



ARRIVENT

**A Late-Stage Company With a Global
Oncology Pipeline**

PACC Update
June 23, 2025



Forward Looking Statements

This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 and other federal securities laws. These statements include, but are not limited to, implied and express statements about our strategy, business plans and objectives for our programs; plans and timelines for the preclinical and clinical development of our product candidates, including the therapeutic potential, clinical benefits and safety profiles of such product candidates; expectations regarding timing, success and data announcements of ongoing and planned preclinical studies and clinical trials, statements regarding our future results of operations or financial condition, business strategy and plans, cash runway, estimates of the commercial market for our current and future product candidates, including the potential market opportunity of firmonertinib as monotherapy or in combination, activity of firmonertinib compared to available therapies, anticipated timing and success of potential milestones, including an update of our study of firmonertinib in patients with NSCLC EGFR PACC mutations, top-line pivotal Phase 3 data for firmonertinib in previously untreated NSCLC patients whose tumors contain EGFR exon 20 insertion mutations, initiation of clinical studies for our ADC candidates; and the initiation of a Phase 1b dose expansion cohort in our study of firmonertinib in 2L+ NSCLC EGFR with classical mutations in combination with SHP2i ICP-189; our plans to develop and commercialize our current and any future product candidates and the implementation of our business model and strategic plans for our business, current and any future product candidates. All statements other than statements of historical facts contained in this presentation, including express or implied statements regarding our strategy, future financial condition, expected cash runway, future operations, projected costs, prospects, plans, objectives of management and expected market growth, are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as “anticipate,” “assume,” “believe,” “could,” “estimate,” “expect,” “goal,” “intend,” “may,” “milestones,” “objective,” “plan,” “predict,” “potential,” “seek,” “should,” “target,” “will,” “would” and other similar expressions that are predictions of or indicate future events and future trends, or the negative of these terms or other comparable terminology. Forward-looking statements are based on ArriVent’s current expectations and are subject to inherent uncertainties, risks and assumptions that are difficult to predict. Factors that could cause actual results to differ include, but are not limited to, risks and uncertainties that are described more fully in the section titled “Risk Factors” in our annual report on Form 10-K for the fiscal year ended December 31, 2024, filed with the Securities and Exchange Commission on March 3, 2025 and our other filings with the Securities and Exchange Commission. You should not rely upon forward-looking statements as predictions of future events. In addition, statements that “we believe” and similar statements reflect our beliefs and opinions on the relevant subject and are based on information available to us as of the date of this presentation. Although we believe such information forms a reasonable basis for the expectations reflected in the forward-looking statements, such information may be limited or incomplete, and we cannot guarantee that the future results, levels of activity, performance or events and circumstances reflected in the forward-looking statements will be achieved or occur. We undertake no obligation to update publicly any forward-looking statements for any reason after the date of this presentation to conform these statements to new information, actual results or to changes in our expectations, except as required by law.

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Agenda

ArriVent Overview

Dr. Bing Yao
Co-Founder, Chairman and CEO,
ArriVent

Background on NSCLC EGFR PACC Mutations

Dr. Stuart Lutzker
Co-Founder, President of R&D
ArriVent

Firmonertinib Global Phase 1b PACC Data Update and
Plans for Pivotal Study

Dr. Stuart Lutzker
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Next Steps and Upcoming Milestones

Dr. Bing Yao
Co-Founder, Chairman and CEO,
ArriVent



Accelerating a differentiated oncology pipeline built through strategic partnerships with innovative companies globally



Lead program firmonertinib with Breakthrough Therapy Designation in 1L EGFR Exon 20 insertion mutant NSCLC



Firmonertinib near-term catalysts include topline results in registrational 1L EGFR Exon 20 insertion mutant NSCLC study expected in 2025



Further expansion of firmonertinib into a pivotal trial for 1L EGFR PACC mutant NSCLC reinforced by positive clinical data



Next-generation ADC portfolio advancing with an IND filed this year with others expected starting in 2026

ArriVent BioPharma: A Late-Stage Company With a Global Oncology Pipeline

Robust Pipeline to Maximize Impact Across Indications and Geographies

Program	Target Indication	Discovery	Preclinical	Phase 1	Phase 2	Phase 3	ArriVent Rights	Partner
Firmonertinib EGFR TKI	1L NSCLC EGFR Exon 20 Insertion Mutations* BTD	Monotherapy					Global-Ex China	ALLIST
	1L+ NSCLC EGFR PACC Mutations+	Monotherapy					Global-Ex China	ALLIST
	Adjuvant EGFR Uncommon Mutations	Monotherapy					Global-Ex China	ALLIST
	2L+ NSCLC EGFR Classical Mutations#	Combination with SHP2					Global-Ex China	INNO CARE
ARR-217 CDH17 ADC	GI Tumors						Global-Ex China	乐普生物 LEPU BIOPHARMA
ARR-002 ADC	Solid Tumors						Global	AARVIK THERAPEUTICS
ARR-421 ADC	Solid Tumors						Global-Ex China	康宁杰瑞 ALPHAMAB ONCOLOGY
ARR-173 ADC	Solid Tumors						Global-Ex China	康宁杰瑞 ALPHAMAB ONCOLOGY

NSCLC: non-small cell lung cancer; EGFR: epidermal growth factor receptor; PACC: P-loop and alpha-c helix compressing; Allist: Shanghai Allist Pharmaceuticals Company, Ltd.; InnoCare: Beijing InnoCare Pharma Tech Co., Ltd.; Aarvik: Aarvik Therapeutics, Inc.; Lepu Biopharma: Lepu Biopharma Co., Ltd.; Alphamab Oncology: Jiangsu Alphamab Biopharmaceuticals, Co., LTD; 1L: First-line therapy; 1L+: Treatment naïve and previously treated with non-TKI therapies; 2L+: Second-line or greater therapy; SHP2i: SHP2 inhibitor. BTD: FDA Breakthrough Therapy Designation; *The investigation of firmonertinib for the first-line treatment of NSCLC EGFR exon 20 insertion mutations is based on the ongoing FAVOUR Phase 1b study conducted by Allist and the ongoing FURVENT Phase 3 study. These studies are not yet complete, and no Phase 2 study has been conducted for this indication.+The ongoing FURTHER Phase 1b study investigating firmonertinib for the treatment of EGFRm NSCLC includes cohorts with PACC mutations (first-line or greater) and exon 20 insertion mutations (second-line or greater). # The evaluation of firmonertinib in combination with SHP2i for the second-line or greater treatment of EGFRm NSCLC is based on the ongoing Phase 1b study in collaboration with InnoCare.



