

Apremilast Efficacy in Patients With Early Oligoarticular Psoriatic Arthritis (PsA) Affecting Weight-bearing Joints by Body Mass Index (BMI): Results From the Randomized, Double-blind, Placebo-controlled FOREMOST Study

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BACKGROUND

- Despite limited joint involvement, oligoarticular (oligo; ≤4 active joints) psoriatic arthritis (PsA) can significantly impact quality of life and physical functioning¹⁻³
- In FOREMOST (NCT03747939), patients were randomized (2:1) to apremilast or placebo for 24 weeks (early escape at Week 16), followed by an extension phase, during which all patients could receive apremilast through Week 48⁴
- As previously reported, fewer patients receiving apremilast vs placebo progressed from ≤4 to >4 active (swollen and/or tender) joints at Week 16⁴

OBJECTIVE

- To evaluate the effect of apremilast on weight-bearing joints in patients with early oligo PsA enrolled in FOREMOST through Week 48

Weight-bearing Joint Analysis (post hoc)

- N=187 patients with **active weight-bearing joints** at baseline who **received ≥1 dose of apremilast (as randomized or transitioned)**; patient characteristics are summarized below and were consistent across BMI subgroups ([scan QR code for baseline data by BMI subgroup](#))
- Weight-bearing joints** defined as hip, knee, ankles, midfoot, metatarsophalangeal, and proximal interphalangeal joint for foot⁵
- Outcomes assessed through Week 48:** Swollen joint count (SJC), tender joint count (TJC), Health Assessment Questionnaire–Disability Index (HAQ-DI), 36-Item Short-Form Health Survey (SF-36) physical component score (PCS), and 12-item PsA Impact of Disease (PsAID-12) fatigue score
- Subgroup analysis** by baseline BMI: <25, 25 to <30, ≥30kg/m²
- HAQ-DI:** Patient-reported ability to function; range, 0–3, higher scores indicate worse function; HAQ-DI <0.5 considered normal function

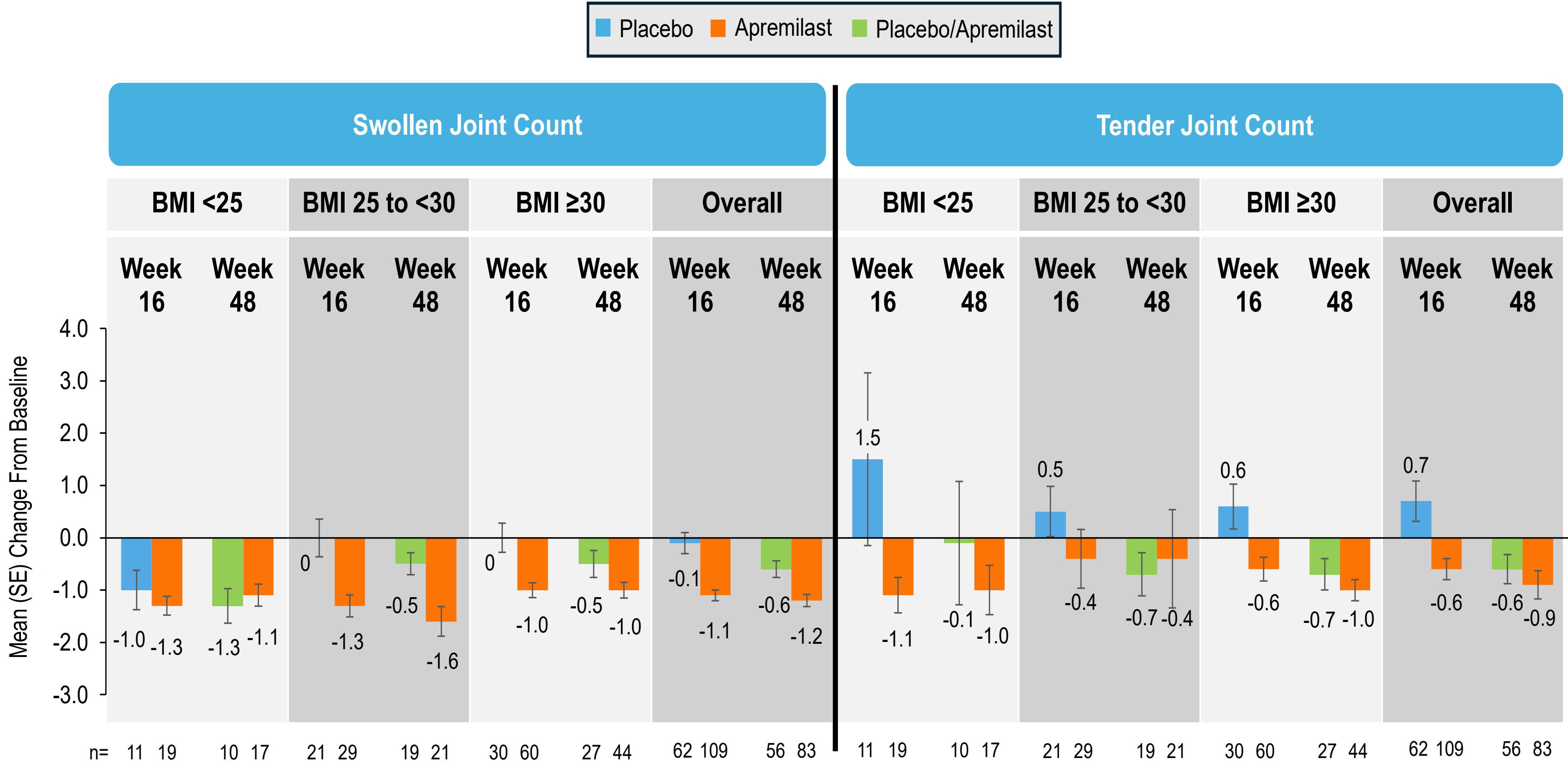
Baseline characteristics	Placebo (n=62)	Apremilast (n=125)
BMI, mean (SD), kg/m ²	31.0 (7.4)	30.8 (6.9)
SJC (0–26), mean (SD)	1.2 (0.9)	1.5 (0.9)
TJC (0–28), mean (SD)	1.8 (0.9)	1.9 (1.0)
Active joint count, mean (SD)	1.9 (1.0)	2.1 (1.0)
HAQ-DI (0–3)*, mean (SD)	1.24 (0.41)	1.26 (0.42)

*Summarized for patients with baseline HAQ-DI >0.5 (placebo, n=46; apremilast, n=92).

RESULTS

Across weight-bearing joints, larger reductions in SJC and TJC were observed for apremilast vs placebo at Week 16, regardless of BMI, and sustained through Week 48

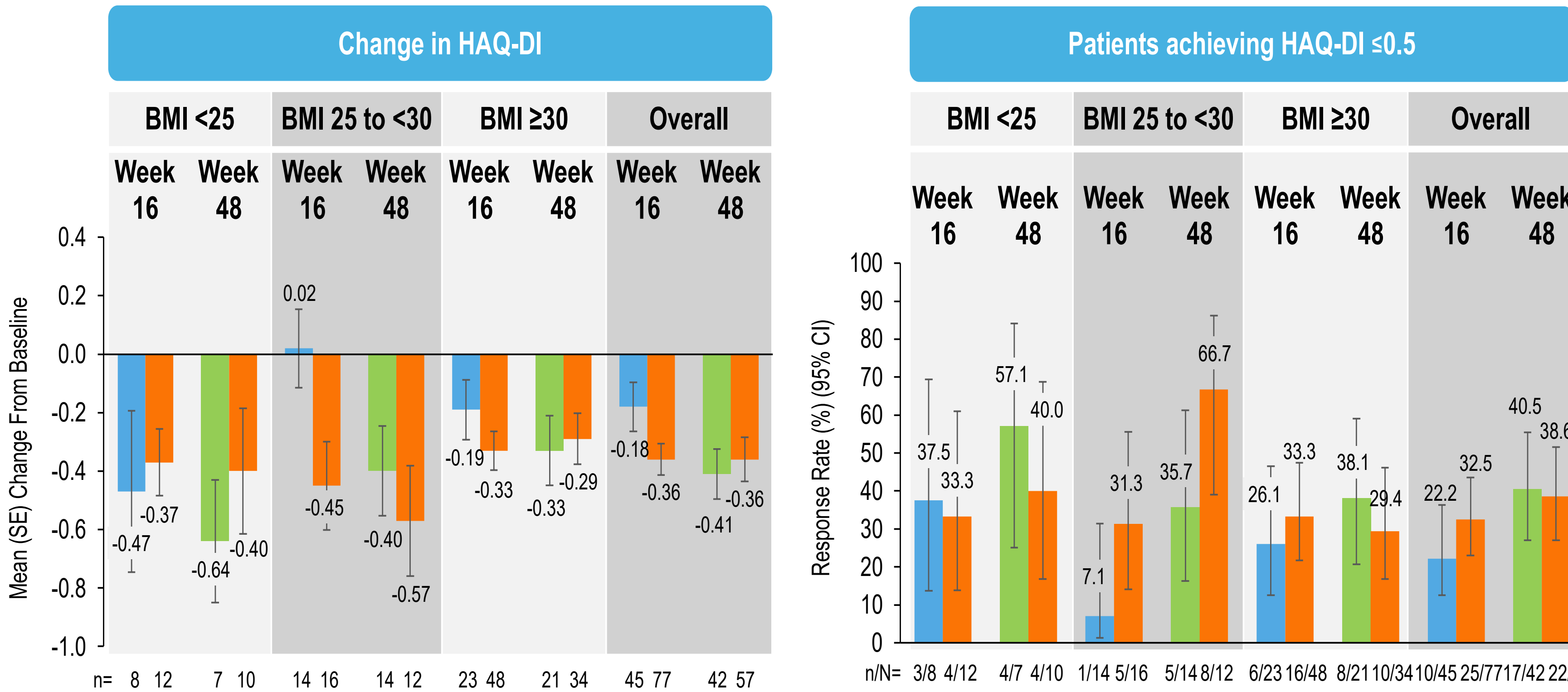
Data as observed for weight-bearing joints in patients with active weight-bearing joints at baseline who received ≥1 dose of apremilast (randomized or transitioned); active joint defined as swollen and/or tender; n=number of patients with non-missing data; SJC based on 26 weight-bearing joints; TJC based on 28 weight-bearing joints. BMI, body mass index (kg/m²); SE, standard error; SJC, swollen joint count; TJC, tender joint count.



Patients with BMI <25 reported similar changes in HAQ-DI for apremilast and placebo at Week 16

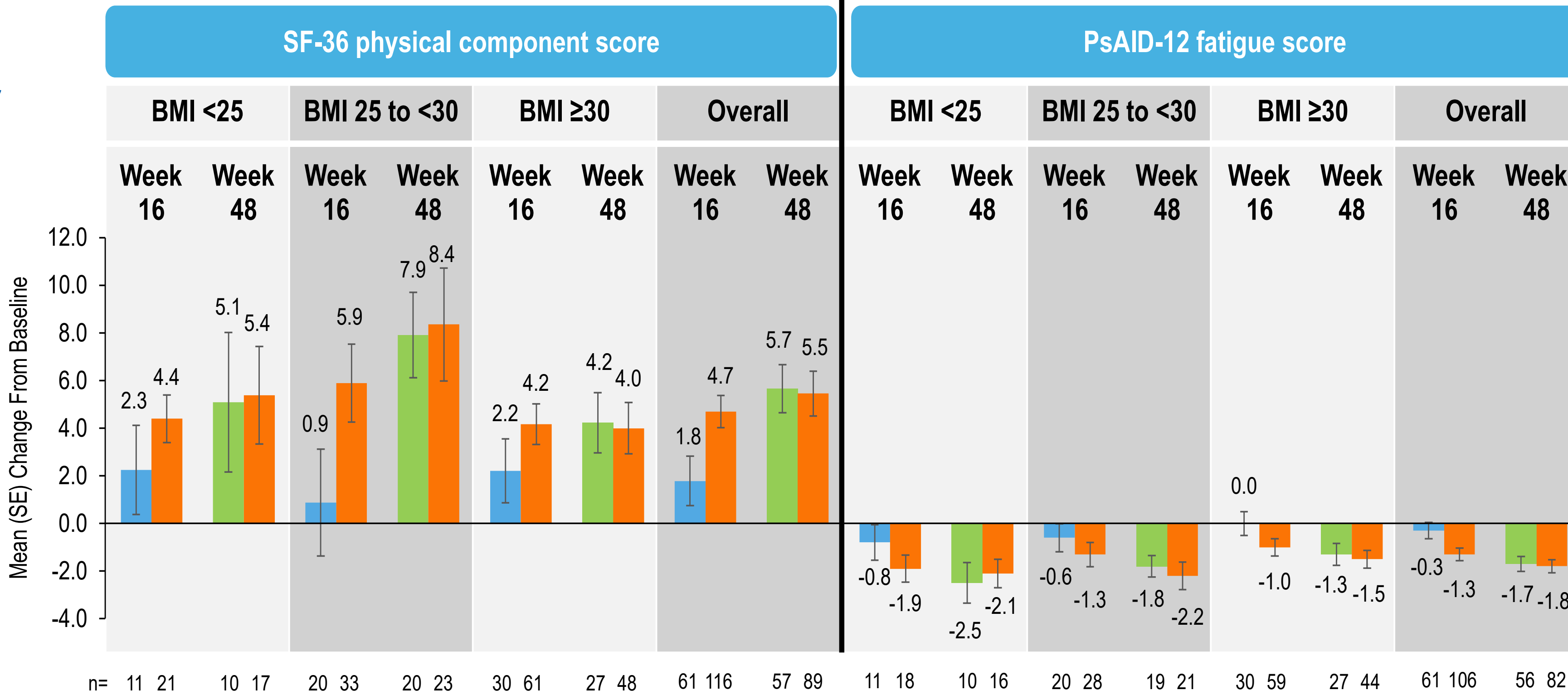
Across most BMI categories, patients with active weight-bearing joints reported larger improvements in HAQ-DI for apremilast vs placebo at Week 16; improvements were sustained through Week 48

Data as observed for patients with active weight-bearing joints and HAQ-DI ≥0.5 at baseline who received ≥1 dose of apremilast (randomized or transitioned); active joint defined as swollen and/or tender. Left: n=number of patients with non-missing data. Right: n=number of patient achieving outcome; N=number with non-missing data. BMI, body mass index (kg/m²); HAQ-DI, Health Assessment Questionnaire–Disability Index; SE, standard error.



Patients with active weight-bearing joints reported larger improvements in SF-36 and PsAID-12 fatigue score at Week 16 for apremilast vs placebo, regardless of BMI, and sustained through Week 48

Data as observed for patients with active weight-bearing joints at baseline who received ≥1 dose of apremilast (randomized or transitioned); active joint defined as swollen and/or tender; n=number of patients with non-missing data. BMI, body mass index; PCS, physical component summary; PsAID, Psoriatic Arthritis Impact of Disease; SE, standard error; SF-36, 36-Item Short-Form Health Survey.



Key Takeaways

- Apremilast improved clinical and patient-reported outcomes at Week 16 in patients with early oligoarticular PsA involving weight-bearing joints at baseline
- Greater reductions in swollen and tender joint counts were seen at Week 16 with apremilast vs placebo, regardless of baseline BMI
- Patients reported greater improvements in physical function with apremilast vs placebo at Week 16, with consistent results across most BMI categories
- Improvements were maintained for up to 48 weeks

Scan QR code for study design, additional analyses (including active joint count, MCID in HAQ-DI, and PsAID-12 fatigue score ≤1 or 2), and references



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The 31-GEP stratifies risk of death in patients with stage I-IIA cutaneous melanoma: A SEER real-world evidence study

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Background

- Current American Joint Committee on Cancer (AJCC 8th edition) staging stratifies patients with cutaneous melanoma (CM) by their risk of dying from their disease.¹
- Patients with early-stage I-IIA CM are considered at low risk of poor outcomes; however, recent evidence suggests that many of these patients have a higher risk of death than AJCC suggests.²
- Identifying patients who have a higher risk of poor outcomes than suggested by their cancer stage can help clinicians recommend more personalized, risk-appropriate surveillance and treatment management options.^{2,3}
- The 31-gene expression profile (31-GEP) is prospectively validated to stratify the risk of death in patients with CM.⁴⁻⁶

Objective

Validate 31-GEP MSS and OS risk stratification in patients with stage I-IIA CM in a real-world setting.

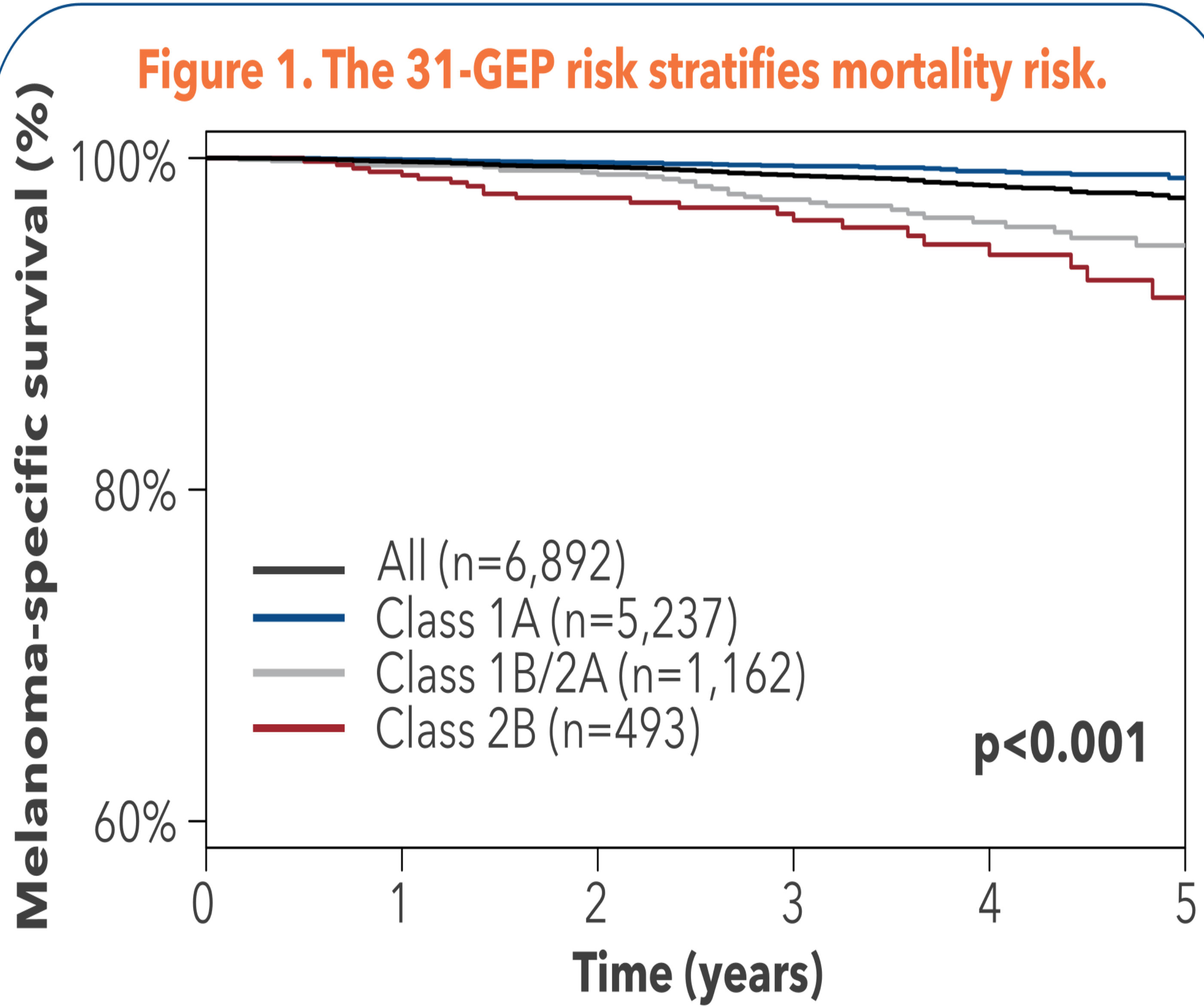
Methods

- Registry data from the National Cancer Institute’s Surveillance, Epidemiology and End Results (SEER) program were linked to data from patients with stage I-IIA CM clinically tested with the 31-GEP (n=6,892). Survival was estimated using Kaplan-Meier analysis, and differences between groups were compared using the log-rank test. Multivariable Cox regression was used to identify predictors of melanoma-specific and all-cause mortality.⁴

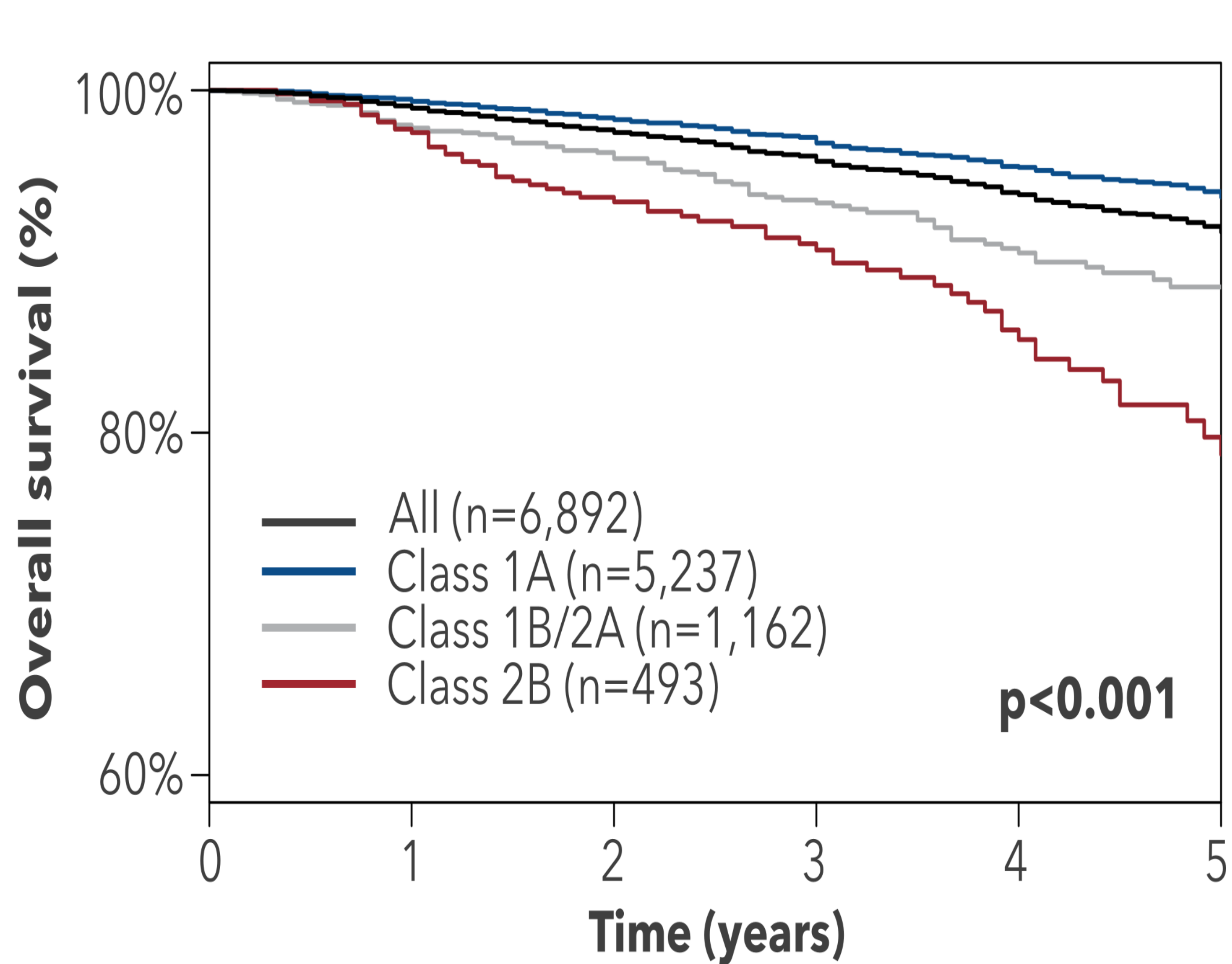
Table 1. Patient Demographics

Descriptor	Class 1A (n=5,237)	Class 1B/2A (n=1,162)	Class 2B (n=493)	Combined (n=6,892)
Age				
Median (Range)	60 (18-89+)	65 (18-89+)	67 (22-89+)	62 (18-89+)
Gender				
Female	2448 (46.7%)	465 (40.0%)	185 (37.5%)	3098 (45.0%)
Male	2789 (53.3%)	697 (60.0%)	308 (62.5%)	3794 (55.1%)
AJCCv8 Stage				
Stage IA	4267 (81.5%)	443 (38.1%)	130 (26.4%)	4840 (70.2%)
Stage IB	766 (14.6%)	419 (36.1%)	126 (25.6%)	1311 (19.0%)
Stage IIA	204 (3.9%)	300 (25.8%)	237 (48.1%)	741 (10.8%)
Breslow thickness				
Median (Range)	0.6 (0-4)	1.2 (0.05-4)	1.5 (0.05-4)	0.7 (0-4)
Ulceration				
Absent	4934 (94.2%)	975 (83.9%)	352 (71.4%)	6261 (90.8%)
Unknown	163 (3.1%)	23 (2.0%)	13 (2.6%)	199 (2.9%)
Present	140 (2.7%)	164 (14.1%)	128 (26.0%)	432 (6.3%)

Results



Patients with Class 1A results had higher 5-year MSS than patients with Class 1B/2A or Class 2B results (98.8%, 94.7%, vs. 91.6%, p<0.001).



