**Post-progression and Safety Outcomes With First-line Amivantamab Plus Lazertinib Versus Osimertinib in Patients** With Advanced Non-small Cell **Lung Cancer With Common EGFR** Mutations: Implications for Best Management Practices

Sarah Smith<sup>1</sup>, Alexander I Spira<sup>1</sup>, Danny Nguyen<sup>2</sup>, Seema Sethi<sup>3</sup>, Shirish Gadgeel

"Virginia Cancer Specialists/US Oncology Research, Fairfax, VA, USA; "City of Hope, Long Beach, CA, USA; "Janssen Research & Development, LLC, Spring House, PA, USA; "Henry Ford Cancer Institute, Detroit, MI, USA.

## **Key Takeaways**



Amivantamab plus lazertinib treatment provided favorable post-progression outcomes, thus representing a viable first-line treatment option for patients with common epidermal growth factor receptor-activating non-small cell lung cancer (cEGFR NSCLC)

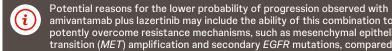
Nurses and other health care professionals (HCPs) play a vital role in actively managing early adverse events (AEs) associated with EGFR inhibition and informing patients about the potential of disease progression and AEs associated with post-progression treatment intensification

 Through patient support and education, nurses and HCPs can facilitate treatment adherence and persistence to promote optimal disease outcomes, even in the post-progression setting

## Conclusions



In the phase 3 MARIPOSA study, patients with cEGFR NSCLC receiving amivantamab plus lazertinib remained on treatment longer and exhibited improved post-progression outcomes (ie, time to discontinuation [TTD] and time to subsequent treatment [TTST]) compared with patients receiving osimertinib treatment



amivantamab plus lazertinib may include the ability of this combination to more potently overcome resistance mechanisms, such as mesenchymal epithelial transition (MET) amplification and secondary EGFR mutations, compared with each The onset of key AEs, such as infusion-related reactions (IRRs), rash, and

paronychia, usually occurred within the first 4 months from treatment initiation, with fewer AEs occurring after extended treatment time, highlighting the importance of



Incorporating nursing and HCP perspectives surrounding optimal AE management and improved patient experience can impact treatment adherence, which is key for ensuring improved outcomes, not only during first-line treatment, but also in the post-progression setting, where intensification-associated AEs can be a challenge

proactive measures and early intervention

### **Background**

**Results** 

plus lazertinib and osimertinib arms

and osimertinib arms, respectively

Figure 1: Treatment beyond progression

Patients

- Patients with advanced cEGFR NSCLC have high mortality rates and limited treatment options<sup>1</sup>
- Many patients receiving first-line treatment, such as osimertinib (an EGFR-tyrosine kinase inhibitor [TKI]),1,2 experience disease progression after 9 to 15 months,3 possibly due to
- Secondary EGFR and MET alterations account for 25% to 50% of tumor resistance, 3,4 among other unknown mechanisms
- Amivantamab is an EGFR-MET receptor-directed bispecific antibody approved by the US Food and Drug Administration (FDA) for the treatment of locally advanced or metastatic NSCLC with EGFR exon 20 insertion mutations as a first-line treatment in combination with platinum chemotherapy, as a second-line treatment in combination with platinum chemotherapy after progression on osimertinib, or as a monotherapy after chemotherapy progression
- Amiyantamab was also recently approved by the FDA in combination with lazertinib, a third-generation, brain penetrant, oral EGFR-TKI,6 as a first-line treatment for locally advanced or metastatic

Of the 1074 patients enrolled in MARIPOSA, 429 patients each were randomized to the amivantamab

- 421 and 428 patients were included in the safety analysis set for the amivantamab plus lazertinib

Results from patients randomized to the lazertinib alone arm (n = 216) are not analyzed here

After a median follow-up of 22.0 months, 147/421 (35%) patients in the amivantamab plus lazertinib

Among patients with progressive disease, 53% (n = 78) and 51% (n = 103) in the amivantamab plus

lazertinib and osimertinib arms, respectively, continued treatment beyond first progression (Figure 1)

The median duration of treatment beyond progression was 23.6 weeks in the amivantamab plus

TTD and TTST were numerically longer in patients receiving amivantamab plus lazertinib (26.2 months and not estimable, respectively) versus those receiving osimertinib (23.0 and 24.1 months, respectively;

Figure 2: Kaplan-Meier curves for (A) TTD and (B) TTST

arm versus 203/428 (47%) patients in the osimertinib arm had progressive disease

- In the phase 3 MARIPOSA study (ClinicalTrials.gov Identifier: NCT04487080), amivantamab plus lazertinib in first-line cEGFR NSCLC significantly reduced the risk for disease progression/death and extracranial progression and improved median progressionfree survival (PFS) and extracranial PFS by 7.1 and 9.0 months, respectively, compared with osimertinib
- IRRs and dermatologic AEs (eg. rash and paronychia) often occur soon after EGFR inhibition treatment is initiated and can negatively impact the patient experience, resulting in poor adherence and treatment discontinuation8 and potentially worse outcomes
- Furthermore, some patients' cancer will still progress on amivantamab plus lazertinib and will require treatment intensification, which results in more AEs
- Nurses and other HCPs play a crucial role in the proactive management of early AEs, provide patient education on the possibility of progression and the risk of additional intensification-related AEs, and emphasize the benefits of first-line treatment adherence and persistence