**Background on NSCLC EGFR
PACC Mutations**

Dr. Stuart Lutzker

Firmonertinib: A Broadly Active Phase 3 EGFR Inhibitor Advancing Globally

Attractive Properties with Therapeutic Potential

Active across both classical and uncommon EGFR mutations at drug levels obtainable in patients
Highly brain penetrant, unlike many currently available therapies
Orally bioavailable with pharmacokinetics to support once a day dosing

Well-characterized Clinically

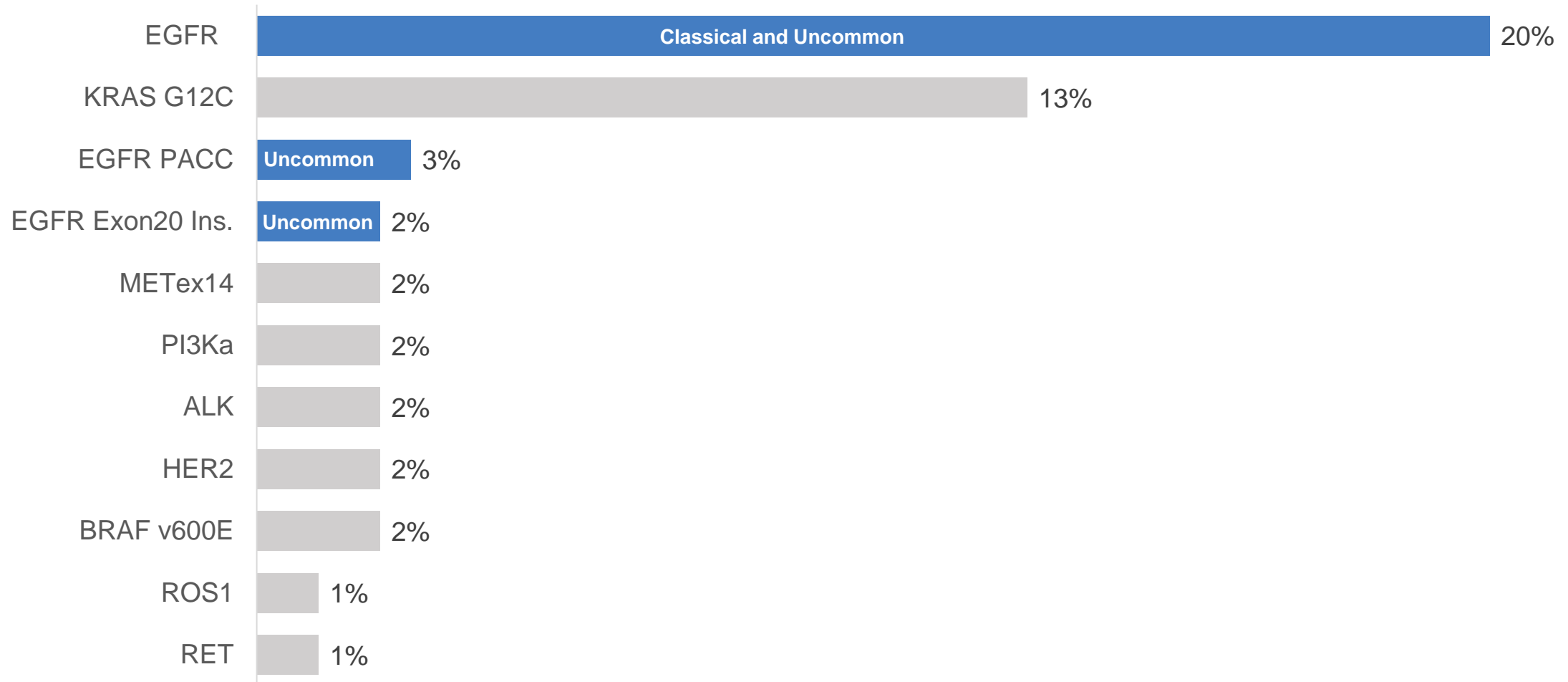
Approved in China for EGFR classical mutations
Proof of concept in EGFR Exon 20 insertion mutations with FDA Breakthrough Therapy Designation
Proof of concept in EGFR PACC mutations
Anti-tumor activity against brain metastases
Generally well-tolerated in 1,000+ patients in clinical trials across multiple dose levels

Broad Global Clinical Development

Completed enrollment of global pivotal Phase 3 in 1L NSCLC Exon 20 insertion mutation as a chemo-free monotherapy
Initiating global pivotal Phase 3 in 1L NSCLC PACC mutations
Clinical combination study with SHP2i in classical mutations ongoing
Global adjuvant study in EGFR uncommon mutations initiated in China, which we intend to join based on results obtained from currently ongoing clinical trials

