# Subcutaneous After Intravenous Amivantamab in Advanced NSCLC: Initial Results From PALOMA-2

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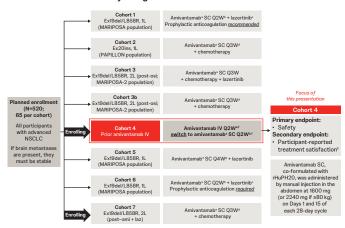
# **Background**

- Amivantamab, an epidermal growth factor receptor (EGFR)—MET bispecific antibody with immune cell-directing activity,<sup>1-3</sup> is approved as an intravenous (IV) formulation in multiple EGFR-mutated advanced/metastatic non-small cell lung cancer (NSCLC) settings<sup>45</sup>
- In the PALOMA-3 study (ClinicalTrials.gov Identifier: NCT05388669), third-line subcutaneous (SC) amivantamab demonstrated noninferior pharmacokinetics (PK) and objective response rate versus amivantamab IV<sup>6</sup>
- In addition, compared with amivantamab IV, amivantamab SC offered:
  - A 5-fold reduction of infusion-related reactions (13% vs 66%)<sup>6</sup>
- Substantially faster administration time (4.8 min vs 5.0 h at Cycle 1 Day 1)<sup>6</sup>
- Higher participant-reported convenience (85% vs 35% at the end of treatment) and reduced medical resource utilization  $^{\rm 67}$
- The phase 2 PALOMA-2 study (ClinicalTrials.gov Identifier: NCT05498428) is a global, parallel-cohort, phase 2 bridging study evaluating the efficacy, safety, and PK of amivantamab-based SC regimens in various EGFR-mutant NSCLC settings
- Here we report the initial experience of switching to amivantamab SC after amivantamab IV monotherapy

#### Methods

- Cohort 4 enrolled participants who previously received amivantamab IV as part of standard of care, an expanded-access program, or rollover from a long-term extension study for ≥8 weeks without dose reduction and evidence of progressive disease (Figure 1)
- Administration-related reaction (ARR) was defined per the Medical Dictionary for Regulatory Activities preferred term (referred to as infusion-related reactions in prior IV studies)
- Population PK simulations were conducted for amivantamab IV versus SC exposures for the every 2 weeks (Q2W) dose regimen at 3 different dose levels (DL0, DL[-1], DL[-2]) to assess PK comparability
- Results are based on the re-simulation of the PALOMA-3 study using the final population PK model in which participants received amivantamab IV or SC at DL0, DL(-1), and DL(-2); PK samples were not collected in PALOMA-2 cohort 4
- Participant-reported outcomes (PROs) were assessed using a modified version of the Therapy Administration Satisfaction Questionnaire (mTASQ)
- The mTASQ is a 12-item questionnaire that measures the impact of treatment mode (SC administration) on physical functioning, psychological functioning, and activities of daily living, convenience, and satisfaction

### FIGURE 1: PALOMA-2 study design



\*Advantamia SC uses administered by manual injection in the abdomen. \*Advantamia SC 0.00 date: 8000 mg (2.80 kg). \*Results for Cohorts 1 and 6 sweet presenter previously at the 2004 American Society of Chrisical Discology and unaltereding.\*\*Americants SC 0.00 was e2.00 mg (3.80 kg). \*Res (3.80 kg). \*R

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#### Result

#### Baseline demographic and clinical characteristics

- As of October 24, 2024, 26 participants were enrolled in the amivantamab monotherapy cohort (Table 1)
  - Among these participants, 25 participants were dosed with amivantamab SC after switching from amivantamab IV
- Median treatment duration was 3.1 months for amivantamab IV and 7.4 months for amivantamab SC
- Median follow-up from first amivantamab SC dose was 9.7 months
- As of the data cutoff, 64% of participants were still ongoing with amiyantamab treatment

#### TABLE 1: Baseline demographic and clinical characteristics

Characteristic	Cohort 4 (n=26)
Median (range) age, years	66 (41–83)
Female, n (%)	15 (58)
History of smoking, n (%)	10 (38)
History of brain metastases, n (%)	8 (31)
Race, n (%) Asian White Not reported <sup>a</sup>	14 (54) 10 (38) 2 (8)
ECOG PS score, n (%) n 0 1	25 9 (36) 16 (64)
EGFR mutation, <sup>b</sup> n (%) n L858R Ex20ins	23 3 (13) 21 (91)
Adenocarcinoma histology, n (%)	24 (92)

rticipant either declined to answer the question or was not able to identify a race. \*Participants can be included in ≥1 category. Odc. \*Eastern Cooperative Oncology Group performance status; EGFR, epidermal growth factor receptor; Ex20ins, exon 20 insertic tation: L858R, exon 21 L858R substitution mutation.