Patients with Class 1A results had higher 5-year OS than patients with Class 1B/2A or Class 2B results (93.8%, 88.5%, vs. 78.7%, p<0.001).

Table 2. Multivariable analysis identifies the 31-GEP as the strongest predictor of melanoma-specific and all-cause mortality

Factor	Melanoma-specific mortality		All-cause mortality	
	Hazard ratio	P-value	Hazard ratio	P-value
Class 1A	Reference	--	Reference	--
Class 1B/2A	2.81	<0.001*	1.46	0.015
Class 2B	3.34	<0.001*	1.91	<0.001*
Breslow thickness	1.14	0.392	1.13	0.124
Ulceration (absent)*	Reference	--	Reference	--
Ulceration (present)	1.49	0.207	1.05	0.805
Age	1.05	<0.001*	1.09	<0.001*
Mitotic rate	1.06	0.144	1.04	0.174

Bold indicates statistical significance (p<0.05).

*Ulceration unknown HR was ~0 (p>0.99).

Clinical Impact

- In a real-world cohort of patients considered low risk by AJCC staging, the 31-GEP identified patients at higher risk of mortality who may benefit from increased surveillance and management to improve outcomes.

Conclusions

- In a large, real-world cohort of patients with stage I-IIA CM, the 31-GEP stratified MSS and OS.
- The 31-GEP was the strongest predictor of melanoma-specific and all-cause mortality in multivariable analysis.

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Matching-adjusted Indirect Comparison of Efficacy in Patients With Moderate-to-Severe Atopic Dermatitis Treated With Lebrikizumab Plus Topical Corticosteroids Versus Dupilumab Plus Topical Corticosteroids

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BACKGROUND

- Lebrikizumab and dupilumab are monoclonal antibodies (biologic therapies) for treating patients with moderate-to-severe atopic dermatitis (AD).¹ Lebrikizumab is approved in Europe, Japan, Korea, and other countries, and it is under FDA review in the US.
- Without head-to-head clinical trials, indirect treatment comparisons (ITCs) can be used to evaluate relative efficacy.¹
- A recent study compared the week-16 efficacy of lebrikizumab plus topical corticosteroids (TCS) in the ADhere trial (NCT04250337) versus dupilumab plus TCS in the CHRONOS trial (NCT02260986) using Bucher’s ITC, which anchored on the placebo arm while not adjusting for between-trial population difference.² Bucher’s ITC method compares absolute trial outcomes and can lead to biased conclusions when patient characteristics that affect treatment response (i.e., effect modifiers) are not balanced between trials. The TCS approach also differed in the ADhere and CHRONOS trials, which may lead to different outcomes.
- A matching-adjusted indirect comparison (MAIC),³ a population-adjusted ITC, is a more suitable ITC method to compare the efficacy of lebrikizumab versus dupilumab because it adjusts for population differences between trials that may impact treatment effect.

OBJECTIVE

- This study compared the efficacy of lebrikizumab every 2 weeks plus TCS (Q2W+TCS) versus dupilumab Q2W+TCS at week 16 in patients with moderate-to-severe AD using an anchored MAIC.

CONCLUSION

- When using an anchored MAIC, a population-adjusted ITC, lebrikizumab Q2W+TCS and dupilumab Q2W+TCS showed similar efficacy at week 16 across multiple endpoints in patients with moderate-to-severe AD.

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RESULTS AND DISCUSSION

- The baseline characteristics of ADhere patients were well-matched to those of CHRONOS patients after study-level matching (i.e., after population-adjustment; **Table 1**).
- When patients from ADhere were re-weighted to match the CHRONOS population, lebrikizumab Q2W+TCS and dupilumab Q2W+TCS showed similar efficacy at week 16 across endpoints (**Table 2**; **Figure 1**).
- Although odds ratios (ORs) for EASI 75 (≥75% improvement in Eczema Area and Severity Index score from baseline) and IGA0/1 (Investigator Global Assessment score of 0/1) endpoints showed numerical superiority of lebrikizumab Q2W+TCS versus dupilumab Q2W+TCS, these ORs were not statistically different (**Figure 1**). The ORs for PNRS≥4 (Pruritus Numerical Rating Scale score ≥4-point improvement from baseline) and DLQI≥4 (Dermatology Life Quality Index score ≥4-point improvement from baseline) favoured dupilumab Q2W+TCS versus lebrikizumab Q2W+TCS, but they were also not statistically different (**Figure 1**).
- A MAIC is an appropriate method for comparing the efficacy of lebrikizumab Q2W+TCS versus dupilumab Q2W+TCS as it accounts for population heterogeneity between trials, which potentially impacts relative treatment effect.

Table 1. Baseline participant characteristics in ADhere before and after matching

	CHRONOS (dupilumab trial; target)	ADhere (lebrikizumab trial; before matching)	ADhere (lebrikizumab trial; after matching)
Age in years, mean (SD)	37.4 (13.3)	43.6 (17.0)	37.4 (13.4)
Proportion male	0.61	0.52	0.61
Proportion of white ethnicity	0.67	0.58	0.67
EASI, mean (SD)	32.9 (13.0)	27.1 (11.2)	32.9 (13.1)
Proportion with IGA=4	0.48	0.33	0.48
n/effective sample size	421	165	98

Data based on the weights when the whole ADhere adult population was used in the analysis. IGA=4 indicates severe atopic dermatitis. Abbreviations: EASI, Eczema Area and Severity Index; IGA, Investigator Global Assessment; SD, standard deviation.

Table 2. Efficacy at week 16 for lebrikizumab Q2W+TCS versus dupilumab Q2W+TCS when using a MAIC

	CHRONOS (dupilumab trial; target; response rate)		ADhere (lebrikizumab trial; pre-matching response rate)		ADhere (lebrikizumab trial; post-matching response rate)		MAIC risk ratio (95% CI)	MAIC odds ratio (95% CI)
	Placebo	Dupi	Placebo	Lebri	Placebo	Lebri		
EASI 75 ^a	0.23	0.69	0.35	0.62	0.24	0.72	1.04 (0.57–1.92)	1.14 (0.42–3.09)
IGA0/1 ^a	0.12	0.39	0.17	0.35	0.11	0.42	1.29 (0.48–3.42)	1.39 (0.42–4.60)
PNRS≥4 ^b	0.20	0.59	0.30	0.46	0.26	0.49	0.64 (0.32–1.28)	0.48 (0.17–1.37)
DLQI≥4 ^c	0.43	0.81	0.51	0.76	0.47	0.83	0.91 (0.59–1.40)	0.89 (0.29–2.70)

^a In CHRONOS, N=315 in the placebo group and N=106 in the dupi group. In ADhere, N=52 in the placebo group and N=113 in the lebri group (pre-matching); ESS=33 in the placebo group and ESS=65 in the lebri group (post-matching). ^b In CHRONOS, N=299 in the placebo group and N=102 in the dupi group. In ADhere, N=46 in the placebo group and N=106 in the lebri group (pre-matching); ESS=30 in the placebo group and ESS=63 in the lebri group (post-matching). ^c In CHRONOS, N=300 in the placebo group and N=100 in the dupi group. In ADhere, N=47 in the placebo group and N=104 in the lebri group (pre-matching); ESS=30 in the placebo group and ESS=64 in the lebri group (post-matching). For ^b and ^c, available patients with baseline values ≥4 points from the two trials were used in the analysis. The analysis populations in the target trial were assumed to have the same baseline characteristics as the whole CHRONOS population. The background therapy of “plus topical corticosteroids” was omitted in the labelling of arms in both trials. Abbreviations: CI, confidence interval; DLQI≥4, Dermatology Life Quality Index score ≥4-point improvement from baseline; dupi, dupilumab; EASI 75, ≥75% improvement in Eczema Area and Severity Index score from baseline; ESS, effective sample size; IGA0/1, Investigator Global Assessment score of 0/1; lebri, lebrikizumab; MAIC, matching-adjusted indirect comparison; PNRS≥4, Pruritus Numerical Rating Scale score ≥4-point improvement from baseline; Q2W+TCS, every 2 weeks plus topical corticosteroids.

METHODS

- **Data sources:** The efficacy of lebrikizumab Q2W+TCS was assessed using individual patient data from the placebo-controlled ADhere trial (NCT04250337). The efficacy of dupilumab Q2W+TCS was assessed using aggregate patient data (N=421) from the placebo-controlled CHRONOS trial (NCT02260986). Week-16 data from both trials were included.
- **Statistical methods:** An anchored MAIC was used where the respective placebo+TCS arm was used as the common comparator. ADhere patients (N=165) were re-weighted to align with reported aggregate statistics for effect modifiers of patients in the CHRONOS trial. Study-level matching was performed, and matching covariates included age, sex, race, and baseline scores on the Eczema Area and Severity Index (EASI; mean) and the Investigator Global Assessment (IGA; proportion with IGA=4).
- **Endpoints:** Efficacy endpoints evaluated at week 16 were EASI 75, IGA0/1, PNRS≥4, and DLQI≥4. Missing data for efficacy endpoints in both trials were handled using non-responder imputation. Relative treatment effects were quantified using ORs and risk ratios (RRs) with 95% confidence intervals (CIs).

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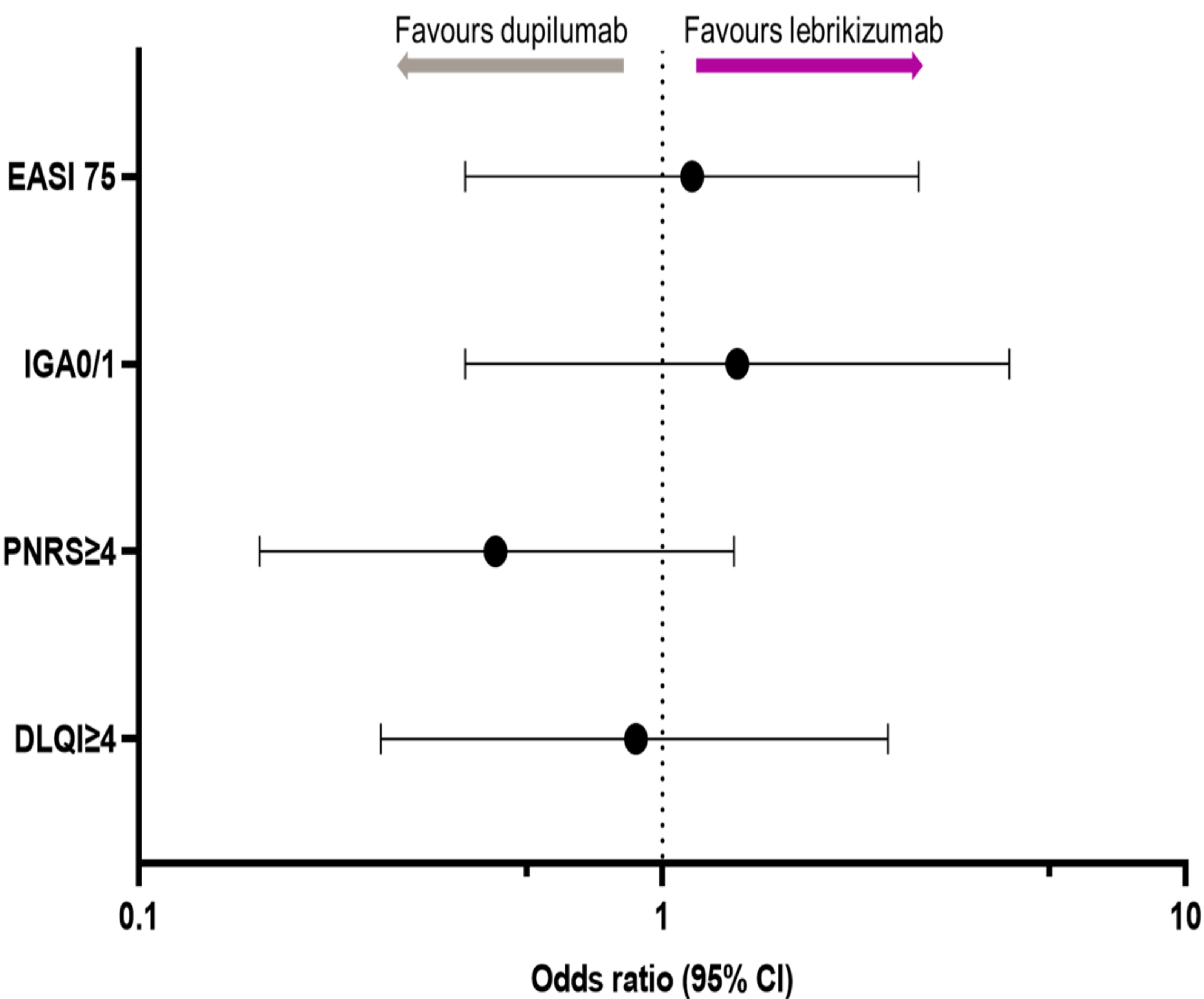


Figure 1. Efficacy at week 16 for lebrikizumab Q2W+TCS versus dupilumab Q2W+TCS when using a MAIC

Abbreviations: CI, confidence interval; DLQI≥4, Dermatology Life Quality Index score ≥4-point improvement from baseline; EASI 75, ≥75% improvement in Eczema Area and Severity Index score from baseline; IGA0/1, Investigator Global Assessment score of 0/1; MAIC, matching-adjusted indirect comparison; PNRS≥4, Pruritus Numerical Rating Scale score ≥4-point improvement from baseline; Q2W+TCS, every 2 weeks plus topical corticosteroids.

Efficacy and safety of oral deucravacitinib in patients with cutaneous manifestations of lupus erythematosus: results from PAISLEY CLE, a global, randomized, placebo-controlled, phase 2 trial

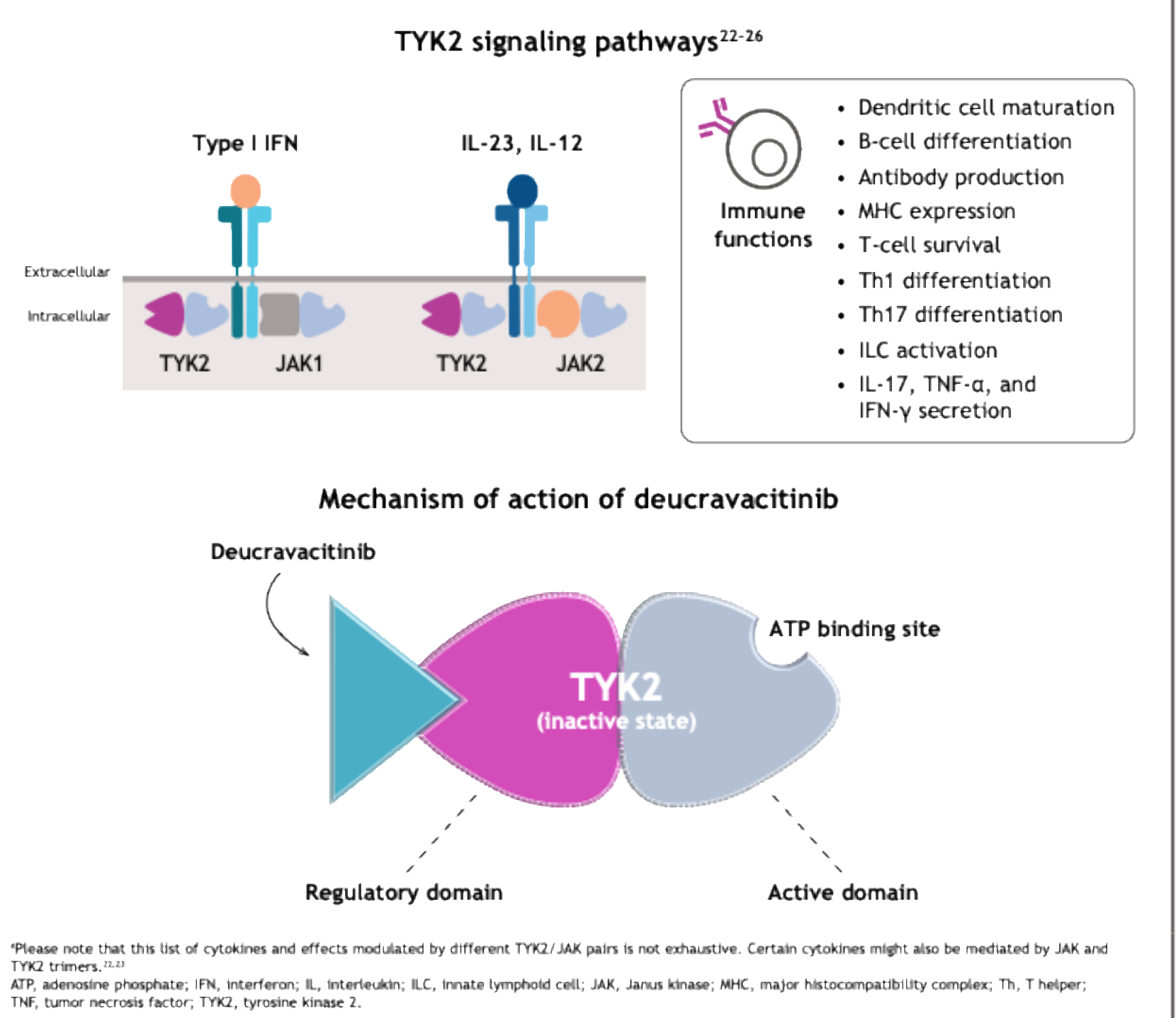
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Introduction

- Cutaneous lupus erythematosus (CLE) is an autoimmune disease with a broad range of dermatologic manifestations and a high unmet need for novel treatments¹.
- CLE may be associated with systemic lupus erythematosus (SLE) and is classified into 4 main subtypes: acute (ACLE), subacute (SCL), chronic (the most common manifestation is discoid [DLE]), and intermittent (ICLE) cutaneous lupus erythematosus, according to European guidelines^{1,5}.
- DLE and SCL are the most common forms of CLE, accounting for approximately 80% and 16% of cases, respectively⁶.
- Tyrosine kinase 2 (TYK2) is an important mediator of cytokine signaling (eg, type I and III interferons [IFNs], interleukin [IL]-23, and IL-12) involved in immune-specific responses (Figure 1)⁷⁻⁹.
- TYK2 and type I and III IFNs are known to be involved in CLE pathophysiology¹⁰.
- Genetic polymorphisms in TYK2, interferon regulatory factor 5 (IRF5), and signal transducer and activator of transcription 4 (STAT4) are associated with an increased risk of SLE¹¹⁻¹³ as well as DLE and SCL¹⁴.
- Levels of IFN-regulated gene expression correlate with cutaneous disease activity in patients with SLE¹⁵.
- Increases in cytokines, including type I and III IFNs, have been characterized in DLE lesions from patients with SLE^{10,14}.
- Deucravacitinib is a first-in-class, oral, selective TYK2 inhibitor¹⁵ (Figure 1) with an established clinical profile in moderate to severe plaque psoriasis¹⁶⁻¹⁸.
- Deucravacitinib is approved in multiple countries for this indication^{19,20}.
- Deucravacitinib uniquely binds the distinct TYK2 regulatory domain, locking the enzyme in an inactive state and inhibiting downstream cytokine signaling, whereas Janus kinase (JAK)1,2,3 inhibitors bind to the adenosine triphosphate (ATP) binding site on the active domain^{6,21}.

Figure 1. TYK2-mediated signaling pathways and deucravacitinib mechanism of action



- Deucravacitinib is currently under investigation in five POETKY phase 3 trials in SLE (NCT05617677 and NCT05620407), Sjögren's disease (NCT05946941), and psoriatic arthritis (PSA; NCT04908202 and NCT04908189), with primary analysis results from 1 PSA study recently reported²².
- In the phase 2 PAISLEY SLE trial, deucravacitinib showed higher rates of achieving a $\geq 50\%$ reduction from baseline in the Cutaneous Lupus Erythematosus Disease Area and Severity Index-Activity (CLASI-A) score (CLASI-50) at week 48 in the overall SLE population¹⁵.
- CLASI-50 rates in patients with SLE who received deucravacitinib 3 mg twice daily (BD), 6 mg BD, and 12 mg once daily (QD) vs placebo were 69.6%, 56.0%, and 62.1% vs 16.7%, respectively.
- Subgroup analyses from PAISLEY also showed higher rates of CLASI-50 response with deucravacitinib 3 mg BD, 6 mg BD, and 12 mg QD vs placebo, although the patient numbers per group were small²³.
- Patients with SLE and ACLE: 68.4%, 54.2%, and 60.0% vs 15.0%, respectively.
- Patients with SLE and SCL: 100%, 33.3%, and 80.0% vs 0%, respectively.
- Patients with SLE and DLE: 71.4%, 45.5%, and 66.7% vs 25.0%, respectively.

Objective

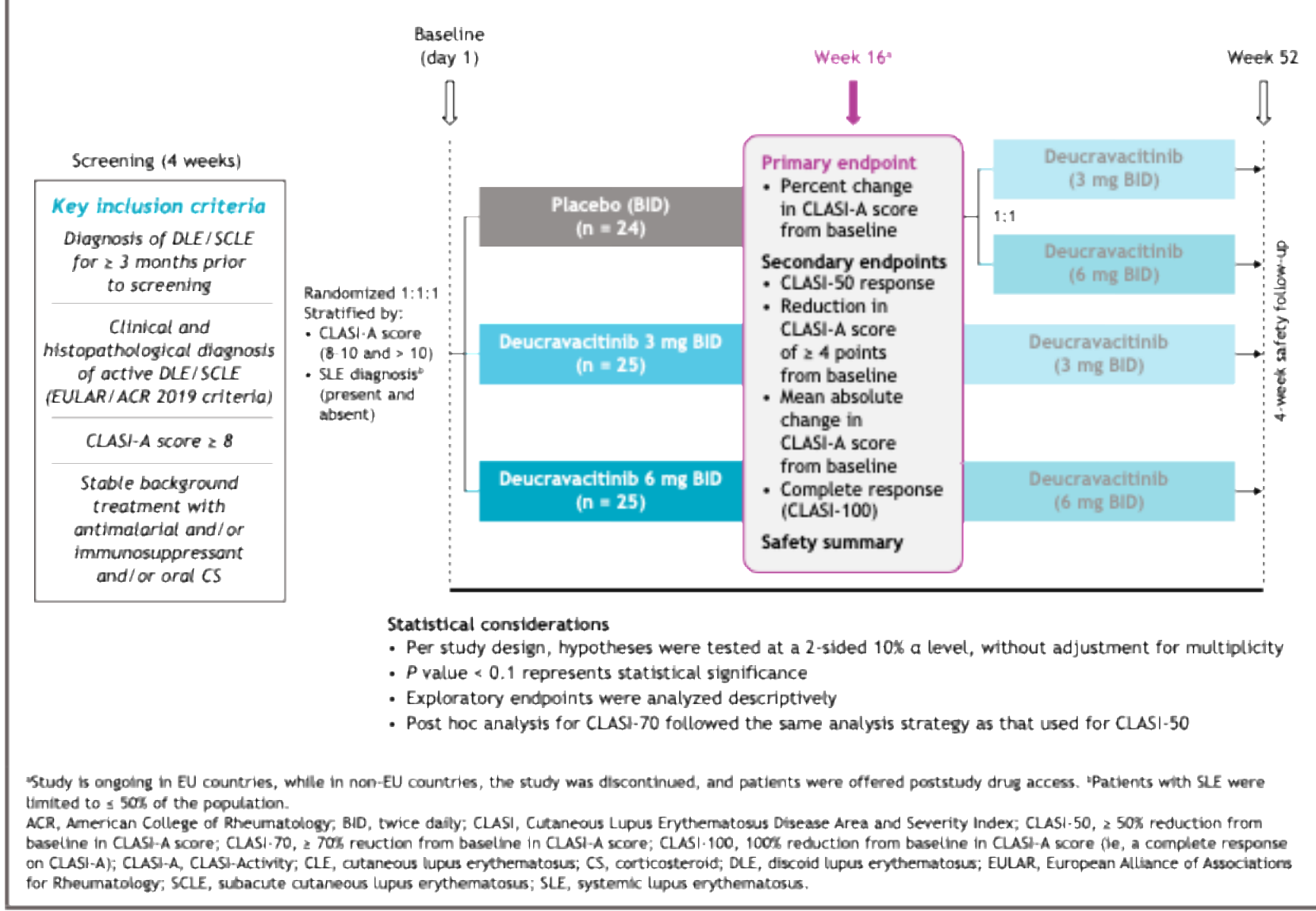
- The phase 2 PAISLEY CLE study was initiated to evaluate the efficacy and safety of deucravacitinib (3 mg and 6 mg BD) vs placebo in patients with DLE and/or SCL with or without SLE.

