Preventing Moderate to Severe Dermatologic Adverse Events in First-line EGFR-mutant Advanced NSCLC Treated with Amivantamab Plus Lazertinib Early Success of the COCOON Trial

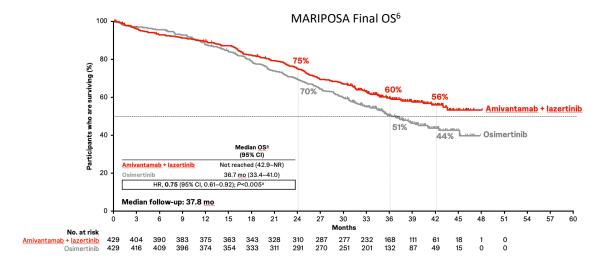
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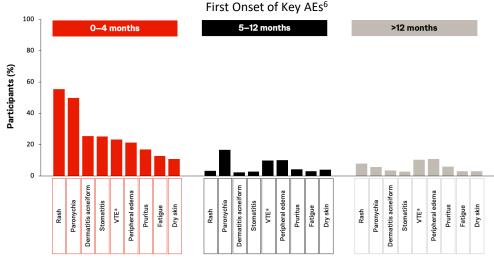
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Background

- EGFR-targeted therapies have been associated with dermatologic AEs,
 which are often treated reactively in clinical practice¹⁻³
- First-line amivantamab + lazertinib is FDA- and EMA-approved for EGFR-mutated advanced NSCLC based on the results of the phase 3 MARIPOSA study (NCT04487080)^{4,5}
 - The first onset of dermatologic AEs often occurs in the first 4 months of treatment⁶
 - Early management of dermatologic AEs is expected to allow patients to remain on treatment longer with amivantamab + lazertinib
- COCOON (NCT06120140) prospectively evaluated a simple prophylactic regimen to prevent moderate to severe EGFR-related dermatologic AEs



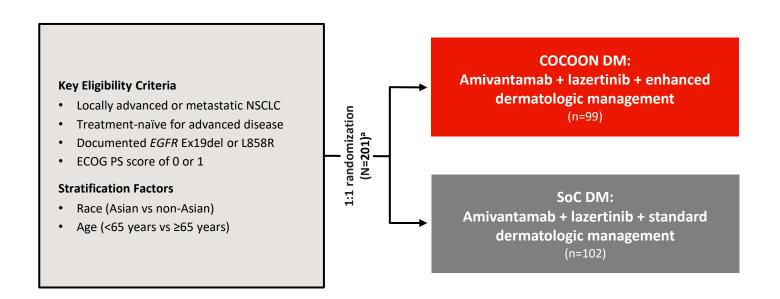


aln total, 390 deaths had occurred in the amivantamab + lazertinib (173 deaths) and osimertinib (217 deaths) arms. P-value was calculated from a log-rank test stratified by mutation type (Ex19del or L858R), race (Asian or Non-Asian), and history of brain metastasis (present or absent). Hazard ratio was calculated from a stratified Cox regression model.

1. Peng Y, et al. *Biosci Trends*. 2019;12(6):537-552. 2. Basse C, et al. *Lung Cancer*. 2022;173:116-123. 3. Petrelli F, et al. *Br J Dermatol*. 2016;175(6):1166-1174. 4. RYBREVANT® (amivantamab-vmjw) injection, for intravenous use [package insert]. Horsham, PA: Janssen Biotech, Inc.; 2024. 5. European Commission approves Lazcluze (lazertinib) in combination with Rybrevant (amivantamab) for the first-line treatment of patients with EGFR-mutated advanced non-small cell lung cancer. News release. Johnson & Johnson. January 21, 2025. Accessed January 27, 2025. https://www.jnj.com/media-center/press-releases/european-commission-approves-lazcluze-lazertinib-in-combination-with-rybrevant-amivantamab-for-the-first-line-treatment-of-patients-with-egfr-mutated-advanced-non-small-cell-lung-cancer. 6. Yang JC-H, et al. Presented at: European Lung Cancer Congress (ELCC); March 26-29, 2025; Paris, France.



