

Amivantamab Plus Lazertinib vs Osimertinib in First-line *EGFR*-mutant Advanced NSCLC: Longer Follow-up of the MARIPOSA Study

Shirish M Gadgeel¹, Byoung Chul Cho², Shun Lu³, Enriqueta Felip⁴, Hidetoshi Hayashi⁵, Alexander I Spira⁶, Benjamin Besse⁷, Michael Thomas⁸, Scott Owen⁹, Yu Jung Kim¹⁰, Se-Hoon Lee¹¹, Josiane Mourão Dias¹², Yun-Gyoo Lee¹³, Yanqiu Zhao¹⁴, Yong Fang¹⁵, Nicolas Girard¹⁶, Zhe Liu¹⁷, Ping Sun¹⁸, Sulene Cunha Sousa Oliveira¹⁹, Hong Shen²⁰, Luis Paz-Ares²¹, Shingo Matsumoto²², Hiroshi Tanaka²³, Azura Rozila Ahmad²⁴, Timur Andabekov²⁵, Patrapim Sunpaweravong²⁶, Ozgur Ozyilkan²⁷, James Chih-Hsin Yang²⁸, Maya Gottfried²⁹, Osvaldo Hernandez³⁰, Martin Kimmich³¹, Diego Cortinovis³², Diego Lucas Kaen³³, Lizbett Vanessa García Montes³⁴, Sanjay Popat³⁵, Thomas Newsom-Davis³⁶, John Xie³⁷, Tao Sun³⁷, Elizabeth Fennema³⁸, Mahesh Daksh³⁷, Mariah Ennis³⁹, Seema Sethi³⁹, Joshua M Bauml³⁹, Danny Nguyen⁴⁰

¹Division of Hematology and Oncology, Department of Internal Medicine, Henry Ford Cancer Institute/Henry Ford Health, Detroit, MI, USA ²Division of Medical Oncology, Yonsei Cancer Center, Yonsei University College of Medicine, Seoul, Republic of Korea; ³Shanghai Lung Cancer Center, Shanghai Chest Hospital, School of Medicine, Shanghai Jao Tong University, Shangha, China; ⁴Medical Oncology, Kull Utiversity Foculty of Medicine, Seoul, Republic of Korea; ³Shanghai Lung Cancer Center, Oncology, Kindiai University Foculty of Medicine, Oseau, Japan, ⁴Vinginia Cancer Specialists, Farifax, VA, USA, ⁴Pañais Saday University, Institut Gustave Roussy, Vilgui, France; ¹Department of Thuorac Oncology, Minitorial Nickersity Bundarg Hospital, Seoul National University Hospital, Heidelberg, Germany, Translatonal Lung Research Center Heidelberg (TLRC-H), Member of the German Center for Lung Research (DZL); ⁹Department of Medical Oncology, McGil University, Montréal, QC, Canada; ¹⁰Seoul National University Bundarg Hospital, Seoul National University Colol of Medicine, Seougnam, Republic of Korea; ¹¹Semang Medical Center, Sungkyunkwan University School of Medicine, Kangbuk Samsung Hospital, Sungkyunkwan University School of Medicare, Seoul, Republic of Korea; ¹¹Department of Medical Oncology, Braretox Cancer Hospital, Zhejard University, Bundarg Hospital, San Paulo, Brazit, ¹³Department of Medical Oncology, Sir Run Kang Buk Shaw Hospital, Zhejard University School of Medicine, Seaul, Paris, ¹⁴Inga Notare Hospital, Capital Medical University, UVSQ, Versalles, France; ¹⁴Department of Indecial Oncology, National Henrison, Paris, ¹⁴Inga Notare Rogradi, ¹⁴In





Background



- First-line treatment of EGFR-mutant advanced NSCLC with 3rd-generation EGFR TKIs has shown a median OS of ~3 years,^{1,2} with an estimated real-world 5-year survival of <20%³
- Approximately 25%–40% of patients do not receive second-line therapy,^{4–6} indicating a need for improved first-line treatments
- Amivantamab is an EGFR-MET bispecific antibody with immune cell-directing activity,⁷⁻⁹ and lazertinib is a 3rd-generation EGFR TKI^{10,11}
- At a median follow-up of 22.0 months, amivantamab + lazertinib significantly improved PFS vs osimertinib in the first-line setting (HR, 0.70; 95% CI, 0.58–0.85; P<0.001) in MARIPOSA^{12,13}
 - At first interim OS analysis, a trend in OS was seen favoring amivantamab + lazertinib vs osimertinib (HR, 0.80; 95% CI, 0.61–1.05; P=0.11)^{12,13}
- Amivantamab + lazertinib was recently approved by the FDA for first-line treatment of patients with common EGFR-mutant advanced NSCLC¹⁴

