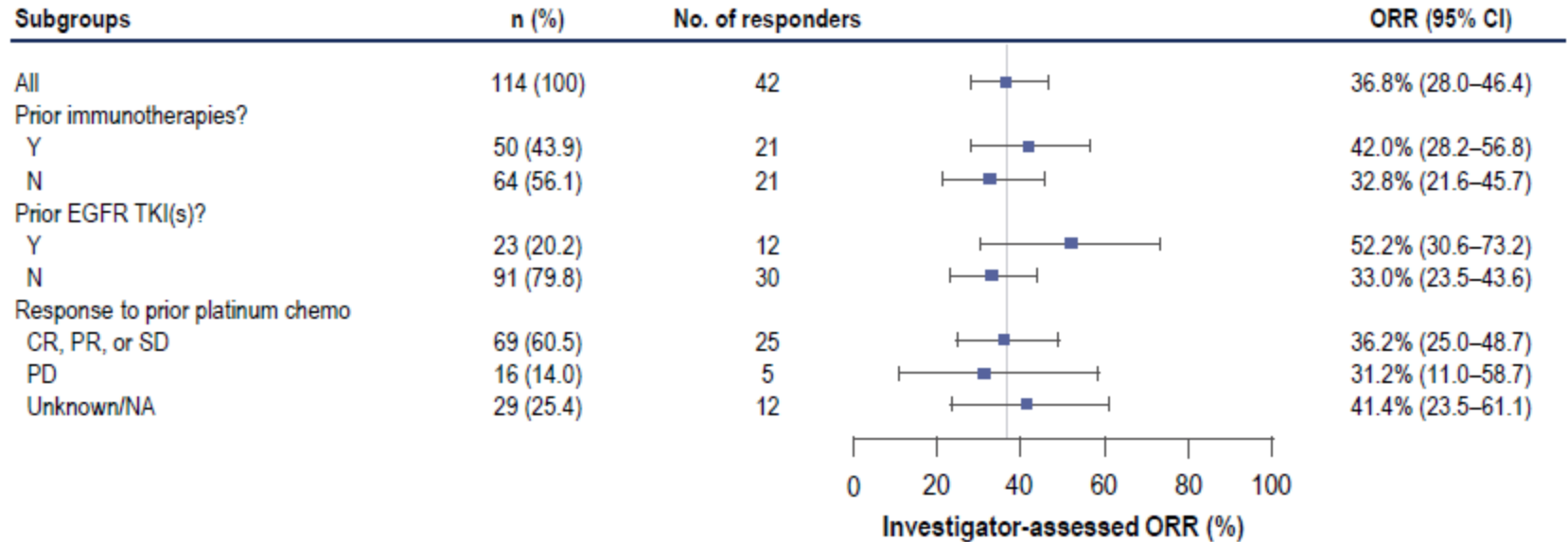
## EGFR and MET bispecific antibody

### Chrysalys trial (after platinum-based chemotherapy)

	Amivantamab n = 81	Mobocertinib N = 114	Pozitotinib N = 115
ORR (%)	40%	28%	15%
mDOR (months)	11.1	17.5	7.4
mPFS (months)	8.3	7.3	4.2
mOS (months)	22.8	24.0	---
Grade $\geq$ 3 AE	35%	47%	---