Phase 2 COCOON study design



COCOON Regimen:

- Oral doxycycline or minocycline for 12 weeks
 - Followed by topical clindamycin lotion on the scalp
- Chlorhexidine on the nails
- Ceramide-based moisturizer on the body and face^b

SoC DM included general skin prophylaxis per local practice and reactive treatment, such as topical corticosteroids and systemic antibiotics

VTE prophylaxis was mandatory for the first 4 mo

Primary Endpoint:

Incidence of grade ≥2 dermatologic AEs^c in the first 12 weeks after initiation of amivantamab + lazertinib treatment^d

Key Secondary Endpoints:

- Number of grade ≥2 dermatologic AEsc per participant
- Incidence and severity of paronychia^d
- Incidence and severity of scalp rash^d
- Frequency of dose reductions, interruptions, and discontinuations due to AEs

Interim analysis planned for when ~70% of participants completed Week 12 assessmentse

COCOON (ClinicalTrials.gov Identifier: NCT06120140).

^aPlanned enrollment of 200 participants was estimated to provide a power of 82% to detect a 35% difference in DAEIs. ^bLa Roche Posay Lipikar AP+M moisturizer was used in COCOON. ^cPreferred terms included rash, dermatitis acneiform, pruritus, skin fissures, acne, folliculitis, erythema, eczema, maculopapular rash, skin exfoliation, skin irritation, dermatitis, rash erythematous, rash papular, rash pustular, dermatitis contact, dermatitis exfoliative generalized, drug eruption, dyshidrotic eczema, eczema asteatotic, and paronychia. ^dSeverity per National Cancer Institute Common Terminology Criteria for Adverse Events (NCI CTCAE) v5.0. ^eAll analyses were performed using the safety analysis set.



Baseline demographics and clinical characteristics

- At a median follow-up of 4.2 months,^a
 138 participants received ≥1 dose of amivantamab + lazertinib (safety analysis set)^b
 and had ≥12 weeks of follow-up^c
- The median duration of amivantamab + lazertinib treatment was 4.2 months with COCOON DM^d vs 4.1 months with SoC DM

COCOON DM (n=70)	SoC DM (n=68) ^e
62.5 (36–78)	62.5 (37–83)
42 (60)	37 (54)
52 (74)	49 (72)
17 (24)	19 (28)
44 (63)	36 (53)
24 (34)	21 (31)
23 (33)	27 (40)
35 (50)	37 (54)
35 (50)	31 (46)
	62.5 (36–78) 42 (60) 52 (74) 17 (24) 44 (63) 24 (34) 23 (33) 35 (50)

Baseline characteristics were well balanced across arms

Note: percentages may not sum to 100 due to rounding.

DM, dermatologic management; ECOG PS, Eastern Cooperative Oncology Group performance status; Ex19del, exon 19 deletion; L858R, exon 21 L858R substitution; SoC, standard of care.

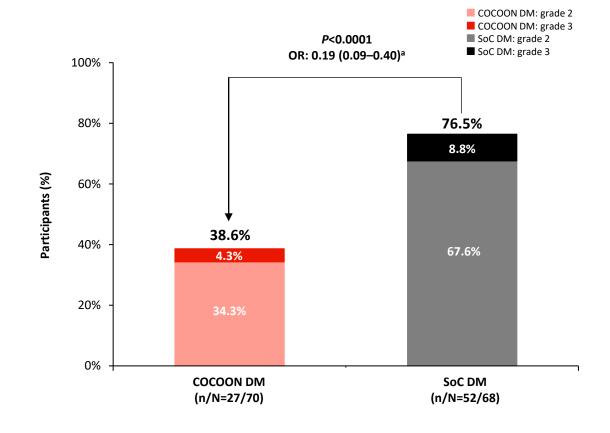


^aDue to limited follow-up at the interim analysis, efficacy results will be reported at a future congress. ^bAll analyses were performed using the safety analysis set. ^c138 participants had the opportunity to receive treatment for 12 weeks; however, some discontinued prior to Week 12. ^dIn the COCOON DM arm, 48 participants received doxycycline for a median duration of 2.7 months, and 24 participants received minocycline for a median duration of 2.8 months. ^e2 Participants randomized to SoC DM did not meet inclusion criteria at C1D1 and discontinued the study prior to receiving amivantamab + lazertinib. ^fParticipant in the COCOON DM arm was American Indian or Alaska Native.