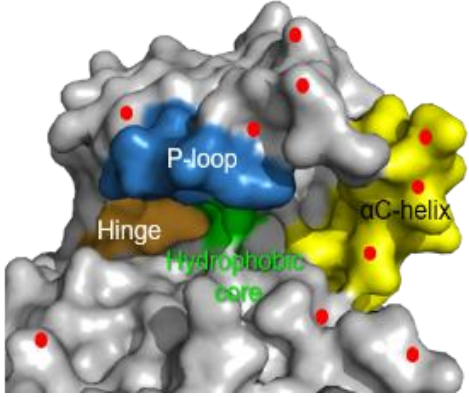
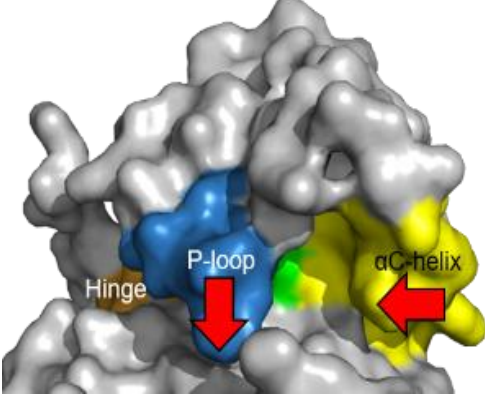
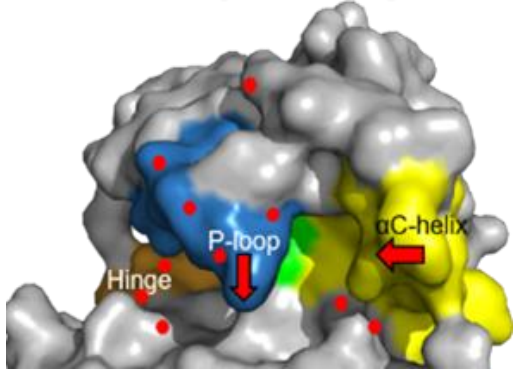
EGFR Mutations Are the Most Prevalent Actionable Oncogenic Driver in NSCLC

Prevalence of Oncogenic Drivers in Non-Squamous NSCLC



PACC = P-loop and α C-helix compressing mutations. Patient numbers in the graph represent global populations excluding China. Source: Values in graph based on approximate molecular alteration frequencies in non-squamous NSCLC from the AACR gene version 12.0 dataset (N=19,777) as of December 1, 2022. Participating institutions include academic centers in Western countries. This graph only includes alterations predictive of response to an FDA-approved drug in locally advanced or metastatic NSCLC. Adapted from Robichaux et al, Nature, 2021.

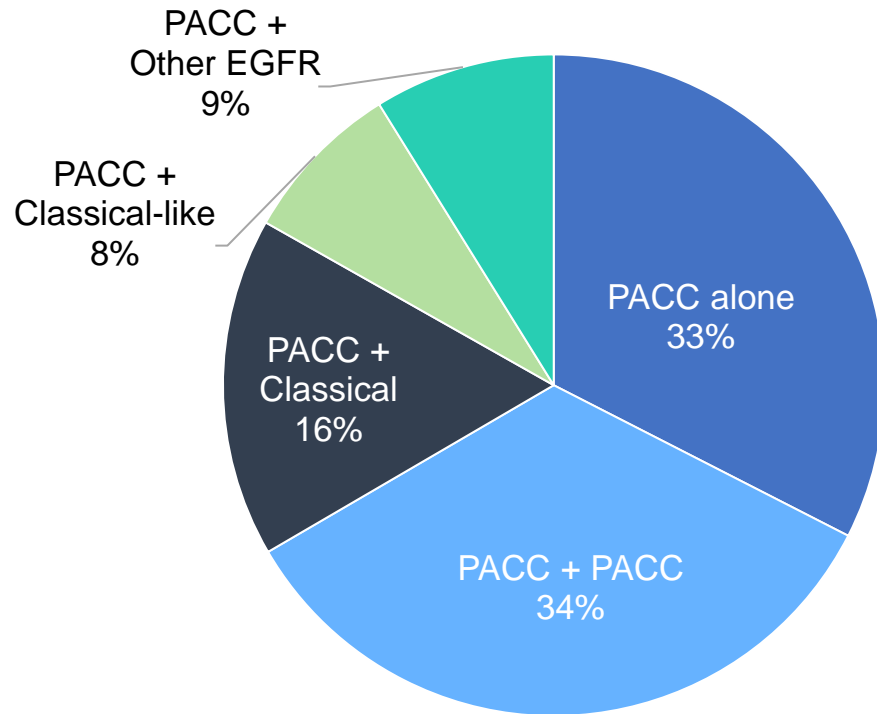
Firmonertinib is Broadly Active Across EGFR Mutations

	Classical / Classical-like (e.g., L861Q)	Exon 20 Insertions	P-loop and α C-helix Compressing (PACC)
	 <p>Drug binding pocket not impacted</p>	 <p>Indirect and substantial impact on drug binding pocket</p>	 <p>Direct and indirect impact on drug binding pocket</p>
Firmonertinib activity	✓	✓	✓

**Firmonertinib has a unique structure that improves binding across EGFR mutations versus EGFR WT
 Firmonertinib's major metabolite (AST5902) has similar selectivity and potency as firmonertinib**

