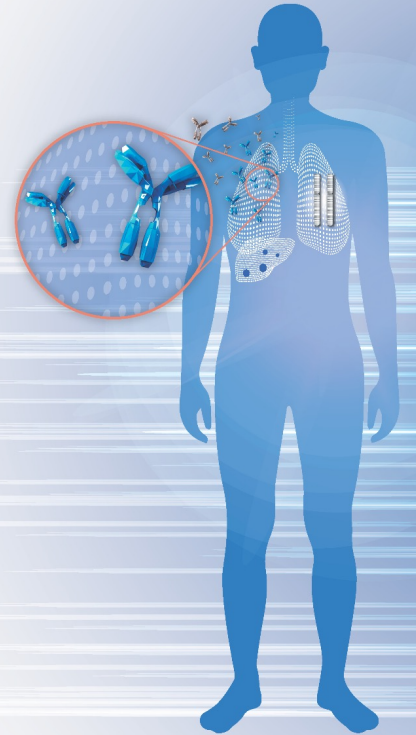


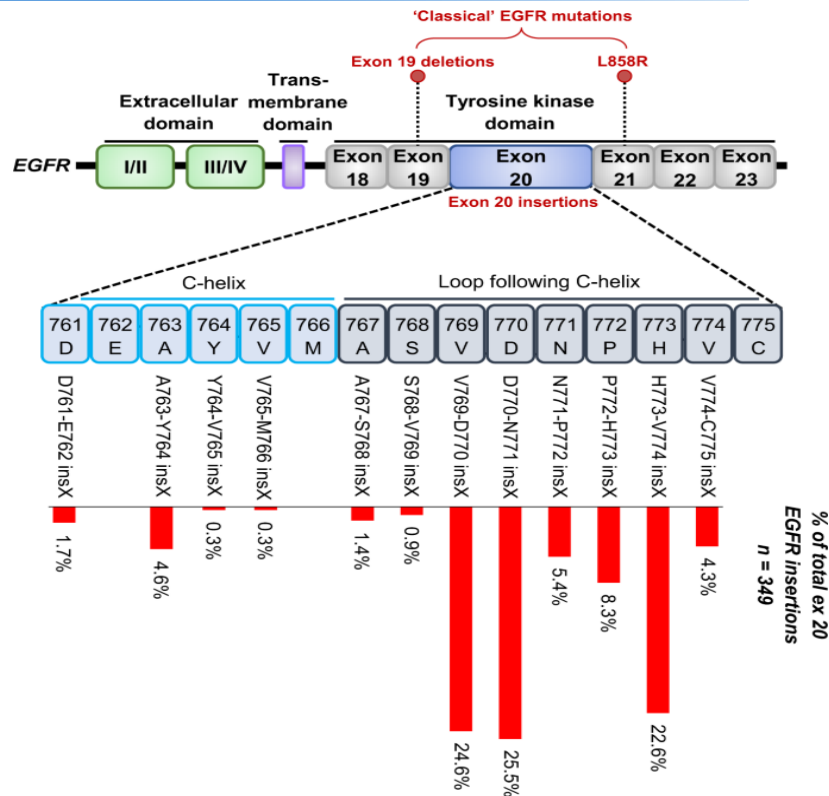
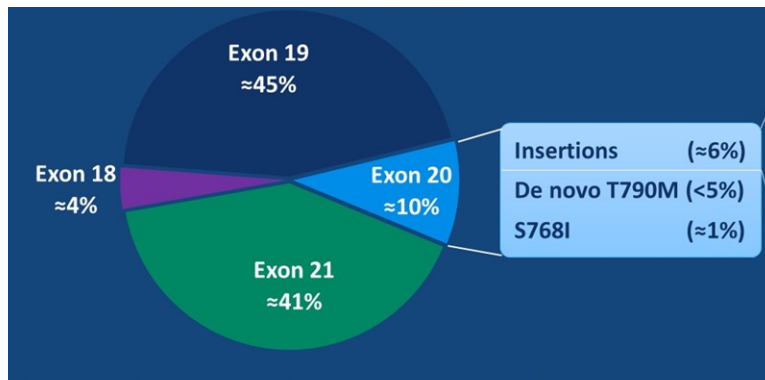
# EGFRex20ins, METex14 and RET in NSCLC

**Mark A. Socinski, MD**  
Executive Medical Director  
AdventHealth Cancer Institute  
Orlando, FL

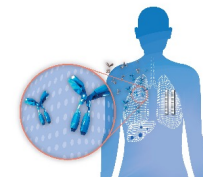


# EGFR Oncogenic Driver Mutations

- ~6% of EGFRm NSCLC are *EGFR*ex20ins+
- EGFR TKIs used for common activating mutations are largely ineffective in EGFR ex 20 ins (poor response, mPFS 2 mo)



# EGFR Exon 20 Insertions



## 2L: Two FDA-approved options

**Amivantamab: EGFR/MET bispecific antibody infusion**  
(CHRYSALIS Study)

ORR 40%; PFS 8.3 months

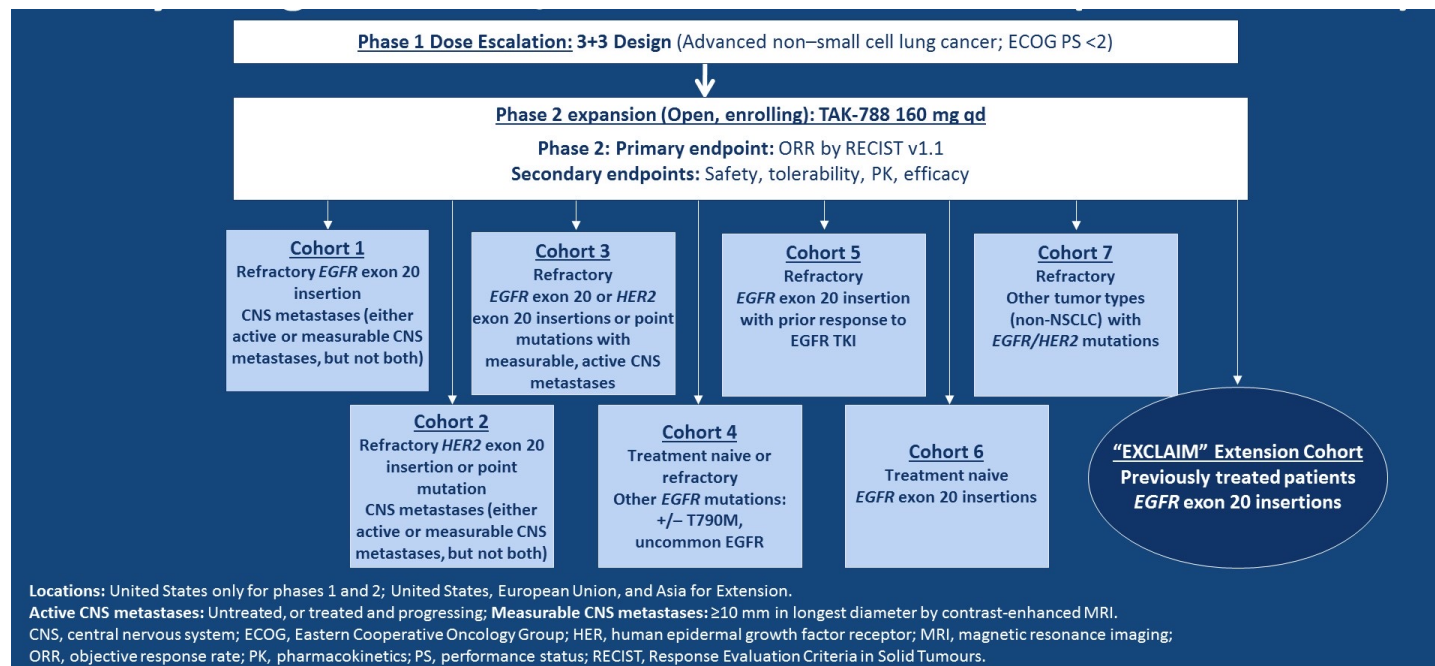
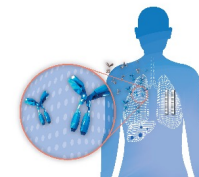
Most significant AE: infusion reactions on first doses

**Mobocertinib: oral EGFR TKI**  
(EXCLAIM/PPP Cohorts)

ORR 25-28%; PFS 7.3 months

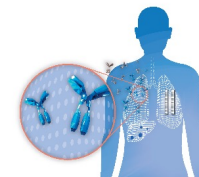
Most significant AE: Diarrhea

# Phase 1/2 Study of Mobocertinib in Platinum-Pretreated EGFR Exon 20 Insertion-Positive mNSCLC (*EGFR*ex20ins+)



Cohort of platinum-pretreated patients (PPP): 114 pts with platinum-pretreated *EGFR* ex20 ins-positive mNSCLC who received mobocertinib 160 mg from dose-escalation (n = 6), dose-expansion (n = 22), and EXCLAIM (n = 86) cohorts. EXCLAIM cohort included 96 patients with previously treated *EGFR* ex20 ins-positive mNSCLC (10 were not platinum pretreated and thus were excluded from the PPP cohort).

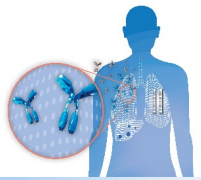
# ORR in PPP and EXCLAIM cohorts



| Outcome   | No. (%)              |                         |
|---|----------------------|-------------------------|
|   | PPP cohort (n = 114) | EXCLAIM cohort (n = 96) |
| <b>Investigator-assessed confirmed objective response<sup>b</sup></b> |                      |                         |
| Patients, No. (%) [95% CI]  | 40 (35) [26-45]      | 31 (32) [23-43]         |
| Complete response   | 1 (<1)               | 1 (1)                   |
| Partial response  | 39 (34)              | 30 (31)                 |
| Stable disease <sup>c</sup>   | 49 (43)              | 41 (43)                 |
| Not evaluable   | 11 (10)              | 9 (9)                   |
| Confirmed disease control rate, No. (%) [95% CI] <sup>d</sup>         | 89 (78) [69-85]      | 72 (75) [65-83]         |
| <b>Duration of response in confirmed responders<sup>e</sup></b>       |                      |                         |
| IRC-assessed  |                      |                         |
| No.   | 32                   | 24                      |
| Median (95% CI), mo   | 17.5 (7.4-20.3)      | NR (5.6-NR)             |
| Investigator-assessed   |                      |                         |
| No.   | 40                   | 31                      |
| Median (95% CI), mo   | 11.2 (5.6-NR)        | 11.2 (7.0-NR)           |
| <b>Progression-free survival, median (95% CI), mo<sup>e</sup></b>     |                      |                         |
| No.   | 114                  | 96                      |
| IRC-assessed  | 7.3 (5.5-9.2)        | 7.3 (5.5-9.1)           |
| Investigator-assessed   | 7.3 (5.6-8.8)        | 7.3 (5.6-9.1)           |
| <b>Overall survival, median (95% CI), mo</b>                          |                      |                         |
| No.   | 114                  | 96                      |
| Median (95% CI), mo   | 24.0 (14.6-28.8)     | NR (13.1-NR)            |