Methods

Study design

- Adults with a histologically confirmed clinical diagnosis of DLE and/or SCL with active, moderate to severe cutaneous disease (CLASI-A score ≥ 8) were enrolled in this global, randomized, double-blind, placebo-controlled, phase 2 trial (NCT04857034) (Figure 2).
- Patients with SLE, according to the Systemic Lupus International Collaborating Clinics (SLICC) classification criteria, were limited to $\leq 50\%$ of the study population.
- Patients were randomized 1:1:1 to receive placebo or deucravacitinib (3 mg BD or 6 mg BD) for 16 weeks.
- At week 16, patients receiving placebo were rerandomized to deucravacitinib 3 mg BD or 6 mg BD until week 52; patients originally randomized to deucravacitinib continued the same treatment until week 52.
- The study is ongoing in EU countries; in non-EU countries, the study was discontinued, and patients were offered treatment through a poststudy drug access program.
- The study primary endpoint was mean percent change from baseline (CFB) in CLASI-A score at week 16.
- CLASI-50 and mean absolute CFB in CLASI-A score at week 16 were among the secondary endpoints evaluated.
- Exploratory endpoints included mean percent CFB in CLASI-A score by visit to week 52, reduction of CLASI-A score at least 7 points at week 16, and CFB in the patient-reported outcome of skin pain at week 16, as measured by the skin pain visual analog scale (VAS).
- Achievement of a $\geq 70\%$ reduction from baseline in CLASI-A score (CLASI-70) at week 16, achievement of a CLASI-A score of ≤ 3 points at week 16, and time to CLASI-50 response were post hoc analyses.
- Hypotheses were tested at a 2-sided 10% α level, with a P value of < 0.1 representing statistical significance.
- No adjustments for multiplicity were made in this phase 2 study; exploratory endpoints were analyzed descriptively.

Figure 2. PAISLEY CLE phase 2 study design



Results

Patients

- Patients (N = 74) were randomized to placebo (n = 24), deucravacitinib 3 mg BD (n = 25), or deucravacitinib 6 mg BD (n = 25) (Table 1).
- Most patients in all arms completed treatment (63/74; 85.1%); no patients withdrew from the study due to adverse events or lack of efficacy (Table 1).
- Baseline patient demographics and disease characteristics were generally balanced across arms (Tables 2 and 3).
- At screening, 41%, 32.0%, and 52.0% of patients in the placebo, deucravacitinib 3 mg BD, and deucravacitinib 6 mg BD groups, respectively, had SLE.

Table 1. Patient disposition through week 16

Disposition	Placebo (n = 24)	Deucravacitinib 3 mg BD (n = 25)	Deucravacitinib 6 mg BD (n = 25)
Randomized, n	24	25	25
Completed through week 16, n (%)	22 (91.7)	21 (84.0)	20 (80.0)
Ongoing treatment, n (%)	0	0	1 (4) ^a
Discontinued treatment, n (%)	2 (8.3)	4 (16.0)	4 (16.0)
Reasons for discontinuation, n (%)			
Patient withdrew consent	2 (8.3)	1 (4.0)	1 (4.0)
Patient requested treatment discontinuation	0	2 (8.0)	2 (8.0)
Pregnancy	0	1 (4.0)	1 (4.0)
Adverse event	0	0	0
Death	0	0	0

Table 2. Baseline patient demographics

Demographics	Placebo (n = 24)	Deucravacitinib 3 mg BD (n = 25)	Deucravacitinib 6 mg BD (n = 25)
Age, median (range), years	46 (25-72)	48 (20-74)	42 (21-62)
Weight, median (range), kg	69.55 (51.3-93.0)	73.50 (43.2-129.0)	74.80 (51.0-119.0)
BMI, median (range), kg/m ²	25.6 (19.0-30.9)	24.7 (18.0-42.5)	27.7 (18.5-43.7)
Female, n (%)	18 (75.0)	17 (68.0)	19 (76.0)
Race, n (%)			
American Indian or Alaska Native	3 (12.5)	1 (4.0)	0
Asian	2 (8.3)	2 (8.0)	3 (12.0)
Black or African American	2 (8.3)	4 (16.0)	6 (24.0)
White	13 (54.2)	17 (68.0)	13 (52.0)
Other	4 (16.7)	1 (4.0)	3 (12.0)
Ethnicity, n (%)			
Hispanic or Latino	13 (54.2)	9 (36.0)	5 (20.0)
Not Hispanic or Latino	11 (45.8)	16 (64.0)	20 (80.0)
Geographic region, n (%)			
Asia	2 (8.3)	1 (4.0)	2 (8.0)
Europe	6 (25.0)	8 (32.0)	11 (44.0)
North America	5 (20.8)	8 (32.0)	8 (32.0)
South America/Latin America	11 (45.8)	7 (28.0)	3 (12.0)
Rest of world	0	1 (4.0)	1 (4.0)

Table 3. Baseline disease characteristics

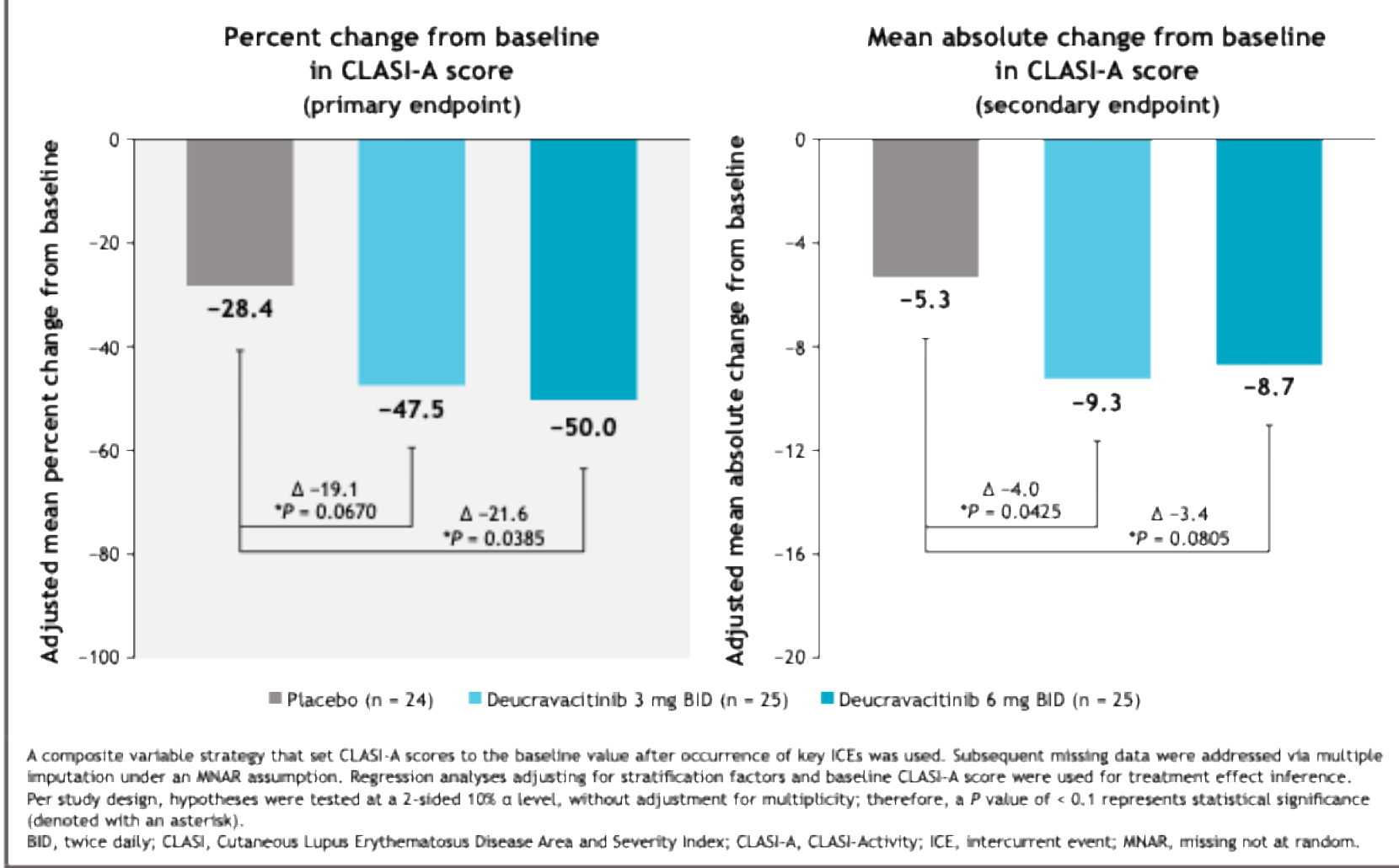
Disease characteristics	Placebo (n = 24)	Deucravacitinib 3 mg BD (n = 25)	Deucravacitinib 6 mg BD (n = 25)
Baseline total CLASI-A score			
Mean (SD)	16.0 (6.1)	18.1 (10.6)	14.8 (5.2)
Median (range)	16.0 (8-33)	14.0 (8-44)	14.0 (8-29)
Baseline CLASI-A severity, n (%)			
8-10	5 (20.8)	5 (20.0)	7 (28.0)
> 10	19 (79.2)	20 (80.0)	18 (72.0)
Duration of disease, median (range), years	4.5 (0.3-39.2)	6.3 (0.4-42.1)	6.9 (0.6-35.1)
SLE diagnosis at screening, n (%)	10 (41.7)	8 (32.0)	13 (52.0)
Disease subtypes, n (%)			
DLE	13 (54.2)	15 (60.0)	19 (76.0)
SCL	5 (20.8)	5 (20.0)	5 (20.0)
Both DLE and SCL	6 (25.0)	5 (20.0)	1 (4.0)
Baseline therapies of interest, n (%)			
Oral corticosteroids	13 (54.2)	8 (32.0)	5 (20.0)
Topical corticosteroids	2 (8.3)	2 (8.0)	1 (4.0)
Immunosuppressants	8 (33.3)	7 (28.0)	3 (12.0)
Antimalarials	20 (83.3)	24 (96.0)	20 (80.0)
Prior therapies, n (%)			
Oral corticosteroids	6 (25.0)	5 (20.0)	0
Topical corticosteroids	12 (50.0)	14 (56.0)	13 (52.0)
Immunosuppressants	12 (50.0)	8 (32.0)	11 (44.0)
Antimalarials	8 (33.3)	3 (12.0)	5 (20.0)

See report in the patient's case report form. BD, twice daily; CLASI, Cutaneous Lupus Erythematosus Disease Area and Severity Index; CLASI-A, CLASI-Activity; DLE, discoid lupus erythematosus; SCL, subacute cutaneous lupus erythematosus; SD, standard deviation; SLE, systemic lupus erythematosus.

Efficacy

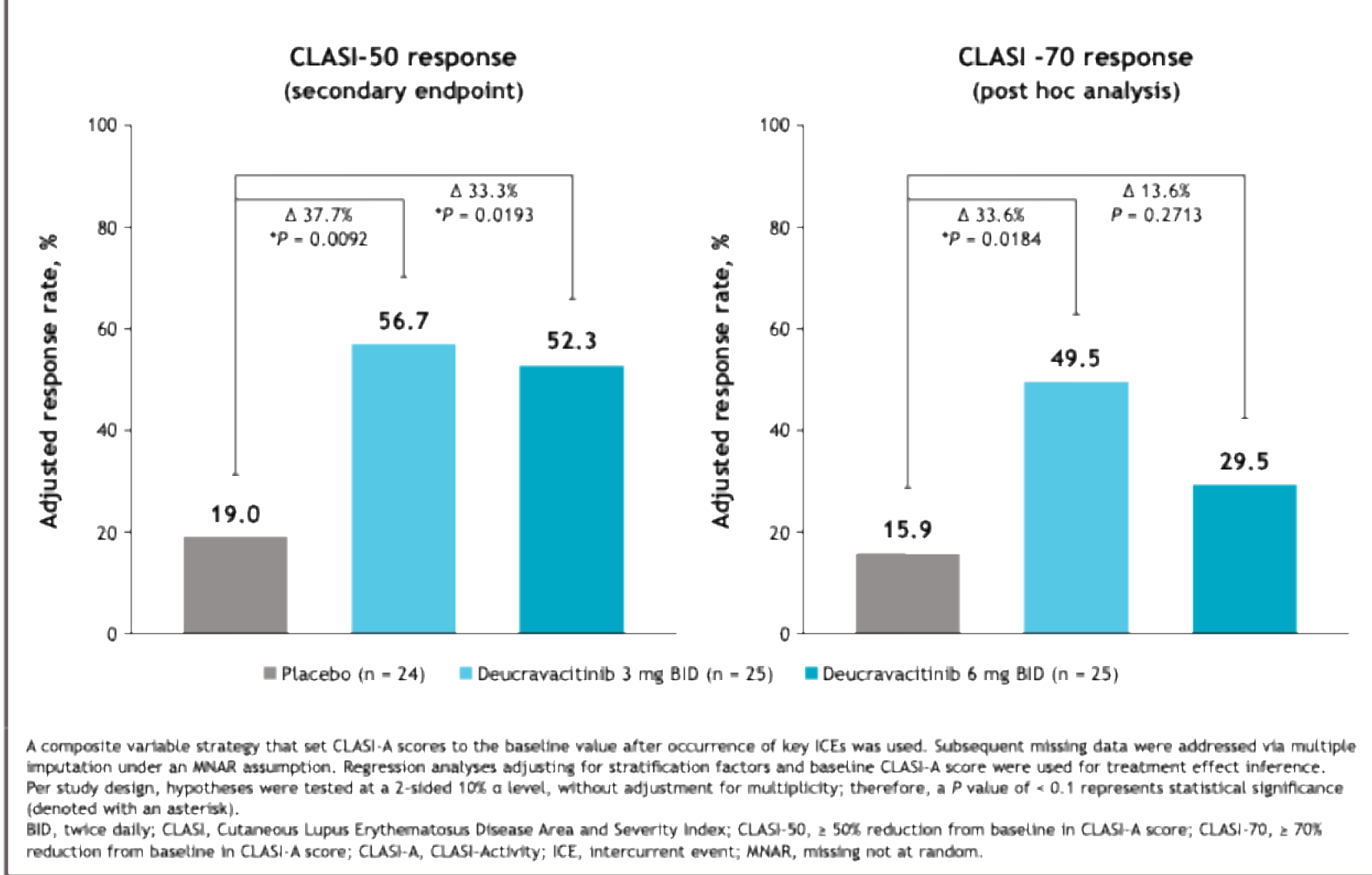
- The primary endpoint was met; patients treated with deucravacitinib achieved significantly greater improvements in CLASI-A score vs placebo (Figure 3).
- Deucravacitinib 3 mg BD vs placebo: -47.5% vs -28.4%; P = 0.0670.
- Deucravacitinib 6 mg BD vs placebo: -50.0% vs -28.4%; P = 0.0385.

Figure 3. Improvement in CLASI-A score from baseline at week 16



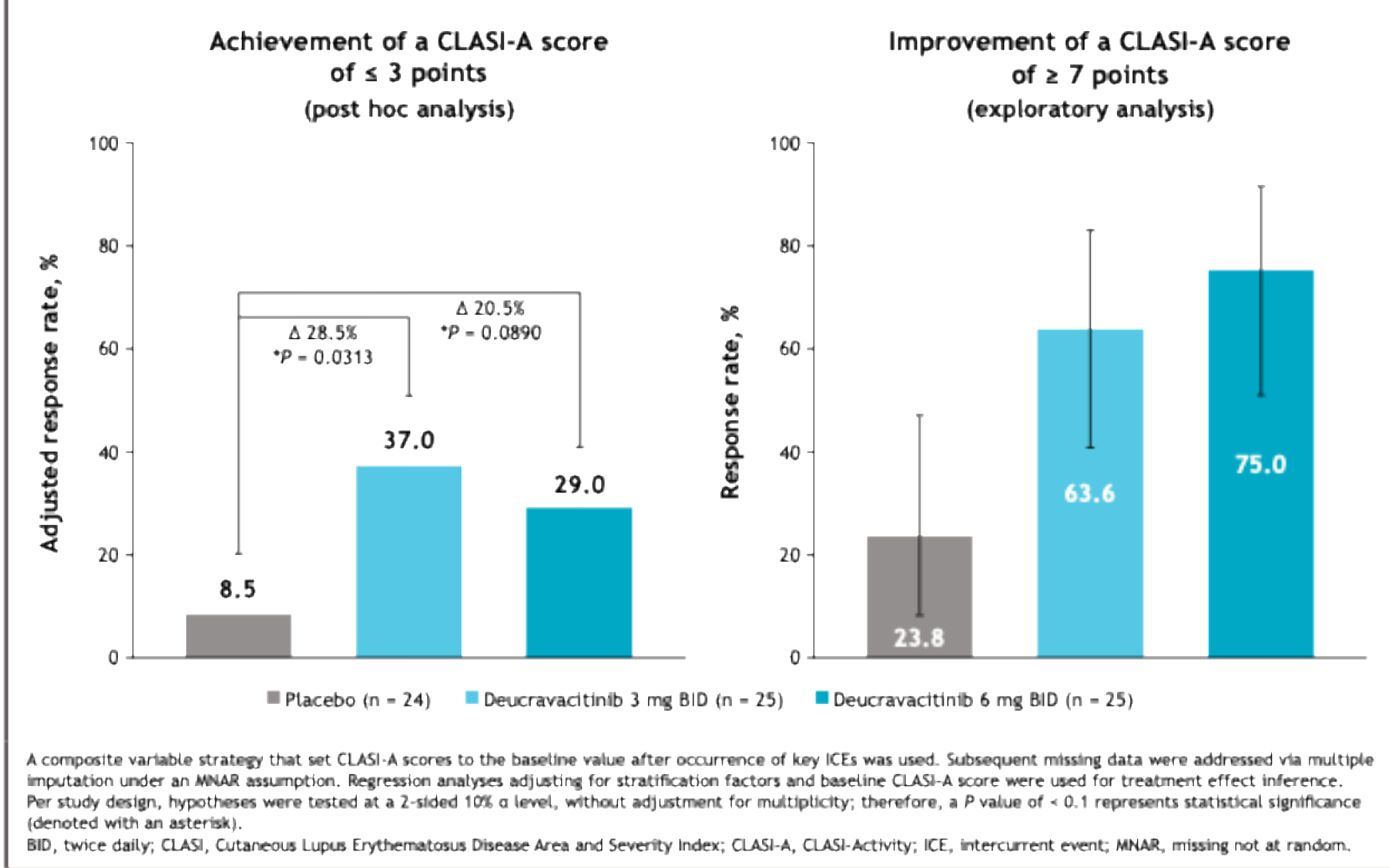
- More patients treated with deucravacitinib achieved CLASI-50 and CLASI-70 vs placebo (Figure 4).

Figure 4. CLASI-50 and CLASI-70 responses at week 16



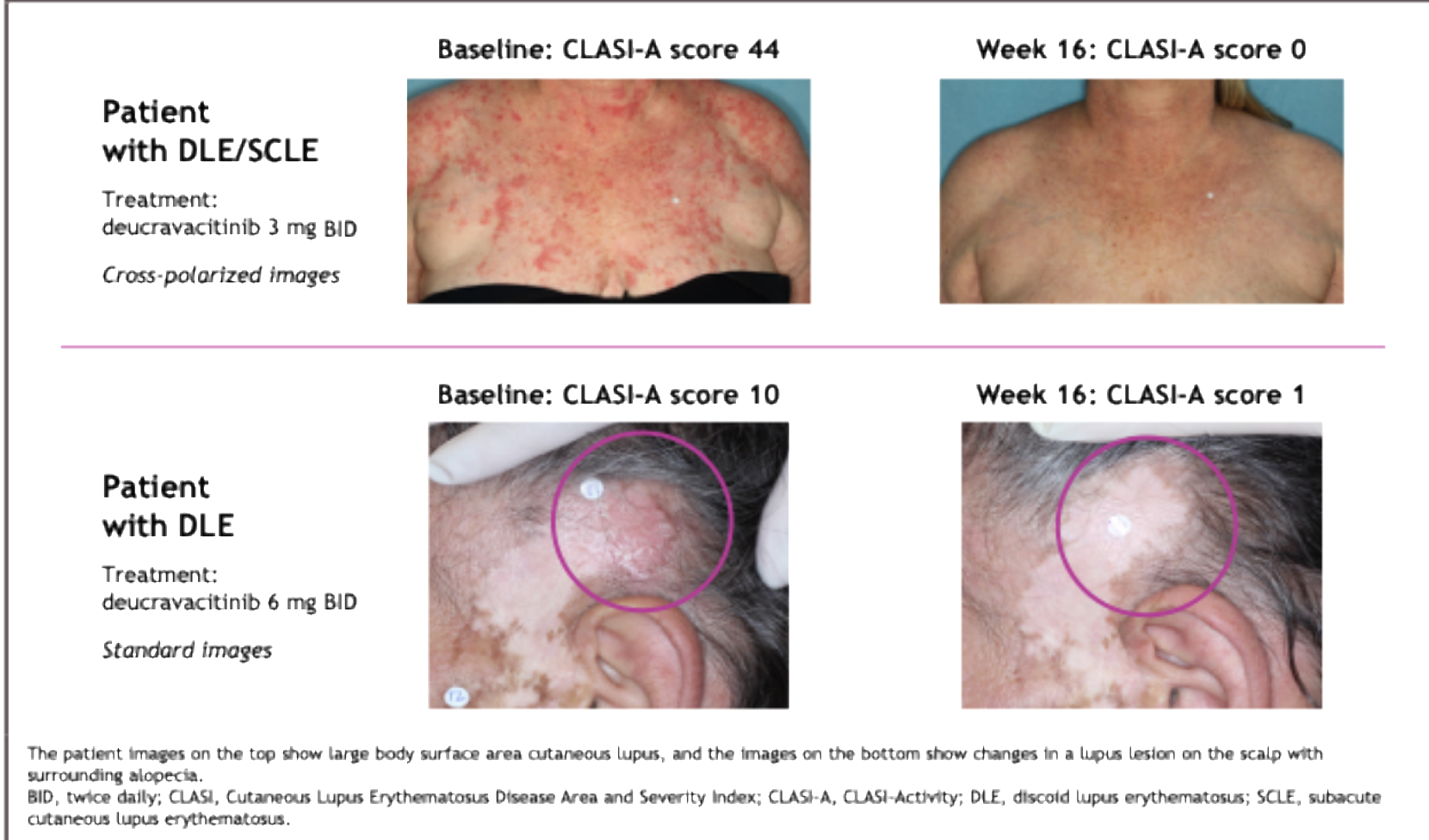
- A complete response on CLASI-A (100% reduction from baseline in CLASI-A score), which represents a complete resolution of symptoms, was achieved by 4 patients treated with deucravacitinib (3 mg BD, n = 3; 6 mg BD, n = 1) and no patients who received placebo.
- More patients treated with deucravacitinib vs placebo achieved a CLASI-A score of ≤ 3 points or showed at least a 7-point improvement in CLASI-A score (Figure 5).