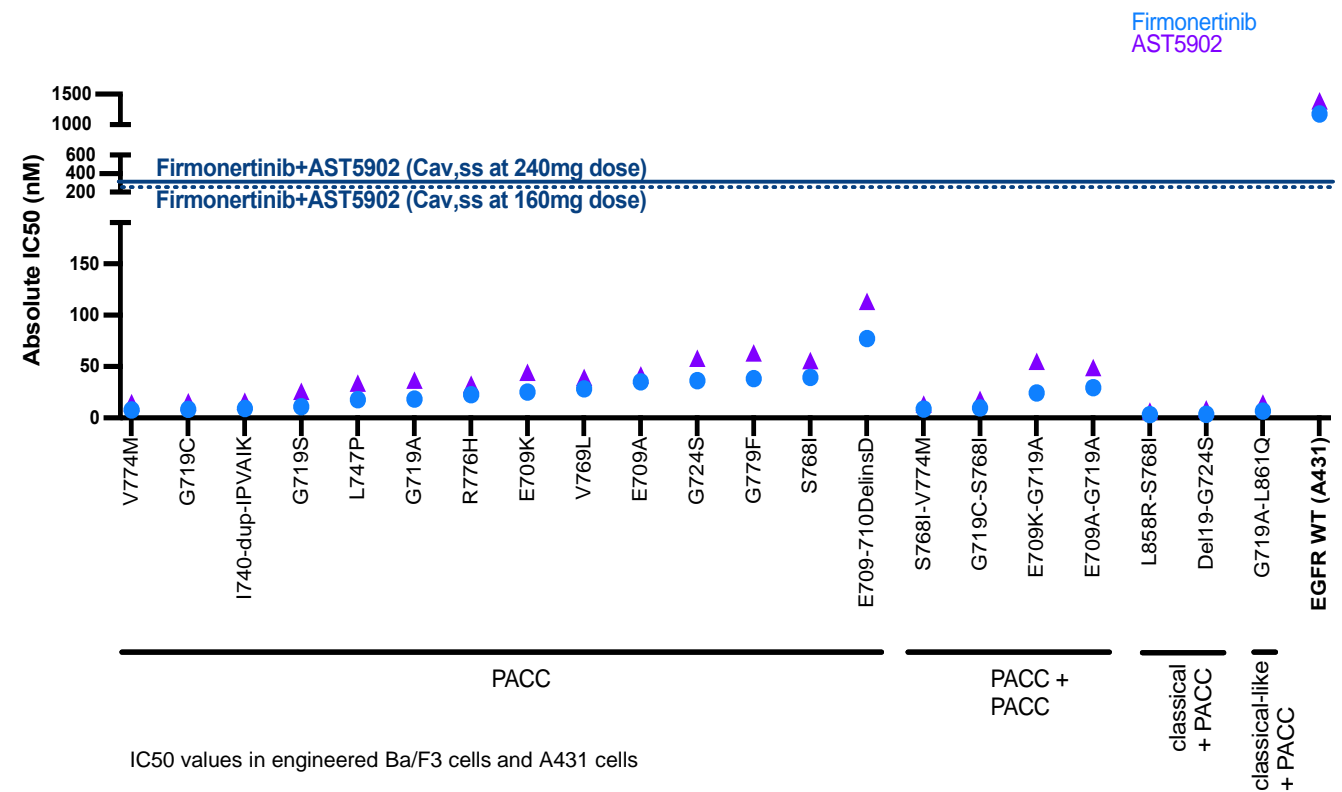
Firmonertinib is Active Against Both Single and Compound PACC Mutations

PACC mutations can be single or co-exist with other EGFR mutations (compound mutations)



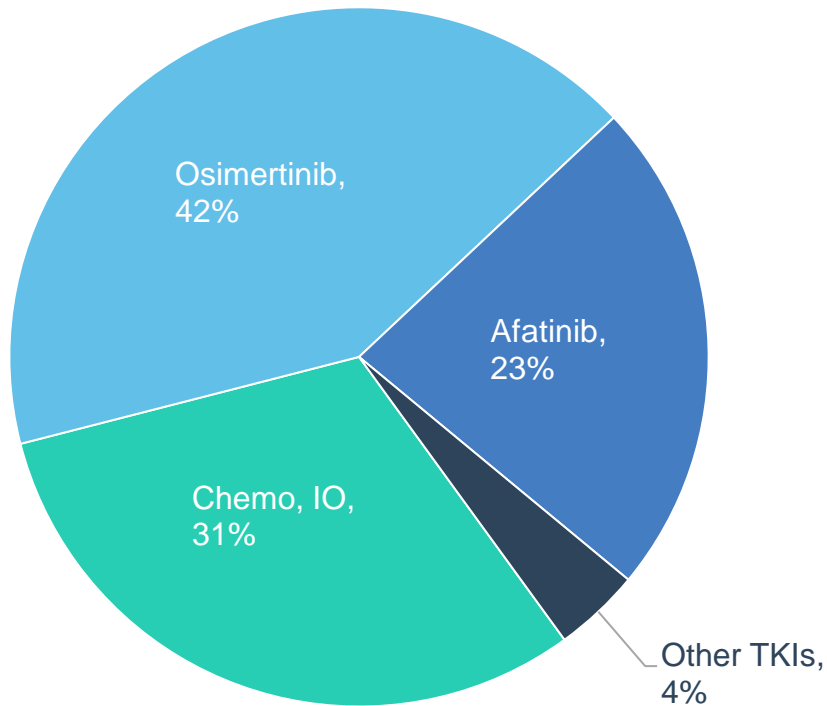
Excludes C797S mutations.
 Classical includes (exon 19 deletions, L858R).
 Classical-like includes L861Q, L833V, T725M, and other mutations.
 Other includes other EGFR mutations, including those in the extracellular and transmembrane domain, as well as in exons 22-31.
 Analysis based on PACC mutation data from AACR GENIE v13 in patients with NSCLC (N = 470).

Patient drug levels exceed IC50 values across representative PACC mutations



PACC Mutant NSCLC Patients Have Relatively Poor Treatment Outcomes

Treatment patterns for 1L PACC Mutant Patients in the US



Prospective Clinical Trial Benchmarks for EGFR-TKI

Agent	Study	# of Patients	Mutations ¹	mPFS (months)
Osimertinib	UNICORN (2023)	40	includes 20% (8/40) single L861Q	9.4 ²
Afatinib	ACHILLES (2023)	73 (afatinib arm)	includes 18.3% (20/109) single L861Q	10.6

¹UNICORN and ACHILLES studies enrolled patients with L861Q (classical-like) single mutations which are non-PACC mutations

²In UNICORN study L861Q single mutation patients had longer mPFS (mPFS 22.7 months) than the overall population

Osimertinib is preferred over afatinib nearly 2:1 in the US potentially due to poor afatinib tolerability¹

mPFS for PACC population in US is potentially 7.5-10 months with available EGFR-TKI



**Firmonertinib Global Phase 1b
PACC Data Update and Plans
for Pivotal Study**

Dr. Stuart Lutzker

FURTHER: A Global Phase 1b Study Evaluating Firmonertinib Monotherapy in NSCLC EGFR PACC Mutations (NCT05364073)

Stage 2 Cohort 4 Dose Expansion

Key Eligibility Criteria:

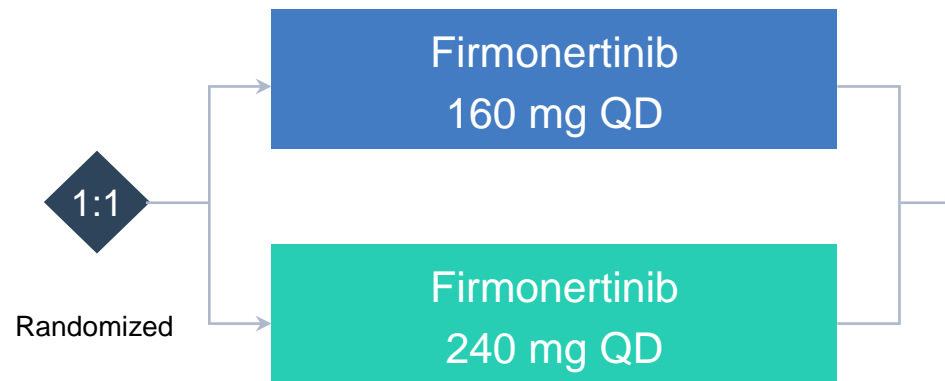
- Locally advanced or metastatic NSCLC with *EGFR* PACC mutations
- No prior EGFR TKI treatment
- Asymptomatic brain metastases without prior radiation therapy allowed

Stratification:

Prior Treatment (Y/N)

Contains G719X or S768I (Y/N)

N=60



Endpoints

Primary endpoints:

Overall Response Rate
ORR (by BICR)

Key secondary endpoints:

Duration of response, CNS
ORR, PFS, OS

FURTHER Study PACC Cohort was Typical of EGFR Mutant NSCLC and Primarily 1L Patients

	All PACC Patients		1L PACC Patients	
	160 mg QD N=31	240 mg QD N=29	160 mg QD N=25	240 mg QD N=22
Age (years), median (range)	65.0 (48-86)	68.0 (50-83)	67 (48-86)	67.5 (50-83)
Male / Female, %	32.3 / 67.7	34.5 / 65.5	40.0 / 60.0	36.4 / 63.6
ECOG 0 / 1, %	29.0 / 71.0	27.6 / 72.4	32.0 / 68.0	27.3 / 72.7
Brain Metastases*, %	32.3	34.5	28.0	31.8
Non-smoker / Former or Current Smoker, %	64.5 / 35.5	79.3 / 20.7	76.0 / 24.0	86.4 / 13.6
Race: Asian / White / Other, %	71.0 / 22.6 / 6.5	72.4 / 20.7 / 6.9	80.0 / 20.0 / 0	77.3 / 13.6 / 9.1
Prior Treatment Type, %				
Chemotherapy / Immunotherapy	16.1% / 3.2%	17.2% / 13.8%	4.0% / 0	0/ 4.5%**

High incidence of brain metastases typical of EGFR mutant NSCLC

Data as of Mar 24, 2025

13

*History or presence of brain metastases

**one patient had prior Recombinant Mutant Human Tumor Necrosis Factor(adjuvant therapy)

ECOG = Eastern Cooperative Oncology Group



Firmonertinib Showed Strong Confirmed Overall Responses (BICR) for 1L PACC

	Blinded, Independent Central Review (BICR) ¹		Investigator (INV) ¹	
	160 mg QD N = 23	240 mg QD N = 22	160 mg QD N = 25	240 mg QD N = 22
Best ORR, % (95% CI) ²	52.2 (30.6 – 73.2)	81.8 (59.7 – 94.8)	56.0 (34.9 – 75.6)	86.4 (65.1 – 97.1)
Confirmed ORR, % (95% CI)	43.5 (23.2 – 65.5)	68.2* (45.1 – 86.1)	56.0 (34.9 – 75.6)	68.2 (45.1 – 86.1)
DCR (CR+PR+SD), % (95% CI)	91.3 (72.0 – 98.9)	100 (84.6 – 100)	92.0 (74.0 – 99.0)	100 (84.6 – 100)
mDoR, % (95% CI)	NA (9.9, NA)	14.6 (8.3, NA)	NA (11.2, NA)	NA (NA, NA)

*Confirmed ORR at 240 mg (BICR): 60% (6/10) single PACC and 75% (9/12) compound PACC

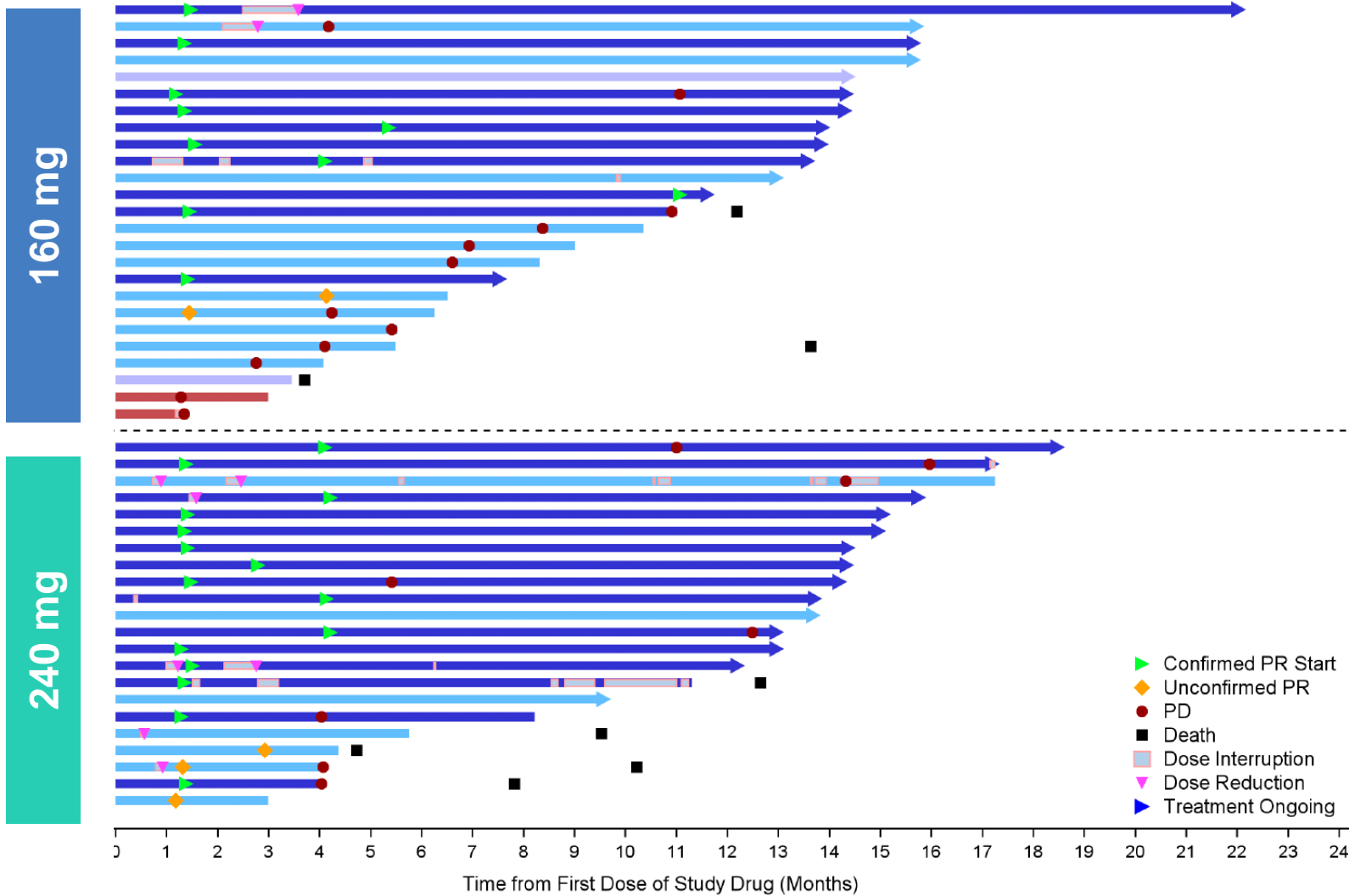
¹ Received ≥ 1 dose; have at least 1 measurable lesion at baseline as assessed by BICR or INV using RECIST v1.1