# Any-grade TRAEs in the PPP and EXCLAIM cohorts



| Adverse event   | Patients, No (%)     |          |                         |          |
|---|----------------------|----------|-------------------------|----------|
|   | PPP cohort (n = 114) |          | EXCLAIM cohort (n = 96) |          |
|   | Any grade            | Grade ≥3 | Any grade               | Grade ≥3 |
| Treatment-related AEs of any grade reported in ≥20% of patients |                      |          |                         |          |
| Diarrhea  | 104 (91)             | 24 (21)  | 89 (93)                 | 15 (16)  |
| Rash  | 51 (45)              | 0        | 43 (45)                 | 0        |
| Paronychia  | 43 (38)              | 1 (<1)   | 37 (39)                 | 1 (1)    |
| Decreased appetite  | 40 (35)              | 1 (<1)   | 31 (32)                 | 1 (1)    |
| Nausea  | 39 (34)              | 5 (4)    | 29 (30)                 | 3 (3)    |
| Dry skin  | 35 (31)              | 0        | 30 (31)                 | 0        |
| Vomiting  | 34 (30)              | 3 (3)    | 25 (26)                 | 1 (1)    |
| Blood creatinine increased                                      | 29 (25)              | 2 (2)    | 27 (28)                 | 2 (2)    |
| Stomatitis  | 27 (24)              | 5 (4)    | 26 (27)                 | 3 (3)    |
| Pruritus  | 24 (21)              | 1 (<1)   | 19 (20)                 | 1 (1)    |
| Amylase increased   | 21 (18)              | 3 (3)    | 19 (20)                 | 1 (1)    |
| Dermatitis, acneiform   | 21 (18)              | 0        | 20 (21)                 | 1 (1)    |

**Special interest: QTc prolongation 11%, Cardiomyopathy 2.7%, ILD/pneumonitis 4.3%**

# CHRYSALIS: Amivantamab in Advanced NSCLC With EGFR Exon 20 Insertion Mutations

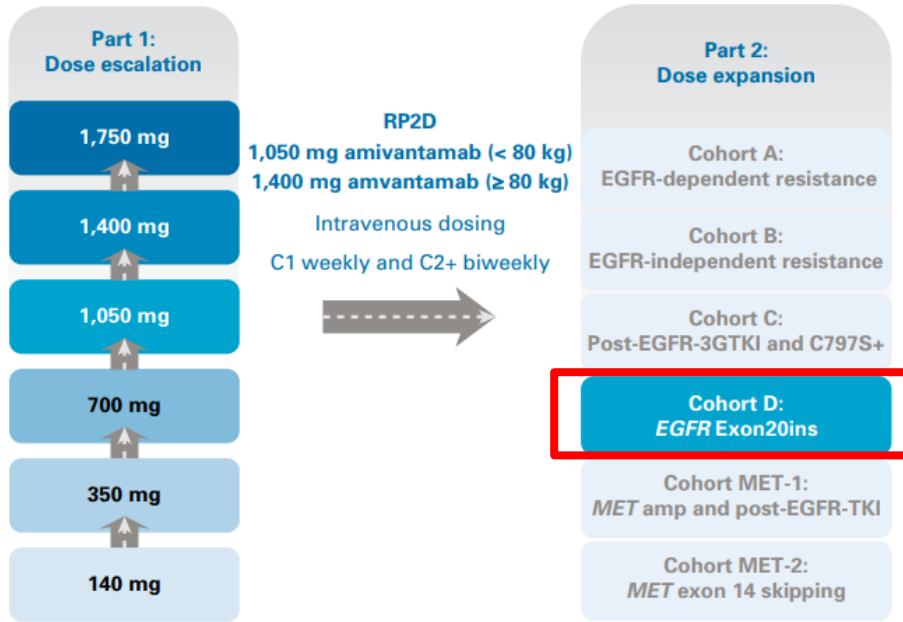
- Dose-escalation and dose-expansion phase I trial of amivantamab, an EGFR-MET bispecific antibody

## Key objectives

- Part 1: Establish RP2D
- Part 2: Safety and efficacy at RP2D

## Key eligibility criteria

- Metastatic or unresectable NSCLC
- Failed or ineligible for SOC therapy
- Advanced NSCLC (part 1)
- Measurable disease (part 2)
- Activating or resistance *EGFR* or *MET* mutations or amplifications (part 2)



## Efficacy End Points

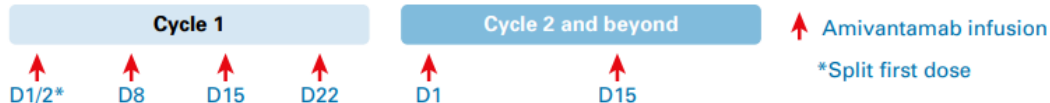
### Primary

- Overall response rate per RECIST v1.1

### Key Secondary

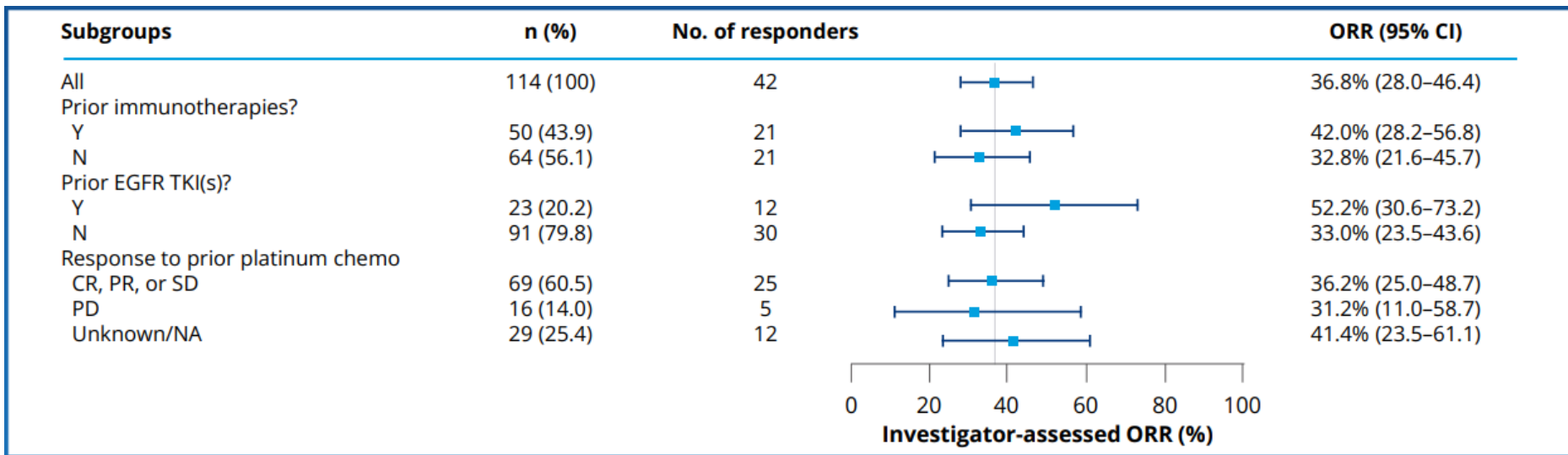
- Clinical benefit rate
- Duration of response
- Progression-free survival
- Overall survival

## Dosing schema



# Amivantamab demonstrated consistent efficacy regardless of prior therapies or response to prior platinum chemo

- ORR was 37%
- Median DOR 12.5 months

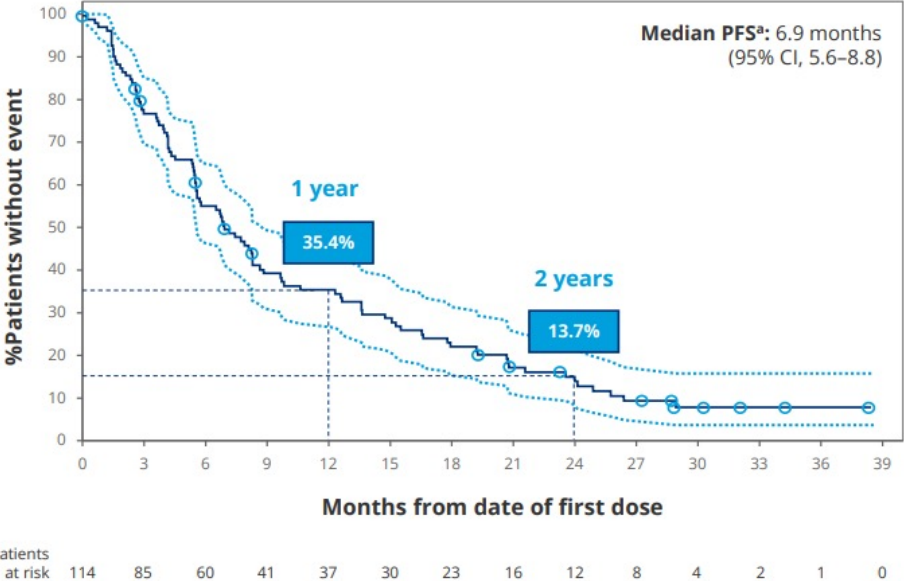


Median F/U 19.2 months

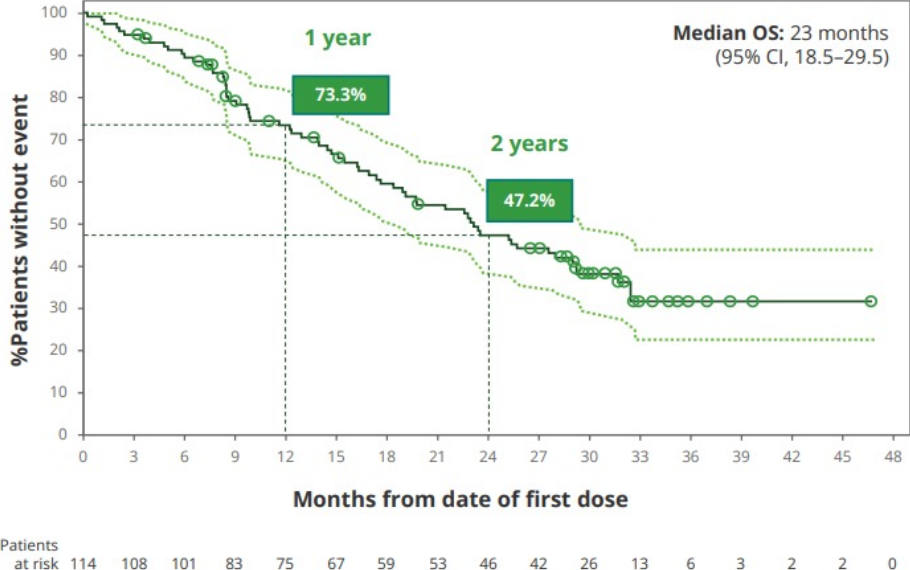


# At median F/U of 19.2 months and median duration of treatment 7.5 months, 42% patients were alive

## Progression-free Survival

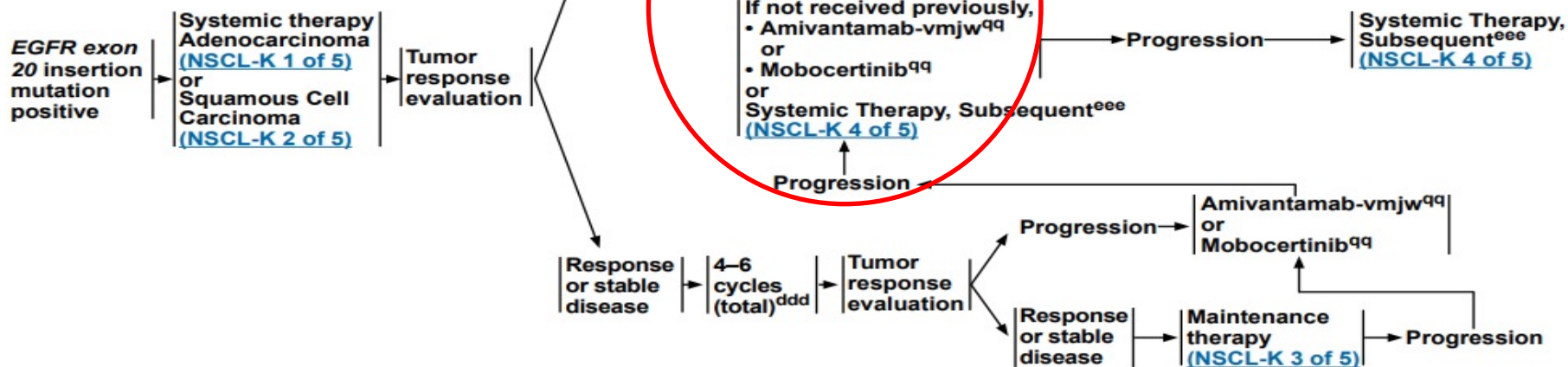


## Overall Survival

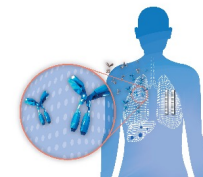


## Long-term safety (median F/U of 19.2 months) - No new safety signals were detected, with low rates of treatment-related discontinuations