**AIFA approved (28/02/23) for  
exon 20 ins after platinum-  
based chemotherapy**

# Subgroup analysis for ORR

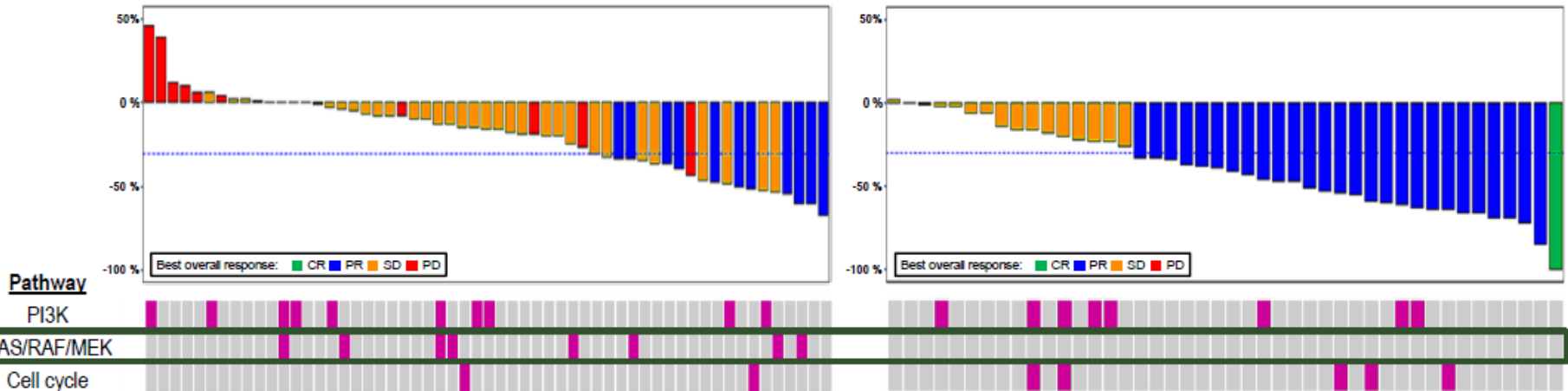


No differences for sex, age, race, basal PS ECOG, n° of prior lines, smoking history, baseline brain metastases

# Sustained clinical benefit in absence of baseline RAS/RAF/MEK alterations

<12 cycles

≥12 cycles



Sustained clinical benefit was associated with: good performance status, having at least a partial response to amivantamab therapy, not having baseline RAS/RAF/MEK alterations

# Amivantamab safety

AE (≥15% of Treatment-emergent AEs), n (%)	Safety Population (N=114)			
	Treatment-emergent AE		Treatment-related AE	
	Total	Grade ≥3	Total	Grade ≥3
<b>EGFR-related</b>				
Rash <sup>b</sup>	98 (86)	4 (4)	98 (86)	4 (4)
Paronychia	51 (45)	1 (1)	48 (42)	1 (1)
Stomatitis	24 (21)	0	21 (18)	0
Pruritus	19 (17)	0	19 (17)	0
<b>MET-related</b>				
Hypoalbuminemia	31 (27)	3 (3)	17 (15)	2 (2)
Peripheral edema	21 (18)	0	11 (10)	0
<b>Other</b>				
Infusion related reaction	75 (66)	3 (3)	75 (66)	3 (3)
Constipation	27 (24)	0	7 (6)	0
Nausea	22 (19)	0	13 (11)	0
Dyspnea	22 (19)	2 (2)	6 (5)	0
Fatigue	21 (18)	2 (2)	14 (12)	1 (1)
Increased ALT	17 (15)	1 (1)	14 (12)	1 (1)

