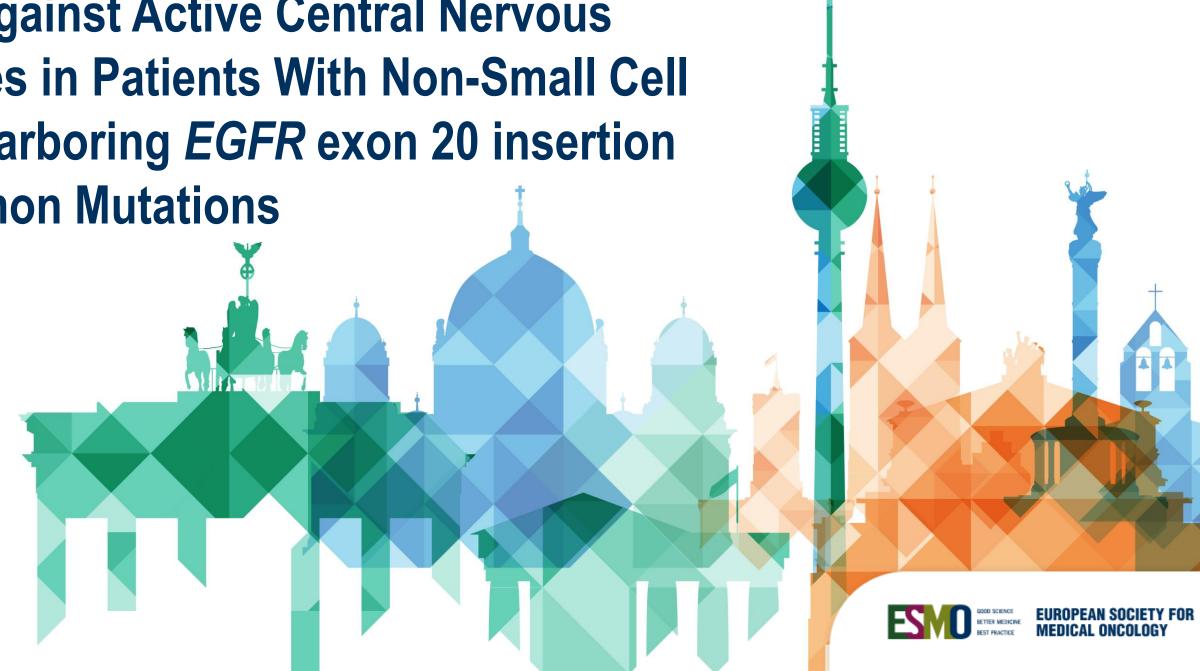


Activity of Zipalertinib Against Active Central Nervous System (CNS) Metastases in Patients With Non-Small Cell Lung Cancer (NSCLC) Harboring EGFR exon 20 insertion (ex20ins)/Other Uncommon Mutations

Dr. Helena Yu

October 2025



Declaration of Interests

Consulting or Advisory Role: AstraZeneca, Daiichi Sankyo, Blueprint Medicines, Janssen, C4 Therapeutics, Cullinan Oncology, Black Diamond Therapeutics, Taiho Oncology, AbbVie, Novocure, Takeda, Bristol Myers Squibb/Roche, Orion Clinical

Research Funding: AstraZeneca (Inst), Astellas Pharma (Inst), Lilly (Inst), Novartis (Inst), Pfizer (Inst), Daiichi Sankyo (Inst), Cullinan Oncology (Inst), Janssen Oncology (Inst), Erasca, Inc (Inst), Blueprint Medicines (Inst), Black Diamond Therapeutics (Inst), Systimmune (Inst)

Other Relationship: Astellas Pharma



Background

- CNS metastases in patients with NSCLC harboring EGFR mutations are associated with a poor prognosis¹
- Zipalertinib is an oral, highly selective, irreversible EGFR TKI that has demonstrated clinical activity against advanced/metastatic NSCLC harboring *EGFR* ex20ins mutations in a phase 1/2 trial, including in patients with CNS metastases²⁻⁴
- There are limited treatment options for patients with NSCLC harboring EGFR ex20ins mutations with CNS metastases⁵
- Here, we report preliminary results from Cohort C of the ongoing phase 2b REZILIENT2 trial (NCT05967689), focusing on patients with NSCLC harboring EGFR ex20ins or other uncommon mutations who have active newly diagnosed and/or progressing brain metastases and/or leptomeningeal disease