Figure 5. Achievement of a CLASI-A score of ≤ 3 points and improvement in CLASI-A score of at least 7 points at week 16



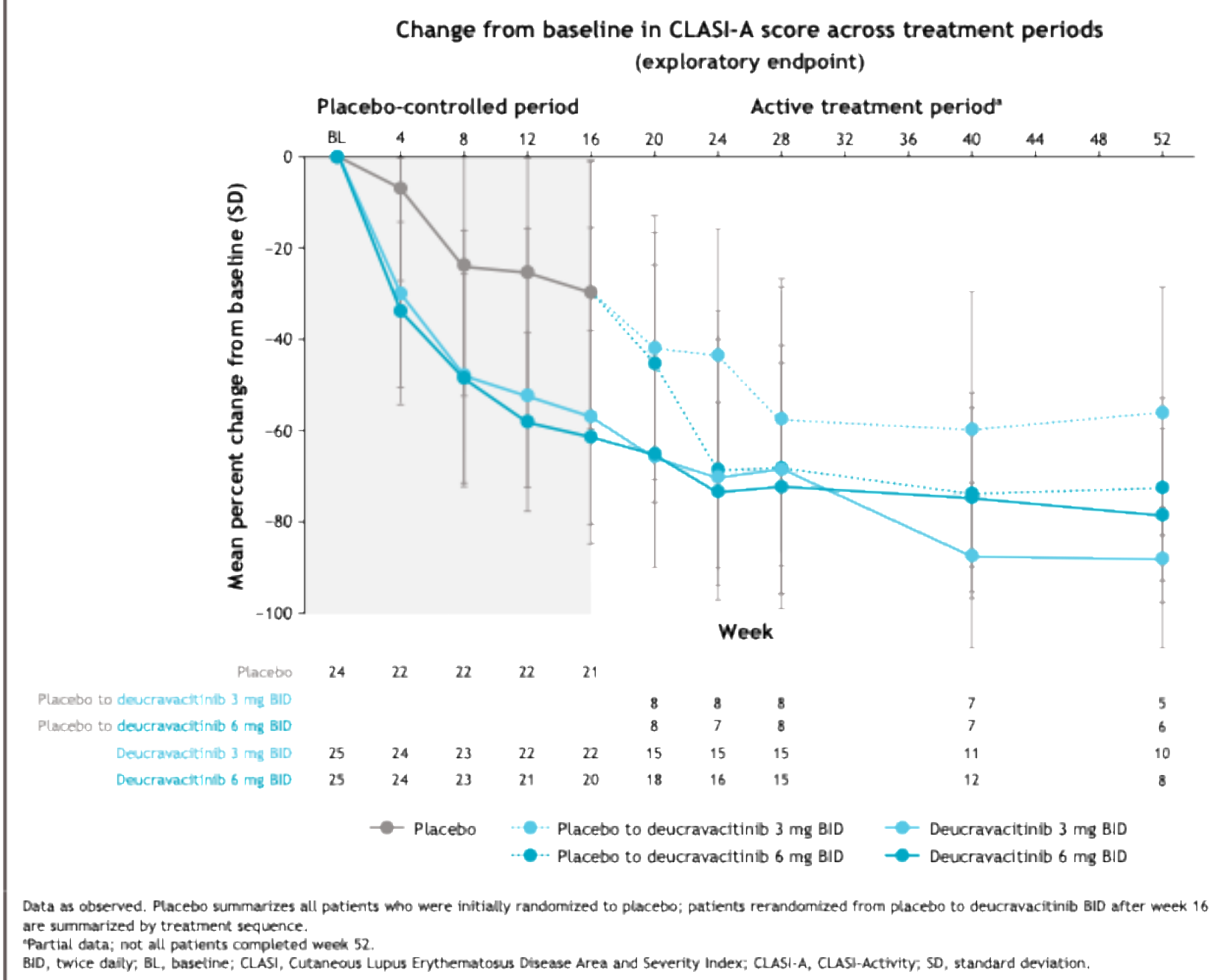
- Patient images captured at week 16 show improvement in the cutaneous manifestations of 2 patients who achieved CLASI-A scores of 0 and 1, respectively (Figure 6).

Figure 6. Skin improvement at week 16



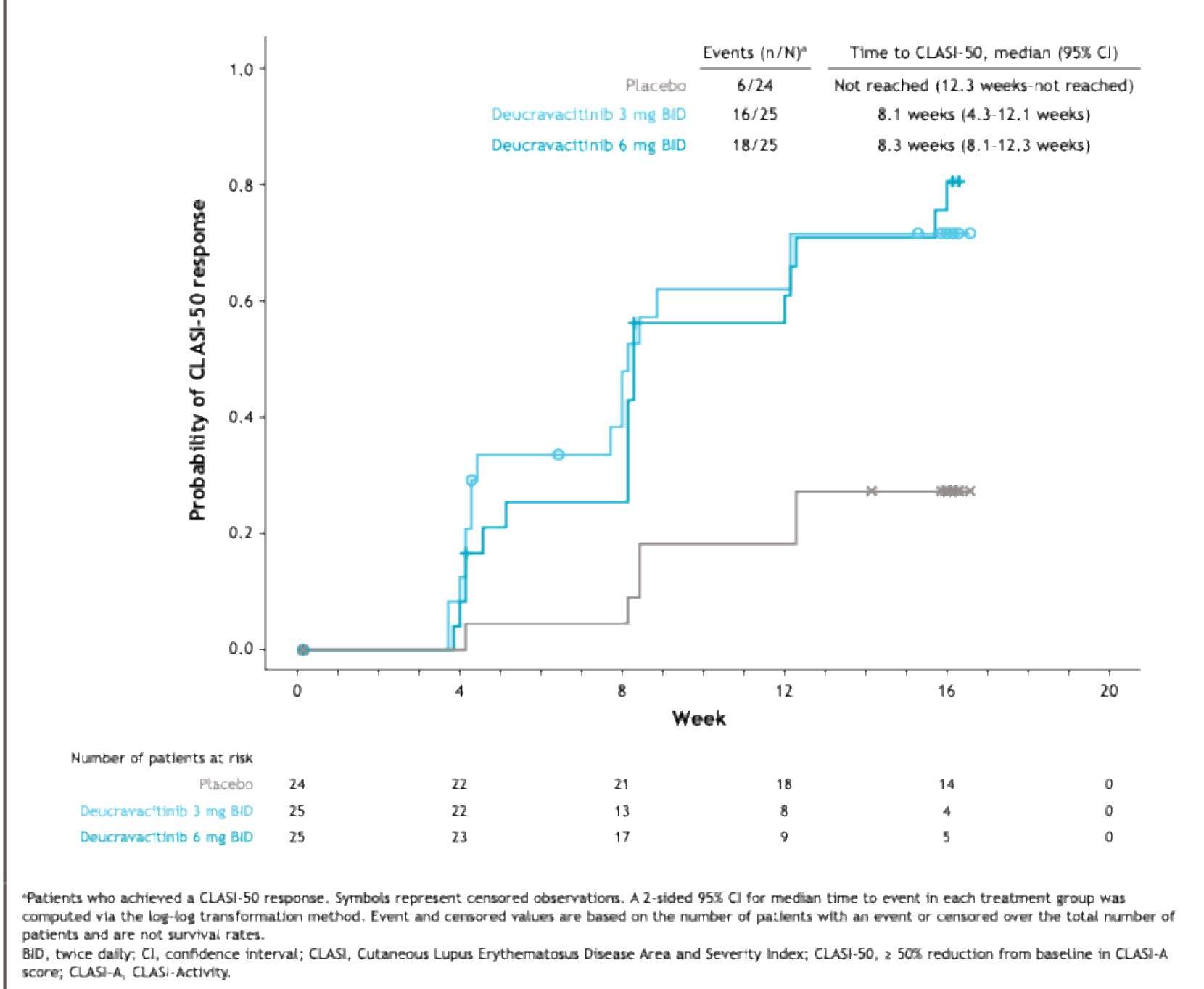
- Analysis of CLASI-A score over time showed numerical improvements in CLASI-A score with both deucravacitinib doses as early as 4 weeks, with a trend toward continued improvement throughout the study (Figure 7).
- Response to deucravacitinib (separation of the curves) was seen as early as 4 weeks.

Figure 7. Improvement in CLASI-A score from baseline by visit



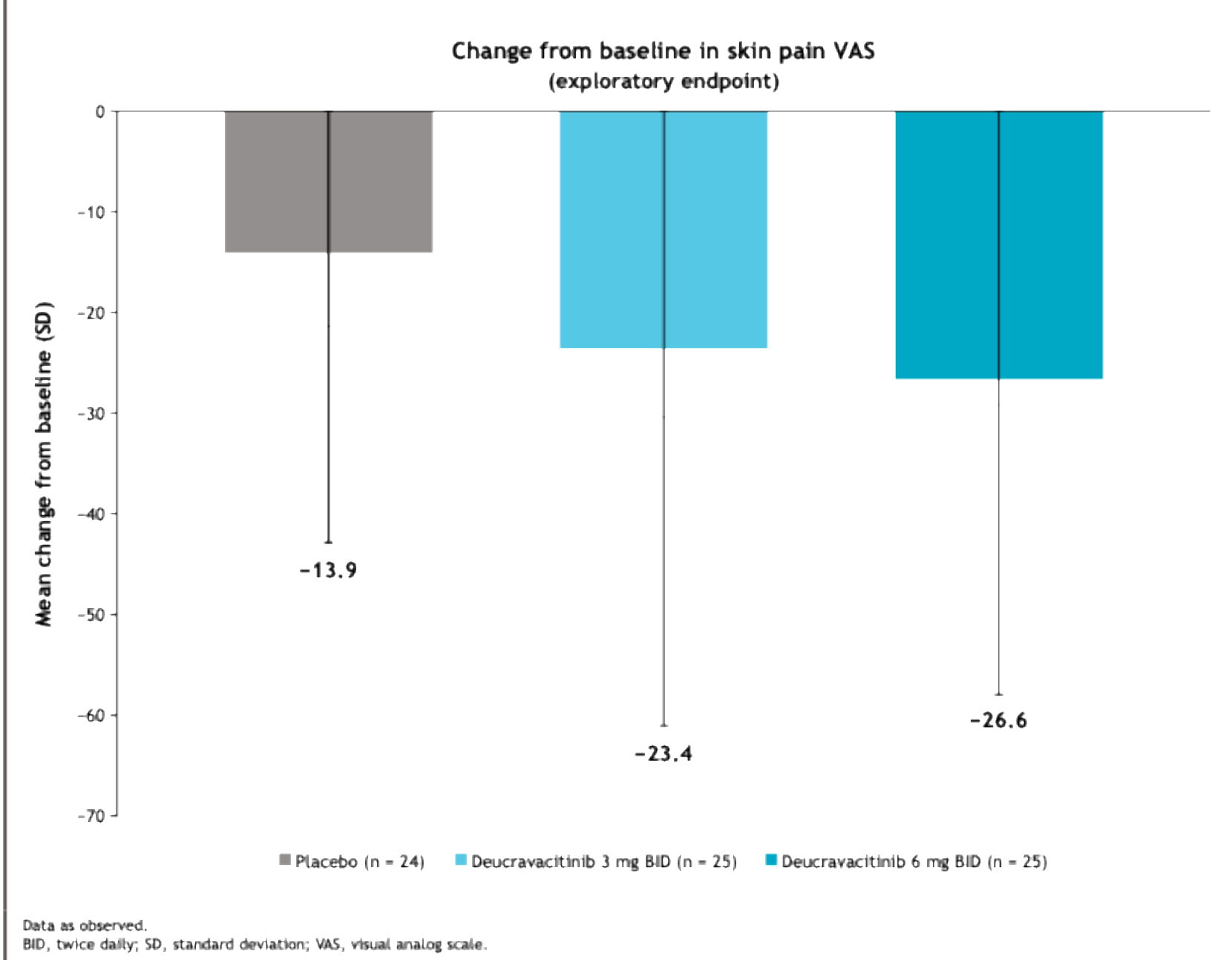
- Median time to CLASI-50 response was 8.1 weeks with deucravacitinib 3 mg BD, 8.3 weeks with deucravacitinib 6 mg BD, and not reached with placebo (Figure 8).

Figure 8. Time to CLASI-50 response



- The patient-reported outcome of skin pain was numerically improved with both deucravacitinib doses vs placebo at week 16 (Figure 9).

Figure 9. Improvement in skin pain VAS from baseline at week 16



Safety

- The reported adverse events (AEs) (Table 4) are consistent with the known safety profile of deucravacitinib¹⁶⁻¹⁸.
- The most common AEs with deucravacitinib 3 mg and 6 mg BD at week 16 included headache, dermatitis acneiform, and upper respiratory tract infection (Table 4).
- Most AEs were mild to moderate in severity; no discontinuations due to AEs were observed (Table 4).
- No cases of herpes zoster, major adverse cardiac events (MACE), venous thromboembolism (VTE), malignancy, or opportunistic infections occurred with deucravacitinib, and no deaths were reported (Table 4).
- No significant changes in laboratory parameters were observed (Figure 10).

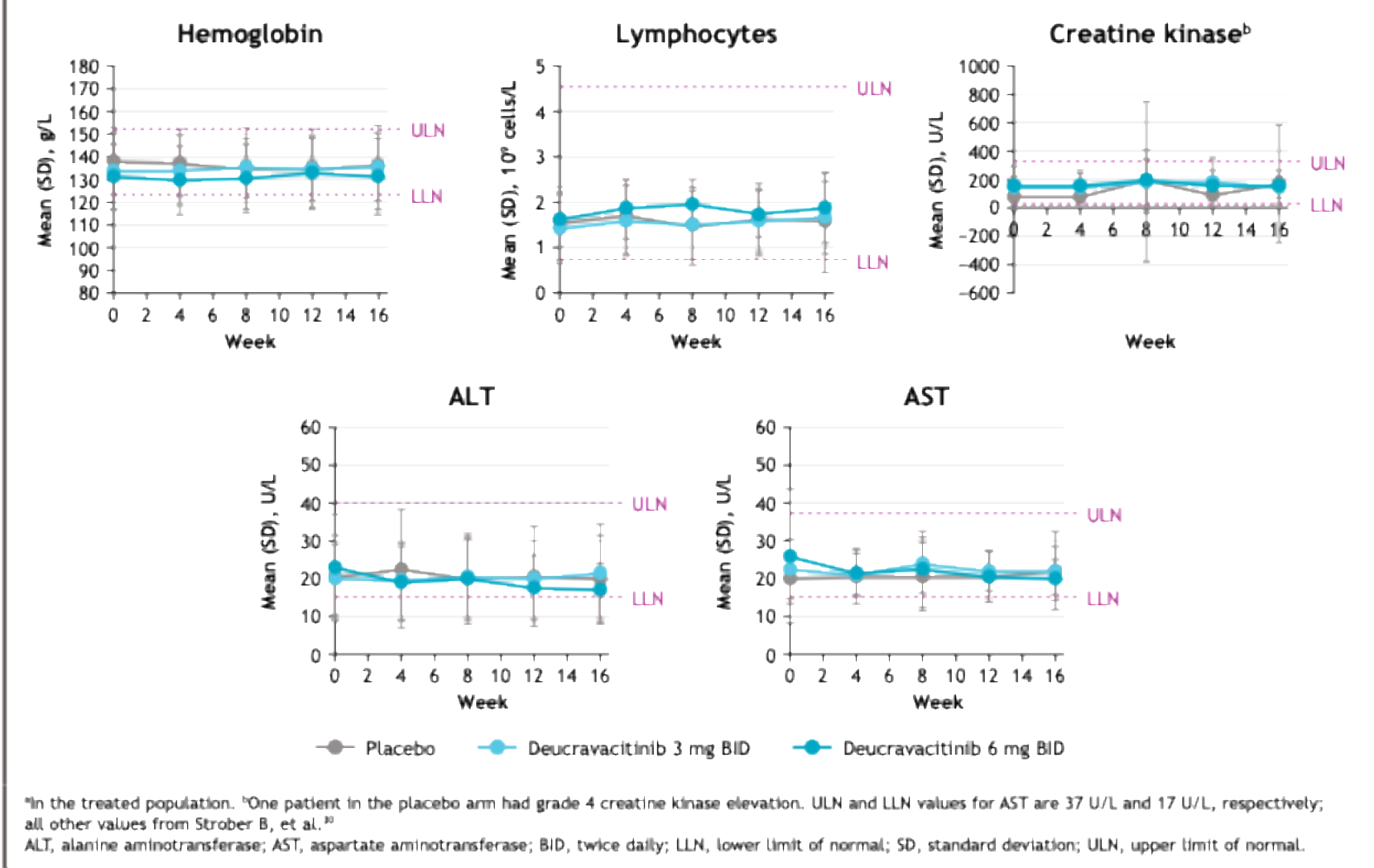
Table 4. Safety summary: weeks 0-16^a

Patients with an AE, n (%)	Placebo (n = 24)	Deucravacitinib 3 mg BD (n = 25)	Deucravacitinib 6 mg BD (n = 25)
Deaths	0	0	0
AEs	12 (50.0)	17 (68.0)	19 (79.2)
Serious AEs	1 (4.2) ^b	2 (8.0)	2 (8.3) ^c
Serious infections/infestations	0	1 (4.0)	1 (4.2)
AEs leading to discontinuation	0	0	0
Most frequent AEs (≥ 2 patients)			
Headache	0	3 (12.0)	1 (4.2)
Dermatitis acneiform	0	2 (8.0)	5 (20.8)
Upper respiratory tract infection	1 (4.2)	2 (8.0)	3 (12.5)
Other AEs of interest			
Overall infections/infestations			
Influenza	0	1 (4.0)	0
COVID-19	0	1 (4.0)	1 (4.2)
Oral herpes	0	1 (4.0)	0
Herpes zoster	1 (4.2)	0	0
Skin-related AEs			
Rash	0	1 (4.0)	2 (8.3)
Folliculitis	0	2 (8.0)	2 (8.3)
Malignancy events	1 (4.2)	0	0
MACE or VTE	0	0	0
Opportunistic infections	0	0	0

AEs per CTCAE version 5.0 and MedDRA version 27.0. Includes events reported between the first treatment dose and 30 days after the last treatment dose. All other events from Study 8, n = 4.

In the treated population. ^aOne herpes and one varicella. ^bOne herpes and one varicella. ^cOne herpes and one varicella. MACE, major adverse cardiac events; MedDRA, Medical Dictionary for Regulatory Activities; VTE, venous thromboembolism.

Figure 10. Laboratory parameters^a over time



Conclusions

- In the PAISLEY CLE study, the primary endpoint was met, with statistically significant improvements in percent change in CLASI-A score with deucravacitinib 3 mg BD and 6 mg BD vs placebo at week 16 in patients with DLE and/or SCL, with or without SLE.
- Other measures of CLASI-A were also improved with deucravacitinib, including CLASI-50 and CLASI-70 responses, achievement of CLASI-A score of ≤ 3 points, and improvement of CLASI-A score of at least 7 points.
- An early clinical response was seen, which continued over time.
- Skin pain was generally improved with deucravacitinib vs placebo.
- Deucravacitinib was well tolerated, and AEs were consistent with the known safety profile^{16-18,29}.
- No opportunistic infections, MACE, VTE, AEs leading to treatment discontinuation, or deaths were observed.
- No clinically meaningful trends in laboratory parameters were observed.
- These data support the further evaluation of deucravacitinib for the treatment of cutaneous manifestations of lupus, including in patients with SLE in the ongoing phase 3 POETKY SLE trials (NCT05617677, NCT05620407).

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Deucravacitinib in moderate to severe plaque psoriasis: 5-year, long-term safety and efficacy results from the phase 3 POETYK PSO-1, PSO-2, and LTE trials

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Introduction

- Tyrosine kinase 2 (TYK2) is an intracellular enzyme that mediates signaling of select inflammatory cytokines (eg, interleukin [IL]-23, IL-12, Type I interferons [IFNs])¹
 - IL-23 and Type I IFNs are involved in psoriasis pathogenesis¹
- Deucravacitinib, an oral, selective, allosteric TYK2 inhibitor, is approved in the US, EU, and other countries for the treatment of adults with moderate to severe plaque psoriasis who are candidates for systemic therapy²⁻⁶
- Deucravacitinib uniquely binds to the TYK2 regulatory domain rather than to the catalytic domain where Janus kinase 1,2,3 inhibitors bind,^{1,7} driving its selectivity for TYK2 and representing the first in a new class of oral drugs
- The global, 52-week, phase 3 POETYK PSO-1 (NCT03624127) and POETYK PSO-2 (NCT03611751) trials demonstrated that deucravacitinib 6 mg once daily (QD) was significantly more efficacious than placebo and apremilast at Week 16 and was well tolerated in patients with moderate to severe plaque psoriasis^{8,9}
- Patients who completed the POETYK PSO-1 and PSO-2 parent trials could enroll in the ongoing POETYK long-term extension (LTE) (NCT04036435) trial and receive open-label deucravacitinib
- Clinical efficacy was previously reported to be well maintained through 4 years, with no new safety signals compared with Year 3, in deucravacitinib-treated patients in the ongoing POETYK LTE trial^{10,11}

Objective

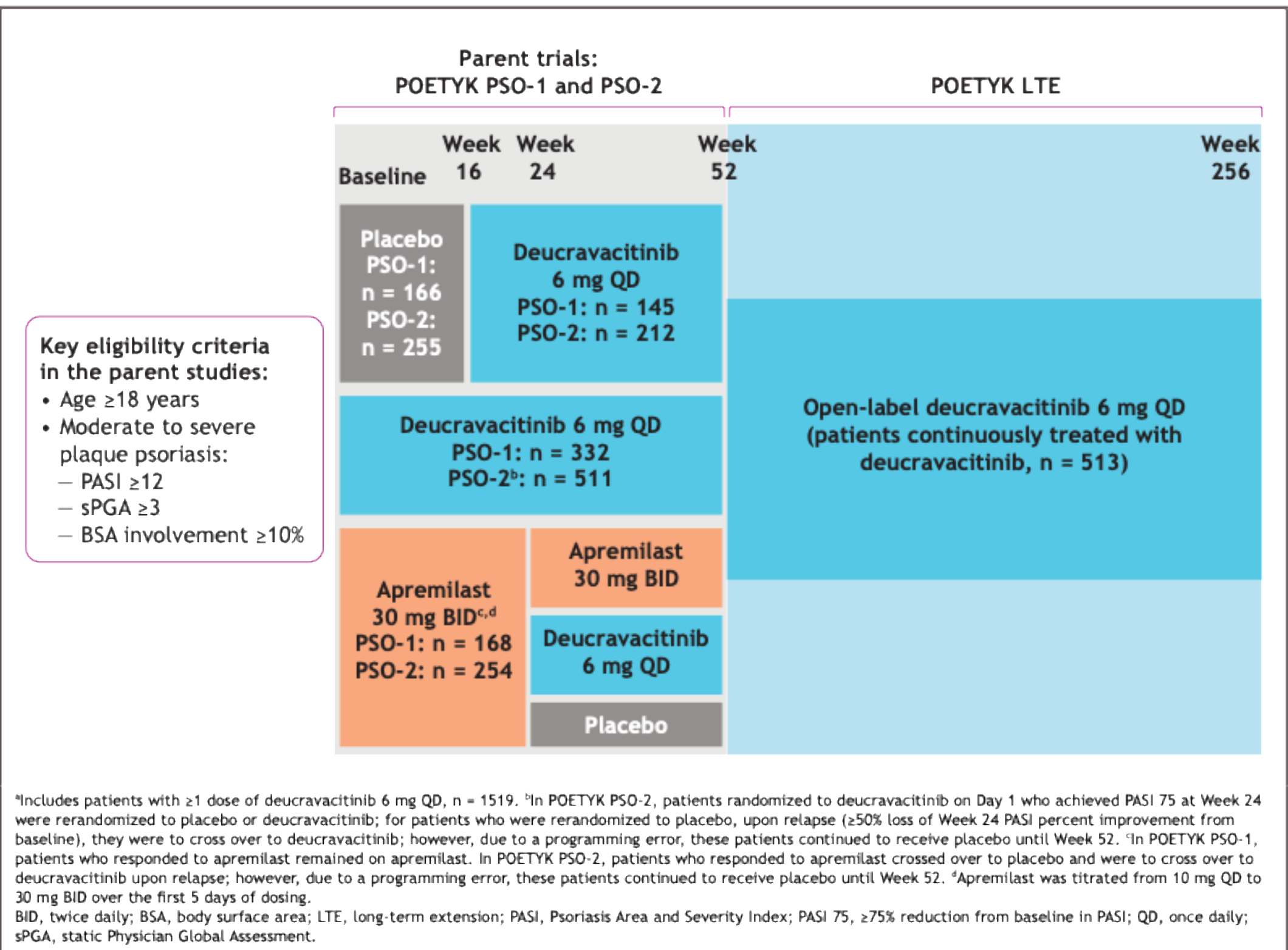
- To report the safety and efficacy of deucravacitinib treatment through 5 years (Week 256; data cutoff, September 2, 2024) in patients with moderate to severe plaque psoriasis who participated in the POETYK PSO-1, PSO-2, and LTE trials

Methods

Study designs

- In the POETYK PSO-1 and PSO-2 trials, adults with moderate to severe plaque psoriasis (Psoriasis Area and Severity Index [PASI] ≥12, static Physician Global Assessment [sPGA] ≥3, and body surface area [BSA] involvement ≥10% at baseline) were randomized 1:2:1 to oral placebo, deucravacitinib 6 mg QD, or apremilast 30 mg twice daily (BID) (Figure 1)
- At Week 52, eligible patients were allowed to enroll in the POETYK LTE trial and receive open-label deucravacitinib 6 mg QD

Figure 1. POETYK PSO-1, PSO-2, and LTE analysis populations^a



Analysis populations

- Safety population:** patients receiving ≥1 dose of deucravacitinib at any time in the pooled parent (POETYK PSO-1 and PSO-2) and POETYK LTE trials over 5 years in the as-treated population
- Efficacy population:** patients from the pooled parent trials (POETYK PSO-1 and PSO-2) who received continuous deucravacitinib treatment from Day 1 of the parent trials through 5 years (Week 256)

Outcomes

- Safety outcomes:**
 - Adverse events (AEs), serious AEs, deaths, and AEs leading to treatment discontinuation through the last data cutoff (September 2, 2024)
- Efficacy outcomes:**
 - Achievement of ≥75%/≥90% reduction from baseline in PASI (PASI 75/90)
 - An sPGA score of 0 (clear) or 1 (almost clear) (sPGA 0/1)
 - A scalp-specific PGA score of 0 (clear) or 1 (almost clear) (ss-PGA 0/1) in patients with a baseline ss-PGA ≥3
 - A PGA-Fingernail score of 0 (clear) or 1 (almost clear) (PGA-F 0/1) in patients with a baseline PGA-F ≥3

Statistical analysis

- Safety and efficacy were analyzed through the data cutoff (September 2, 2024; Week 256, 5 years)
- AEs were ascribed to the assigned treatment at the time of the event
 - When a patient had multiple events of the same type, the patient was counted only once
- Safety data were reported as exposure-adjusted incidence rate (EAIR)/100 person-years (PY) and calculated as 100 * (number of patients with an AE) / (total exposure time for all patients at risk [time to initial AE occurrence for patients with AE + total exposure time for patients without AE])
- In addition to observed values, two additional methods of imputation for missing data were used as sensitivity analyses for efficacy
 - Treatment failure rules (TFR)**¹²: patients who discontinued treatment due to lack of efficacy or worsening of psoriasis were imputed as nonresponders; all other missing data were not imputed
 - Modified nonresponder imputation (mNRI)**¹³: patients who either discontinued prior to Week 256 or reached Week 256 were included; patients with missing data who discontinued treatment due to worsening of psoriasis were imputed as nonresponders; all other missing data were imputed by multiple imputation

Results

Patients

- Baseline patient demographics and clinical characteristics for the safety and efficacy populations are presented in Table 1

Table 1. Baseline patient demographics and clinical characteristics

Parameter	Patients who received ≥1 dose of deucravacitinib (safety population, n = 1519)	Patients who received continuous deucravacitinib (efficacy population, n = 513)
Age, mean (SD), y	46.6 (13.4)	46.9 (13.3)
Weight, mean (SD), kg	90.6 (21.6)	89.9 (22.2)
Body mass index, mean (SD), kg/m ²	30.5 (6.8)	30.3 (7.0)
Female, n (%)	493 (32.5)	159 (31.0)
Race, n (%)		
White	1325 (87.2)	440 (85.8)
Asian	153 (10.1)	64 (12.5)
Black or African American	23 (1.5)	5 (1.0)
Other	18 (1.2)	4 (0.8)
Disease duration, mean (SD), y	18.7 (12.7)	18.8 (12.6)
PASI, mean (SD)	21.1 (8.1)	21.1 (7.9)
sPGA score, n (%)		
3 (moderate)	1211 (79.7)	401 (78.2)
4 (severe)	308 (20.3)	112 (21.8)
BSA involvement, mean (SD), %	26.2 (15.8)	26.9 (15.8)
PSDD total score, mean (SD)	-	52.9 (23.5)
DLQI, mean (SD)	-	11.8 (6.6)

BSA, body surface area; DLQI, Dermatology Life Quality Index; PASI, Psoriasis Area and Severity Index; PSDD, Psoriasis Symptoms and Signs Diary; SD, standard deviation; sPGA, static Physician Global Assessment.