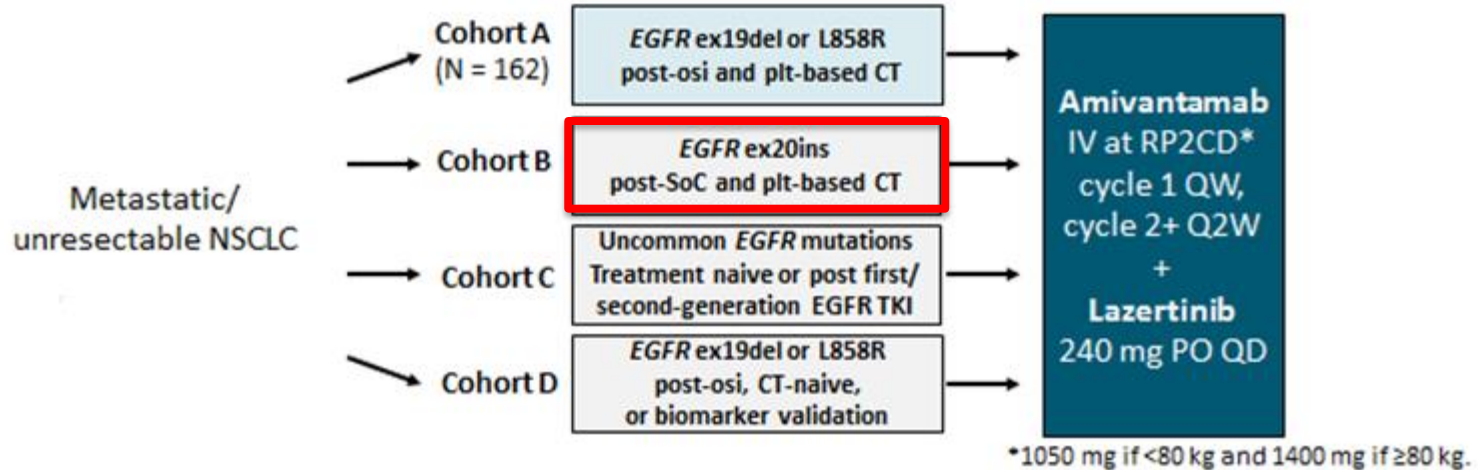
# CLN-081

## Novel oral TKI phase I/IIa study

	Amivantamab n = 81	Mobocertinib N = 114	Pozitotinib N = 115	CLN-081 N = 39
<b>ORR (%)</b>	<b>40%</b>	<b>28%</b>	<b>15%</b>	<b>41%</b>
<b>mDOR (months)</b>	11.1	17.5	7.4	>21
<b>mPFS (months)</b>	8.3	7.3	4.2	12.0
<b>mOS (months)</b>	22.8	24.0	---	---
<b>Grade <math>\geq</math> 3 AE</b>	35%	47%	---	5%

**FDA break-through  
therapy designation**

# CHRYSALIS-2



▪ **Primary endpoint:** ORR

▪ **Key secondary endpoints:** DoR, CBR, PFS, OS, safety

Results for cohort B are still not available

# WU-KONG6

Sunvozertinib was designed as an oral, potent, irreversible, and selective EGFR tyrosine kinase inhibitor, showing activity against EGFR exon20ins and other mutations.

## Key inclusion criteria:

- Locally advanced or metastatic NSCLC
- Confirmed EGFR exon20ins in tumor tissues
- Received 1 – 3 lines of prior systemic therapies
- Disease progressed on or after platinum-based chemotherapy

DZD9008

300 mg, QD

## Primary endpoint:

- IRC assessed<sup>†</sup> ORR

## Secondary end point:

- IRC assessed<sup>†</sup> DoR
- ORR (investigator assessed), PFS, DCR, tumor size changes
- OS
- Safety and tolerability
- Pharmacokinetics

**Conducted in China**

# WU-KONG6 patients' characteristics

Demographics and Baseline Characteristics	N = 97	Patient Treatment History	N = 97
Median age, years (range)	58 (29, 79)	Median prior anti-cancer therapy, n (range)	2 (1, 3)
Male/Female, n (%)	39 (40.2)/58 (59.8)	Prior anti-cancer therapy type, n (%)	
History of smoking, Yes(%) / No(%)	32 (33) / 65 (67)	Chemotherapy	97 (100)
Baseline brain metastasis, n (%)	31 (32.0)	Platinum-based chemotherapy	97 (100)
Mutation subtypes, n (%)		EGFR TKI	26 (26.8)
769_ASV	38 (39.2)	PD-1/PD-L1	34 (35.1)
770_SVD	17 (17.5)	Anti-VEGF	58 (59.8)
Others	42 (43.3)	Others	16 (16.5)