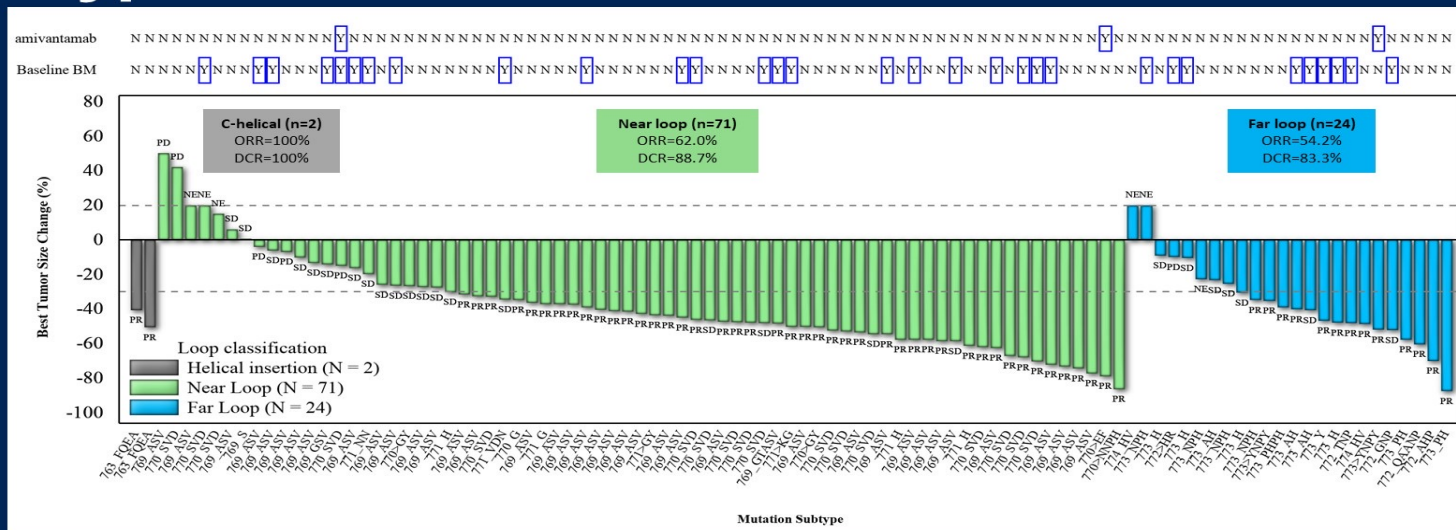
| AEs (≥15%) by preferred term, n (%)                   | Ex20ins Post-Platinum (n=114) |          | RP2D (n=474) |          |
|---|-------------------------------|----------|--------------|----------|
|   | Total                         | Grade ≥3 | Total        | Grade ≥3 |
| <b>EGFR-related</b>                                   |                               |          |              |          |
| Paronychia  | 66 (58)                       | 4 (4)    | 204 (43)     | 9 (2)    |
| Dermatitis acneiform                                  | 54 (47)                       | 1 (1)    | 165 (35)     | 5 (1)    |
| Rash  | 49 (43)                       | 2 (2)    | 167 (35)     | 8 (2)    |
| Stomatitis  | 29 (25)                       | 1 (1)    | 97 (20)      | 2 (0.4)  |
| Pruritus  | 23 (20)                       | 0        | 84 (18)      | 0        |
| Diarrhea  | 21 (18)                       | 4 (4)    | 53 (11)      | 6 (1)    |
| <b>MET-related</b>                                    |                               |          |              |          |
| Hypoalbuminemia                                       | 45 (39)                       | 5 (4)    | 153 (32)     | 11 (2)   |
| Peripheral edema                                      | 31 (27)                       | 1 (1)    | 119 (25)     | 5 (1)    |
| <b>Other</b>  |                               |          |              |          |
| Infusion-related reaction                             | 76 (67)                       | 3 (3)    | 319 (67)     | 14 (3)   |
| Nausea  | 32 (28)                       | 1 (1)    | 111 (23)     | 3 (1)    |
| Constipation  | 30 (26)                       | 0        | 115 (24)     | 1 (0.2)  |
| Fatigue   | 30 (26)                       | 4 (4)    | 100 (21)     | 9 (2)    |
| Dyspnea   | 29 (25)                       | 6 (5)    | 101 (21)     | 24 (5)   |
| Cough   | 24 (21)                       | 0        | 87 (18)      | 0        |
| Arthralgia  | 24 (21)                       | 0        | 53 (11)      | 1 (0.2)  |
| Back pain   | 23 (20)                       | 1 (1)    | 66 (14)      | 4 (1)    |
| Decreased appetite                                    | 23 (20)                       | 1 (1)    | 83 (18)      | 2 (0.4)  |
| Alanine aminotransferase increased                    | 20 (18)                       | 4 (4)    | 80 (17)      | 10 (2)   |
| Dry skin  | 19 (17)                       | 0        | 59 (12)      | 0        |
| Vomiting  | 19 (17)                       | 1 (1)    | 59 (12)      | 2 (0.4)  |
| <b>AEs of special interest by grouped term, n (%)</b> |                               |          |              |          |
| Rash <sup>a</sup>                                     | 102 (89)                      | 5 (4)    | 349 (74)     | 17 (4)   |
| Interstitial lung disease <sup>b</sup>                | 8 (7)                         | 0        | 16 (3)       | 4 (1)    |
| Venous thromboembolism <sup>c</sup>                   | 13 (11)                       | 7 (6)    | 50 (11)      | 25 (5)   |

**EGFR EXON 20 INSERTION MUTATION POSITIVE<sup>mm</sup>****FIRST-LINE THERAPY<sup>ccc</sup>****SUBSEQUENT THERAPY<sup>pp</sup>**<sup>mm</sup> [Principles of Molecular and Biomarker Analysis \(NSCL-H\)](#).<sup>pp</sup> [Targeted Therapy or Immunotherapy for Advanced or Metastatic Disease \(NSCL-J\)](#).<sup>qq</sup> For performance status 0-4.<sup>ccc</sup> Monitoring During Initial Therapy: Response assessment after 2 cycles, then every 2-4 cycles with CT of known or high-risk sites of disease with or without contrast or when clinically indicated. Timing of CT scans within Guidelines parameters is a clinical decision.<sup>ddd</sup> In general, 4 cycles of initial systemic therapy (ie, with carboplatin or cisplatin) are administered prior to maintenance therapy. However, if patient is tolerating therapy well, consideration can be given to continue to 6 cycles.<sup>eee</sup> Monitoring During Subsequent Therapy or Maintenance Therapy: Response assessment with CT of known or high-risk sites of disease with or without contrast every 6-12 weeks. Timing of CT scans within Guidelines parameters is a clinical decision.

# Sunvozertinib in EGFR Exon 20 Insertions

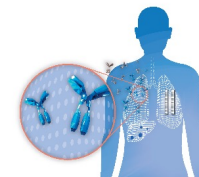


## Activity by Location of EGFR Exon 20 Ins Subtypes



64.4% responding at median fup of 5.6 mo.

# Cross Trial Comparisons



## Efficacy

|                              | Mobocertinib <sup>1</sup><br>(N=114) | Amivantamab <sup>2</sup><br>(N=81) | Sunvozertinib<br>(DZD9008)<br>(N=97)<br>WUKONG6 <sup>3</sup> |
|------------------------------|--------------------------------------|------------------------------------|--|
| Investigator assessed        |                                      |                                    |  |
| ORR, %                       | 35%                                  | 36%                                | 46.4%  |
| Disease control rate, %      | 78%                                  | 73%                                |  |
| Duration of response, mos    | 11.2 mo                              | -                                  |  |
| IRC assessed (95% CI)        |                                      |                                    |  |
| ORR, % (95% CI)              | 28%<br>(20-37%)                      | 40% (29-51%)                       | 60.8%<br>(50.4-70.6%)  |
| Disease control rate, %      | 78%                                  | 74%                                | 87.6%  |
| Duration of response, months | 17.5 mo                              | 11.1 mo                            | 64.4%<br>responding at<br>median fup of<br>5.6 mo.           |
| PFS, months                  | 7.3 mo                               | 8.3 mo                             | -  |
| Brain Mets, ORR (N=)         | -                                    | -                                  | 44% (N=25) <sup>4</sup>                                      |

## Safety

| EGFR Exon 20 Tx | Trial                  | Diarrhea         | Rash           | Other Major Notable   |
|-----------------|------------------------|------------------|----------------|---|
| Amivantamab     | CHRYSALIS <sup>2</sup> | 12% (2% G3+)     | 86% (4% G3+)   | Infusion-related reaction 66% (8% G3+), Paronychia lipase, amylase, other GI, lipase, amylase elevation |
| Mobocertinib    | EXCLAIM <sup>1</sup>   | 93% (16% G3+)    | 45% (0% G3+)   | CPK Elevation (57.7%, 17.3%)  |
| Sunvozertinib   | WUKONG6 <sup>4</sup>   | 67.3% (7.7% G3+) | 53.8% (1% G3+) | G3+   |