### **Objectives**

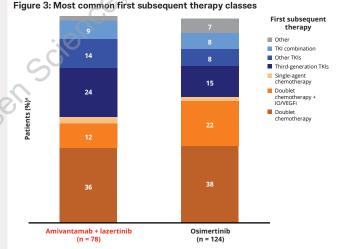
- · Here, we present additional post-progression efficacy and safety outcomes of amivantamab plus lazertinib versus osimertinib in patients with advanced cEGFR NSCLC from the MARIPOSA study
- Furthermore, we provide a clinical perspective on the key roles that nurses play in educating patients on the possibility of disease progression, additional treatment options, mitigation and management of AEs, and optimization of treatment adherence and persistence

# Study design

- The complete study design has been previously reported?
- Patients were randomized in a 2:2:1 ratio to receive 28-day cycles of either (1) amivantamab plus lazertinib, (2) osimertinib, or (3) lazertinib alone
- The third arm (lazertinib alone) was included to assess the contribution of each treatment component; results from this arm are not reported here
- Post-progression outcomes reported here include the following:
- TTD, defined as the time from randomization to discontinuation

### Fewer patients discontinued study treatment when receiving amivantamab plus lazertinib (116/421 [28%]) versus those who received osimertinib (171/428 [40%])

- 78/116 (67%) and 124/171 (73%) patients, respectively, received first subsequent therapy
- The most common subsequent therapy in both arms was doublet chemotherapy



The median duration of exposure was 18.5 months for patients receiving amivantamab

edema, pruritus, and fatigue)

with 95% confidence intervals provided

≥1 dose of study treatment

Nursing perspectives

- Key AEs occurred within the first 4 months from treatment initiation, and late onset was uncommon (Figure 4)

TTST, defined as the time from the date of randomization to the

start date of the first subsequent anticancer therapy following

study treatment discontinuation or death, whichever occurred first

Treatment beyond progression, defined as the duration from the date

of disease progression to the date of the last dose of the study drug

Patients still deriving clinical benefit as per the investigator could

Subsequent therapy and subsequent therapy class

continue treatment with amivantamab plus lazertinib or osimertinib

Safety (first onset of key AEs, such as rash, paronychia, dermatitis

acneiform, stomatitis, venous thromboembolism, peripheral

· The full analysis population included all randomized patients, and the

safety population included all randomized patients who received

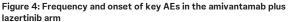
Time-to-event data were analyzed using Kaplan-Meier estimates,

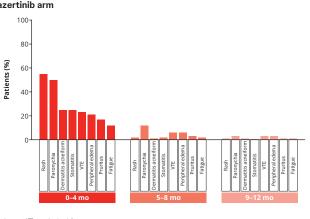
· Nursing implications and best practices for disease progression and

AE management were based upon the authors' clinical experience in

the trial and beyond, along with qualitative interview responses from

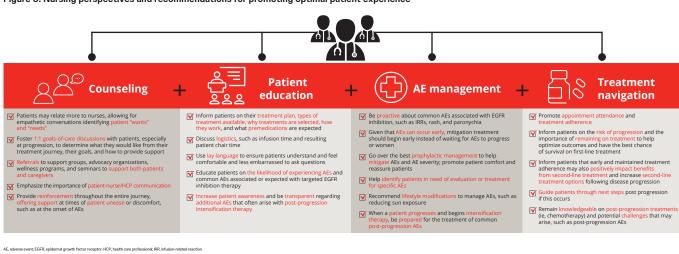
 Few patients in the amivantamab plus lazertinib arm were prescribed antibiotics at study initiation for rash management (21%) or initiated the study on anticoagulation





- Nurses and other HCPs play a crucial role throughout the patient journey and offer comprehensive and multidisciplinary care to optimize the patient experience (Figure 5)
- Nurses and other HCPs should discuss and establish treatment goals with their patients, educate them on available treatment options, inform them on AEs and how they will be managed, and highlight the importance of treatment adherence and persistence to promote improved outcomes
- Importantly, all HCPs understand the possibility of progression and can thus prepare patients for that outcome and offer support as they initiate post-progression intensification treatment, especially with regard to managing the highly probable intensification-related AEs

Figure 5: Nursing perspectives and recommendations for promoting optimal patient experience



I. Park K, et al. J Clin Oncol. 2021;39(30):3391–3402. 2. Fu K, et al. J Hematol Oncol. 2022;15(1):173. 3. Leonetti A, et al. Br J Cancer. 2019;121(9):725–737. 4. Ramalingam SS, et al. Ann Oncol. 2018;29(suppl 8):VIII740. Abstract LBA50. 5. RYBREVANT® (amivantamab-vmjw) injection, for intravenous use [prescribing information]. Janssen Biotech, Inc.; 2024. 6. Dhillon S. Drugs. 2021;81(9):1107–1113. 7. Cho BC, et al. N Engl J Med. 2024; doi: 10.1056/NEJMoa2403614. 8. O'Connell NS, et al. J Clin Oncol. 2024;42(3):266-272.

 Median follow-up: 22.0 mo
 (95% CI)

 Amivantamab + lazertinib
 26.2 mo (22.1-1)

simertinib 23.0 mo (20.3–25.3 HR, **0.88** (95% CI, 0.73–1.07); P = 0.21<sup>b</sup>

**Lung Cancer** 