Here, we report longer-term follow-up (median: 31.1 months) of amivantamab + lazertinib vs osimertinib from MARIPOSA

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Phase 3 MARIPOSA Study Design



Primary endpoint of progression-free survival (PFS) by BICR per RECIST v1.1:

Amivantamab + lazertinib vs osimertinib

Endpoints reported in this presentation^a:

- Intracranial PFS (icPFS)
- Intracranial DoR (icDoR)
- Intracranial ORR (icORR)
- Time to treatment discontinuation (TTD)
- Time to subsequent therapy (TTST)
- PFS after first subsequent therapy (PFS2)
- Overall survival

^aEndpoints not part of formal statistical testing; all *P*-values in this presentation are nominal



MARIPOSA (ClinicalTrials.gov Identifier: NCT04487080) enrolment period; November 2020 to May 2022; clinical cut-off: 13-May-2024. Dosing (in 28-day cycles): amivantamab: 1050 mg (1400 mg if ≥80 kg) weekly for the first 4 weeks, then every 2 weeks; lazertinib: 240 mg daily; osimetinib: 80 mg daily.

Intracranial PFS^a



MARIPOSA required serial brain imaging for all patients, which provides robust evaluation of CNS outcomes Amivantamab + lazertinib showed a favorable trend in icPFS with sustained and durable CNS control at 3 years



3-year landmark icPFS was double for amivantamab + lazertinib vs osimertinib (38% vs 18%)

^aIntracranial PFS was defined as time from randomization until the date of intracranial disease progression (progression of brain metastasis or occurrence of new brain lesions) or death, based on BICR using RECIST v1.1 among patients with a history of brain metastases. Baseline brain MRI was required for all patients and performed ≤28 days prior to randomization; patients who could not have MRIs were allowed to have CT scans. Brain scan frequency was every 8 weeks for the first 30 months, then every 12 weeks thereafter for pat ients with a history of brain metastasis and every 24 weeks for patients with no history of brain metastasis. ^bP-value was calculated from a log-rank test stratified by mutation type (Ex19del or L858R) and race (Asian or Non-Asian). Hazard ratio was calculated from a stratified proportional hazards model.





icORR was 77% for both arms; however, amivantamab + lazertinib demonstrated greater durability of response, with improved icDoR vs osimertinib

alhtracranial DoR was defined as the time from the date of first documented intracranial response (CR or PR) until the date of documented intracranial progression or death, whichever occurred first, among patients with a history of brain metastases at screening who have intracranial CR or PR based on BICR using RECIST v1.1. Baseline brain MRI was required for all patients and performed <28 days prior to randomization; patients who could not have MRIs were allowed to have CT scans. Brain scan frequency was every 8 weeks for the first 30 months, then every 12 weeks thereafter for patients with a history of brain metastasis and every 24 weeks for patients with no history of brain metastasis. ^b95% CIs were estimated with Kaplan-Meier method.

Time to Treatment Discontinuation



More patients remained on treatment at 3 years with amivantamab + lazertinib (40% vs 29%)

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aTD was defined as the time from randomization to discontinuation of treatment for any reason, including disease progression, treatment toxicity or death. P-value is calculated by log-rank test stratified by mutation type (Ex19del or L858R), race (Asian or Non-Asian), and history of brain metastasis (present or absent). Hazard ratio was calculated from a stratified proportional hazards model.



Fewer patients at the 3-year landmark on the amivantamab + lazertinib arm started a subsequent therapy versus osimertinib (45% vs 32%)

^aTTST was defined as the time from the date of randomization to the start date of the subsequent anticancer therapy following study treatment discontinuation or death, whichever came first.^bP-value was calculated from a log-rank test stratified by mutation type (Ex19del or L858R), race (Asian or Non-Asian), and history of brain metastasis (present or absent). Hazard ratio was calculated from a stratified proportional hazards model.

First Subsequent Therapy





The majority of patients who discontinued study treatment received 2L therapy, with chemotherapy being the most common subsequent therapy class in both arms



^aPercentages may not sum to 100 due to rounding.^bTwo patients in the osimetinib arm received anivantamab as a subsequent treatment (one as a monotherapy and one in combination with lazertinib). ^cIncludes one patient who received herbal + doublet chemotherapy. ^dOthe category included herbals, ADCs, ALK TKIs, C-MET TKIs, anivantamab, and investigational agents. ^eAmong patients with progressive disease who discontinued treatment.