### Other EGFR Exon 20 ins TKI with Putative CNS Penetration in Development

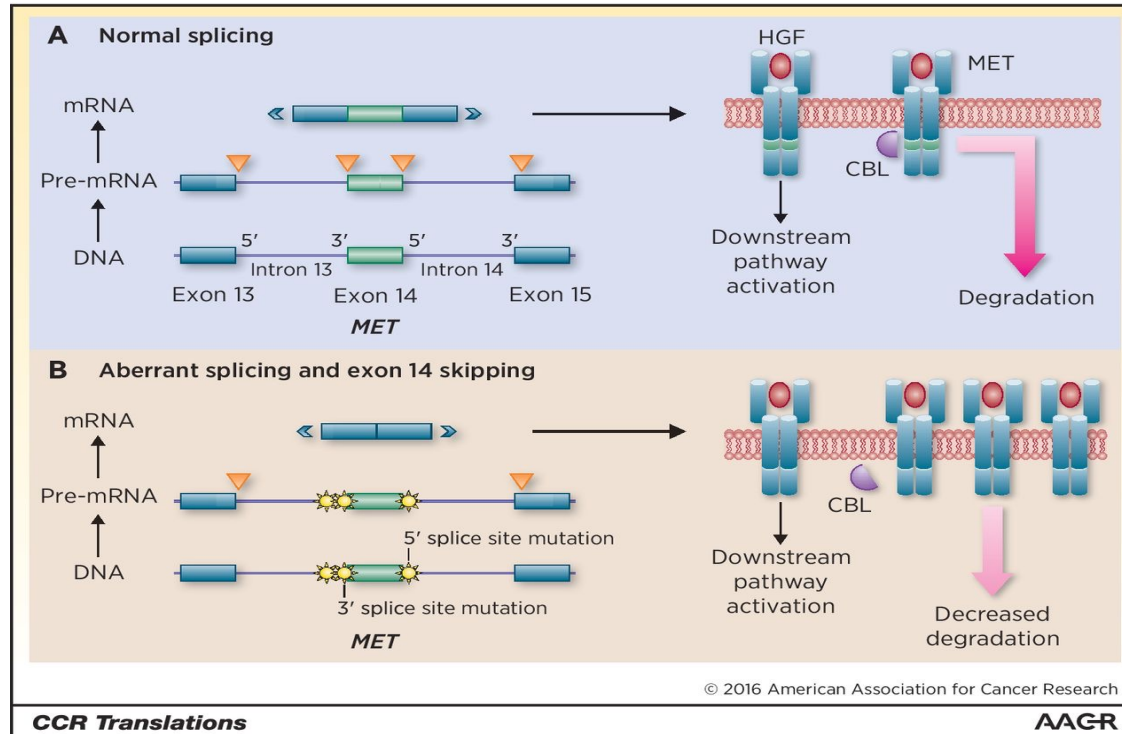
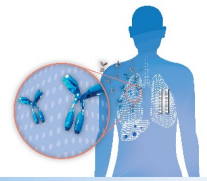
- TAS6417 (CLN-081)
- Blu-451
- Oric-114
- Furmonertinib

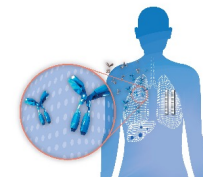
\*WUKONG 1,2,6 pooled at 300 mg dose<sup>5</sup>

1. Zhou C, et al. *JAMA Oncol.* 2021 Oct 14;e214761. 2. Park K, et al. *J Clin Oncol.* 2021;39:3391-3404. 3. M. Wang et al ASCO 2023. ABS7 9002. 4. L. Bazhenova et al NACLC 2022.



# MET Exon 14–skipping Mutation



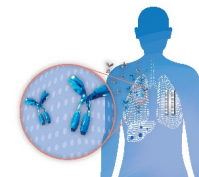


## ***MET* exon 14 skip mutation: A unique population**

- Associated with advanced disease and poorer prognosis
- Older population – median age 74 years
- Current/former smokers 60%; never smokers 40%
- Seen in both histologies – squamous (2%) and non-squamous (3-4 %)
- Enriched in sarcomatoid carcinomas – 8%

1. Tong JH et al. Clin Cancer Res 2016;22;3048-56
2. Awad MM et al. Lung Cancer 2019;133;96-102
3. Salgia R et al. Mol Cancer Ther 2017;16;555-65
4. Frampton GM et al Cancer Discovery 2015;5;850-59

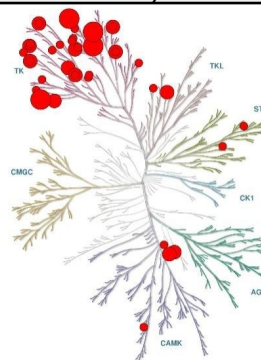
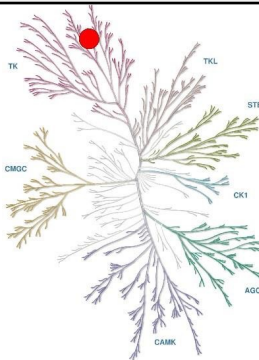
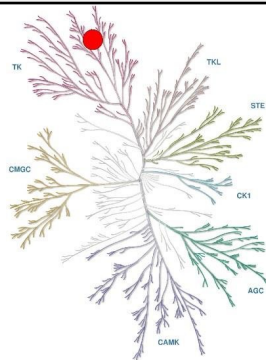
# MOA, Selectivity and Potency of Key MET-inhibitor Competitors in NSCLC



|                         | Tepotinib   | Capmatinib                                     | Crizotinib  | Savolitinib   |
|-------------------------|---|--|---|---|
| Mode of action          | Highly MET selective, potent TKI that inhibits MET phosphorylation and downstream signaling | Inhibits MET-dependent PI3K and RAS signalling | Potent MET inhibitor that is active in tumors harbouring <i>METex14</i> alterations and inhibits cell proliferation and downstream signalling | Highly selective MET inhibitor that inhibits PI3K/AKT and MAPK signaling and downregulates MYC expression |
| Selectivity             | <b>1000-fold more selective</b> for MET   | <b>10,000-fold more selective</b> for MET      | <b>100-fold more selective</b> for MET  | <b>1000-fold more selective</b> for MET   |
| Potency                 | <b>1.7 nM<sup>1</sup></b>   | <b>0.6 nM</b>                                  | <b>8 nM</b><br>(vs ALK 24 nM,<br>ROS 2.1 nM)  | <b>2.1 nM</b>   |
| Enzyme IC <sub>50</sub> |   |  |   |   |

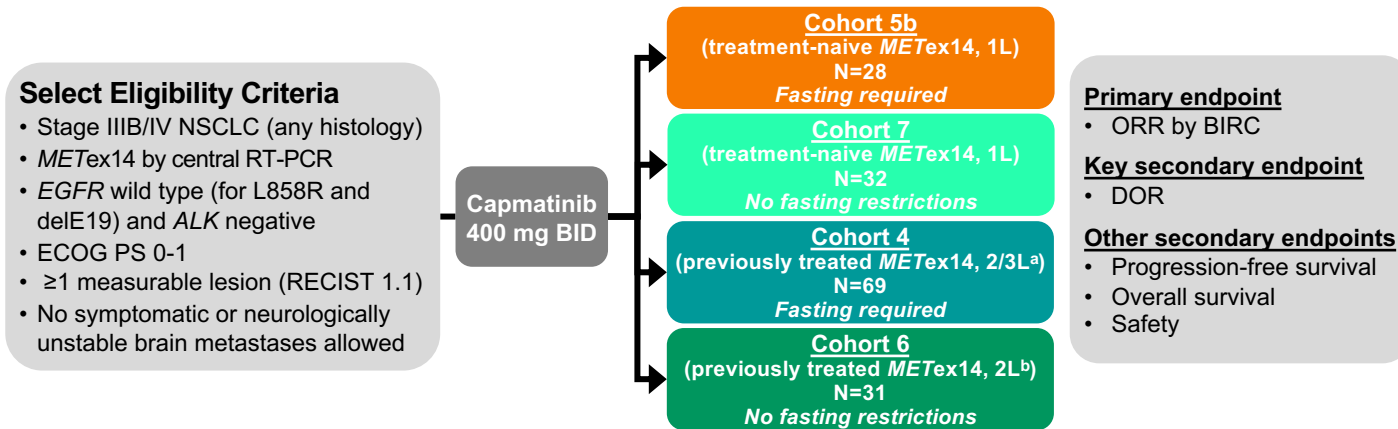
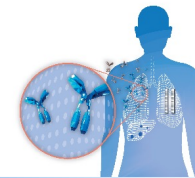
% inhibition at 1  $\mu$ M

- $\geq 99\%$  ●
- $> 90\%$  ●
- $> 75\%$  ●





# GEOMETRY mono-1: Study Design<sup>1-5</sup>



GEOMETRY mono-1 was a global, prospective, nonrandomized open-label Phase II study that enrolled 373 patients into multiple study cohorts based on their prior treatment and *MET* dysregulation (mutation and/or amplification) status

1/2/3L, first/second/third-line; *ALK*, anaplastic lymphoma kinase; BID, twice daily; BIRC, blinded independent review committee; DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; *EGFR*, epidermal growth factor receptor; *MET*, mesenchymal-epithelial transition; *MET*ex14, *MET* exon 14 skipping mutation; NSCLC, non-small cell lung cancer; ORR, overall response rate; RECIST, Response Evaluation Criteria in Solid Tumors; RT-PCR, reverse transcription-polymerase chain reaction.

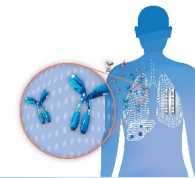
<sup>a</sup>Two patients in Cohort 4 received 3 prior lines of systemic therapy. <sup>b</sup>One patient in Cohort 6 received 3 prior lines of systemic therapy.

**References:** 1. Wolf J, et al. Presented at: American Society of Clinical Oncology Annual Meeting; May 31-June 4, 2019; Chicago, IL. Oral 9004; 2. Heist RS, et al. Presented at: Sixth AACR-IASLC International Joint Conference: Lung Cancer Translational Science from the Bench to the Clinic; January 11-14, 2020; San Diego, CA. Poster B11;

4. Wolf J, et al. *N Engl J Med.* 2020;383(10):944-957; 5. Wolf J, et al. Presented at: American Society of Clinical Oncology Annual Meeting; June

4-8, 2021; Virtual. Poster 9020.

# GEOMETRY mono-1: Patient Population and Efficacy Summary



## GEOMETRY mono-1 evaluated capmatinib in adult patients with metastatic METex14 NSCLC<sup>1-4</sup>

- Both treatment-naïve and previously treated patients enrolled<sup>1-4</sup>
  - Sites of metastases included bone, liver, adrenal, and brain; a total of 13 evaluable patients had brain metastasis at baseline
- Prior to enrollment, all patients with METex14 had this mutational status confirmed in tumor tissue via RT-PCR<sup>1-4</sup>
  - Retrospective analysis of cohorts 4<sup>a</sup> and 5b reported 99% positive percentage agreement between the RNA-based RT-PCR assay used for enrollment and the DNA-based FoundationOne®CDx NGS assay in tumor tissue<sup>1,3</sup>
  - Retrospective analysis of cohorts 4<sup>a</sup> and 5b reported 70.5% positive percentage agreement between the RNA-based RT-PCR assay used for enrollment and the FoundationOne®Liquid CDx NGS assay<sup>5</sup>

Primary endpoint of the GEOMETRY mono-1 trial was ORR by BIRC<sup>1-3,6-8</sup>

### METex14 NSCLC patients treated with capmatinib (BIRC results):

|                   | Cohort 5b treatment-naïve (1L) (n=28) <sup>b</sup> | Cohort 7 treatment-naïve (1L) (n=32) <sup>b</sup> | Cohort 4 previously treated (2/3L <sup>a</sup> ) (n=69) <sup>c</sup> | Cohort 6 previously treated (2L <sup>d</sup> ) (n=31) <sup>c</sup> |
|-------------------|--|---|--|--|
| ORR, % (95% CI)   | 68 (48-84)   | 69 (50-84)  | 41 (29-53)   | 52 (33-70)   |
| mDOR, mo (95% CI) | 12.6 (5.6-NE)                                      | 16.6 (8.3-NE)                                     | 9.7 (5.6-13.0)   | 8.4 (4.2-NE)   |
| mPFS, mo (95% CI) | 12.4 (8.2-23.4)                                    | 12.5 (6.9-20.5)                                   | 5.4 (4.2-7.0)  | 6.9 (4.2-13.3)   |
| mOS, mo (95% CI)  | 20.8 (12.4-NE)                                     | NE (12.9-NE)                                      | 13.6 (8.6-22.2)  | NE (13.5-NE)   |