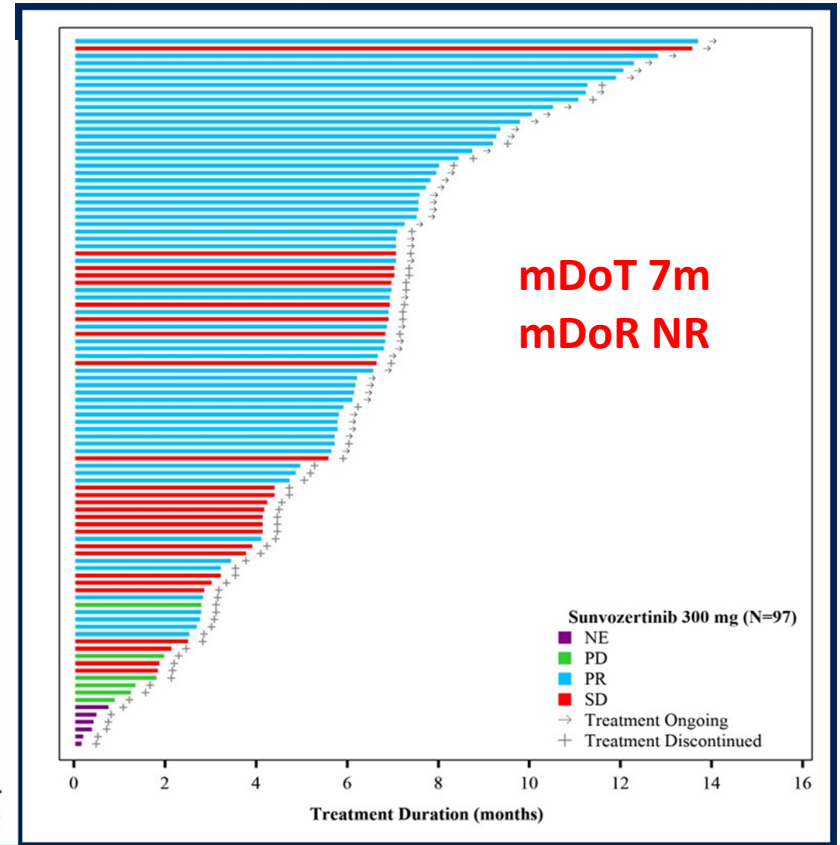
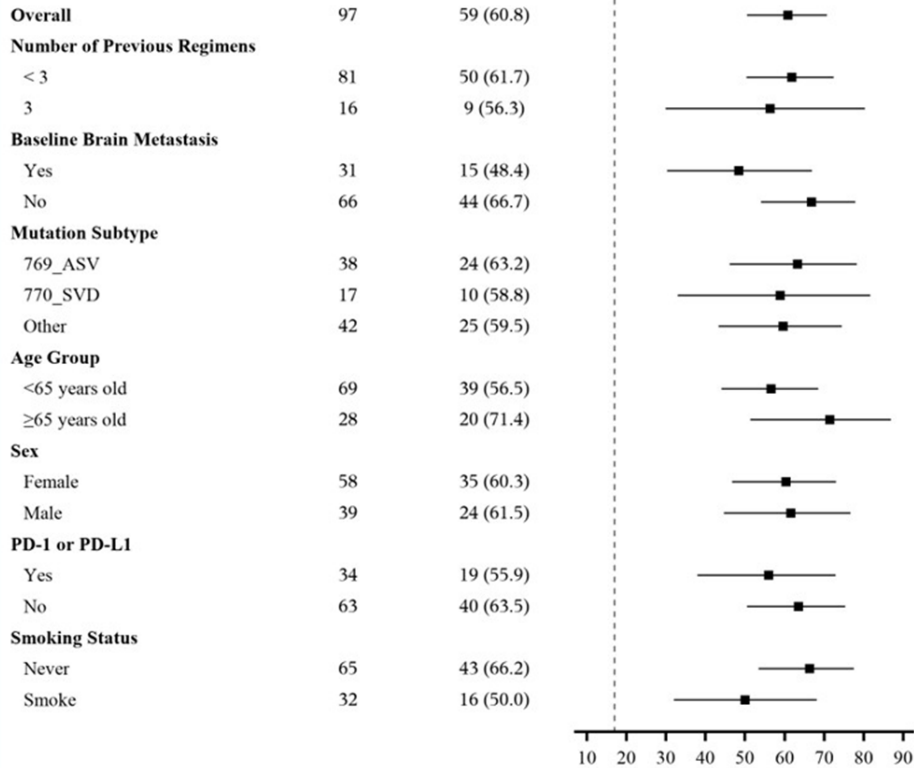