Overall safety

- A cumulative safety summary is presented in Table 2
- Incidence rates of AEs (EAIR = n/100 PY) decreased from 1 year to 5 years
 - The most common AEs continued to be nasopharyngitis and upper respiratory tract infections
 - The data cutoffs for Year 1 of the POETYK PSO-1 and PSO-2 trials were October 15, 2020, and December 22, 2020, respectively; the peak of the global COVID-19 pandemic occurred during the first 2 years of the POETYK LTE trial, contributing to the higher COVID-19 rate seen through Year 5 compared with Year 1
 - COVID-19 rates with deucravacitinib treatment did not reflect an increased risk when compared with contemporaneous reference populations¹⁴

Table 2. Cumulative safety summary through 1 year and 5 years (as-treated population)

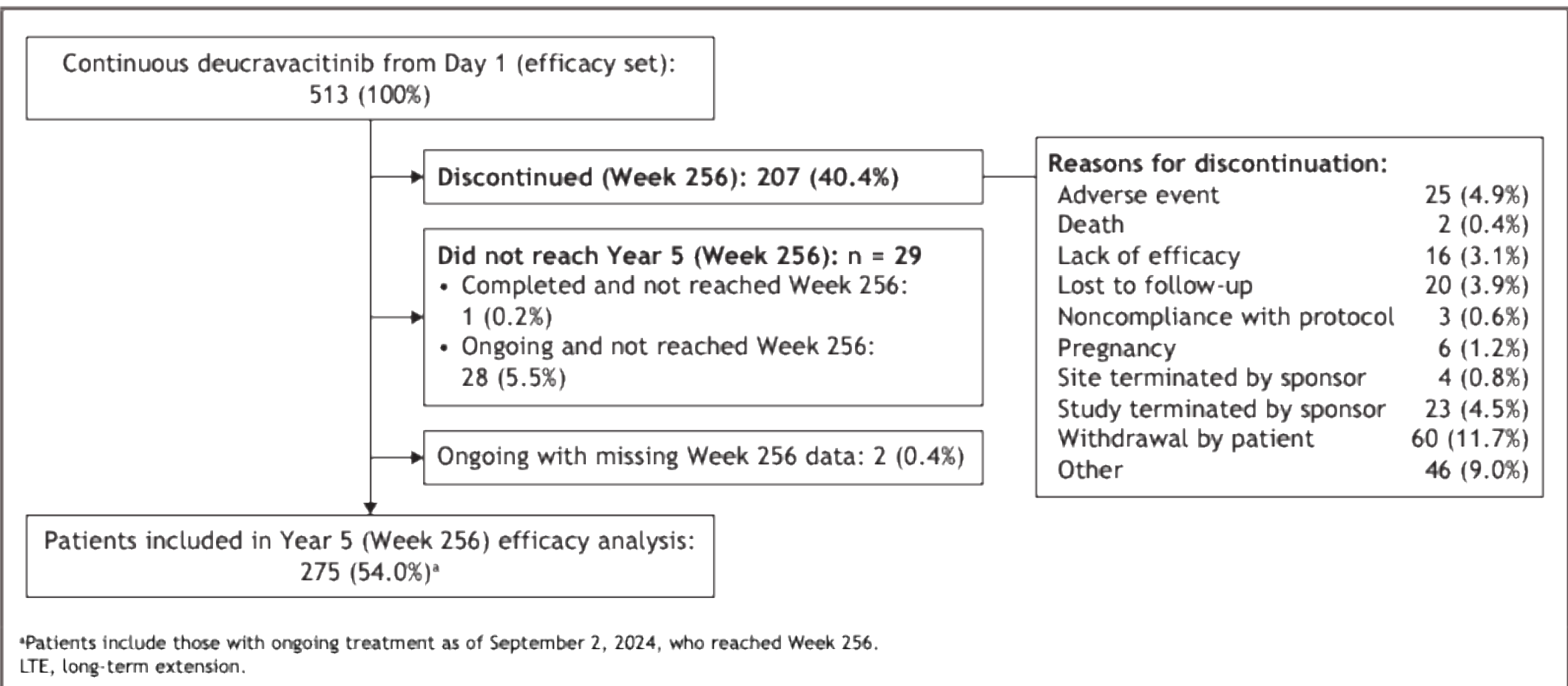
AE category	Cumulative through 1 year ^a (POETYK PSO-1 + PSO-2)		Cumulative through 5 years ^b (POETYK PSO-1 + PSO-2 + LTE)	
	Deucravacitinib (n = 1364) Total PY = 969.0	EAIR/100 PY (95% CI)	Deucravacitinib (n = 1519) Total PY = 5046.7	EAIR/100 PY (95% CI)
AEs	995 (72.9)	229.2 (215.4-243.9)	1315 (86.6)	127.4 (120.6-134.5)
Serious AEs	55 (4.0)	5.7 (4.4-7.4)	235 (15.5)	5.1 (4.4-5.8)
Discontinued treatment due to AEs	43 (3.2)	4.4 (3.3-5.9)	106 (7.0)	2.1 (1.7-2.5)
Deaths	2 (0.1) ^c	0.2 (0.1-0.8)	11 (0.7) ^d	0.2 (0.1-0.4)
Most common AEs (EAIR ≥5/100 PY)				
Nasopharyngitis	229 (16.8)	26.1 (23.0-29.8)	363 (23.9)	9.1 (8.2-10.1)
Upper respiratory tract infection	124 (9.1)	13.4 (11.3-16.0)	258 (17.0)	5.8 (5.1-6.6)
Headache	60 (5.9)	8.5 (6.8-10.5)	124 (8.2)	2.6 (2.2-3.1)
Diarrhea	89 (5.1)	7.3 (5.7-9.2)	102 (6.7)	2.1 (1.7-2.6)
Arthralgia	55 (4.0)	5.7 (4.4-7.4)	126 (8.3)	2.7 (2.2-3.2)
COVID-19 ^e	5 (0.4)	0.5 (0.2-1.2)	352 (23.2)	8.2 (7.4-9.1)

Not all patients were receiving deucravacitinib 6 mg QD continuously throughout this period. Total PY corresponds to the total exposure time to deucravacitinib during the indicated time period. ^aThis represents the pooled patient population of POETYK PSO-1 and PSO-2 (Weeks 0-52). ^bThis represents the pooled POETYK PSO-1, PSO-2, and LTE population through the data cutoff (September 2, 2024). ^cIn POETYK PSO-1 and PSO-2 through 1 year, 1 patient discontinued deucravacitinib after 4 days of treatment due to prohibited medication (infliximab) and died 9 days later reportedly due to heart failure and sepsis, with no medical records available. Another death occurred between Weeks 16 and 52 and was due to hepatocellular carcinoma in a patient with a history of hepatitis C virus infection and liver cirrhosis. Both deaths were considered unrelated to treatment by the investigator. After Week 52, 7 deaths were due to COVID-19 (all in patients with risk factors for severe disease; 2 deaths were considered related to treatment and the other 5 deaths were considered unrelated to treatment by the investigator). One patient with cardiovascular risk factors died due to a ruptured aortic aneurysm, which was considered not related to treatment by the investigator. One patient with a history of type 2 diabetes mellitus with neuropathy, hypertension, and hypercholesterolemia died due to sudden death of unknown cause, which was not considered related to treatment by the investigator. ^dPOETYK PSO-1, PSO-2, and LTE trials were conducted during the COVID-19 pandemic. ^eAE, adverse event; CI, confidence interval; EAIR, exposure-adjusted incidence rate; LTE, long-term extension; PY, person-years; QD, once daily.

Patient population: efficacy

- Of the 513 patients in the efficacy population who received deucravacitinib from Day 1 and entered the POETYK LTE trial, 207 (40.4%) discontinued before Week 256 (Figure 2):
 - 16 (3.1%) due to lack of efficacy and 25 (4.9%) due to AEs
 - Common reasons for discontinuation were: withdrawal by patient [60 (11.7%)]¹⁵; "other" miscellaneous causes as described by patients [46 (9.0%)]¹⁶; and site/study terminated by the sponsor [27 (5.3%)]¹⁷
- As of the data cutoff date, 28 (5.5%) patients were receiving deucravacitinib in the POETYK LTE trial but had not yet reached Week 256 (Figure 2)

Figure 2. End of treatment summary in the POETYK LTE trial (efficacy population)



^aPatients include those with ongoing treatment as of September 2, 2024, who reached Week 256. LTE, long-term extension.

Efficacy

- PASI 75 (Figure 3), PASI 90 (Figure 4), and sPGA 0/1 (Figure 5) response rates were maintained from Week 52 (beginning of the POETYK LTE trial) through 5 years

Figure 3. PASI 75 response rates in the efficacy population

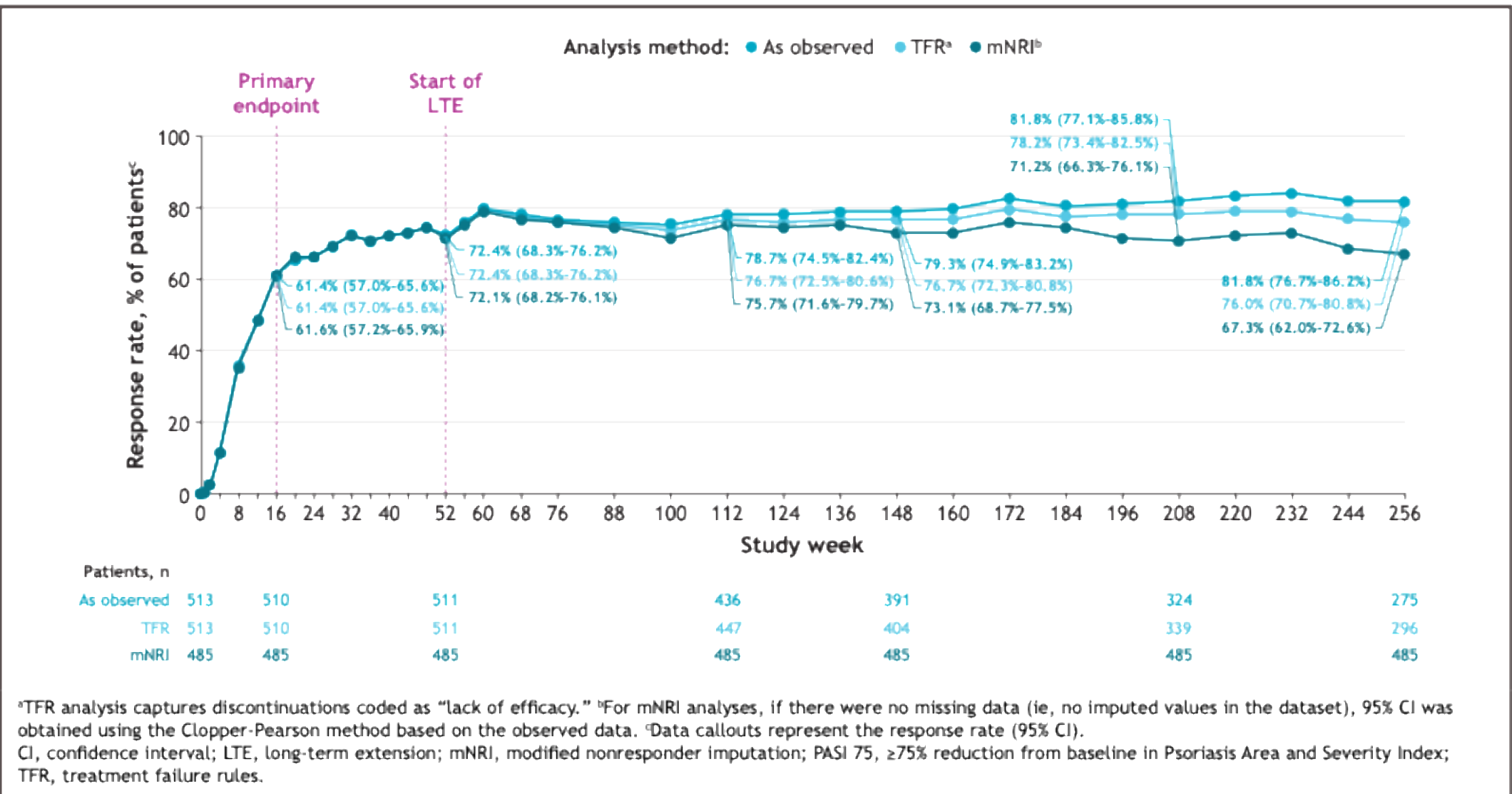


Figure 4. PASI 90 response rates in the efficacy population

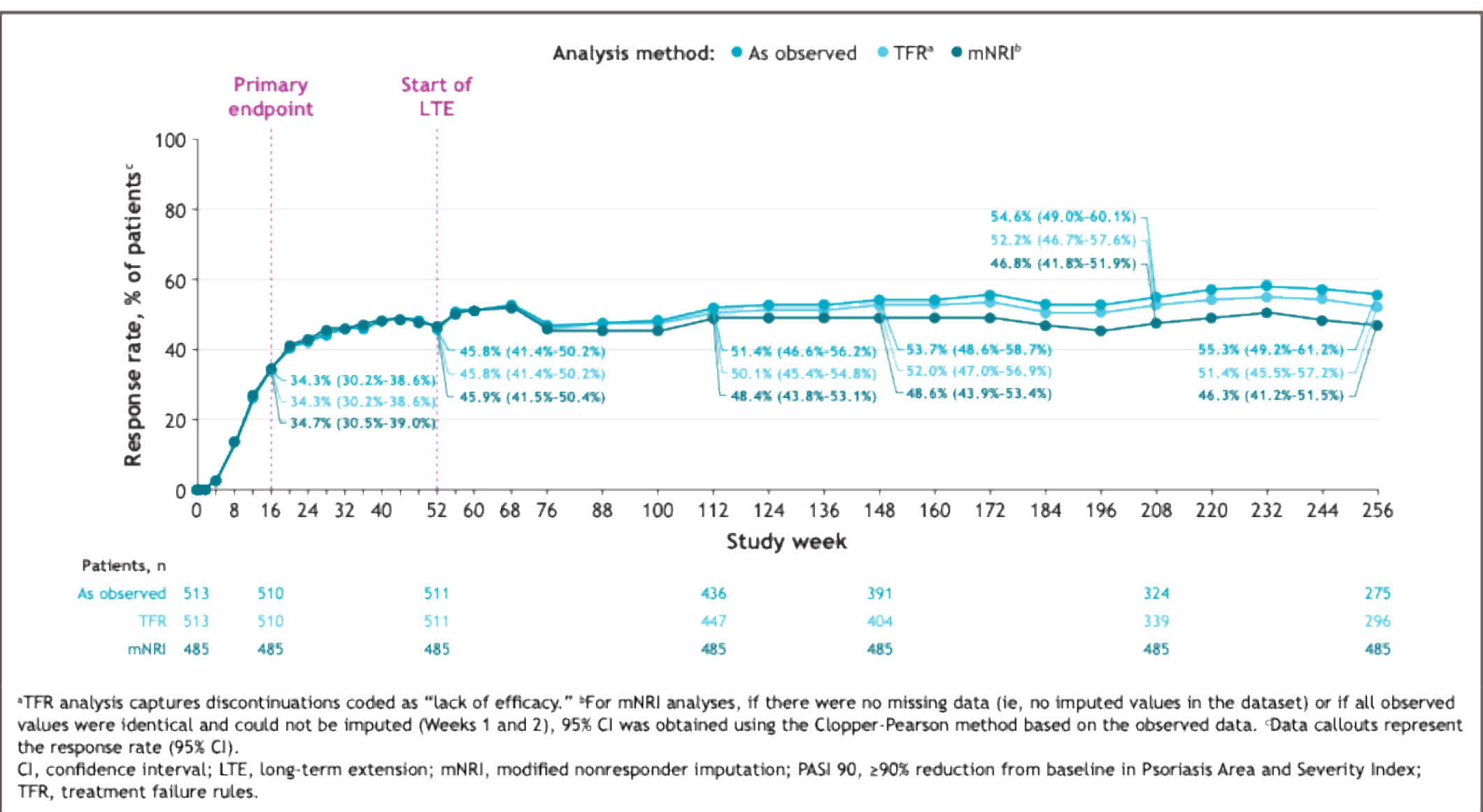
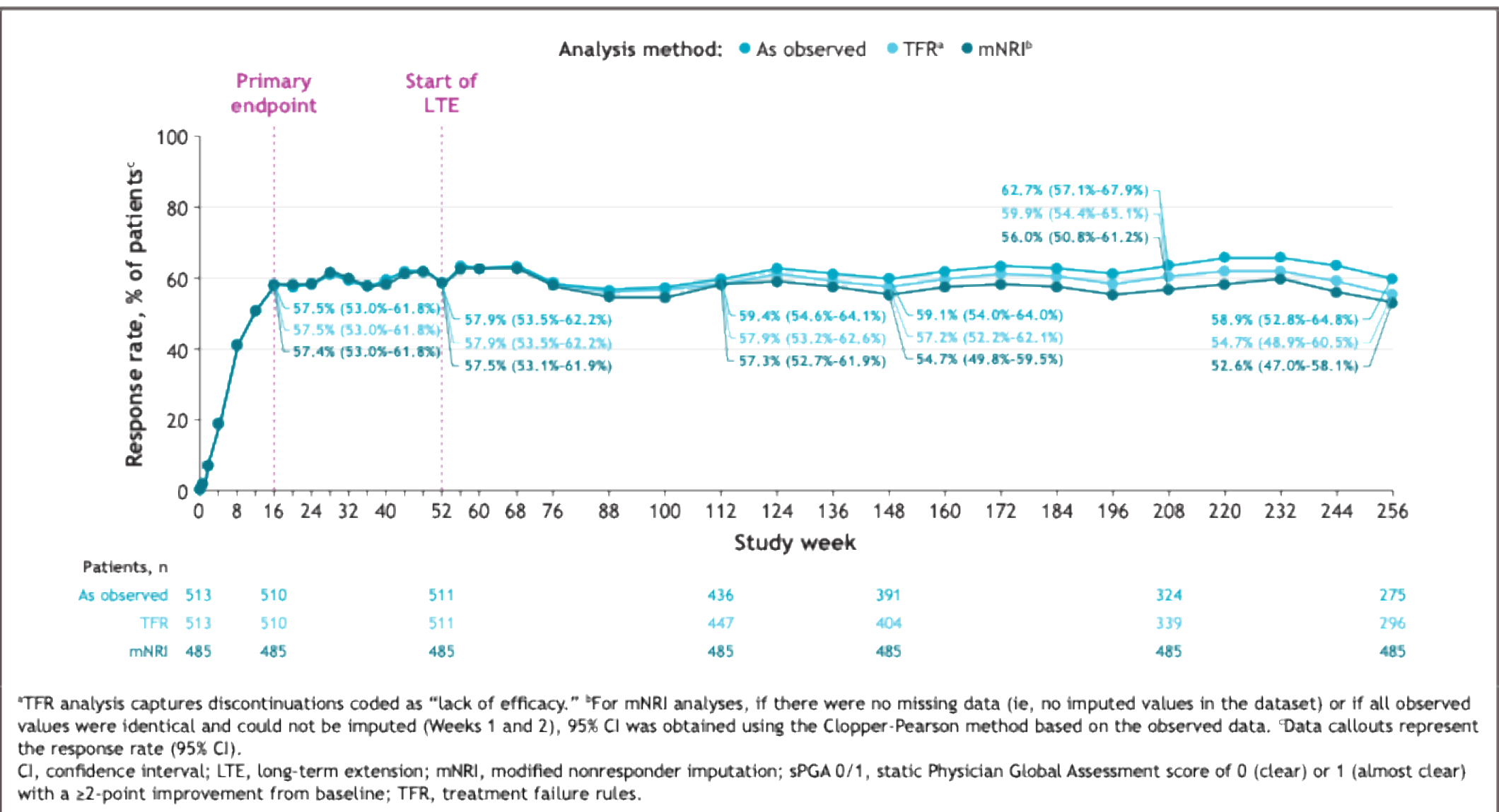
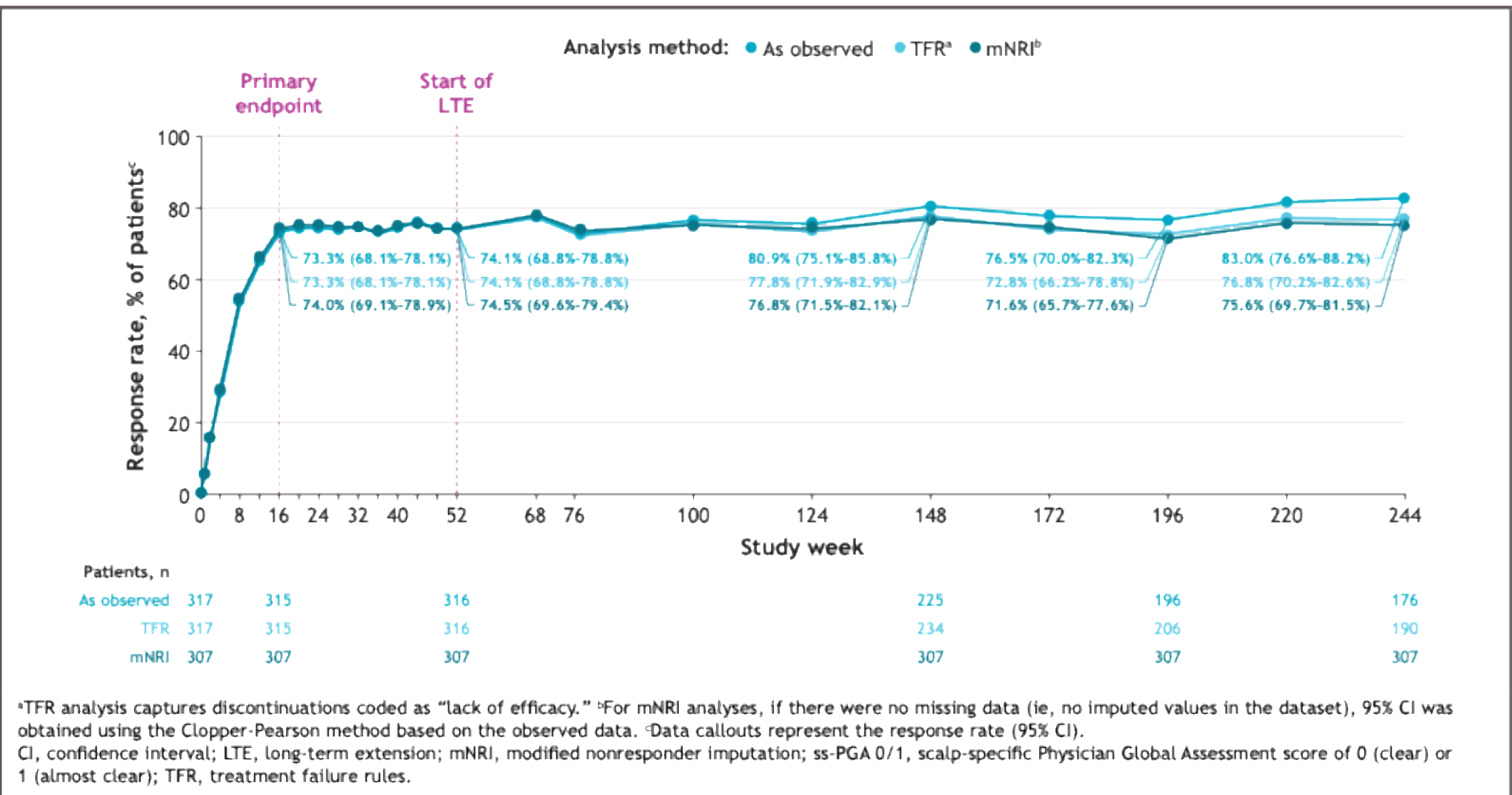