*Due to the nonrandomized, noncomparative nature of the GEOMETRY mono-1 trial, PFS and OS results are difficult to interpret. No statistical tests were made for PFS and OS because there was no comparator arm.*

### Post hoc analysis: Intracranial response in 54% (7 of 13) of patients<sup>e</sup>

**Complete resolution:** 31% (4 of 13)    **Partial resolution:** 23% (3 of 13)

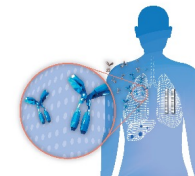
*Analysis of overall intracranial response rate included patients with measurable brain disease at baseline and at least one postbaseline assessment but omits brain imaging in patients with premature discontinuations, which may lead to bias favoring a treatment effect.*

*If brain lesions were documented at baseline, CT or MRI scan with intravenous contrast was mandated every 6 weeks, or otherwise, only if clinically indicated.<sup>9</sup>*

*Intracranial results are based on a noncomparative post hoc analysis and are observational in nature; as such, they should be interpreted with caution.*

**References:** 1. Tabrecta. Prescribing information. Novartis Pharmaceuticals Corp; 2. Garon E, et al. Presented at: American Association for Cancer Research Annual Meeting; April 27-28, 2020; Virtual. Oral CT082; 3. Wolf J, et al. *N Engl J Med.* 2020;383(10):944-957; 4. Heist RS, et al. Presented at: Sixth AACR-IASLC International Joint Conference: Lung Cancer Translational Science from the Bench to the Clinic; January 11-14, 2020; San Diego, CA. Poster B11; 5. FoundationOne®Liquid CDx Technical Information. Foundation Medicine; 2021; 6. Data on file. Clinical Study Report CINC280A2201 Primary Analysis. Novartis Pharmaceuticals Corp; August 21, 2019; 7. Wolf J, et al. Presented at: American Society of Clinical Oncology Annual Meeting; June 4-8, 2021; Virtual. Poster 9020; 8. Wolf J, et al. Presented at: European Lung Cancer Conference Meeting; March 30-April 2, 2022. Poster 26P; 9. Clinical Trial Protocol CINC280A2201 Version 6 (EudraCT 2014-003850-15). Novartis Pharmaceuticals Corp; February 28, 2019.

# GEOMETRY *mono-1*: Safety Summary



- The most common adverse reactions ( $\geq 20\%$ ) in patients who received capmatinib were edema<sup>a</sup>, nausea, musculoskeletal pain, fatigue, vomiting, dyspnea, cough, and decreased appetite<sup>1</sup>

|                            |   |   |
|----------------------------|---|---|
| <b>Edema</b>               | <p>Edema<sup>a</sup> reported in 59% of patients (13% grades 3 to 4)<sup>1,b</sup><br/>                     2.4% discontinued capmatinib due to edema<sup>1,a,b</sup><br/>                     15.5% of patients had a dose adjustment and/or interruption due to peripheral edema<sup>2,b,c</sup></p>  | <p><b>Peripheral edema<sup>c</sup>:</b><br/> <b>Median time to first occurrence<sup>3</sup></b><br/> <b>(Grades <math>\geq 2</math>)<sup>d</sup>:</b> 3.48 mo<br/>                     (range, 0.03-26.64; n=99)</p>  |
| <b>Nausea and vomiting</b> | <p>Nausea was reported in 46% of patients (2.4% grades 3 to 4)<sup>1,b</sup><br/>                     Vomiting was reported in 28% of patients (2.4% grades 3 to 4)<sup>1,b</sup><br/>                     0.8% and 0.8% discontinued capmatinib due to nausea or vomiting, respectively<sup>2,b</sup><br/>                     7.5% and 6.7% had a dose adjustment and/or interruption due to nausea or vomiting, respectively<sup>2,b</sup></p> | <p><b>Nausea:</b><br/> <b>Median time to first occurrence<sup>3</sup></b><br/> <b>(Grades <math>\geq 2</math>)<sup>d</sup>:</b> 0.44 mo<br/>                     (range, 0.03-21.42; n=54)</p> <p><b>Vomiting:</b><br/> <b>Median time to first occurrence<sup>3</sup></b><br/> <b>(Grades <math>\geq 2</math>)<sup>d</sup>:</b> 0.56 mo<br/>                     (range, 0.07-21.42; n=25)</p> |
| <b>Elevated creatinine</b> | <p>Elevated creatinine was reported in 65% of patients (0.5% grades 3 to 4)<sup>1,b</sup><br/>                     0.8% discontinued capmatinib due to elevated creatinine<sup>2,b</sup><br/>                     9.1% had a dose adjustment and/or interruption due to elevated creatinine<sup>2,b</sup></p> <p>Capmatinib has been shown preclinically to inhibit MATE1 and MATE2K transporters<sup>1,4-6</sup></p>                             | <p><b>Median time to first occurrence<sup>3</sup></b><br/> <b>(Grades <math>\geq 2</math>)<sup>d</sup>:</b> 3.58 mo<br/>                     (range, 0.13-34.17; n=27)</p>  |

MATE, multidrug and toxin extrusion; mo, month.

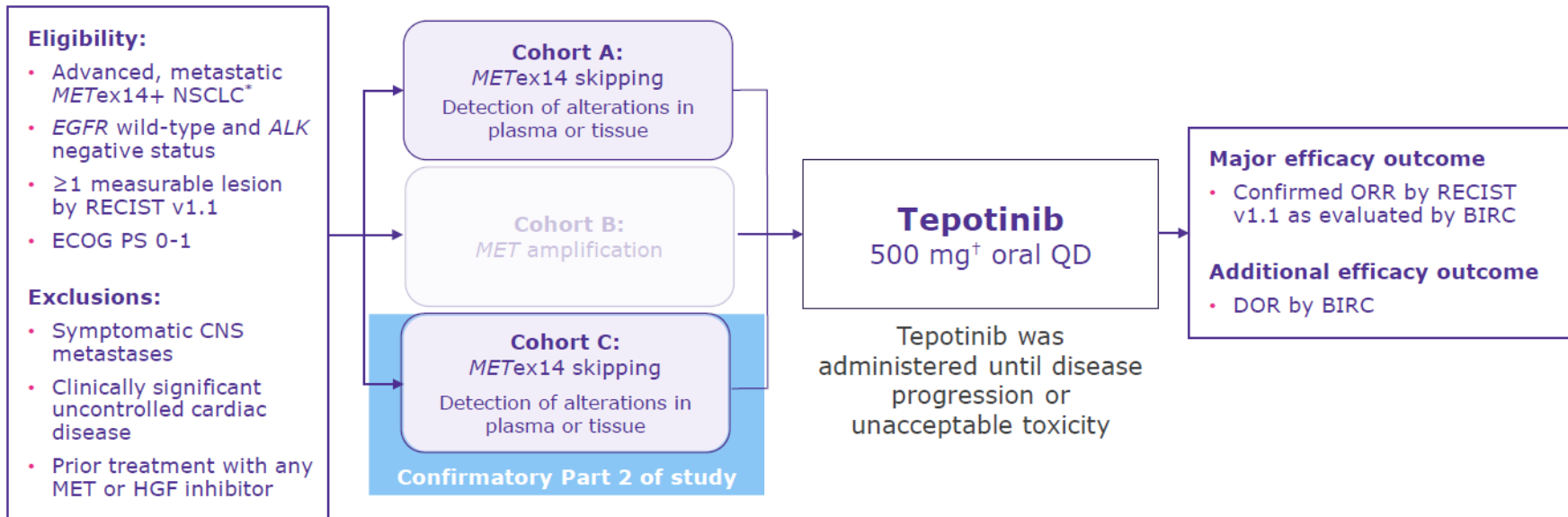
<sup>a</sup>Edema includes edema peripheral, generalized edema, face edema, edema, localized edema, edema genital, eyelid edema, peripheral swelling, scrotal edema, and penile edema.

<sup>b</sup>Data cutoff: August 30, 2021. <sup>c</sup>Peripheral edema includes peripheral swelling, peripheral edema and fluid overload. <sup>d</sup>Data cutoff: September 18, 2020.

**References:** 1. Tabrecta. Prescribing information. Novartis Pharmaceuticals Corp; 2. Data on file. Clinical Study Report CINC280A2201 Primary Analysis (Cohort 7). Novartis Pharmaceuticals Corp; December 21, 2021; 3. Heist RS, et al. Presented at: European Society for Medical Oncology 2021 Congress; September 16-21, 2021. Poster 1256P; 4. Lepist EI, et al. *Kidney Int.* 2014;86(2):350-357; 5. INC280 (capmatinib) Investigator's Brochure, Edition 11. Novartis Pharmaceuticals Corp; November 22, 2019; 6. Mathialagan S, et al. *J Pharm Sci.* 2017;106(9):2535-2541.

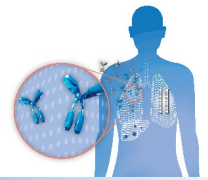
# VISION: A Single-arm, Open-label, Multicenter, Nonrandomized, Multicohort Study

- Tepotinib in Adult Patients With Advanced or Metastatic NSCLC Harboring *MET*ex14 Skipping Alterations



\*Identification of *MET*ex14 skipping was prospectively determined using central laboratories employing either a PCR-based or NGS-based clinical trial assay using tissue and/or plasma samples. An FDA-approved test for detection of *MET*exon14 skipping alterations in NSCLC for selecting patients for treatment with tepotinib is not available. 1450 mg active moiety.  
ALK, anaplastic lymphoma kinase; BIRC, Blinded Independent Review Committee; CNS, central nervous system; DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; EGFR, epidermal growth factor receptor; HGF, hepatocyte growth factor; MET, mesenchymal-epithelial transition; NGS, next-generation sequencing; ORR, objective response rate; PCR, polymerase chain reaction; QD, once daily; RECIST, Response Evaluation Criteria in Solid Tumors.  
Reference: TEPMETKO® (tepotinib) [prescribing information]. EMD Serono, Inc., Rockland, MA; 2021.