Zipalertinib Cohort for Patients With NSCLC Harboring Uncommon *EGFR* Mutations and Active CNS Metastases

Eligibility

- Age ≥18 years with locally advanced/metastatic NSCLC
- Documented ex20ins or other uncommon single or compound EGFR non-ex20ins mutations
- Measurable disease per RECIST v1.1/CNS per RANO-BM
- Active brain metastases: newly diagnosed and/or progressing brain lesions, without CNS targeted therapy and/or LMD
- ECOG PS 0–1
- Any line of prior therapy for advanced/metastatic disease

Endpoints (investigator assessed)

Primary:

• **ORR** per RECIST v1.1

Secondary:

- Intracranial ORR, intracranial DOR, and intracranial DCR per RANO-BM
- Safety
- Patients received zipalertinib 100 mg orally twice daily until progressive disease or meeting other discontinuation criteria
- Total of 32 patients enrolled, including 16 patients evaluable by RANO-BM (data cutoff: February 17, 2025; study is ongoing)



Patient Baseline Characteristics

	RANO-BM evaluable (n=16)	Total (N=32)
Median (range) age, years	63.0 (23–75)	62.5 (23–83)
Female, n (%)	9 (56)	18 (56)
Race, n (%)		
Caucasian/White	10 (63)	16 (50)
Asian	5 (31)	14 (44)
Not collected	1 (6)	2 (6)
ECOG PS, n (%)		
0	6 (38)	9 (28)
1	10 (63)	23 (72)
Leptomeningeal disease, n (%)	3 (19)	6 (19)
EGFR exon 20 insertion mutations, n (%)	9 (56)	21 (66)
Other EGFR mutations, n (%)	7a (44)	13 ^b (41)
Median (range) lines of prior systemic therapy, n	2 (0–4)	2 (0–4)
Prior EGFR-TKI therapy, n (%)	9 (56)	14 (44)
Prior amivantamab therapy, n (%)	1 (6)	2 (6)

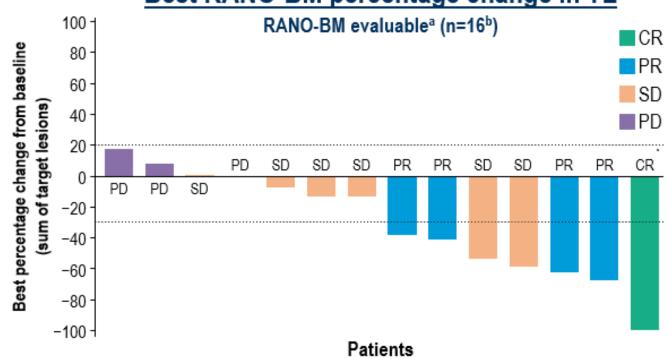
 A total of 62.5% of RANO-BM-evaluable patients and 68.8% of all enrolled patients had not received prior CNS radiotherapy



^aG719X (1); S7681 (3); L861Q (1): complex (2); other (1). ^bG719X (3); S7681 (3); L861Q (3): complex (2); other (3).