Figure 5. sPGA 0/1 response rates in the efficacy population



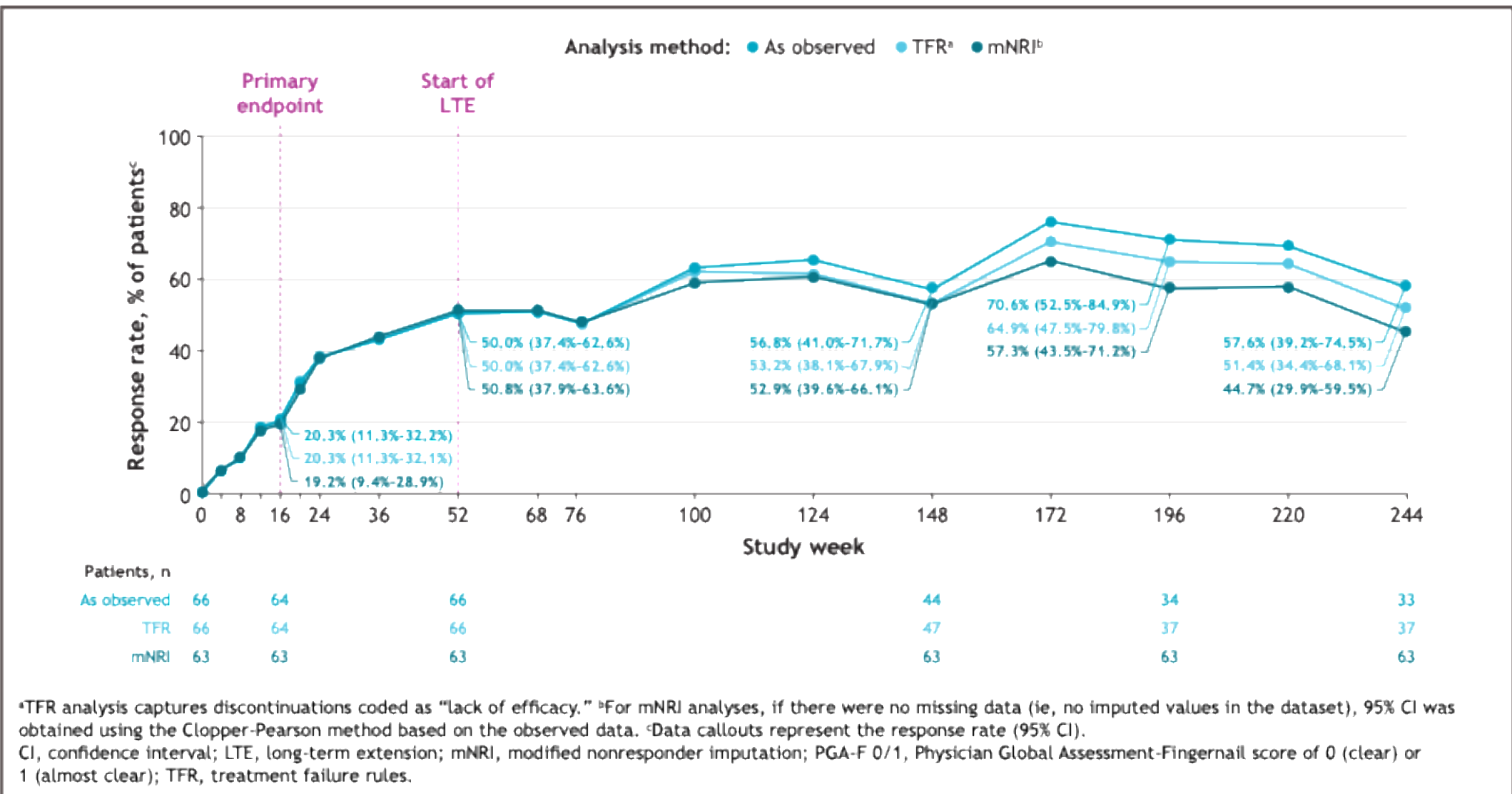
- In patients with moderate to severe psoriasis in hard-to-treat areas (scalp and fingernail) at baseline, improvements in scalp psoriasis, assessed by achievement of ss-PGA 0/1 (Figure 6), and in fingernail psoriasis, assessed by achievement of PGA-F 0/1 (Figure 7), were maintained from Week 52 through 5 years

Figure 6. ss-PGA 0/1 response rates in patients with moderate to severe scalp psoriasis at baseline



^aTFR analysis captures discontinuations coded as "lack of efficacy." ^bFor mNRI analyses, if there were no missing data (ie, no imputed values in the dataset), 95% CI was obtained using the Clopper-Pearson method based on the observed data. Data callouts represent the response rate (95% CI). CI, confidence interval; LTE, long-term extension; mNRI, modified nonresponder imputation; ss-PGA 0/1, scalp-specific Physician Global Assessment score of 0 (clear) or 1 (almost clear); TFR, treatment failure rules.

Figure 7. PGA-F 0/1 response rates in patients with moderate to severe fingernail psoriasis at baseline



^aTFR analysis captures discontinuations coded as "lack of efficacy." ^bFor mNRI analyses, if there were no missing data (ie, no imputed values in the dataset), 95% CI was obtained using the Clopper-Pearson method based on the observed data. Data callouts represent the response rate (95% CI). CI, confidence interval; LTE, long-term extension; mNRI, modified nonresponder imputation; PGA-F 0/1, Physician Global Assessment-Fingernail score of 0 (clear) or 1 (almost clear); TFR, treatment failure rules.

Conclusions

- Deucravacitinib demonstrated a consistent safety profile through 5 years with >5000 PY of exposure and no increases in AE or serious AE rates over time or emergence of any new safety signals
- PASI 75, PASI 90, and sPGA 0/1 response rates were maintained through 5 years in over 500 patients treated continuously with deucravacitinib from Day 1 in the parent trials
 - Efficacy results were consistent regardless of imputation method, indicating the robustness of the results
- Deucravacitinib improved psoriasis disease burden in the hard-to-treat areas of scalp and fingernail psoriasis in patients with moderate to severe psoriasis in these areas at baseline; improvement was maintained through 5 years of treatment
- These data support the long-term safety and durable efficacy profile through 5 years of treatment with deucravacitinib, the first-in-class, allosteric TYK2 inhibitor treatment for psoriasis

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- BS:** Consultant (with honoraria): AbbVie, Acelyrin, Alamar, Almiral, Alumis, Amgen, Arcutis, Arena, Aristea, Asana, Boehringer Ingelheim, Bristol Myers Squibb, Capital One, Celtrion, CoVeritas Psoriasis Registry, Dermavant, Eli Lilly, Immagine, Janssen/J&J Innovative Medicine, Kangru Biopharmaceuticals, Leo Pharma, Maruho, Meiji Seika Pharma, Monte Rosa Therapeutics, Novartis, Pfizer, Protagonist, RAPT Therapeutics, Regeneron, Sanofi, Sun Pharma, Takeda, TD Cowen, UCB, Union Therapeutics, Ventyx Biosciences, and vTV Therapeutics; Speaker: AbbVie, Arcutis, Dermavant, Eli Lilly, Incyte, Janssen/J&J Innovative Medicine, Regeneron, and Sanofi; Co-scientific director (consulting fee) and investigator: CoVeritas Psoriasis Registry. Editor-in-chief (with honorarium): Journal of Psoriasis and Psoriatic Arthritis; Stock options: Connect Biopharma and Mindera Health
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Early and Sustained Effects of Clindamycin Phosphate 1.2%/Adapalene 0.15%/Benzoyl Peroxide 3.1% Gel

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SYNOPSIS

- Treatments that lead to fast and substantial acne clearance with minimal tolerability issues are highly desirable and can increase patient adherence¹
- A three-pronged approach using a topical antibiotic, topical retinoid, and benzoyl peroxide (BPO) has been shown to be one of the most effective treatments for acne, with greater efficacy compared with monotherapy or dual-combination products²; however, it is unknown if triple-combination provides more rapid improvement
- Clindamycin phosphate 1.2%/adapalene 0.15%/BPO 3.1% (CAB) gel (Cabtree®, Ortho Dermatologics) is the only fixed-dose, triple-combination topical approved for acne
- CAB gel has demonstrated efficacy and favorable tolerability in phase 2 and phase 3 clinical trials³⁻⁶

OBJECTIVE

- To evaluate the efficacy and safety of CAB gel following 4 and 12 weeks of treatment vs vehicle gel

METHODS

- Data were pooled from 4 double-blind, 12-week trials of participants with moderate to severe acne (phase 2, NCT03170388 and NCT04892706; phase 3, NCT04214639 and NCT04214652)
- Participants were aged ≥9 years (≥12 years in NCT04892706)
- CeraVe® hydrating cleanser and CeraVe® moisturizing lotion (L'Oréal, NY) were provided as needed for optimal skin moisturization/cleaning
- Pooled, post hoc analyses of all 4 studies were conducted in participants randomized to receive CAB or vehicle gel once daily
- Endpoints included least-squares (LS) mean percent change from baseline in inflammatory and noninflammatory lesion counts and treatment success, defined as the percentage of participants achieving ≥2-grade reduction from baseline in the Evaluator's Global Severity Score (EGSS) and a score of 0 (clear) or 1 (almost clear)
- Treatment-emergent adverse events (TEAEs) and cutaneous safety/tolerability were also assessed

RESULTS

Participants

- A total of 1115 participants were included in this analysis (CAB, n=618; vehicle, n=497)
- The mean age in both groups was 20 years; most participants were female (CAB, 61%; vehicle, 58%) and White (CAB, 72%; vehicle, 71%)
- At baseline, most participants had moderate acne (EGSS=3; 88% and 90%)

Efficacy

- At week 4, inflammatory lesions were reduced by >50% in CAB-treated participants, with continued improvements to >75% reduction at week 12, which was significantly greater than vehicle ($P<0.001$, both; **Figure 1**)
- Significance vs vehicle was seen as early as week 2
- Similar trends were observed for noninflammatory lesions ($P<0.001$, all)
- At week 12, over half (51.0%) of CAB-treated participants achieved treatment success vs 18.3% of vehicle-treated participants ($P<0.001$); significant differences with CAB vs vehicle were seen at week 4 (**Figure 2**)
- Representative images depicting acne improvement in CAB-treated participants are shown in **Figure 3**

Safety and Tolerability

- TEAEs were reported in 33% and 14% of participants treated with CAB and vehicle, respectively (19% and 2% deemed related to treatment); most were deemed mild/moderate
- Discontinuations due to TEAEs were in 2.8% and 0.4% of participants, respectively
- Application site pain was the only TEAE in ≥5% of CAB-treated participants (11%) vs 0.4% with vehicle
- Transient increases in mean safety/tolerability scores for scaling, erythema, itching, stinging, and burning with CAB generally resolved at/near baseline levels by week 4; most instances were mild to moderate in severity (**Figure 4**)

FIGURE 1. Lesion Reductions (ITT Population, Pooled)

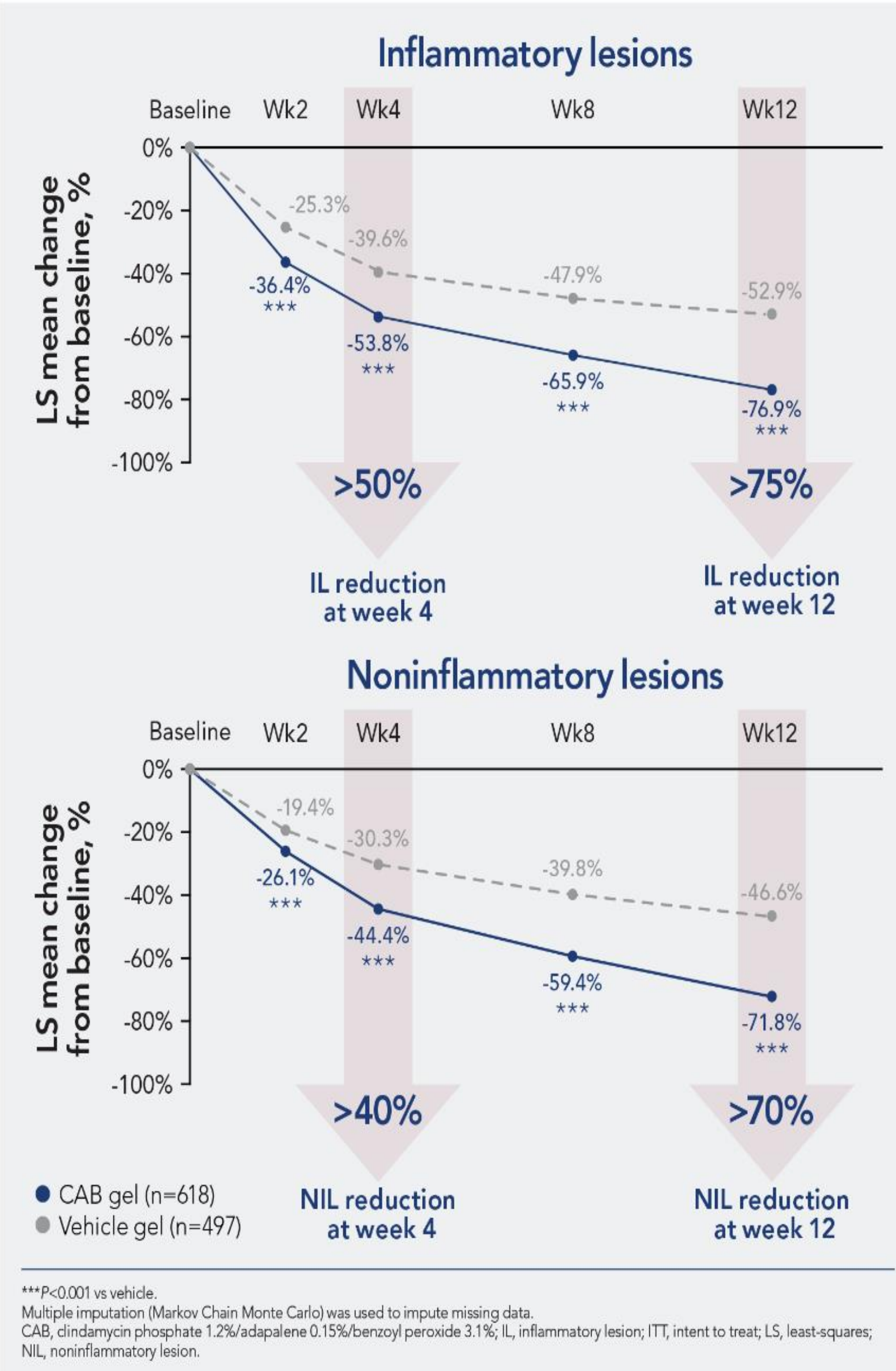


FIGURE 2. Treatment Success^a (ITT Population, Pooled)

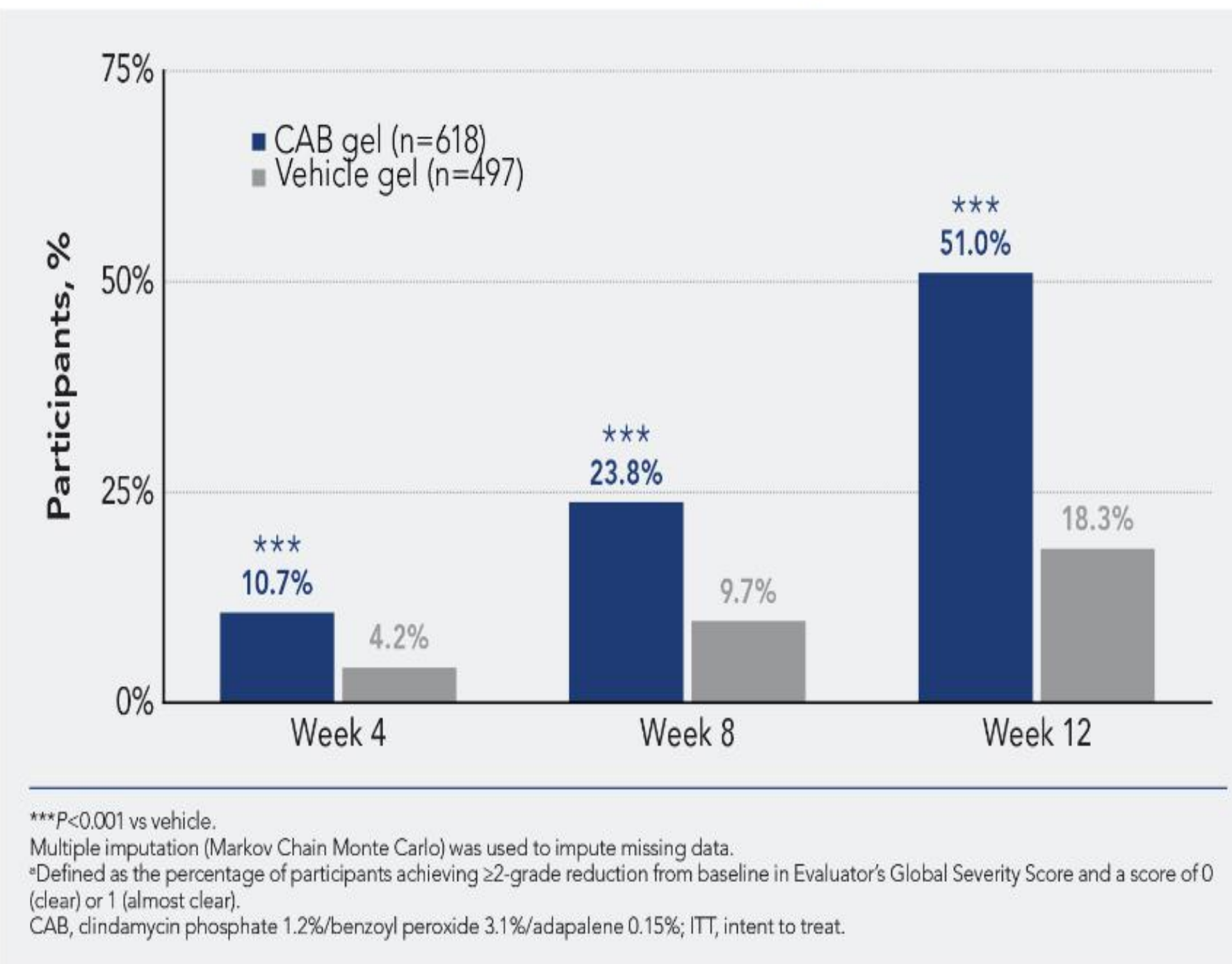


FIGURE 3. Acne Improvements With CAB Gel

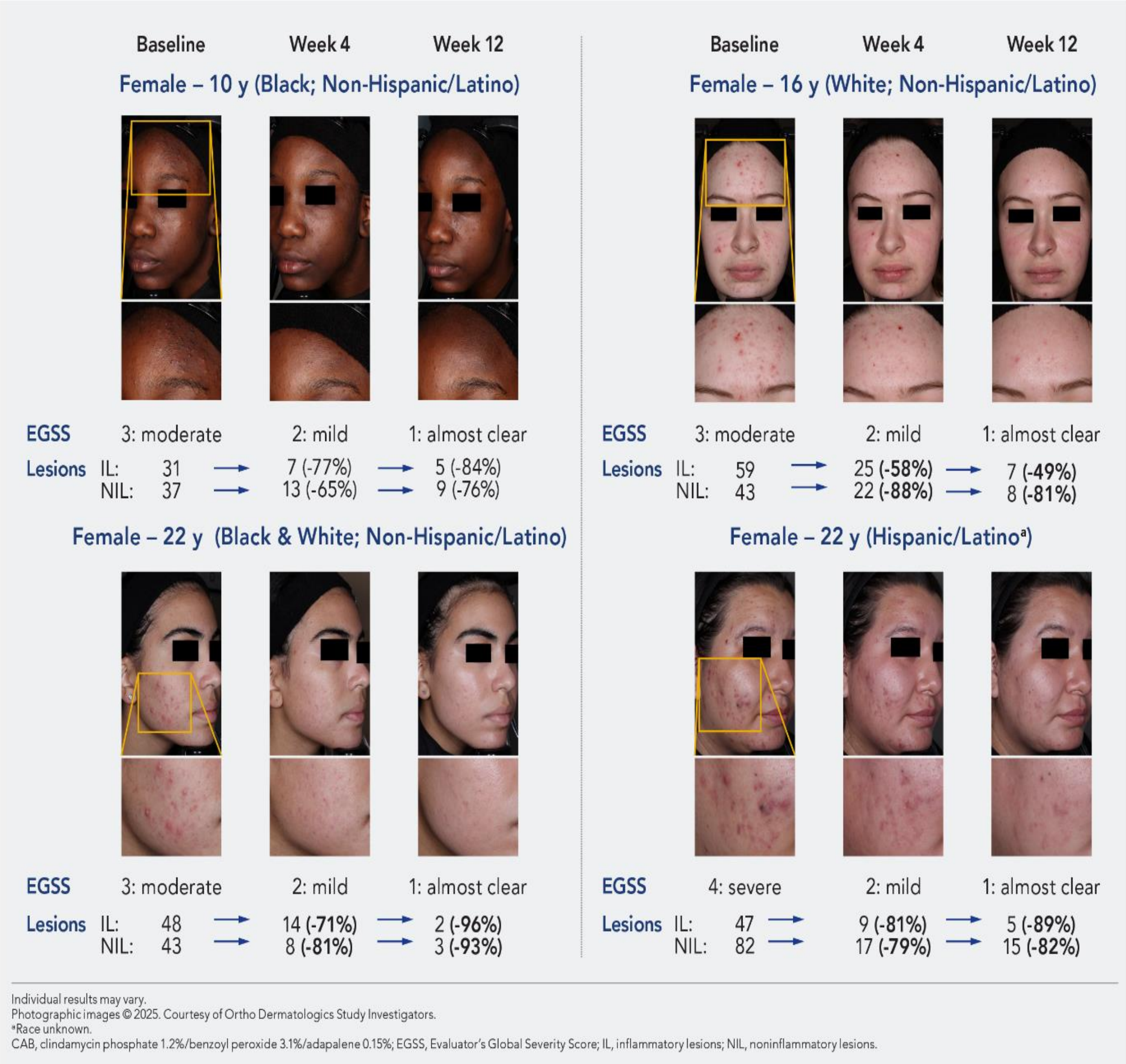
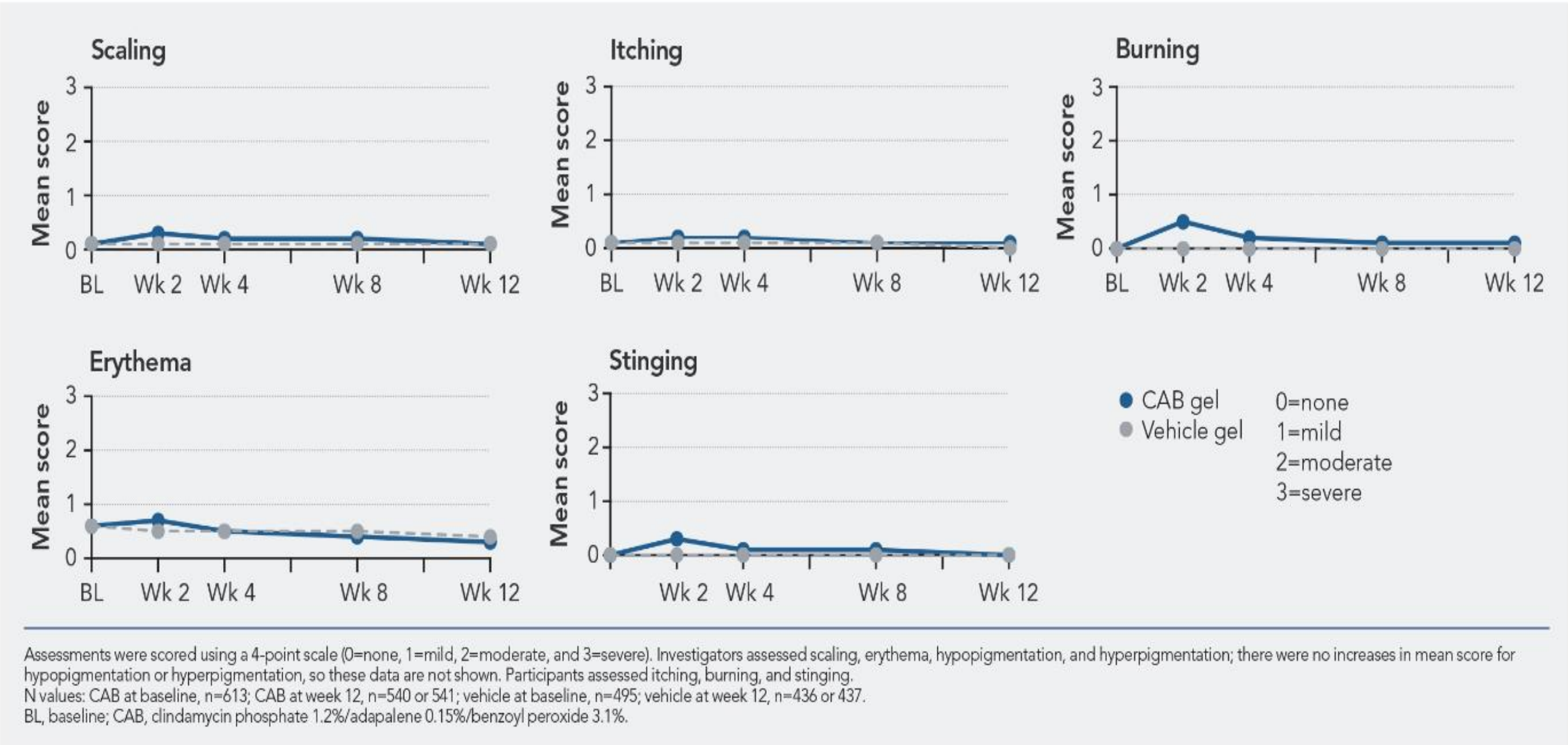