COCOON: Primary endpoint reached at first analysis

In the first 12 weeks:

- 2-fold reduction in grade ≥2 dermatologic AEs with COCOON DM vs SoC DM (38.6% vs 76.5%)
- 2-fold reduction in grade 3 dermatologic AEs with COCOON DM vs SoC DM (4.3% vs 8.8%)
- 3-fold reduction in the number of participants who reported 2 or more different grade
 ≥2 dermatologic AEs with COCOON DM vs
 SoC DM (6% vs 18%)

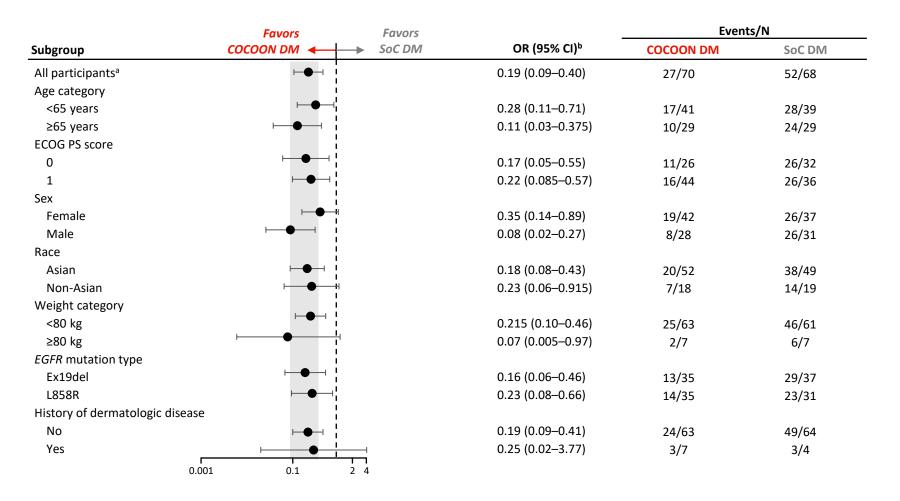


COCOON DM reduced grade ≥2 dermatologic AEs by 50% vs SoC DM

^aOR was generated by a logistic model, adjusted by race and age (continuous). CI, confidence interval; DM, dermatologic management; IA, interim analysis; OR, odds ratio; SoC, standard of care.



Consistent reductions in grade ≥2 dermatologic AEs were observed across all subgroups

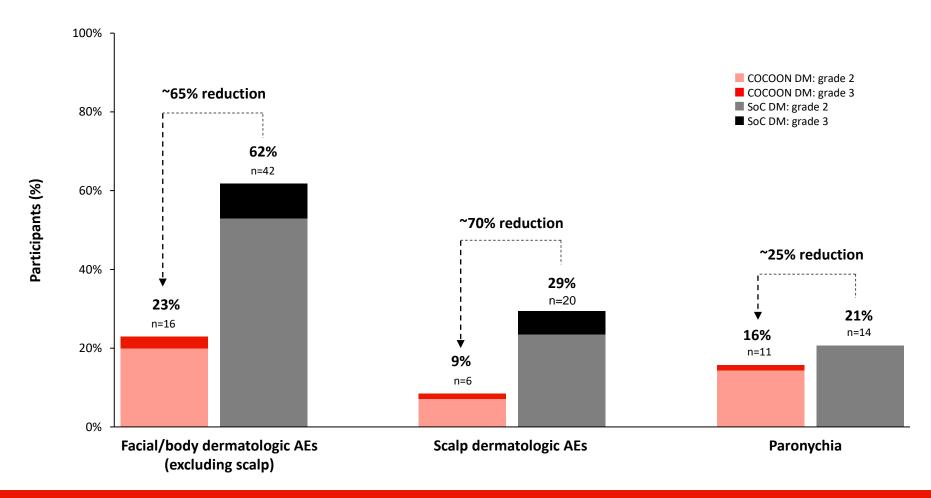


Note: Gray box indicates 95% CI of OR for all participants. ^aSafety analysis set. ^bUnadjusted OR.

CI, confidence interval; DM, dermatologic management; ECOG PS, Eastern Cooperative Oncology Group performance status; Ex19del, exon 19 deletion; OR, odds ratio; SoC, standard of care.