# WU-KONG6 efficacy outcomes

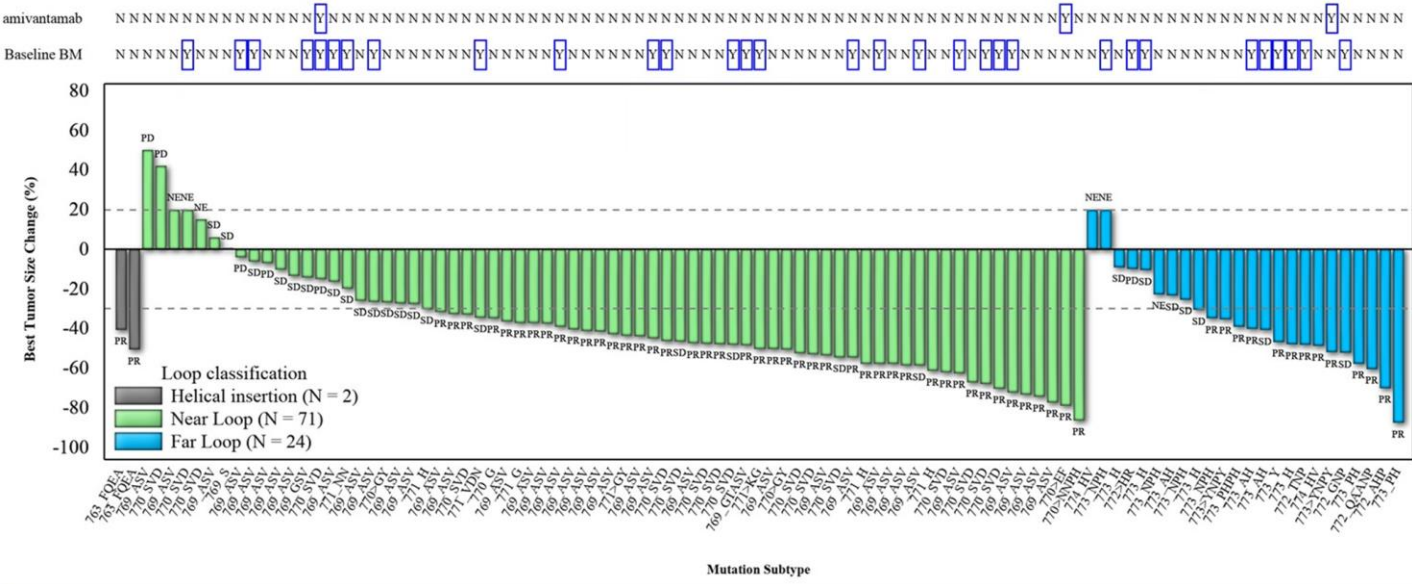
Anti-tumor Efficacy	N = 97
<b>Tumor Response, n (%)</b>	
Partial response (confirmed)	59 (60.8)
Stable disease	26 (26.8)
Progression disease	6 (6.2)
Not evaluable	6 (6.2)
<b>Objective Response Rate (ORR), n (%)</b>	59 (60.8)
(95% CI)	(50.4, 70.6)
<i>P</i> value	< 0.0001
<b>Disease Control Rate (DCR), n (%)</b>	85 (87.6)
(95% CI)	(79.4%, 93.4%)

	CLN-081 (n=39)	Amivantamab (n=81)	Sunvozertinib (n=94)
ORR %	41%	40%	60.8%
mDoR	>21 m	11.1 m	NR
mPFS	12.0 m	8.3 m	---
mOS	---	22.8 m	---
Grade≥3 AE	5%	35%	---

# WU-KONG6 subgroup analysis



# Efficacy in different exon20ins subtypes



**C-helical (n=2)**  
 ORR=100%  
 DCR=100%

**Near loop (n=71)**  
 ORR=62.0%  
 DCR=88.7%

**Far loop (n=24)**  
 ORR=54.2%  
 DCR=83.3%

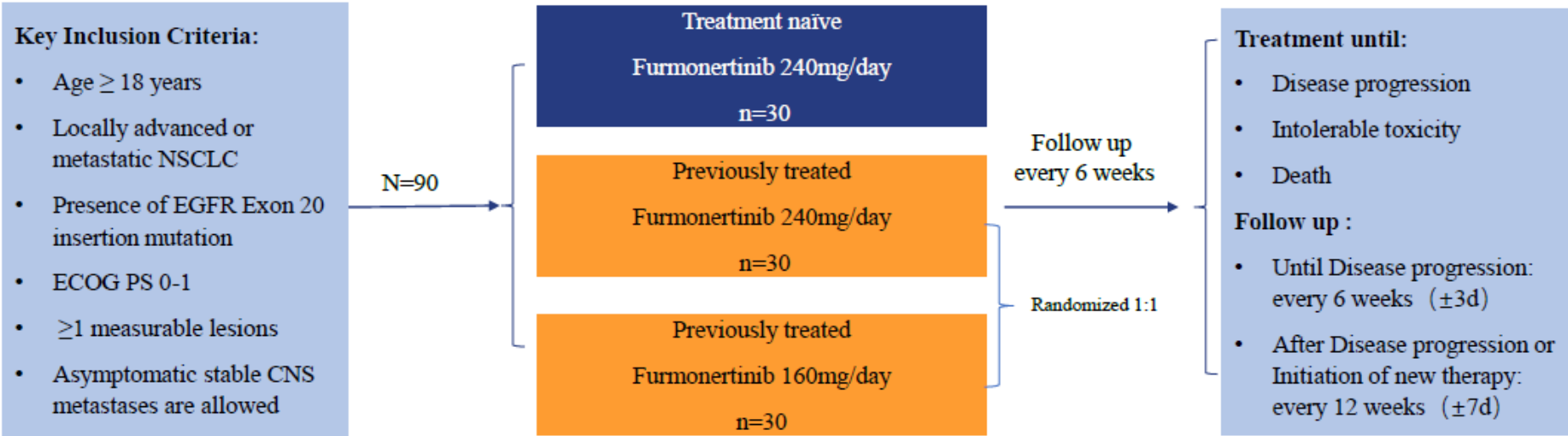
A total of 30 different subtypes of exon20ins were enrolled