FIGURE 4. Cutaneous Safety and Tolerability (Safety Population, Pooled)



CONCLUSIONS

- Fixed-dose, triple-combination CAB gel was well tolerated, with rapid therapeutic effects
- Inflammatory acne lesion reductions with CAB were >50% by week 4 and >75% by week 12
- Over half of participants (51%) achieved treatment success by week 12, with 11% achieving success by week 4
- While extended topical acne treatment is often needed to achieve clear skin, the fast-acting efficacy of the only approved triple-combination product for acne—coupled with its once-daily dosing and tolerability—may positively impact patient satisfaction and treatment adherence

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AUTHOR DISCLOSURES

Leon Kircik has served as either a consultant, speaker, advisor, or investigator for Allergan, Almirall, EPI Health, Galderma, Novartis, Ortho Dermatologics, and Sun Pharma. **Edward (Ted) Lain** has served as investigator, consultant, and/or speaker for Ortho Dermatologics, AbbVie, Almirall, Amgen, Arcutis, Dermavant, EPI Health, Galderma, Incyte, LEO Pharma, Novartis, Eli Lilly, Pfizer, Sun Pharma, UCB, Endo International, ChemoCentryx, Biorasi, Simaomics, Evelo Biosciences, Concert Pharmaceuticals, Cara Therapeutics, Castle Biosciences, Mindera, Biofrontera, Alfasigma, AiViva Biopharma, Anaptys Bio, Bausch Health, Dr Reddy's, and Trevi Therapeutics. **Hilary Baldwin** has served as an advisor, investigator, and on speakers' bureaus for Almirall, Cassiopea, Foamix, Galderma, Ortho Dermatologics, Sol Gel, and Sun Pharma. **Linda Stein Gold** has served as investigator/consultant or speaker for Ortho Dermatologics, LEO Pharma, Dermavant, Incyte, Novartis, AbbVie, Pfizer, Sun Pharma, UCB, Arcutis, and Lilly. **Joshua Zeichner** has served as an advisor, consultant, or speaker for AbbVie, Allergan, Dermavant, Dermira, EPI Health, Galderma, Incyte, Johnson and Johnson, L'Oréal, Ortho Dermatologics, Pfizer, Procter and Gamble, Regeneron, Sun Pharma, UCB, Unilever, and Vyne. **Karol Wroblewski** has nothing to disclose. **Eric Guenin** is an employee of Ortho Dermatologics and may hold stock and/or stock options in its parent company. **Michael Gold** has acted as an investigator, advisor, speaker, and consultant for Ortho Dermatologics. **Valerie Callender** has served as an investigator, consultant, or speaker for Acne Store, Almirall, Aerolase, AbbVie, Allergan Aesthetics, Avava, Avita Medical, Beiersdorf, Cutera, Dermavant, Erion Therapeutics, Eli Lilly, Galderma, Janssen, Jeune Aesthetics, L'Oréal, Ortho Dermatologics, Pfizer, Prolinuum, Regeneron, Scientis, Sente, SkinBetter Science, SkinCeuticals, Symatose, Teoxane, and UpToDate. **Zoe Draelos** has received funding from Ortho Dermatologics. **Julie Harper** has received honoraria from Almirall, Cutera, Galderma, LaRoche-Posay, Ortho Dermatologics, and Sun Pharma.

A Case Report of Clindamycin Phosphate 1.2%/Adapalene 0.15%/Benzoyl Peroxide 3.1% Gel to Treat Acne Induced by Janus Kinase Inhibitor Treatment

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SYNOPSIS

- Janus kinase inhibitors (JAKi)—developed to treat inflammatory and immune-mediated diseases—have shown an increased risk of acne development, especially when used to treat dermatologic conditions¹⁻⁴
- While JAKi-induced acne has similar clinical characteristics to both acne vulgaris (AV) and acneiform lesions, with predominantly inflammatory lesions, there are no treatment guidelines^{1,5}
- Some of the most efficacious treatments for AV are oral isotretinoin monotherapy and triple combinations that include benzoyl peroxide (BPO), a topical retinoid, and an oral/topical antibiotic⁶
- Fixed-dose, triple-combination clindamycin phosphate 1.2%/adapalene 0.15%/BPO 3.1% (CAB; Cabtreo[®]; Ortho Dermatologics) gel has demonstrated good efficacy, safety, and tolerability in phase 2 and 3 clinical trials of participants with moderate to severe AV⁷⁻⁹

OBJECTIVE

- To show a case report that highlights the possible utility of once-daily CAB gel treatment for JAKi-induced acne

RESULTS

- A 15-year-old female patient was administered the oral JAKi upadacitinib (15 mg daily, titrated up to 30 mg daily) for 16 weeks to treat atopic dermatitis (AD)
- The patient’s AD had inadequately responded to prior treatment with dupilumab for 16 weeks (dosage per US labeling; **Figure 1**)

FIGURE 1. Patient Treatment Timeline

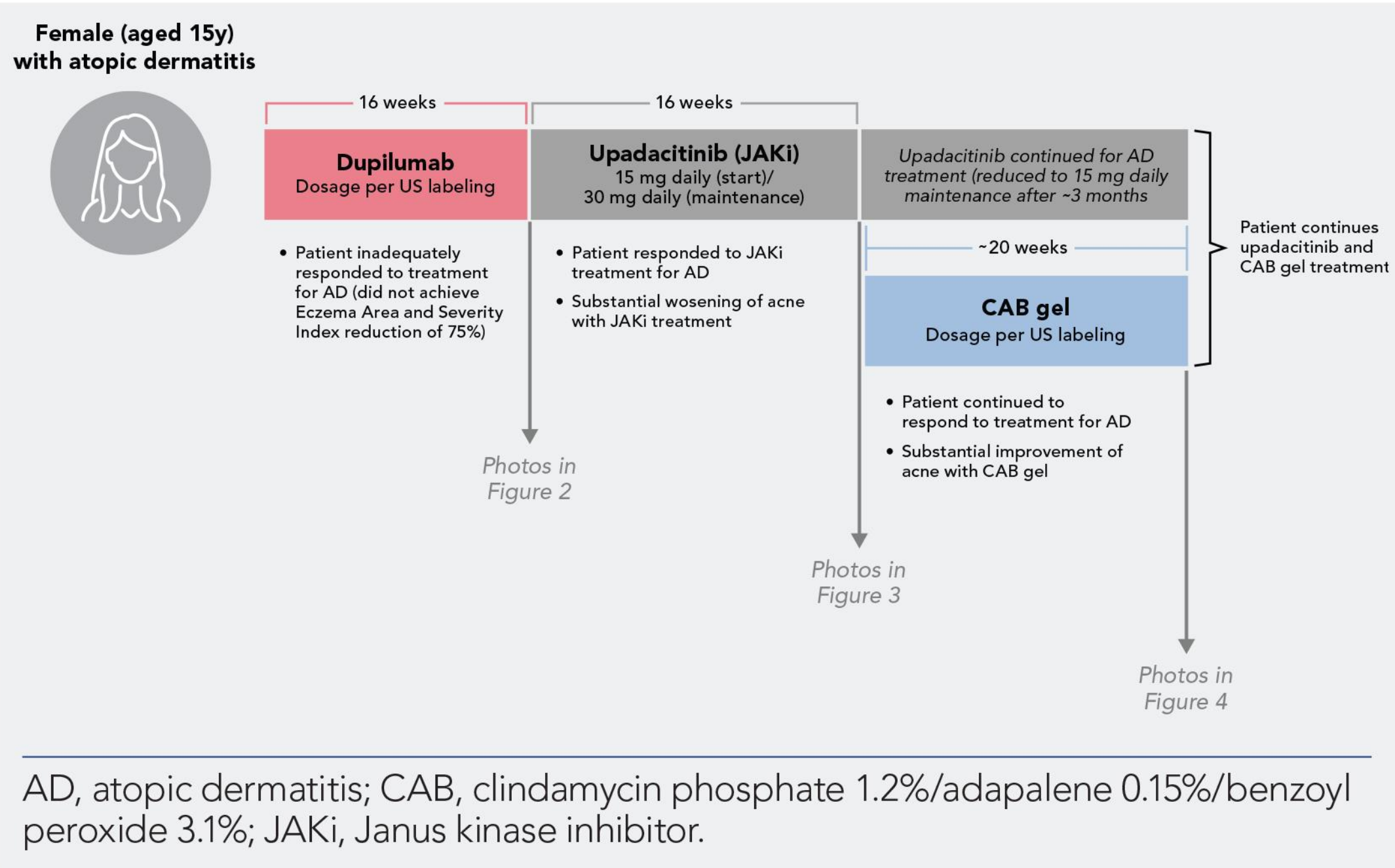
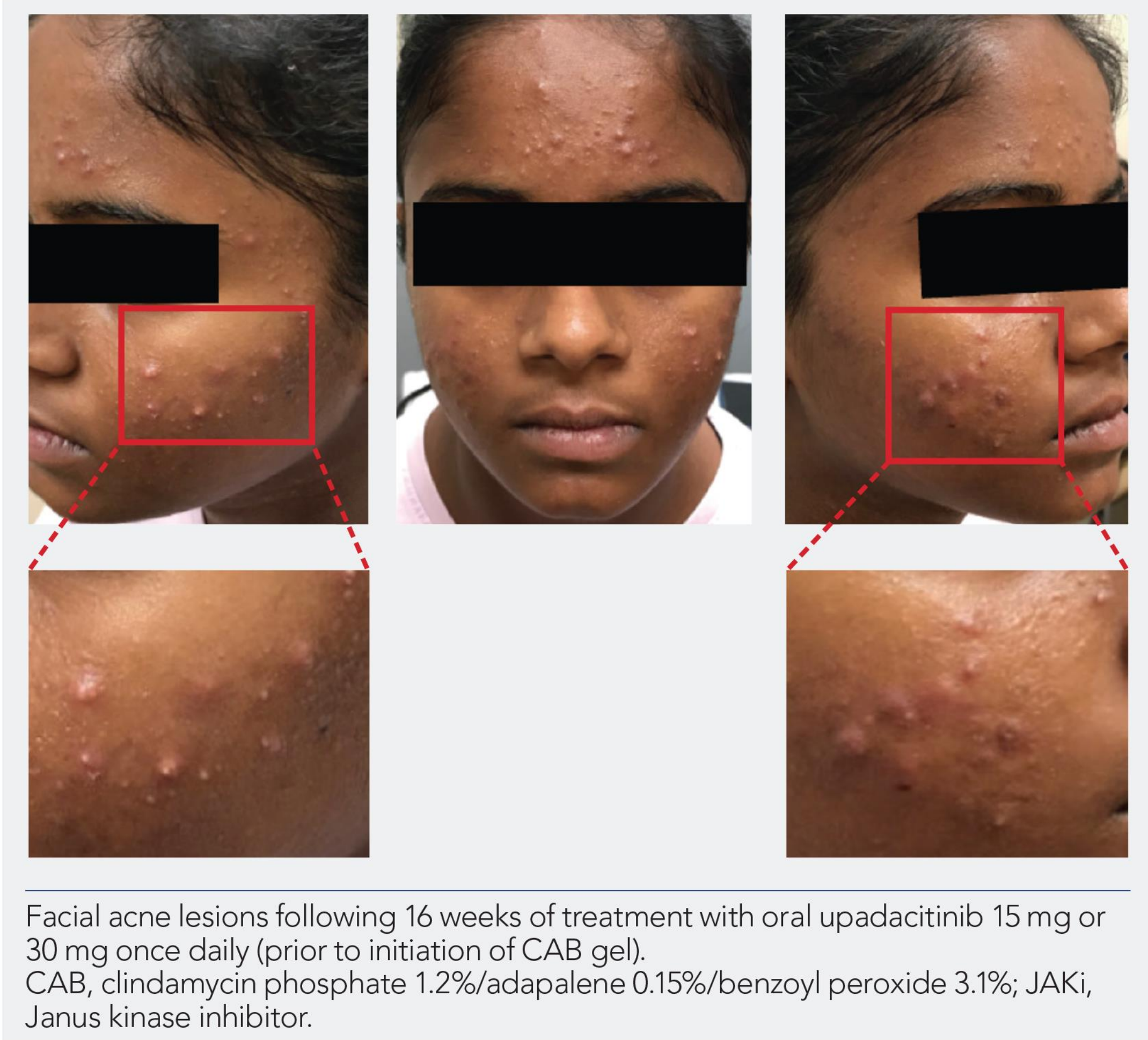


FIGURE 2. Atopic Dermatitis of the Neck and Mild Facial Acne Prior to JAKi Treatment



- Prior to JAKi treatment, the patient had mild preexisting comedonal and inflammatory facial AV, with a few 1- to 2-mm closed comedones or pink papules, primarily on the cheeks and forehead (**Figure 2**)
- Her acne worsened over the first few months of JAKi treatment to moderate/severe inflammatory acne (**Figure 3**)
 - Larger 2- to 9-mm, pink to red inflammatory papules were observed on the forehead and cheeks, many with prominent pustule formation
 - The patient also had acne-induced erythema and postinflammatory hyperpigmentation

FIGURE 3. Moderate to Severe Facial Acne Following JAKi Treatment



- The patient applied CAB gel to the face once daily for approximately 20 weeks without any other acne treatments
- CAB treatment provided substantial improvements in acne, without adverse effects (**Figure 4**)
 - The patient’s acne severity went from moderate/severe to mild/almost clear, with no significant acne-induced sequelae (scarring, postinflammatory hyperpigmentation, or erythema)

FIGURE 4. Following CAB Gel Treatment: Mild to Almost Clear Facial Acne



- The patient continues treatment with both CAB and a reduced dose of upadacitinib (15 mg) once daily

CONCLUSIONS

- JAKi treatment was highly effective in controlling this patient’s AD when dupilumab could not, making successful acne treatment important for sustaining effective AD therapy
- Treatment guidelines for the management of AV often recommend oral drugs, such as isotretinoin, for patients with moderate to severe acne¹⁰
 - Similar recommendations for oral isotretinoin were suggested in a letter to the editor on the management of severe JAKi-induced acne²
- This case presented here, however, demonstrates that topical CAB gel can treat moderate to severe JAKi-induced inflammatory acne

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AUTHOR DISCLOSURES

Nicole Olszewski has served as a Clinical Research Coordinator for AbbVie’s LEVEL-UP clinical trial. Christopher G. Bunick has served as an investigator and/or consultant for AbbVie, Almirall, Amgen, Apogee, Arcutis, Botanix, Connect BioPharma, Daiichi Sankyo, Dermavant, Eli Lilly, EPI Health/Novan, Incyte, LEO Pharma, Novartis, Ortho Dermatologics, Palvella, Pfizer, Regeneron, Sanofi, Sun Pharma, Takeda, Timber, Teladoc, and UCB.

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Long-Term Efficacy and Safety of Lebrikizumab is Maintained in Patients With Moderate-to-Severe Atopic Dermatitis: Results Up to 3 Years From ADjoin

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Lynda Spelman⁶, Jonathan Silverberg⁷, Heidi Crane⁸,
Hany Elmaraghy⁸, Louise DeLuca-Carter⁸,
Maria Lucia Buziqui Piruzeli⁸, Chaoran Hu⁸,
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¹Yeshiva School of Medicine at Mount Sinai, New York, NY, U.S.A.; ²Children's Health Ireland, Dublin, Ireland; ³Oregon Health & Science University, Portland, OR, U.S.A.; ⁴KJLM for Dermatology, Probit Medical Research and Queen's University, Peterborough, Canada; ⁵University Hospital Schleswig-Holstein, Kiel, Germany; ⁶Versality Clinical Research, Queensland, Australia; ⁷George Washington University, Washington, DC, U.S.A.; ⁸Ell Lilly and Company, Indianapolis, IN, U.S.A.; ⁹Almirall S.A., Barcelona, Spain; ¹⁰University of Lübeck, Lübeck, Germany

Sponsored by Eli Lilly and Company

OBJECTIVE

- To evaluate the long-term efficacy and safety of 3 years of continuous treatment of lebrikizumab, with or without TCS, in responders^a from ADvocate1&2 (NCT04146363; NCT04178967)^b and ADhere (NCT04250337)^c enrolled into the extension study ADipin (NCT04392154)^d

*Responders in ADHesam 12 and ADHesam were defined as those patients who achieved either EASI 75 or IGA (0,1) following 16 weeks of LCB61 250 mg Q2W treatment without use of rescue therapy.

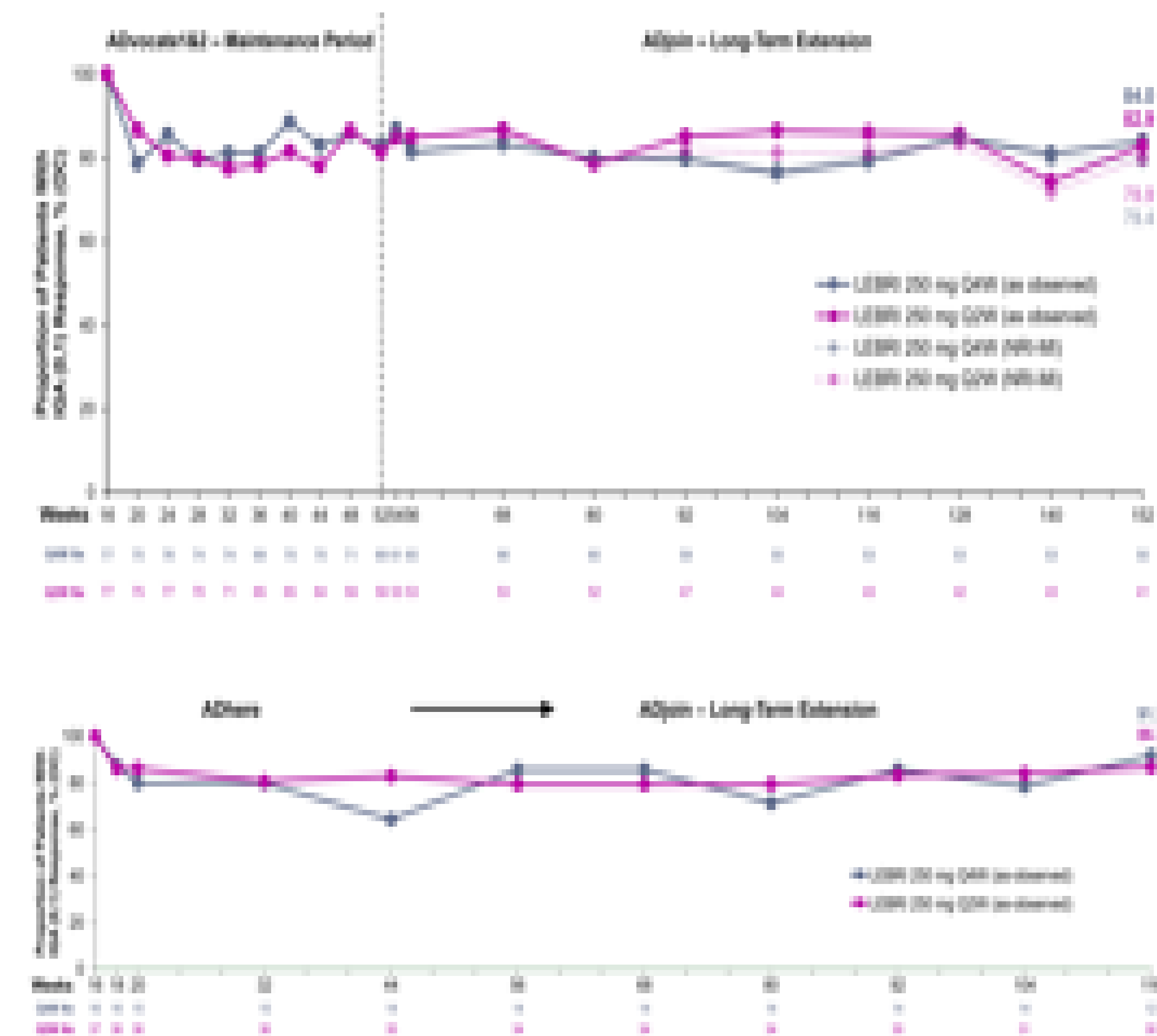
CONCLUSIONS

- Efficacy outcomes were maintained through 3 years of continuous lebrikizumab treatment, with or without TCS, in Week 16 responders in both the lebrikizumab 250 mg Q4W and Q2W dose regimens, with most patients maintaining clear or almost clear skin as assessed by IGA (0, 1)
 - Additionally, most patients maintained EASI 75 and EASI 90 through 3 years of continuous lebrikizumab for both dose regimens
- Most patients did not require rescue therapy with continuous lebrikizumab treatment
- The safety profile of lebrikizumab in ADjoin was consistent with that observed in ADvocate1&2, ADhere, and other lebrikizumab studies in patients with moderate-to-severe AD
 - Rates of adverse events did not increase over time
- These long-term 3-year data demonstrate that lebrikizumab provides disease control over time, and helps inform clinical practice in a chronic and relapsing disease