Grade ≥2 dermatologic AEs by body location

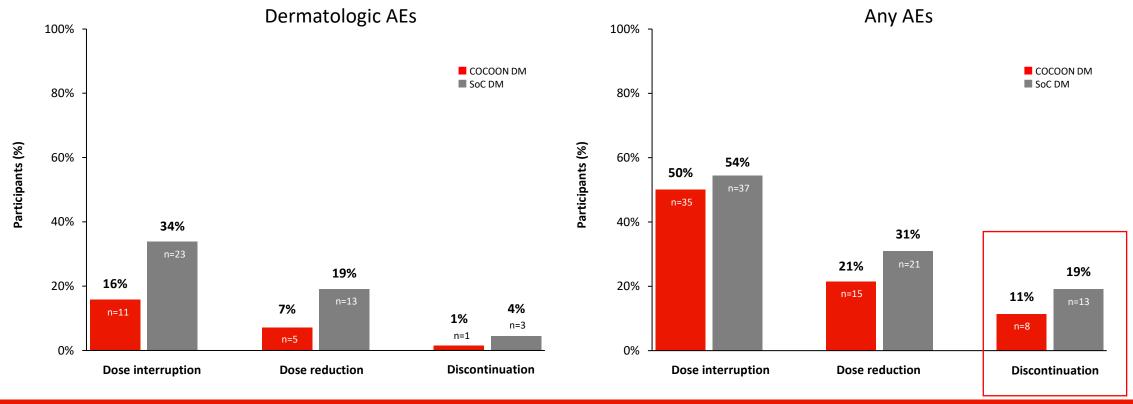


In the first 12 weeks, substantial reductions in grade ≥2 dermatologic AEs were observed on different body locations with COCOON DM compared to SoC DM, including a 70% reduction in scalp dermatologic AEs

DM, dermatologic management; SoC, standard of care.



Dose modifications of amivantamab/lazertinib due to AEs



Participants using the COCOON DM regimen had lower rates of amivantamab or lazertinib discontinuations due to AEs (11% vs 19% for SoC)

• VTE was observed in 6% of participants with COCOON DM vs 7% with SoC DM

DM, dermatologic management; SoC, standard of care.



Summary

- At the first pre-planned interim analysis, the primary endpoint was met: The prophylactic COCOON DM regimen significantly reduced
 the incidence of grade ≥2 dermatologic AEs^a vs SoC DM in the first 12 weeks
 - Incidence of grade ≥2 dermatologic AEs was reduced by 50% with COCOON DM vs SoC DM (P<0.0001)
 - Grade 3 dermatologic AEs were reduced by >50% with COCOON DM vs SoC DM
 - >3-fold reduction in moderate to severe scalp dermatologic AEs with COCOON DM compared with SoC DM
- ~50% reduction in discontinuations due to AEs with COCOON DM vs SoC DM

The prophylactic COCOON DM regimen, with widely available agents, significantly reduced the incidence and severity of dermatologic AEs with amivantamab + lazertinib

Preferred terms included rash, dermatitis acneiform, pruritus, skin fissures, acne, folliculitis, erythema, eczema, maculopapular rash, skin exfoliation, skin lesion, skin irritation, dermatitis, rash erythematous, rash macular, rash papular, rash pruritic, rash pustular, dermatitis contact, dermatitis exfoliative generalized, drug eruption, dyshidrotic eczema, eczema asteatotic, and paronychia.

11. first-line; AE, adverse event; DM, dermatologic management; IV, intravenous; SoC, standard of care.



Preventing AEs with amivantamab + lazertinib

Begin Amivantamab + Lazertinib

IRR Prophylactic Regimen (SKIPPirr)¹

VTE Prophylactic Regimen (PALOMA-2, PALOMA-3)^{2,3}

2 Days to 1 hour before start

Oral 8-mg dexamethasone BID 2 days and 1 day prior and 8-mg 1 hour before first infusion^a

First 4 months

Oral anticoagulants as per NCCN or local guidelines

Dermatologic Prophylactic Regimen (COCOON)^b

Antibiotic prophylaxis



Weeks 1-12

100-mg BID doxycycline or minocycline

Weeks 13+

1% Topical clindamycin lotion on the scalp daily

Nail cleaning agent



Weeks 1+

4% Chlorhexidine on the fingernails and toenails daily for 12 months

Long-acting skin hydration



Weeks 1+

Ceramide-based moisturizer at least daily for 12 months^c

alncludes standard premedication (antihistamines, antipyretics, and glucocorticoids). Prophylactic antibiotics: oral doxycycline or minocycline 100 mg BID; topical clindamycin lotion 1% on scalp daily before bedtime. Paronychia prophylaxis: chlorhexidine 4% on the fingernails and toenails daily. Skin moisturization: La Roche Posay Lipikar AP+M moisturizer on the body and face at least daily. AP+M moisturizer was used in COCOON.

AE, adverse event; BID, twice daily; IRR, infusion-related reaction; VTE, venous thromboembolism.

1. Spira AI, et al. *J Thorac Oncol.* 2025 Jan 24:S1556-0864(25)00051-6. 2. Scott SC, et al. Presented at: American Society for Clinical Oncology (ASCO) Annual Meeting; May 31–June 4, 2024; Chicago, IL, USA.

3. Leighl NB. et al. *J Clin Oncol.* 2024 Oct 20:42(30):3593-3605.