# VISION: Response and Survival

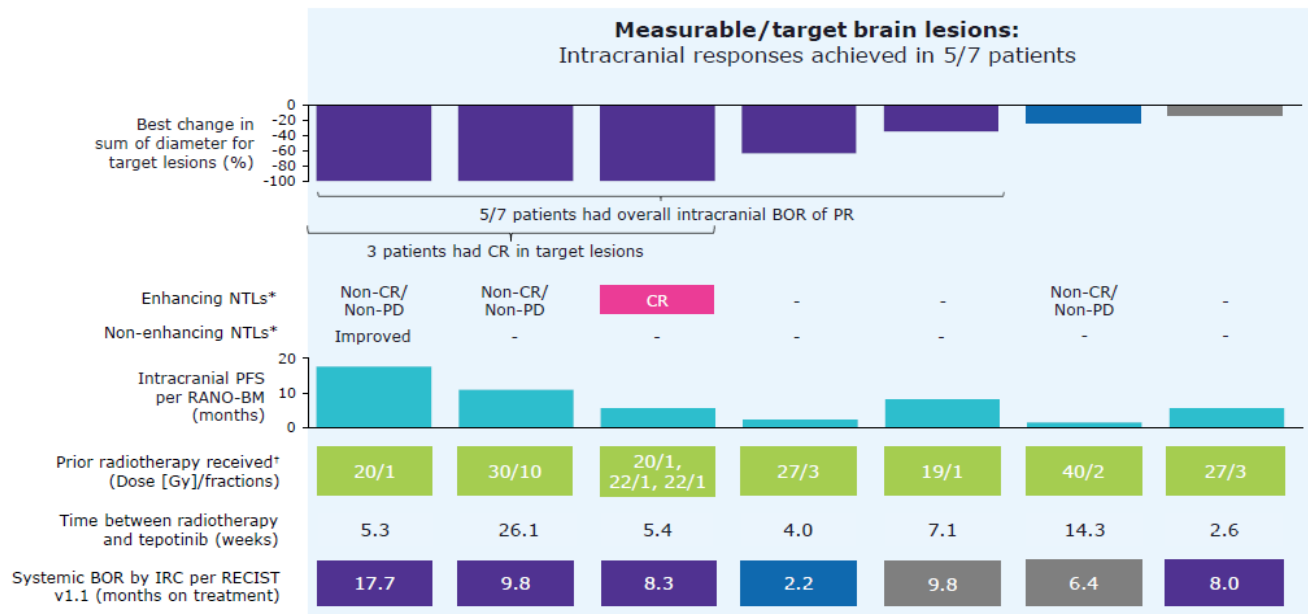


|                   | All Pts (n=313) | 1L (n=164) | 2L+ (n=149) |
|-------------------|-----------------|------------|-------------|
| <b>ORR (%)</b>    | 51.4            | 57.3       | 45.0        |
| <b>mDOR (%)</b>   | 18.0            | 46.4       | 12.6        |
| <b>mPFS (mos)</b> | 11.2            | 12.6       | 11.0        |
| <b>mOS (mos)</b>  | 19.6            | 21.3       | 19.3        |

Paik P et al. ASCO 2023 (abstract 9060)  
Mazieres et al. JAMA Oncol (published online June 4, 2023)

# Assessment of Intracranial Response to Tepotinib by IRC

- Of 7 patients with measurable/target brain lesions per RANO-BM, intracranial BOR was:
  - PR (n=5; including 3 cases of CR in target lesions)
  - SD (n=1)
  - PD (n=1)



**BOR**  
■ CR ■ PR ■ SD ■ PD

Tepotinib demonstrated intracranial activity in evaluable patients with baseline brain metastases (per RANO-BM)  
 Intracranial disease control was observed in 13/15 patients

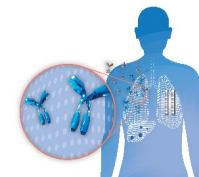
Data cutoff: July 1, 2020.

\*Dashes (-) indicate NTLs were not recorded. †Radiotherapy for brain lesions.

BOR, best objective response; CR, complete response; IRC, Independent Review Committee; non-CR/non-PD, non-complete response/non-progressive disease; NTL, non-target lesion; PD, progressive disease; PR, partial response; RANO-BM, Response Assessment in Neuro-Oncology Brain Metastases; RECIST, Response Evaluation Criteria in Solid Tumors; SD, stable disease.

Reference: Patel JD, et al. ASCO 2021 (Poster 9084).

# VISION: Safety Results



## Results

### Safety

- Most treatment-related AEs were Grade 1/2; Grade  $\geq 3$  occurred in 34.8% of patients (**Table 4**)
- Peripheral edema was the most common AE and was mostly Grade 1/2; treatment-related any grade: 67.1%, Grade  $\geq 3$ : 11.2% (**Table S3**)
- Patients requiring treatment interruptions or dose reductions were able to continue to benefit from tepotinib (**Figure S7**)

**Table 4. Tepotinib safety profile in Cohorts A+C**

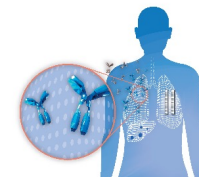
| AE, n (%)                                | Overall (N=313) |                       |
|--|-----------------|-----------------------|
|  | All cause AEs   | Treatment-related AEs |
| Any AE                                   | 310 (99.0)      | 287 (91.7)            |
| Serious AEs                              | 159 (50.8)      | 49 (15.7)             |
| Grade $\geq 3$ AEs                       | 203 (64.9)      | 109 (34.8)            |
| Grade $\geq 4$ AEs                       | 57 (18.2)       | 12 (3.8)              |
| AEs leading to dose reduction            | 113 (36.1)      | 105 (33.5)            |
| AEs leading to treatment interruption    | 165 (52.7)      | 135 (43.1)            |
| AEs leading to permanent discontinuation | 78 (24.9)       | 46 (14.7)             |
| AEs leading to death                     | 41 (13.1)       | 3* (1.0)              |

\*Of the three patients with treatment-related AEs leading to death, two patients were already detailed in Le X, et al. *Clin Cancer Res.* 2022;28(6):1117-1126, and the third patient had progressive disease or a lung cancer-related condition leading to multiple organ failure, which was considered treatment-related due to a missing causality report. AEs, adverse events.

Paik P, et al. Abstract number 9060 at ASCO Annual Meeting 2023 | June 2-6, 2023 | Chicago, IL and virtual.



# Conclusion on met Inhibitors for met exon 14 skip mutations

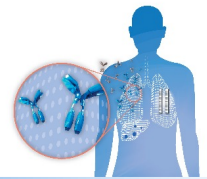


- Capmatinib and tepotinib both have shown durable clinical activity in patients with met exon 14 skip mutation-positive advanced NSCLC with acceptable safety profiles

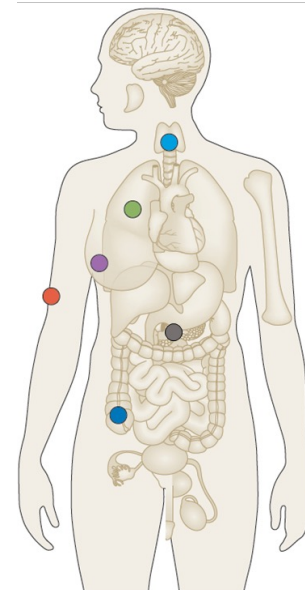
|                                   | Capmatinib                      | Tepotinib                       |
|-----------------------------------|---------------------------------|---------------------------------|
| ORR (prior platinum) <sup>A</sup> | 41%                             | 45%                             |
| ORR (naive)                       | 68%                             | 57%                             |
| DOR (prior platinum) <sup>A</sup> | 9.7 months                      | 12.6 months                     |
| DOR (naive)                       | 12.6 months                     | 46.4 months                     |
| Active in CNS met                 | Yes                             | Yes                             |
| PFS, median                       | 12.4 months 1L; 5.4 months 2L+  | 12.6 months 1L; 11 months 2L+   |
| OS, median                        | 20.8 months 1L; 13.6 months 2L+ | 21.3 months 1L; 19.3 months 2L+ |
| Safety profile                    | Most AEs G1/2; 65% edema        | Most AEs G1/2; 66% edema        |
| Discontinuation TRAEs             | 16.9%                           | 14.7%                           |

Capmatinib and tepotinib: both FDA approved for treatment of advanced met exon 14 skip mutation-positive NSCLC





## RET fusions



**Non-small cell lung cancer (2%)**

**Thyroid cancers (10–20%)**

Pancreatic cancer (<1%)

Salivary gland cancer (<1%)

Spitz tumors (<1%)

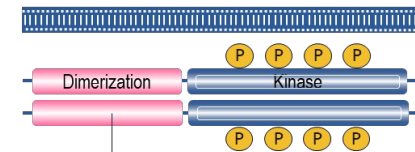
Colorectal cancer (<1%)

Ovarian cancer (<1%)

Myeloproliferative disorders (<1%)

Many others (<1%)

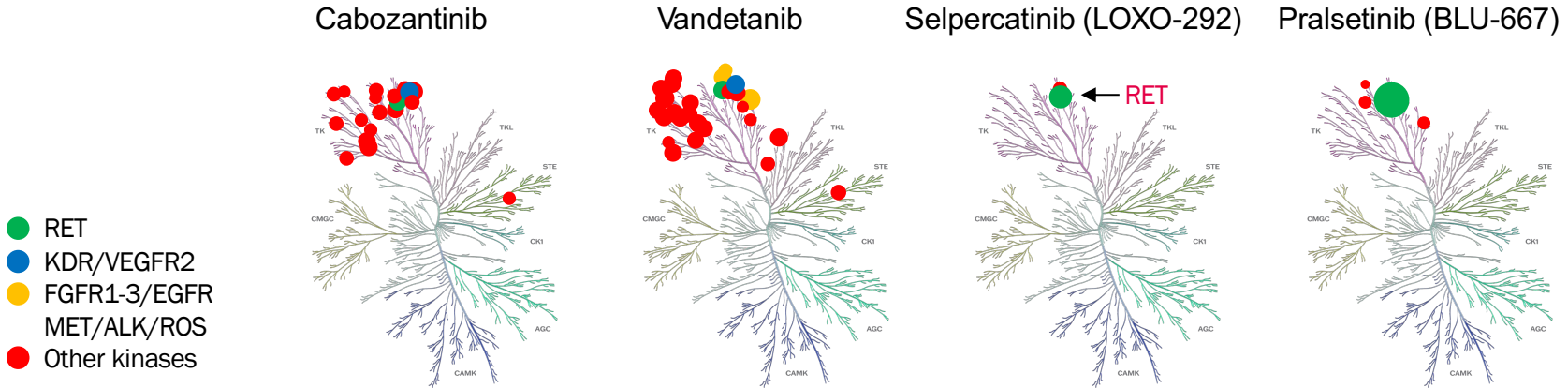
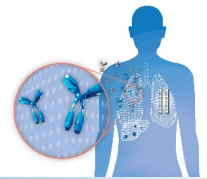
- *RET* fusions are known oncogenic drivers in NSCLC<sup>1,2</sup>
- Up to half of patients with advanced NSCLC will develop brain metastases<sup>3</sup>
- Multikinase inhibitors
  - Provide a modest clinical benefit
  - Associated with significant toxicity (non-*RET* kinase inhibition)
- Immunotherapy drugs (PD-1/PD-L1 inhibitors) may be less efficacious in patients with driver-positive NSCLC, including *RET* fusion<sup>4,5</sup>



***KIF5B*** (most common in lung cancer)

***CCDC6* or *NCOA4*** (most common in thyroid cancer)

# RET Multikinase Inhibitors in *RET*-Rearranged NSCLC



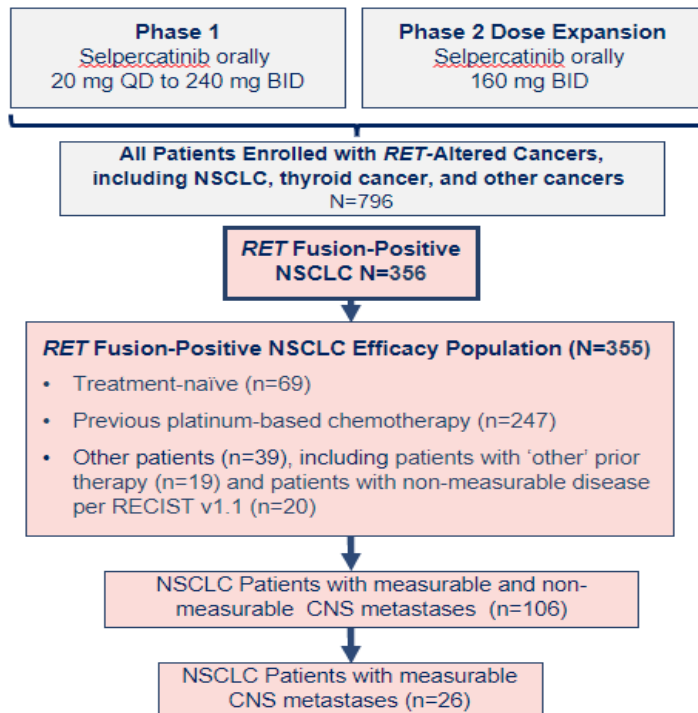
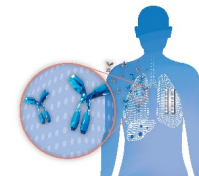
| Agent                                 | Cabozantinib | Vandetanib | Selpercatinib (LOXO-292) | Pralsetinib (BLU-667) |
|---------------------------------------|--------------|------------|--------------------------|-----------------------|
| IC <sub>50</sub> RET, nM <sup>a</sup> | 11           | 4          | 3                        | 0.4                   |
| ORR,<br>%                             | 37           | 18         | 68                       | 58                    |
| CR                                    | 5            | 0          | 2                        | 1                     |

<sup>a</sup> Cell free.