PFS2: PFS After First Subsequent Therapy^a



Amivantamab + lazertinib significantly reduced the risk of 2nd disease progression or death by 27%



3-year landmark PFS2 was 57% for amivantamab + lazertinib vs 49% for osimertinib

^aPFS2 was defined as the time from randomization until the date of second objective disease progression after initiation of subsequent anticancer therapy, based on clinical progression as determined by the investigator or death, whichever occurred first. ^bP-value is calculated by

log-rank test stratified by mutation type (Ex19del or L858R), race (Asian or Non-Asian), and history of brain metastasis (present or absent). Hazard ratio was calculated from a stratified proportional hazards model.

SM Gadgeel | Longer follow-up of MARIPOSA



OS curves separate early and widen over time favoring amivantamab + lazertinib, with 61% of patients alive at 3 years vs 53% with osimertinib

^aThis analysis was requested by health authorities and had nominal alpha spend. A *P*-value of ≤0.00001 was required for statistical significance. ^bP-value was calculated from a log-rank test stratified by mutation type (Ex19del or Exon 21 L858R), race (Asian or Non-Asian), and history of brain metastasis (present or absent). Hazard ratio was calculated from a stratified proportional hazards model.

Updated Overall Survival Analysis^a



OS curves separate early and widen over time favoring amivantamab + lazertinib, with 61% of patients alive at 3 years vs 53% with osimertinib

^aThis analysis was requested by health authorities and had nominal alpha spend. A P-value of ≤0.00001 was required for statistical significance. ^bP-value was calculated from a log-rank test stratified by mutation type (Ex19del or Exon 21 L858R), race (Asian or Non-Asian), and history of brain metastasis (present or absent). Hazard ratio was calculated from a stratified proportional hazards model

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Conclusion



- After longer follow-up (median: 31.1 months), data continue to favor first-line amivantamab + lazertinib over osimertinib with a promising OS trend (HR, 0.77; P=0.019^a) in patients with EGFR-mutant advanced NSCLC
 - OS curves separate early and widen over time, favoring amivantamab + lazertinib
 - 61% of patients receiving amivantamab + lazertinib were alive at 3 years vs 53% for osimertinib
- First-line amivantamab + lazertinib showed reduced risk of CNS progression and sustained CNS control with more durable responses
 - 3-year intracranial PFS was double for amivantamab + lazertinib vs osimertinib (38% vs 18%)
 - Amivantamab + lazertinib showed a favorable trend for intracranial DoR (NE vs 24.4 months)
- Post-progression outcomes (TTD, TTST, PFS2) were significantly improved with first-line amivantamab + lazertinib vs osimertinib

Amivantamab + lazertinib is FDA approved for first-line *EGFR*-mutant NSCLC and is improving long-term outcomes vs osimertinib, based on its multitargeted mechanism and blocking of EGFR and MET with immune cell–directing activity

The MARIPOSA study is ongoing, and a prespecified final OS analysis with formal statistical testing will be conducted in the future





COCOON Trial Aims to Reduce Dermatologic Adverse Events Associated With 1L Amivantamab + Lazertinib





Primary Endpoint

 Incidence of grade ≥2 dermatologic AEs of interest in the first 12 weeks after initiation of amivantamab + lazertinib treatment in Arm A versus Arm B^c

COCOON (ClinicalTrials.gov Identifier: NCT06120140).

on Lung Cancer

^aPlanned enrollment is 180 patients, which is estimated to provide a power of 90%, with a 2-sided alpha of 0.05, to detect a treatment difference between Arms A and B in the incidence of grade >2 dermatologic AEs. ^bEnhanced dermatologic management was provided in addition to standard dermatologic management. ^cDermatologic adverse events of interest included rash, dermatitis, paronychia, skin fissures, acne, erythema, skin exfoliation, skin irritation, and eczema.



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Additional posters:

- COCOON TIP: Enhanced vs standard dermatologic management with amivantamab + lazertinib in advanced NSCLC: Monday, Sep 9 12:00-2:00pm (P3.12D.04; Cho)
- PolyDamas TiP: Amivantamab + cetrelimab in advanced NSCLC: <u>Virtual ePoster (EP.12H.02; Voon)</u>
- 5-year survival estimates with 1L osimertinib for EGFR-mutant advanced NSCLC in the US: Virtual ePoster (EP.12A.03; Sabari)

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A total of 1074 patients from 27 countries randomized in the MARIPOSA study