#### Safet

- The safety profile of amivantamab SC after switching from amivantamab IV was consistent with that observed in prior studies of amivantamab SC monotherapy<sup>8</sup> and no new safety signals were identified (Table 2)
- Rash (grouped term inclusive of rash, rash maculo-papular, acne, dermatitis acneiform, rash pustular, and skin lesions) was reported in 10 (40%) participants (grade ≥3, 3 [12%])
- Only 1 participant discontinued amivantamab SC due to a treatment-related adverse event (interstitial lung disease)
- No ARRs were reported

#### Participant-reported outcomes

- Most participants (96%) were compliant with mTASQ assessments through Cycle 1
- PROs for amivantamab IV at screening and amivantamab SC at Cycle 1 are shown in Figure 2
- By Cycle 1:
- Most participants were satisfied with amivantamab SC (79%), found it convenient (83%), and preferred it (63%)
- Among amivantamab SC recipients (n=24), 54% reported feeling unrestricted and 67% reported feeling unbothered by the time for treatment administration compared with 24% and 12% for amivantamab IV (n=25), respectively
- This trend continued or improved further at Cycle 3
- Most participants reported mild or no injection-site symptoms with amivantamab SC at Cycle 1: 71% reported mild or no pain, 83% reported mild or no swelling, and 88% reported mild or no redness
  - Severe injection-site pain was reported by 8% of amivantamab SC recipients (n=24) at Cycle 1, and decreased to none at Cycle 3

# Exploratory PK Simulations

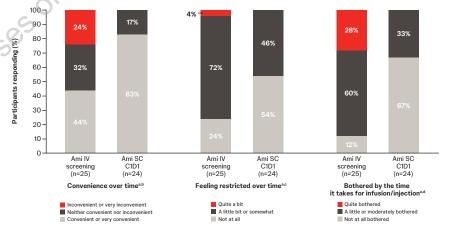
- PK met the noninferiority criterion for efficacy when the lower bound of the geometric mean ratio (GMR) 90% confidence interval (CI) for average concentration ( $C_{\rm avg}$ ) and trough concentration ( $C_{\rm trough}$ ) was  $\geq$ 0.8, and for safety when the upper bound of the GMR 90% CI for maximum concentration ( $C_{\rm max}$ ) was  $\leq$ 1.25
- Simulated exposures of amivantamab IV versus SC for the Q2W dose regimen were noninferior, which further supports the IV to SC switch at reduced dose levels (Figure 3)

# TABLE 2: Safety profile of amivantamab SC monotherapy

	V Soliere I	Condit + (n-25)	
Most common treatment-emergent AEs (≥10%), n (%)	All grades	Grade ≥3	
Associated with EGFR inhibition	X		
Paronychia	11 (44)	1 (4)	
Rash <sup>o</sup>	5 (20)	ò	
Stomatitis	4 (16)	0	
Pruritus	3 (12)	0	
Associated with MET inhibition			
Hypoalbuminemia	10 (40)	1 (4)	
Peripheral edema	4 (16)	Ö	
Other	1		
Dyspnea	6 (24)	1 (4)	
Aspartate aminotransferase increased	6 (24)	ò	
Hypocalcemia	5 (20)	0	
Alanine aminotransferase increased	5 (20)	0	
Asthenia	4 (16)	1 (4)	
Decreased appetite	4 (16)	O .	
Neutropenia	4 (16)	0	
Edema	4 (16)	0	
Pneumonia	3 (12)	3 (12)	
Fatigue	3 (12)	0	
Pyrexia	3 (12)	0	
Epistaxis	3 (12)	0	
Dry eye	3 (12)	0	
Localized edema	3 (12)	0	

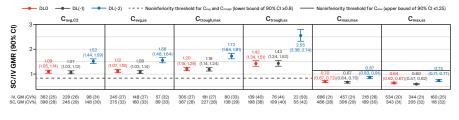
fety analysis set, defined as all participants, who switched from amivantamab IV and received an amivantamab SC dose. "One participant received their first dose of amivantamab SC after the data cutoff date. "Perferred term. adverse event; EGFR, epidermal (givent) factor preceipert; IV, intravenous; SC, subcutaneous.

# FIGURE 2: Participants reporting mTASQ assessments



The mTASQ for IV injection was completed at screening. "Based on participant responses to mTASQ Item #6, "How convenient is it for you to get your SC injection?" "Based on participant responses to mTASQ Item #5, "When receiving m SC injection, how restricted day you feet." "Based on participant responses to mTASQ Item #7. "How bothered are you by the amount of time it takes to have the SC injection?" m, amount may be a more in the second of the second of the second in the second of the second in the s

## FIGURE 3: PK simulations for the Q2W regimen<sup>a</sup>



Note: PK noninferiority criteria to ensure comparable efficacy (lower bound of the GMR 90% Cl ±0.8 for C<sub>max</sub> and safety (upper bound of the GMR 90% Cl ±1.25 for C<sub>max</sub>) are called the Comparable of the Compara

# Key takeaways



Switching from intravenous amivantamab to subcutaneous (SC) amivantamab monotherapy is feasible and safe, with no administration-related reactions reported among participants with epidermal growth factor receptor (*EGFR*)-mutated non-small cell lung cancer

The SC administration of amivantamab is convenient and preferred by participants

# **Conclusions**



The safety profile of participants who switched to amivantamab SC from amivantamab IV was similar to the safety profile previously observed with amivantamab SC monotherapy, demonstrating that the IV to SC switch can occur safely



Most participants were satisfied with amivantamab SC, found it convenient, and preferred it over prior amivantamab IV

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**Lung Cancer** 



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