Presented by Loong HH, et al. ESMO 2021.

1. Velcheti V, et al. WCLC 2017. Abstract OA 12.07.
2. Gautschi O, et al. *J Clin Oncol*. 2017;35(13):1403-1410.
3. Drlon A, et al. WCLC 2019. Abstract PL02.08.
4. Gainor JF, et al. ASCO 2019. Abstract 9008.
5. Rahal R, et al. AACR 2017. Abstract B151.
6. Solomon BJ, et al. *J Thorac Oncol*. 2020;15(4):541-549.

# The Phase 1/2 LIBRETTO-001 Trial: Selpercatinib in Patients with *RET*-altered Cancers



## Study Design

- Ongoing, global, multicenter Phase 1/2 trial (NCT03157128)
- Patients enrolled based on locally identified *RET* alterations using NGS, FISH, or PCR
- Key inclusion criteria: Diagnosis of advanced or metastatic disease, ECOG PS 0 to 2, asymptomatic CNS metastases permitted.

## Primary Endpoint

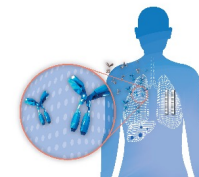
- ORR (RECIST v 1.1) by Independent Review

## Secondary Endpoints Included

- Duration of Response (DOR)
- CNS ORR/DOR by IRC
- Progression-Free Survival (PFS)
- Overall Survival (OS)
- Safety

Safety population includes all patients who received at least one selpercatinib dose prior to June 2021 data cutoff  
Efficacy population includes all patients enrolled 6 months prior to data cutoff date, to allow adequate follow-up. One patient with NSCLC who received prior treatment with another selective *RET* inhibitor was not included in the efficacy analysis but was included in the NSCLC safety population

# LIBRETTO-001 - Efficacy

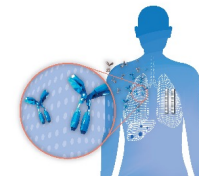


| Response                             | Treatment-naïve (N=69) | Previous platinum chemotherapy (N=247) |
|--------------------------------------|------------------------|--|
| Objective response by IRC—% (95% CI) | 84.1 (73.3, 91.8)      | 61.1 (54.7, 67.2)                      |
| Duration of response                 |                        |  |
| Median —mo (95% CI)                  | 20.2 (13.0, NE)        | 28.6 (20.4, NE)                        |
| Censoring rate (%)                   | 55.2                   | 60.9                                   |
| 1-yr DoR—% (95% CI)                  | 66.1 (51.6, 77.3)      | 73.1 (64.9, 79.7)                      |
| 2-yr DoR—% (95% CI)                  | 41.6 (25.6, 56.8)      | 55.8 (46.4, 64.2)                      |
| Median duration of follow-up—mo      | 20.3                   | 21.2                                   |
| Progression-free survival            |                        |  |
| Median —mo (95% CI)                  | 22.0 (13.8, NE)        | 24.9 (19.3, NE)                        |
| Censoring rate— n (%)                | 37 (53.6)              | 138 (55.9)                             |
| 1-yr PFS —% (95% CI)                 | 70.6 (57.8, 80.2)      | 70.5 (64.1, 76.0)                      |
| 2-yr PFS —% (95% CI)                 | 41.6 (26.8, 55.8)      | 51.4 (44.3, 58.1)                      |
| Median duration of follow-up—mo      | 21.9                   | 24.7                                   |
| Overall survival                     |                        |  |
| Patients with censored data—n (%)    | 49 (71.0)              | 169 (68.4)                             |
| 1-yr OS —% (95% CI)                  | 92.7 (83.3, 96.9)      | 87.9 (83.0, 91.4)                      |
| 2-yr OS —% (95% CI)                  | 69.3 (55.2, 79.7)      | 68.9 (62.2, 74.7)                      |
| 3-yr OS —% (95% CI)                  | 57.1 (35.9, 73.6)      | 58.5 (49.7, 66.3)                      |
| Median duration of follow-up —mo     | 25.2                   | 26.4                                   |

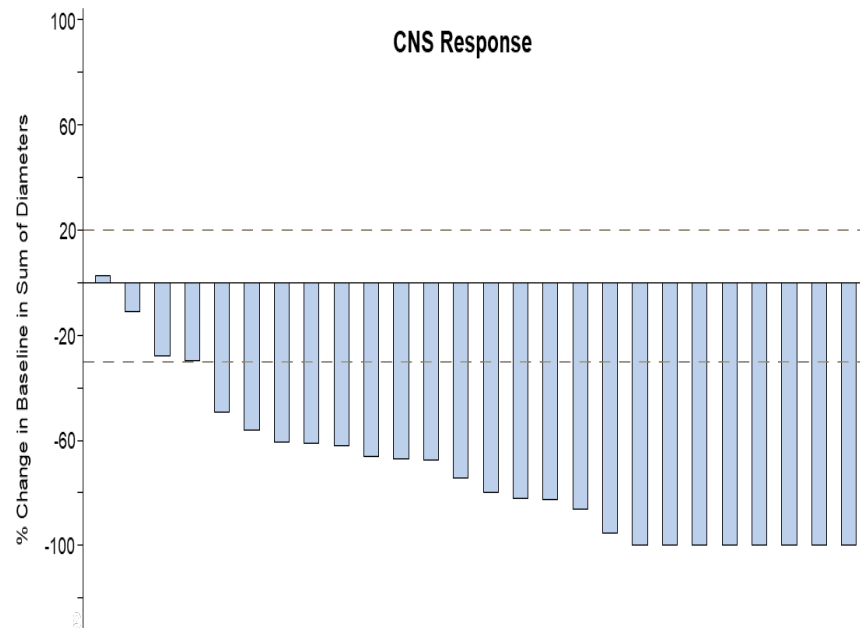


Note: ORR was consistent regardless of prior therapy or ethnicity (data not shown)

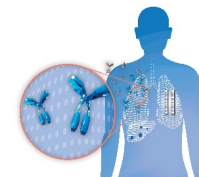
# LIBRETTO-001 – CNS Efficacy



| CNS response                          | (N=26)            |
|---------------------------------------|-------------------|
| Objective response by IRC— % (95% CI) | 84.6 (65.1, 95.6) |
| Best response —n (%)                  |                   |
| Complete response                     | 7 (26.9)          |
| Partial response                      | 15 (57.7)         |
| Stable disease                        | 4 (15.4)          |
| Progressive disease                   | 0                 |
| Could not be evaluated                | 0                 |
| CNS duration of response              |                   |
| Median —mo (95% CI)                   | 9.4 (7.4-15.3)    |
| Censoring rate (%)                    | 27.3              |
| 1-yr DoR— % (95% CI)                  | 36.1 (16.4, 56.4) |
| 2-yr DoR— % (95% CI)                  | 20.6 (6.5, 40.2)  |
| Median duration of follow-up—mo       | 25.8              |



# LIBRETTO-001: Adverse Events in NSCLC Safety Population

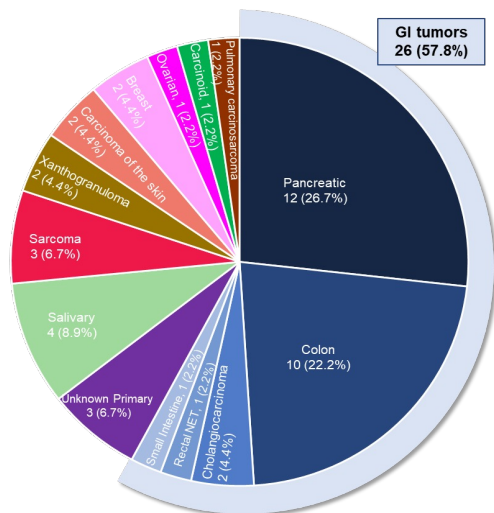
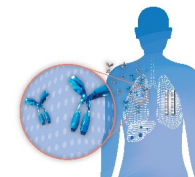


|                                   | Any Causality |            | Related to Treatment |            |
|-----------------------------------|---------------|------------|----------------------|------------|
|                                   | Any Grade     | Grade ≥3   | Any Grade            | Grade ≥3   |
| N=356, n (%)                      |               |            |                      |            |
| Patients with ≥1 AE               | 356 (100.0)   | 263 (73.9) | 341 (95.8)           | 143 (40.2) |
| <i>Edema</i>                      | 178 (50.0)    | 2 (0.6)    | 124 (34.8)           | 2 (0.6)    |
| <i>Diarrhea</i>                   | 184 (51.7)    | 15 (4.2)   | 114 (32.0)           | 8 (2.2)    |
| <i>Fatigue</i>                    | 153 (43.0)    | 8 (2.2)    | 78 (21.9)            | 3 (0.8)    |
| <i>Dry Mouth</i>                  | 163 (45.8)    | 0          | 151 (42.4)           | 0          |
| <i>Hypertension (AESI)</i>        | 141 (39.6)    | 68 (19.1)  | 95 (26.7)            | 49 (13.8)  |
| <i>AST increased</i>              | 149 (41.9)    | 37 (10.4)  | 122 (34.3)           | 24 (6.7)   |
| <i>ALT increased</i>              | 147 (41.3)    | 53 (14.9)  | 120 (33.7)           | 41 (11.5)  |
| <i>Abdominal pain</i>             | 101 (28.4)    | 5 (1.4)    | 28 (7.9)             | 1 (0.3)    |
| <i>Constipation</i>               | 96 (27.0)     | 5 (1.4)    | 34 (9.6)             | 2 (0.6)    |
| <i>Rash</i>                       | 130 (36.5)    | 4 (1.1)    | 83 (23.3)            | 4 (1.1)    |
| <i>Nausea</i>                     | 112 (31.5)    | 4 (1.1)    | 40 (11.2)            | 2 (0.6)    |
| <i>Blood creatinine increased</i> | 92 (25.8)     | 10 (2.8)   | 50 (14.0)            | 1 (0.3)    |
| <i>Headache</i>                   | 94 (26.4)     | 3 (0.8)    | 23 (6.5)             | 0          |
| <i>Cough</i>                      | 87 (24.4)     | 0          | 9 (2.5)              | 0          |
| <i>Dyspnea</i>                    | 84 (23.6)     | 16 (4.5)   | 10 (2.8)             | 0          |
| <i>Vomiting</i>                   | 78 (21.9)     | 4 (1.1)    | 19 (5.3)             | 2 (0.6)    |
| <i>ECG QT prolongation (AESI)</i> | 74 (20.8)     | 21 (5.9)   | 57 (16.0)            | 14 (3.9)   |
| <i>Thrombocytopenia</i>           | 74 (20.8)     | 20 (5.9)   | 52 (14.6)            | 13 (3.7)   |
| <i>Decreased appetite</i>         | 73 (20.5)     | 1 (0.3)    | 34 (9.6)             | 0          |
| <i>Pyrexia</i>                    | 79 (22.2)     | 1 (0.3)    | 21 (5.9)             | 1 (0.3)    |
| Urinary tract infection           | 70 (19.7)     | 8 (2.2)    | 2 (0.6)              | 0          |

- Safety profile consistent as previously observed
- Of the 34 (9.6%) patients who discontinued due to AE, 11 (3.1%) were deemed related to study treatment per the investigator

The total percentage for any given adverse event may be different than the sum of the components for the individual grades because of rounding. The table includes adverse events which occurred in ≥20% of patients. Composite terms which are comprised of preferred terms are shown in italics. <sup>a</sup>In total, 24 (6.7%) patients had grade 5 TEAEs, including respiratory failure, (in 6 each), cardiac arrest (in 4 each), pneumonia, sepsis, cerebral hemorrhage (in 2 each), multiple organ dysfunction syndrome, sudden death, somnolence, dyspnea, hypoxia, corona virus infection, acute respiratory failure, and cardio-respiratory arrest (in 1 each). <sup>b</sup>No grade 5 TRAEs were observed.