² includes confirmed and unconfirmed responses

Data as of Mar 24, 2025 for INV

Data as of Mar 3, 2025 for BICR

Majority of Patients Treated at 240 mg Remain on Study After 1 Year



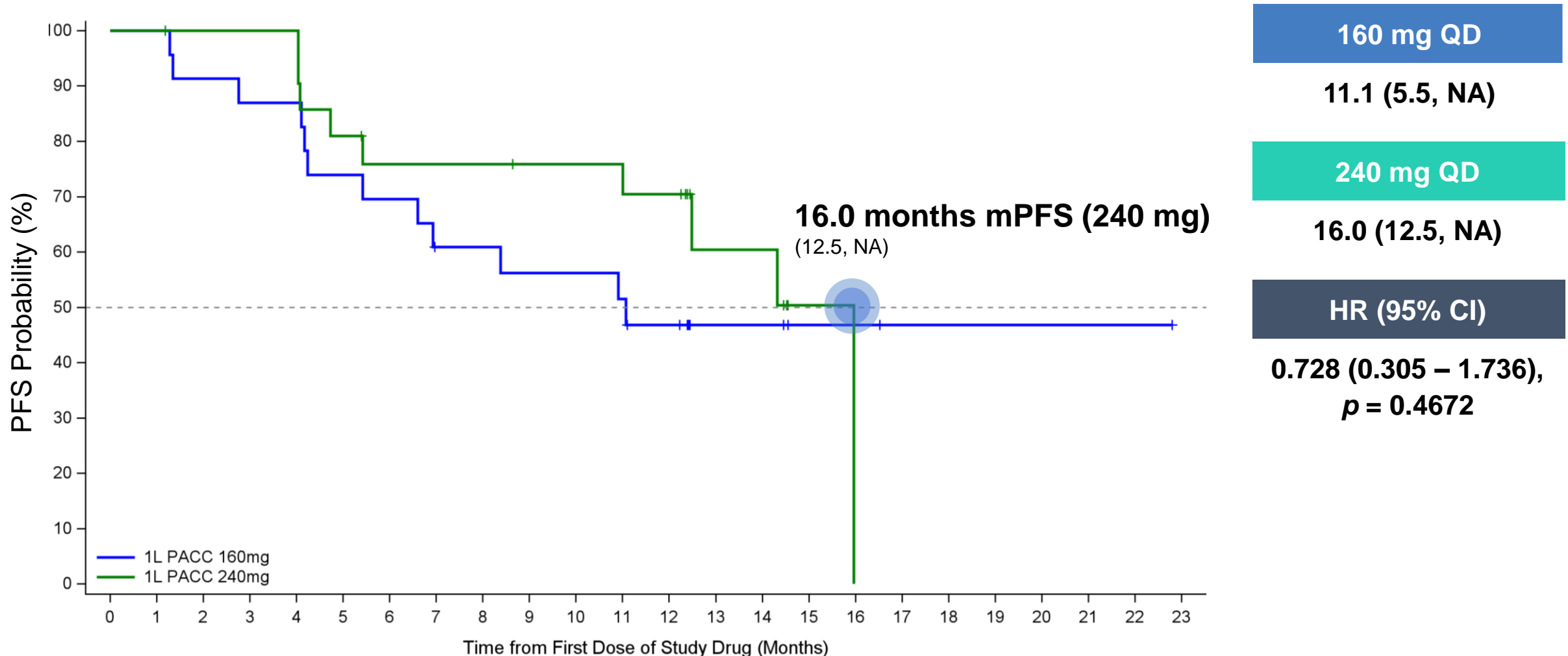
Dose interruptions are brief

Dose reductions are infrequent and occur early facilitating patient management

- ▶ Confirmed PR Start
- ◆ Unconfirmed PR
- PD
- Death
- ▭ Dose Interruption
- ▼ Dose Reduction
- ▶ Treatment Ongoing

Median PFS Exceeds Clinical Trial Benchmarks for 1L EGFR PACC Mutant NSCLC

PFS HR favors 240 mg as the optimal dose for Phase 3



Firmonertinib: CNS Activity Including Complete CNS Responses in PACC Cohort

CNS activity may be beneficial in delaying need for brain radiation

CNS ORR

53% (9/17)