# Safety profile

Common TEAE by PT	N = 104 All Grade	N = 104 ≥ Grade 3
Diarrhea	70 (67.3)	8 (7.7)
Blood CPK increase	60 (57.7)	18 (17.3)
Rash	56 (53.8)	1 (1.0)
Anemia	51 (49.0)	6 (5.8)
Blood creatinine increase	39 (37.5)	0 (0.0)
Paronychia	34 (32.7)	2 (1.9)
Body weight decrease	30 (28.8)	1 (1.0)
White blood cell decrease	27 (26.0)	0 (0.0)
Lipase increase	27 (26.0)	2 (1.9)
Vomiting	25 (24.0)	1 (1.0)
Decreased appetite	25 (24.0)	2 (1.9)
Mouth ulceration	24 (23.1)	0 (0.0)

# FAVOUR

Furmonertinib is a third-generation EGFR TKI, **approved since March 2021 in China** at a dose/schedule of 80 mg daily for patients with **EGFR T790M mutant NSCLC**.



## Endpoints

➤ **Primary:** ORR by IRC assessment; **Secondary:** DCR, DoR, PFS, OS, Depth of response, safety, quality of life

**Conducted in China**

# FAVOUR patients' characteristics

	Treatment Naïve 240 mg N=30	Previously Treated 240 mg N=28	Previously Treated 160 mg N=28
Age, median (min, max) (years)	61.5 (33, 73)	55.5 (33, 73)	58.5 (22, 77)
Male/Female, %	37% / 63%	43% / 57%	39% / 61%
ECOG 0/1, %	30% / 70%	7% / 93%	11% / 89%
Disease Stage IIIB/IV, %	7% / 93%	0 / 100%	4% / 96%
Brain Metastases*, %	17%	29%	39%
Non-smoker/Smoker/Former smoker, %	77% / 3% / 20%	82% / 0 / 18%	75% / 4% / 21%
Number of Prior Systemic Anti-cancer Therapy, median, (min, max)	NA	1 (1, 4)	1 (1, 3)
Prior Treatment Type, %			
Chemotherapy / Immunotherapy	13% / 0	96% / 39%	86% / 32%
EGFR Targeted Therapy&	0	7%	14%

# FAVOUR efficacy outcomes

Efficacy by IRC	Treatment Naïve 240mg N=28*	Previously Treated 240mg N= 26 <sup>#</sup>	Previously Treated 160mg N= 26 <sup>#</sup>
Confirmed ORR, % (95% CI)	78.6% (59.05%, 91.70%)	46.2% (26.59%, 66.63%)	38.5% (20.23%, 59.43%)
Best Response, n (%)			
Partial response (PR)	22 (78.6%)	12 (46.2%)	10 (38.5%)
Stable disease (SD)	6 (21.4%)	12 (46.2%)	12 (46.2%)
Progressive disease (PD)	0	0	4 (15.4%)
Not evaluable/Not done	0 / 0	1 (3.8%) / 1 (3.8%)	0 / 0
DoR, median (months) (95% CI)	15.2 (8.74, 24.84)	13.1 (5.62, 13.80)	9.7 (5.59, NA)
DCR (CR+PR+SD), % (95% CI)	100.0% (87.66%, 100.00%)	92.3% (74.87%, 99.05%)	84.6% (65.13%, 95.64%)

- As first-line treatment, the cORR was 78,6% with a mDOR of 15.2 m
- In previously treated patients, cORR was 46,2% for 240 mg dose and 38,5% for 160 mg dose
- **Anti-tumor responses were observed across near-loop, far-loop and helical Exon 20ins mutations**