Preliminary Efficacy

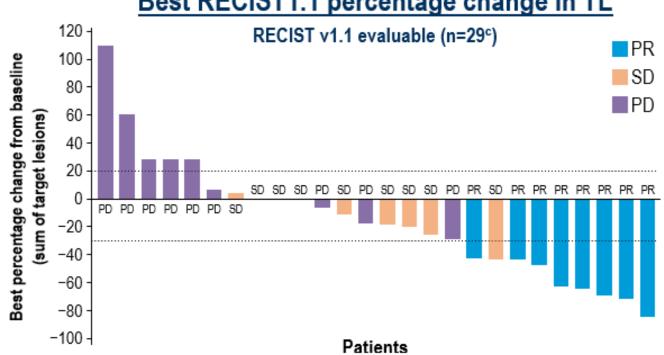
Best RANO-BM percentage change in TL



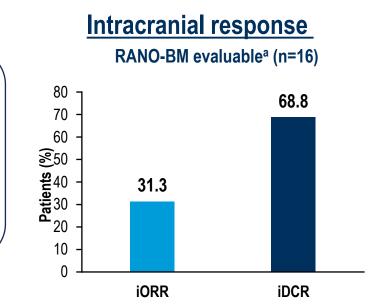
As of the data cut-off (study ongoing):

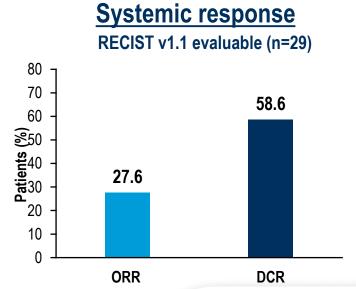
- 5/16 (31.3%) patients with measurable CNS disease had confirmed responses by **RANO-BM criteria** (including 1 intracranial CR)
- Among confirmed intracranial responders, 2/5 responders also had LMD at baseline
- 4/5 patients with confirmed intracranial responses did not receive prior CNS radiotherapy
- Median intracranial DOR was 8.1 months (95% CI: 3.1, NE)
- 8/29 (27.6%) patients had a confirmed systemic responses according to RECIST v1.1
- Median DOR was 7.6 months (95% CI: 2.07, 9.07)



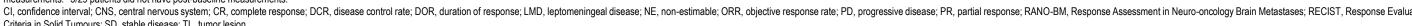


Preliminary data show similar intracranial and systemic response rates





Content of this presentation is copyright and responsibility of the author. Permission is required for re-use,





Safety

Any grade TRAEs in ≥ 15% of patients, n (%) (N=32)	Any grade	Grade 1	Grade 2	Grade ≥3
≥1 event	26 (81.3)	10 (31.3)	8 (25.0)	8 (25.0)
Paronychia	8 (25.0)	2 (6.3)	5 (15.6)	1 (3.1)
Dermatitis acneiform	7 (21.9)	3 (9.4)	3 (9.4)	1 (3.1)
Stomatitis	7 (21.9)	5 (15.6)	2 (6.3)	0
Anemia	6 (18.8)	3 (9.4)	0	3 (9.4)
Diarrhea	5 (15.6)	3 (9.4)	2 (6.3)	0
Dry skin	5 (15.6)	2 (6.3)	3 (9.4)	0
Rash	5 (15.6)	2 (6.3)	2 (6.3)	1 (3.1)

Safety profile of zipalertinib 100 mg BID was consistent with previous studies

- Low incidence of EGFR-related Grade ≥3 toxicity (i.e. no Grade ≥3 diarrhea)
- Grade ≥3 TRAEs (>1 incidence) included anemia (n=3) and ILD (n=2, 1 fatal)

Adverse events were manageable

• Dose reductions, interruptions, or treatment discontinuations were due to TRAEs in 1 (3.1%), 5 (15.6%), and 2 (6.3%) patient(s), respectively



Conclusions

- Zipalertinib demonstrated clinically meaningful intracranial antitumor activity, with a 31.3% intracranial ORR and 68.8% intracranial DCR by RANO-BM criteria in patients with NSCLC harboring EGFR ex20ins or other uncommon single or compound uncommon mutations
 - Zipalertinib also appears to demonstrate activity in patients with LMD
- Intracranial response rate was similar to the systemic response rate in the reported population
- The safety profile of zipalertinib was consistent with previous reports
- Study is ongoing and full results from Cohort C of the REZILENT2 trial will be forthcoming in a future presentation





European Society for Medical Oncology (ESMO) Via Ginevra 4, CH-6900 Lugano T. +41 (0)91 973 19 00 esmo@esmo.org

esmo.org