In CNS evaluable disease patients from PACC cohort¹

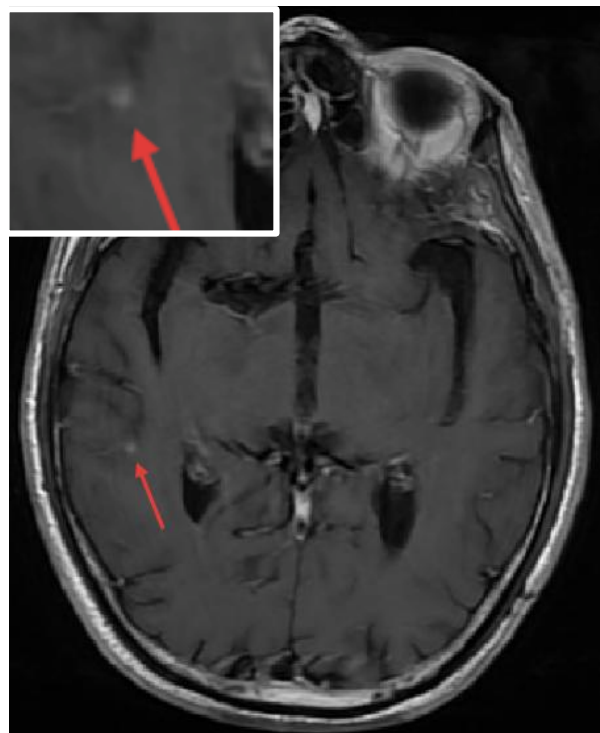
CNS CR

41% (7/17)

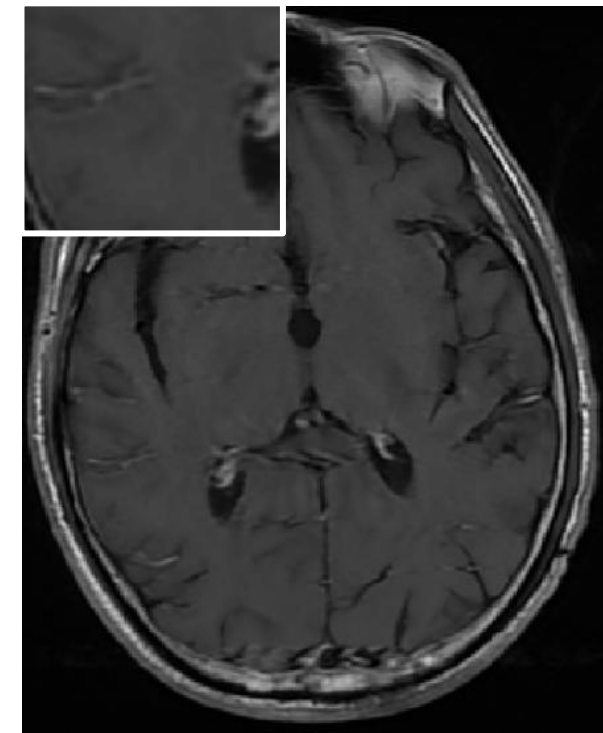
Case Study

- 68 yo male with newly diagnosed EGFR PACC mutant² metastatic NSCLC
- Multiple asymptomatic non-target (<1 cm) CNS metastases detected on baseline MRI
- Randomized to firmonertinib 240 mg QD
- Achieved a CNS CR by BICR at cycle 4
- Remains on study at cycle 18 (54 weeks) without CNS progression³

Baseline MRI
Non-Target CNS Lesion



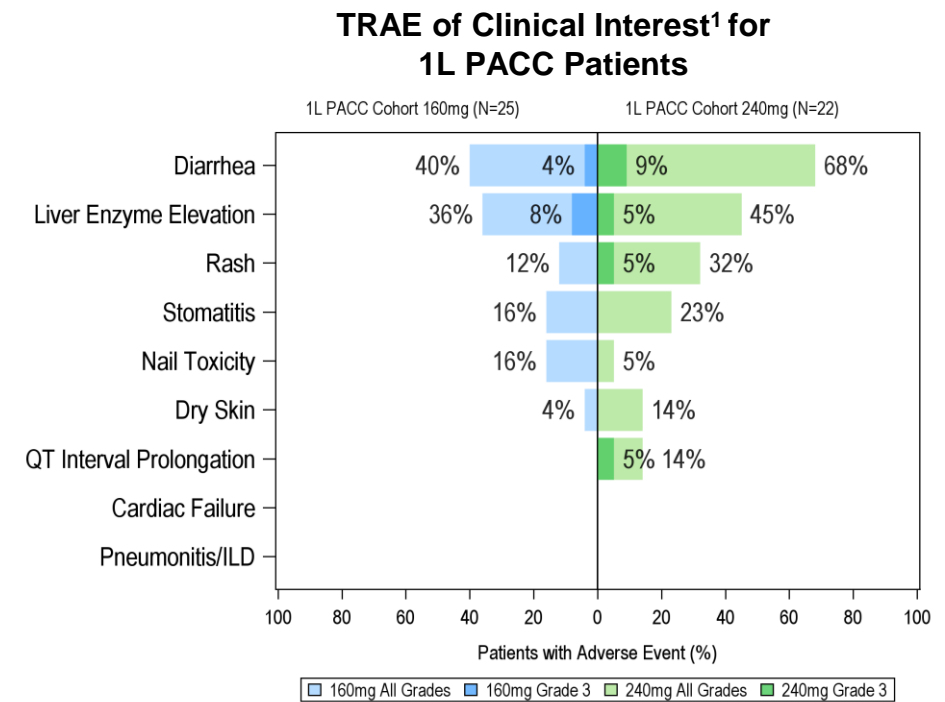
Week 12 MRI
CNS lesion not detected



Firmonertinib Continues to Show a Manageable Safety Profile in PACC Patients After Longer Follow Up