# Furmonertinib efficacy outcomes

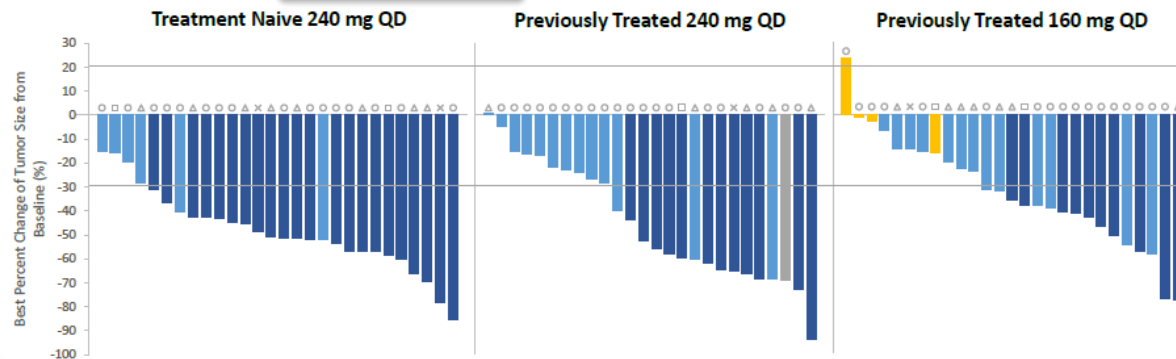
	CLN-081 (n=39)	Amivantamab (n=81)	Sunvozertinib (n=94)	Furmonertinib (n=28)
ORR %	41%	40%	60.8%	46.2%
mDoR	>21 m	11.1 m	NR	13.1 m
mPFS	12.0 m	8.3 m	---	---
mOS	---	22.8 m	---	---
Grade≥3 AE	5%	35%	---	29%

## Confirmed Best Overall Response

- Partial Response
- Stable Disease
- Progressive Disease
- Not Evaluable

## EGFR Exon 20 Insertion Subtype

- ✖ Helical Mutations
- Near Loop Mutations
- △ Far Loop Mutations
- Exon20Ins Type Unknown





# FAVOUR safety

Preferred Term, Number of Patient(s) (%)	Treatment-naive 240 mg (N = 30)		Previously Treated 240 mg (N = 28)		Previously Treated 160 mg (N = 28)	
	Total	Grade≥3	Total	Grade≥3	Total	Grade≥3
Diarrhea	22 ( 73%)	0	24 ( 86%)	0	9 ( 32%)	2 (7%)
Anemia	13 ( 43%)	0	7 ( 25%)	1 (4%)	4 ( 14%)	1 (4%)
Aspartate aminotransferase increased	8 ( 27%)	0	7 ( 25%)	0	10 ( 36%)	0
Alanine aminotransferase increased	7 ( 23%)	0	7 ( 25%)	1 (4%)	8 ( 29%)	0
Blood creatinine increased	6 ( 20%)	0	8 ( 29%)	0	7 ( 25%)	0
Mouth ulceration	9 ( 30%)	1 (3%)	4 ( 14%)	0	5 ( 18%)	0
Rash	7 ( 23%)	0	6 ( 21%)	0	4 ( 14%)	0
Electrocardiogram QT prolonged	8 ( 27%)	1 (3%)	4 ( 14%)	2 (7%)	2 ( 7%)	0
White blood cell count decreased	6 ( 20%)	1 (3%)	5 ( 18%)	0	6 ( 21%)	0
Decreased appetite	3 ( 10%)	0	8 ( 29%)	0	0	0
Weight decreased	3 ( 10%)	0	7 ( 25%)	1 (4%)	3 ( 11%)	0
Skin fissures	6 ( 20%)	0	3 ( 11%)	0	0	0
Paronychia	6 ( 20%)	0	2 ( 7%)	0	1 ( 4%)	0

# What's next

Drug	Trial	Phase	Setting
<b>Amivantamab + CT vs CT</b>	PAPILLON	3	1st line
<b>Mobocertinib vs CT</b>	EXCLAIM-2	3	1st line
<b>Furmonertinib vs CT</b>	FURVENT	3	1st line
<b>Zipalertinib + CT vs CT</b>	REZILIENT3	3	1st line
<b>Sunvozertinib vs CT</b>	WU-KONG28	3	1st line