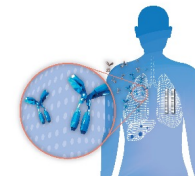
# LIBRETTO-001 – Tumor Agnostic Indication



| Tumor Type               | Patients (n=41) | ORR by IRC      |           | DOR Range (months) |
|--------------------------|-----------------|-----------------|-----------|--------------------|
|                          |                 | n (%)           | 95% CI    |                    |
| Pancreatic               | 11              | 6 (55%)         | 23%, 83%  | 2.5, 38.3+         |
| Colon                    | 10              | 2 (20%)         | 2.5%, 56% | 5.6, 13.3          |
| Salivary                 | 4               | 2 (50%)         | 7%, 93%   | 5.7, 28.8+         |
| Unknown primary          | 3               | 1 (33%)         | 0.8%, 91% | 9.2                |
| Breast                   | 2               | PR, CR          | NA        | 2.3+, 17.3         |
| Sarcoma                  | 2               | PR, SD          | NA        | 14.9+, NA          |
| Xanthogranuloma          | 2               | NE <sup>a</sup> | NA        | NA                 |
| Carcinoid                | 1               | PR              | NA        | 24.1+              |
| Carcinoma of the skin    | 1               | NE              | NA        | NA                 |
| Cholangiocarcinoma       | 1               | PR              | NA        | 5.6+               |
| Ovarian                  | 1               | PR              | NA        | 14.5+              |
| Pulmonary carcinosarcoma | 1               | NE              | NA        | NA                 |
| Rectal neuroendocrine    | 1               | NE              | NA        | NA                 |
| Small intestine          | 1               | CR              | NA        | 24.5               |

# ARROW study design

A multi-cohort, open-label, phase 1/2 study



## Eligibility criteria

- Age  $\geq 18$  years
- Advanced or metastatic solid tumor
- *RET* alteration per local assessment
- Measurable disease (RECIST v1.1)
- ECOG PS 0–1\*

## Protocol amendment (July 2019)

Eligibility criteria were expanded to allow treatment-naïve patients with NSCLC who were candidates for platinum-based therapy

## Phase 1 dose escalation (Completed)

Phase 2 dose determined:  
400 mg QD



## Phase 2 dose expansion Treated at 400 mg QD



### 1° endpoints:

- ORR (BICR per RECIST v1.1)
- Safety

### Key 2° endpoints:

- DOR
- CBR
- DCR
- PFS
- OS

*RET* fusion–positive NSCLC

Medullary thyroid cancer<sup>a</sup>

Other *RET*-altered tumors

\*Limited to 0-1 after protocol amendment

<sup>a</sup>Patients with medullary thyroid cancer did not require documented *RET* mutations for enrollment.

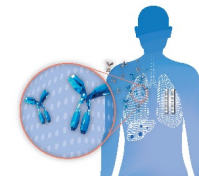
BICR, blinded independent central review; CBR, clinical benefit rate (CR or PR or SD of  $\geq 16$  weeks); CR, complete response; DCR, disease control rate (confirmed CR or PR or SD); DOR, duration of response;

ECOG PS, Eastern Cooperative Oncology Group performance status; NSCLC, non-small cell lung cancer; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; PR, partial response;

QD, once daily; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1; RET, rearranged during transfection; SD stable disease.



# ARROW Results – Summary of Efficacy

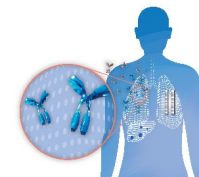


|  | Measurable disease population |                                    |  |  |
|--|-------------------------------|------------------------------------|--|--|
|  | All<br>(n=260)                | Treatment naïve                    |  | Prior platinum<br>treatment<br>(n=130) |
|  |                               | Pre-eligibility revision<br>(n=43) | Post eligibility<br>revision<br>(n=64) |  |
| <b>ORR, % (95% CI)</b>                             | 70.0 (64.0–75.5)              | 74.4 (58.8–86.5)                   | 79.7 (67.8–88.7)                       | 63.1 (54.2–71.4)                       |
| Complete response, n (%)                           | 15 (5.8)                      | 4 (9.3)                            | 3 (4.7)                                | 8 (6.2)                                |
| Partial response, n (%)                            | 167 (64.2)                    | 28 (65.1)                          | 48 (75.0)                              | 74 (56.9)                              |
|  | <b>n=182</b>                  | <b>n=32</b>                        | <b>n=51</b>                            | <b>n=82</b>                            |
| <b>Median DOR, months<br/>(95% CI)<sup>a</sup></b> | 19.1 (14.5–27.9)              | 14.7 (7.4–27.9)                    | 12.6 (9.4–NR)                          | 38.8 (14.8–40.4)                       |
| Median follow-up (95% CI)                          | 23.9 (21.4–27.6)              | 27.6 (21.2–30.2)                   | 17.4 (14.3–20.3)                       | 29.3 (24.1–33.1)                       |

The measurable disease population was the primary population for analysis of ORR and DOR.

<sup>a</sup>DOR for the measurable disease population per FDA censoring rule

# ARROW Results – Central Nervous System (CNS)



|  | All (n=15)       |
|--|------------------|
| <b>CNS ORR, % (95% CI)</b>                     | 53.3 (26.6–78.7) |
| Complete response, n (%)                       | 3 (20.0)         |
| Partial response, n (%)                        | 5 (33.3)         |
|  | n=8              |
| <b>Median DOR, months (95% CI)<sup>a</sup></b> | 11.5 (9.2–NR)    |
| Median follow-up (95% CI)                      | 29.7 (24.1–35.3) |

Of the 15 patients, 14 had prior platinum treatment and 1 was treatment naïve. <sup>a</sup>Per EMA censoring rule.

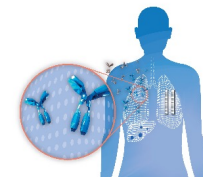
# Safety

- In the safety population (n=281), median treatment duration was 15.0 months with a median relative dose intensity of 86.1%
- Overall, 10% of patients discontinued pralsetinib due to treatment-related adverse events (TRAEs)

| n=281, n (%)                     | Any causality |           | Treatment related |           |
|----------------------------------|---------------|-----------|-------------------|-----------|
|                                  | Any grade     | Grade ≥3  | Any grade         | Grade ≥3  |
| Anaemia                          | 151 (53.7)    | 65 (23.1) | 119 (42.3)        | 55 (19.6) |
| AST increased                    | 137 (48.8)    | 18 (6.4)  | 125 (44.5)        | 11 (3.9)  |
| Constipation                     | 125 (44.5)    | 2 (<1)    | 76 (27.0)         | 2 (<1)    |
| Hypertension                     | 103 (36.7)    | 50 (17.8) | 75 (26.7)         | 39 (13.9) |
| ALT increased                    | 101 (35.9)    | 13 (4.6)  | 92 (32.7)         | 9 (3.2)   |
| Neutrophil count decreased       | 88 (31.3)     | 40 (14.2) | 87 (31.0)         | 37 (13.2) |
| Diarrhoea                        | 84 (29.9)     | 7 (2.5)   | 50 (17.8)         | 3 (1.1)   |
| Cough                            | 81 (28.8)     | 1 (<1)    | 15 (5.3)          | 1 (<1)    |
| Pyrexia                          | 81 (28.8)     | 2 (<1)    | 22 (7.8)          | 0         |
| White blood cell count decreased | 77 (27.4)     | 16 (5.7)  | 74 (26.3)         | 15 (5.3)  |
| Fatigue                          | 75 (26.7)     | 6 (2.1)   | 46 (16.4)         | 5 (1.8)   |
| Blood creatinine increased       | 70 (24.9)     | 2 (<1)    | 48 (17.1)         | 1 (<1)    |
| Neutropenia                      | 64 (22.8)     | 30 (10.7) | 60 (21.4)         | 26 (9.3)  |
| Dyspnoea                         | 62 (22.1)     | 8 (2.8)   | 5 (1.8)           | 1 (<1)    |
| Pneumonia                        | 56 (19.9)     | 36 (12.8) | 18 (6.4)          | 12 (4.3)  |

The table includes AEs which occurred in ≥20% of patients. AE, adverse event; AST, aspartate aminotransferase; ALT, alanine aminotransferase.

Slides adapted from data presented at ESMO Congress, September 9–13, 2022



## Conclusion on RET Inhibitors

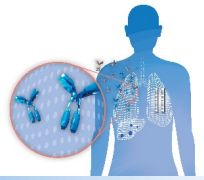
- Pralsetinib and selpercatinib both have shown durable clinical activity in patients with *RET* fusion-positive advanced NSCLC with acceptable safety profiles

|                       | Pralsetinib (BLU-667)<br>(N=87, 27) | Selpercatinib (LOXO-292)<br>(n=316) |
|-----------------------|-------------------------------------|-------------------------------------|
| ORR (prior platinum)  | 63% (n=130)                         | 61% (n=247)                         |
| ORR (naive)           | 77.0% (n=130)                       | 84% (n=69)                          |
| DOR (prior platinum)  | 38.8                                | 28.6 months                         |
| DOR (naive)           | 19.1 months                         | 20.2 months                         |
| Active in CNS met     | Yes                                 | Yes                                 |
| ORR CNS               | 53.3% (n=15)                        | 84.6% (n=26)                        |
| Safety profile        | Most AEs G1/2                       | Most AEs low grade                  |
| Discontinuation TRAEs | 6%                                  | 2%                                  |

- Pralsetinib and selpercatinib: both FDA approved for treatment of advanced *RET* fusion-positive NSCLC

## Some of the issues we did not have time to discuss today.....

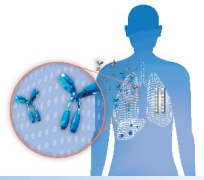
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- Mechanisms of acquired resistance
- Repeat molecular testing at PD
- Met inhibitors in met-amplified/met+ patients
- Next Generation Inhibitors

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- Mechanisms of acquired resistance
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# Thank you