Number of Patients (%)	All PACC Patients		1L PACC	
	160 mg (N=31)	240 mg (N=29)	160 mg (N=25)	240 mg (N= 22)
TRAEs any grades	28(90.3)	27(93.1)	22(88.0)	20(90.9)
TRAEs Grade ≥3	7(22.6)	6(20.7)	5(20.0)	5(22.7)
Treatment-related SAEs	1(3.2)	1(3.4)	0	1(4.5)
TRAEs leading to fatal outcome	0	0	0	0
TRAEs leading to dose interruption	9(29.0)	11(37.9)	6(24.0)	8(36.4)
TRAEs leading to dose reduction	5(16.1)	7(24.1)	3(12.0)	5(22.7)
TRAEs leading to dose discontinuation	1(3.2)	0	1(4.0)	0
Duration of treatment (months) Mean (SD)	9.96 (5.22)	11.05 (4.58)	10.47 (5.18)	11.80 (4.81)
Relative Dose Intensity (%) Mean (SD)	92.0 (17.87)	89.6 (29.13)	93.9 (15.94)	91.2 (30.39)

Data as of Mar 24, 2025



- Includes all patients who have received ≥1 dose
 - No Grades 4-5 TRAEs observed
- ¹Based on group search terms

With longer treatment duration, overall safety profile remains consistent with EGFR-TKI class and previous data

Global Phase 1b PACC Study Results Support Advancing into Pivotal Study



Robust and durable responses in patients with EGFR PACC mutant NSCLC



Compelling CNS activity observed, including durable complete responses in brain metastases



Manageable safety profile consistent with previous studies



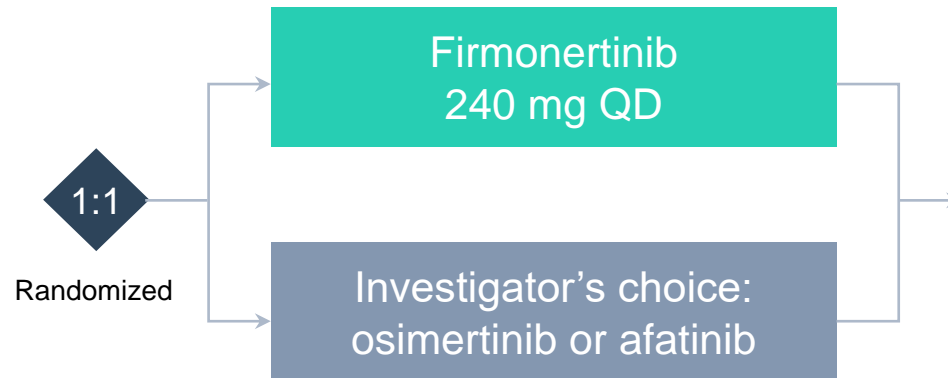
Advancing firmonertinib into a global pivotal registration study as an oral, chemo-free monotherapy

ALPACCA (FURMO-006): First Randomized Global Phase 3 Study in 1L PACC Mutations

Key Eligibility Criteria:

- PACC mutation*
- No prior therapy for metastatic disease and no prior EGFR-TKI
- Allows untreated brain metastases if clinically stable
- N=480

*Excludes Classical-like (ex. L861Q) unless compound with PACC



Endpoints:

Primary endpoints:

ORR (Interim Analysis) and PFS (Final Analysis) by BICR with RECIST v1.1

- Enrolls PACC mutant patients as a distinct patient group
- Control arm based on real-world EGFR-TKI usage
- FDA Project FrontRunner design provides an opportunity for accelerated approval



Next Steps and Upcoming Milestones

Dr. Bing Yao

Firmonertinib is an Attractive Opportunity in Uncommon EGFR Mutations

Advancing Treatment for Patients with Uncommon EGFR Mutations

**Metastatic
1L**

FURVENT
Exon 20 Insertions

ALPACCA
PACC

**Adjuvant
Stage I-III**

FIRMOST
Uncommon Mutations
(exon 20 insertions, PACC,
and classical-like)

Unmet Need

CNS-effective therapies that are better tolerated with more convenient administration

Firmonertinib Opportunity

Potential to be the first oral, chemo-free 1L therapy for Exon 20 insertion and PACC

- CNS penetration, tolerability profile, and oral form, we believe, are competitively advantageous to approved therapies
- Strong profile in 1L Exon 20 insertion and 1L PACC creates significant revenue potential in each indication, if approved
- Adjuvant uncommon EGFR-mutated NSCLC represents an attractive lifecycle option

Estimated Global
Patients (excl China)

~51K

~22K

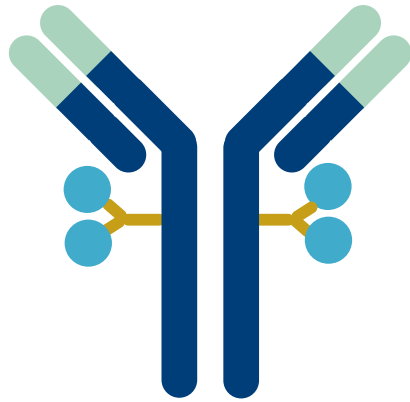
Estimated
Treatment Duration

~9 to 15 months

Up to 3 years

Our Next-Generation ADC Pipeline Advancing Toward Clinical Development

ARR-217 (MRG007)



Novel glyco-engineered
exatecan ADC

Zeng et al., AACR 2025; Abstract #2877

Improved linker-drug and conjugation technology

- ARR-217 targets CDH17 which is broadly over-expressed in GI malignancies (i.e., colorectal, gastric, pancreatic)
- Superior preclinical activity over conventional CDH17-DXd ADC
- IND approved in China¹
- US IND² planned in 2H 2025

Improved antibody platform

- IND for ARR-002 (tetravalent dual-target ADC³) planned for 2026
- Other novel ADC programs (ARR-421⁴, ARR-173⁴) continue to advance

¹IND filed by Lepu Biopharma who discovered MRG007

²IND to be filed by ArriVent BioPharma

³Discovered through collaboration with Aarvik

⁴Discovery program with Alphamab

Upcoming Anticipated Milestones

2025

Topline Pivotal Global Phase 3 FURVENT Data
in 1L EGFR **Exon 20** Insertion Mutant NSCLC

2H 2025

First Patient Enrolled in Global Phase 3 Registration Study
in 1L EGFR **PACC** Mutant NSCLC

2025

Participate in Global Phase 3 Registration Study
in Adjuvant **Uncommon** Mutant NSCLC

2H 2025

First Patient Enrolled in Phase 1 Study for **ARR-217 (MRG007)**
in GI Tumors