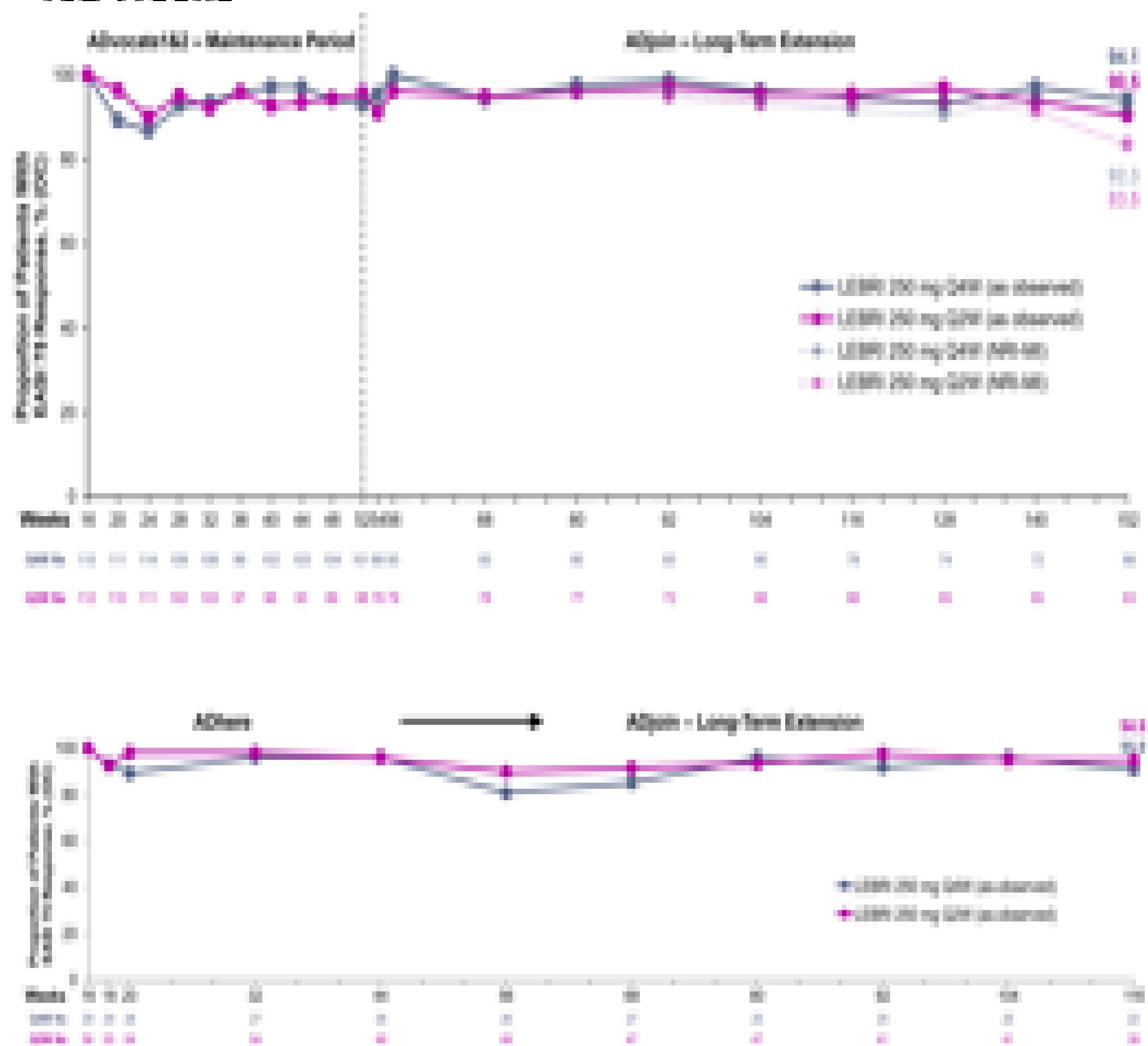
Elevate-Derm Summer Conference, Park City, Utah, USA;
July 23 - 27, 2025

KEY RESULTS

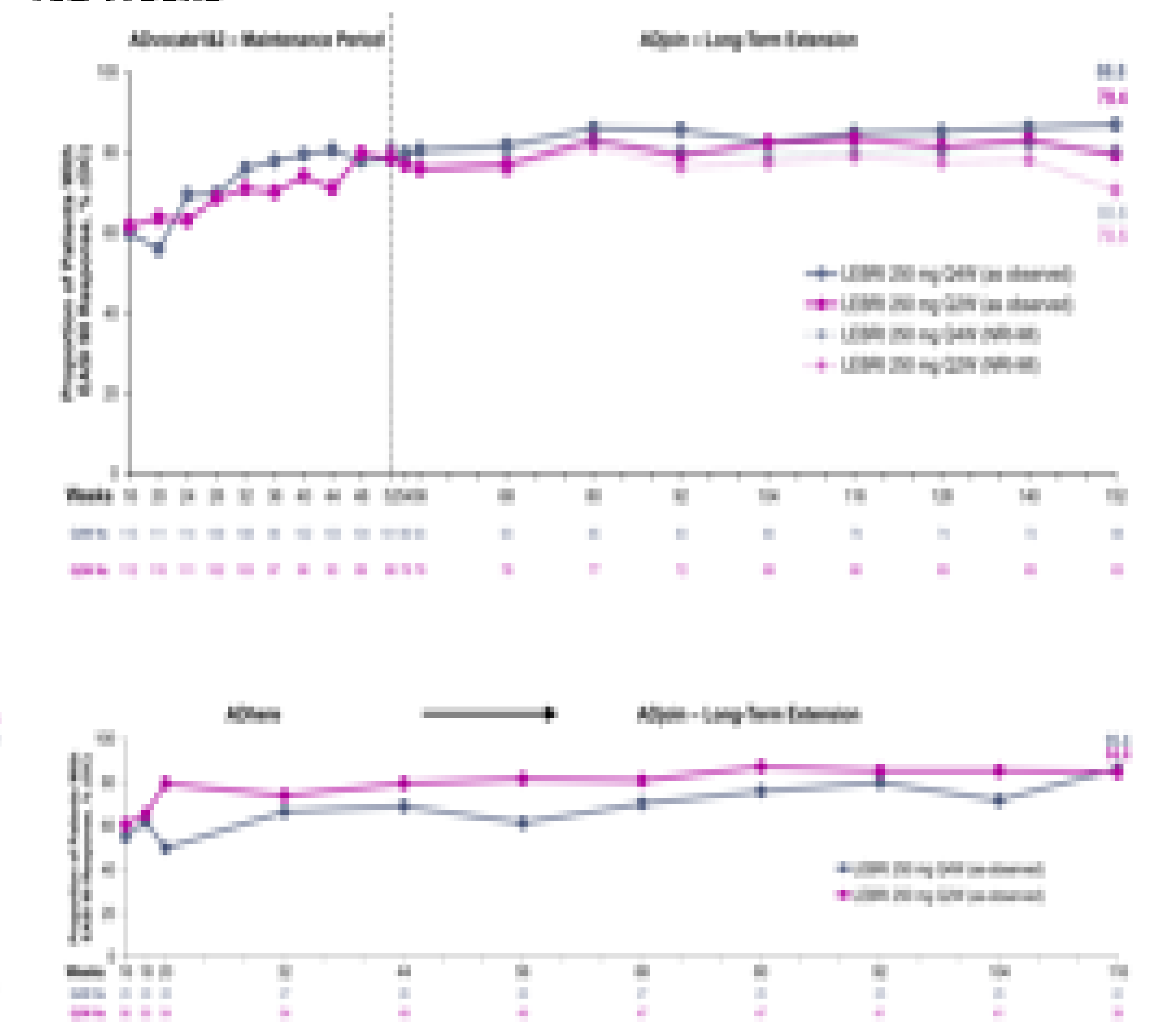
IGA (0,1) Response Rates^a Were Maintained in Patients Receiving Lebrikizumab Q4W and Q2W Through 152 Weeks

^a Data from WTL respondents not using ECE, ECT, or WTL oil panel study.

EA SI 75 Response Rates* Were Maintained in Patients Receiving Lebrikizumab Q4W and Q2W Through 152 Weeks

^aCells from 1670 recovered from previous BLAST 70 at 10710 of normal state.

EA SI 90 Response Rates* Were Maintained and Improved in Patients Receiving Lebrikizumab Q4W and Q2W Through 152 Weeks

^aQuota from WTI respondents interviewing HJBTs at WTI and parent study.

Methods

Outcomes

- Maintenance of response for:
 - IGA [0,1] (In Week 16 responders achieving IGA [0,1] at Week 16 of parent study)
 - EASI 75 (In Week 16 responders achieving EASI 75 at Week 16 of parent study)
 - EASI 90 (In Week 16 responders achieving EASI 75 at Week 16 of parent study)

Note: Responders in ADVANCE (A) and ADVANCE were defined as those patients who achieved either RRR (76 or 85A [C, T]) following 70 weeks of LHRH AG or GZG treatment without use of rescue therapy.

Statistical Analyses and Assessment

- Analysis population
 - Modified intent-to-treat population*: ADvocate1&2 → ADjoin: Lebrikizumab responders² who were randomized to lebrikizumab 250 mg Q4W or lebrikizumab 250 mg Q2W at Week 16, and enrolled into ADjoin with the same dose regimen at Week 52
 - Modified intent-to-treat population*: ADhere → ADjoin: Lebrikizumab responders² in ADhere who were randomized to lebrikizumab 250 mg Q4W or lebrikizumab 250 mg Q2W and enrolled into ADjoin at Week 16

- **Efficacy analysis**
 - As-observed (OC) analyses used all collected data regardless of rescue medication use
 - In addition to as-observed analyses, the non-responder imputation-multiple imputation² method was implemented to handle missing data. For each imputation process, 25 datasets with imputations were calculated using SAS[®] software version 9.4
 - ADvocate1&2 → ADjoin: Efficacy outcomes were assessed during the maintenance period of ADvocate1&2 (Weeks 16-52) and then for 100 weeks in ADjoin (Weeks 52-152)
 - ADhere → ADjoin: Efficacy outcomes were assessed up to 100 weeks in ADjoin (Weeks 16-116)

- Safety data were reported from ADjoin enrolment up to the data cut-off April 24, 2020

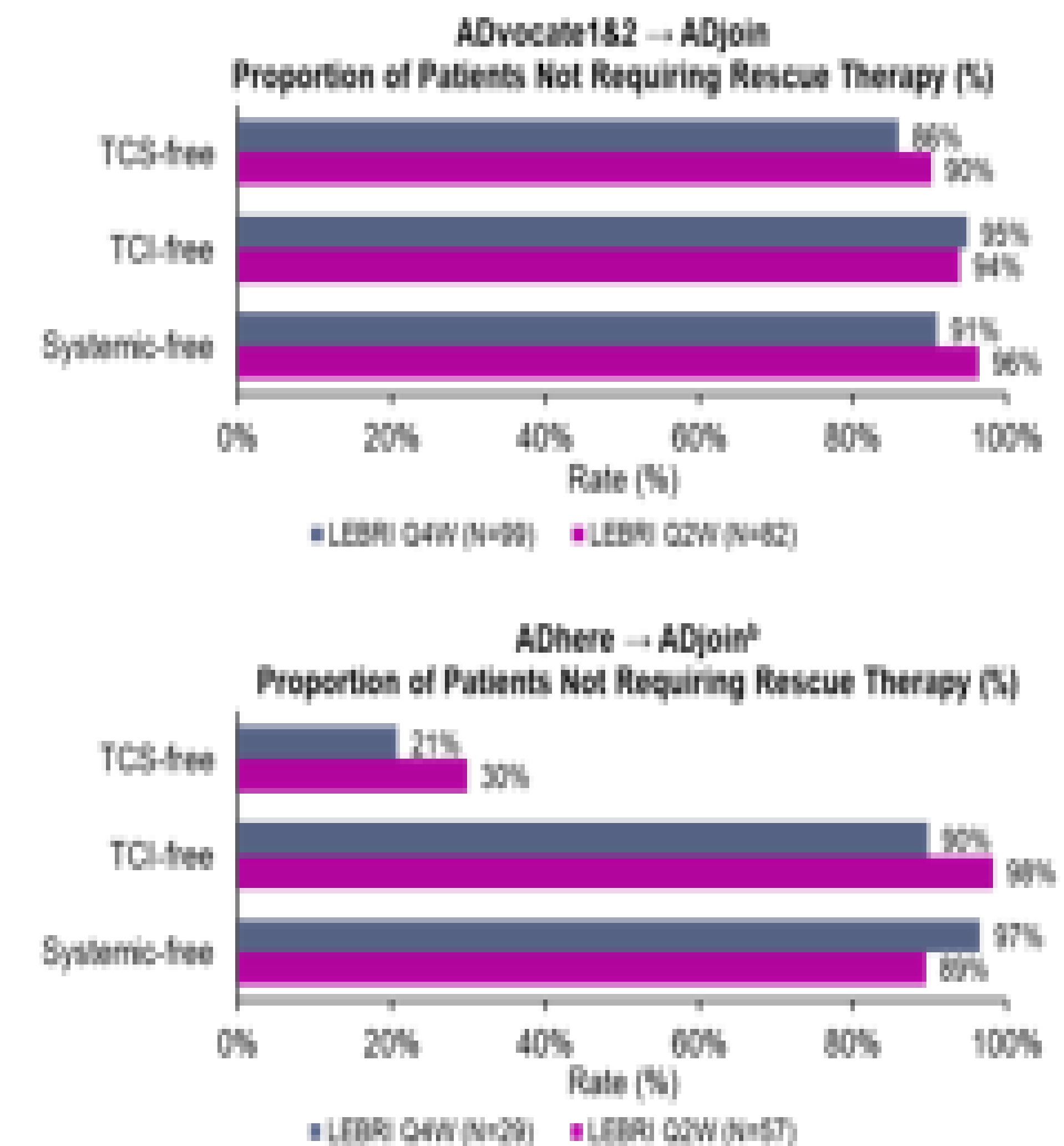
Patients from one site participated in DISCOUNT and 43 patients from the 5 sites included in the pooled analysis participated due to site switch. 43 patients in DISCOUNT and 43 patients were defined as those who underwent either 8400 mg or 10500 mg (3x) following 30 days of intravenous 760 mg CSW treatment without use of rescue therapy. 43 patients who discontinued treatment due to lack of efficacy (n=24) and/or in those paired study baseline value was unobtainable in that time. Discontinuations after discontinuing treatment due to other reasons are not as missing and handled with multiple imputation.

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Results

Most Patients Receiving Lebrikizumab Q4W and Q2W Through 152 Weeks Did Not Require Rescue Therapy*



Notes: Typical rescue therapy included TCR and TCR, systemic rescue therapy included systemic or corticosteroids, or immunosuppressants, biologic, phototherapy, and photopheresis therapy. Majority of systemic rescue was used in first TCRs.

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Safety Summary for Patients Entering ADjoin From ADvocate18 and ADhere

	Advocate162 → AUpin ^a		Adhere → AUpin ^a	
	Li-BiD 250 mg Q4W (N=22)	Li-BiD 250 mg Q3W (N=22)	Li-BiD 250 mg Q4W (N=22)	Li-BiD 250 mg Q3W (N=27)
Patients with ≥1 LiAc	67 (67.3)	59 (72.0)	17 (58.6)	35 (61.4)
Mild	25 (25.3)	28 (34.1)	12 (41.4)	13 (22.6)
Moderate	36 (36.4)	28 (34.1)	4 (13.8)	21 (36.8)
Severe	6 (6.1)	3 (3.7)	1 (3.4)	1 (1.8)
Serious Ac	3 (3.0)	3 (3.7)	2 (6.9)	2 (3.5)
Death	0	0	0	1 (1.8) ^b
Discontinuation from study treatment due to Ac	3 (3.0)	2 (2.4)	0	2 (3.5)
<u>TEAEs of Special Interest^c</u>				
Conjunctivitis cluster ^d	5 (5.1)	3 (3.7)	3 (10.3)	8 (14.0)
Keratitis cluster ^d	1 (1.0)	0	0	0
Infections ^e	45 (45.5)	38 (46.3)	11 (37.3)	24 (42.1)
Potential opportunistic infections ^f	1 (1.0)	4 (4.9)	1 (3.4)	0
Skin infections	3 (3.0)	1 (1.2)	1 (3.4)	2 (3.5)
Herpes infections	3 (3.0)	6 (7.3)	1 (3.4)	2 (3.5)
Fungal infections	0	0	1 (3.4)	0
Injection site reactions ^g	0	1 (1.2)	1 (3.4)	1 (1.8)
Malignancies ^h	0	0	0	0
Hypersensitivity	1 (1.0)	2 (2.4)	1 (3.4)	1 (1.8)
Leucopenia ⁱ	1 (1.0)	1 (1.2)	0	0

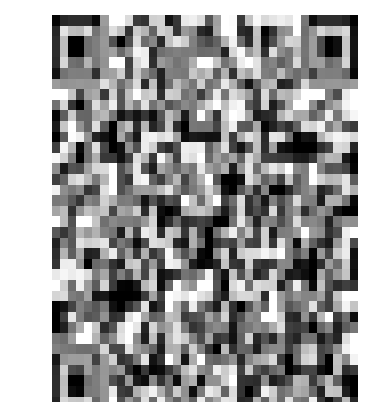
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Notes: Data are presented as n (%). DRABP is defined as an event that had occurred or was missed in severity after baseline and/or as prior to the date of the last visit within the specified treatment period. Patients with multiple occurrences of these categories are awarded once for each category. Patients may be awarded in >1 category. Deaths are also included as serious AEs and discontinuations due to AEs. MedDRA Version 20.0.



Deployment and Work

Users can CPU scale for additional deployment on hardware.



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Icotrokinra, a Targeted Oral Peptide That Selectively Blocks the Interleukin-23–Receptor, for the Treatment of Moderate-to-Severe Plaque Psoriasis: Results Through Week 24 of the Phase 3, Randomized, Double-blind, Placebo-Controlled ICONIC-LEAD Trial

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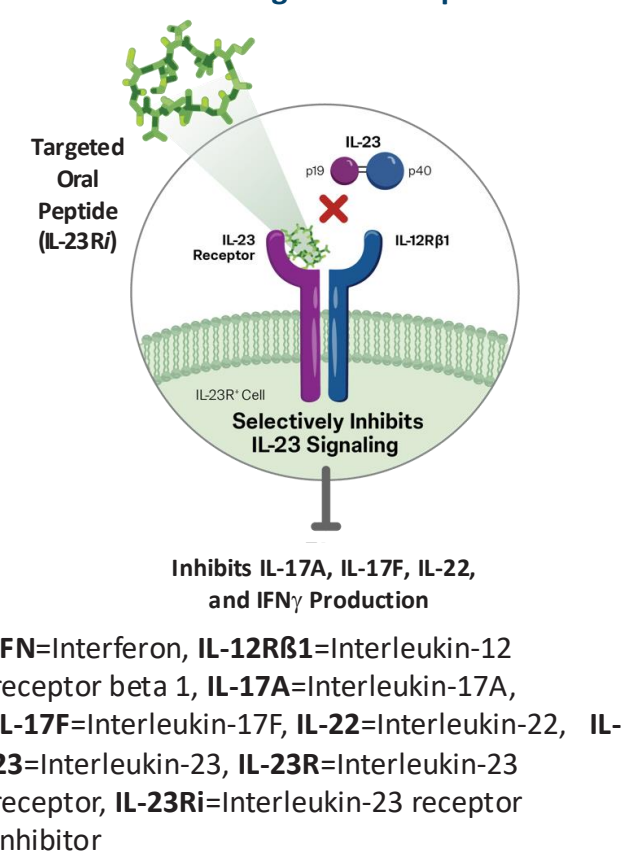
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Background

Patients with moderate-to-severe plaque psoriasis (PsO) are generally limited to injectable therapies to achieve high-level efficacy with a favorable safety profile

Icotrokinra (ICO) is a first-in-class, targeted oral peptide that:

- Selectively binds the interleukin (IL)-23 receptor and inhibits IL-23 pathway signaling¹
- Demonstrated significant skin clearance and no safety signals through 1 year in Phase 2 PsO studies^{2,3}
- Is being evaluated in Phase 3 studies in adults and adolescents with moderate-to-severe plaque PsO (ICONIC-LEAD)



Objectives

Here we report key clinical and patient-reported outcomes (PROs) and safety-related findings from the pivotal ICONIC-LEAD study through Week (W) 24

Results

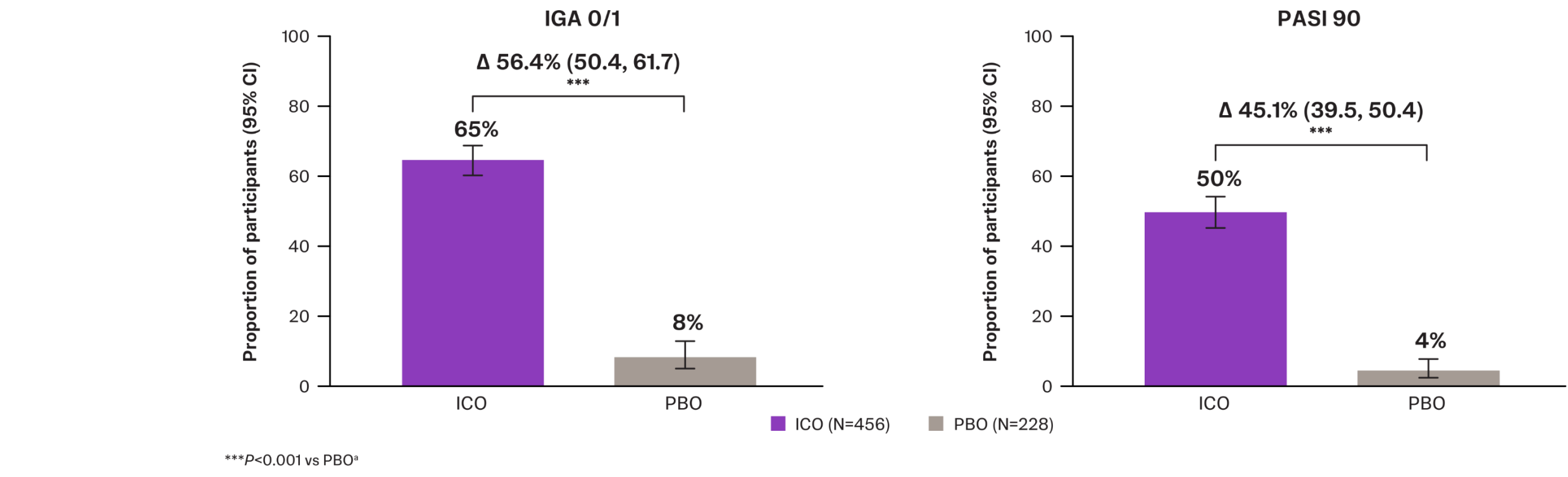
Baseline characteristics were similar between groups

- Overall, 5% of participants (ICO: 4%; placebo [PBO]: 6%) discontinued prior to W16^a

Baseline characteristics	ICO 200 mg QD (N=456)	PBO (N=228)
Demographic characteristics		
Age, year, mean (SD)	42.4 (16.3)	43.2 (16.6)
Adolescent cohort, year	15.0 (1.8)	15.0 (1.5)
Male	64%	68%
White	72%	72%
BMI, kg/m ² , mean (SD) ^b	29.2 (6.9)	29.3 (7.0)
Disease characteristics		
Psoriasis disease duration, year, mean (SD)	17.3 (13.9)	16.6 (12.7)
% BSA with PsO, mean (SD)	24.6 (14.3)	27.1 (16.2)
IGA score		
Moderate (3)	75%	76%
Severe (4)	25%	24%
PASI (0–72), mean (SD)	19.4 (7.1)	20.8 (8.1)
PsO involving the scalp area		
ss-IGA score^c		
Moderate (3)	59%	51%
Severe (4)	17%	22%
Prior treatment for PsO		
Phototherapy (PUVA and UVB)	30%	29%
Systemic therapy ^d	72%	71%
Biologic therapy ^e	32%	37%

^aAmong the participants who discontinued prior to W16 (ICO: n=19 [4%]; PBO: n=14 [6%]), the most common reasons for discontinuation were withdrawal by participant in the ICO group (n=8 [2%]) and lack of efficacy in the PBO group (n=8 [4%]). ^bICO: N=455; PBO: N=227. ^cICO: N=451; PBO: N=227. ^dConventional nonbiologic systemics, novel nonbiologic systemics, 1,25-vitamin D3 and analogues, phototherapy, and biologics. ^eAdalimumab, alefacept, brodalumab, brodalumab pegol, efalizumab, etanercept, guselkumab, infliximab, ixekizumab, risankizumab, secukinumab, tildrakizumab, and ustekinumab. BMI=Body mass index, BSA=Body surface area, ICO=icotrokinra, IGA=Investigator's Global Assessment, PASI=Psoriasis Area and Severity Index, PBO=Placebo, PsO=Psoriasis, PUVA=Psoralen plus ultraviolet A, QD=Once daily, SD=Standard deviation, ss-IGA=Scalp-specific Investigator's Global Assessment, UVB=Ultraviolet B, W=Week

ICO demonstrated *significantly higher rates of IGA 0/1 and PASI 90 vs PBO at W16* (co-primary endpoints)



^aP values were calculated based on Cochran-Mantel-Haenszel chi-square test stratified by age group, baseline weight category (adults only), and geographic region. CI=Confidence interval, ICO=icotrokinra, IGA=Investigator's Global Assessment, IGA 0/1=IGA score of 0 (clear)/1 (almost clear) and a ≥2-grade improvement, PASI=Psoriasis Area Severity Index, PASI 90=Reduction from baseline of 90% in the PASI score, PBO=Placebo

ICONIC-LEAD study design

Moderate-to-severe plaque PsO (N=684)

Key inclusion criteria

- ≥12 years
- Plaque PsO for ≥26 weeks
- Body surface area (BSA) ≥10%, Psoriasis Area and Severity Index (PASI) score ≥12, and Investigator's Global Assessment (IGA) score ≥3
- Candidate for phototherapy or systemic treatment for plaque PsO

Endpoints

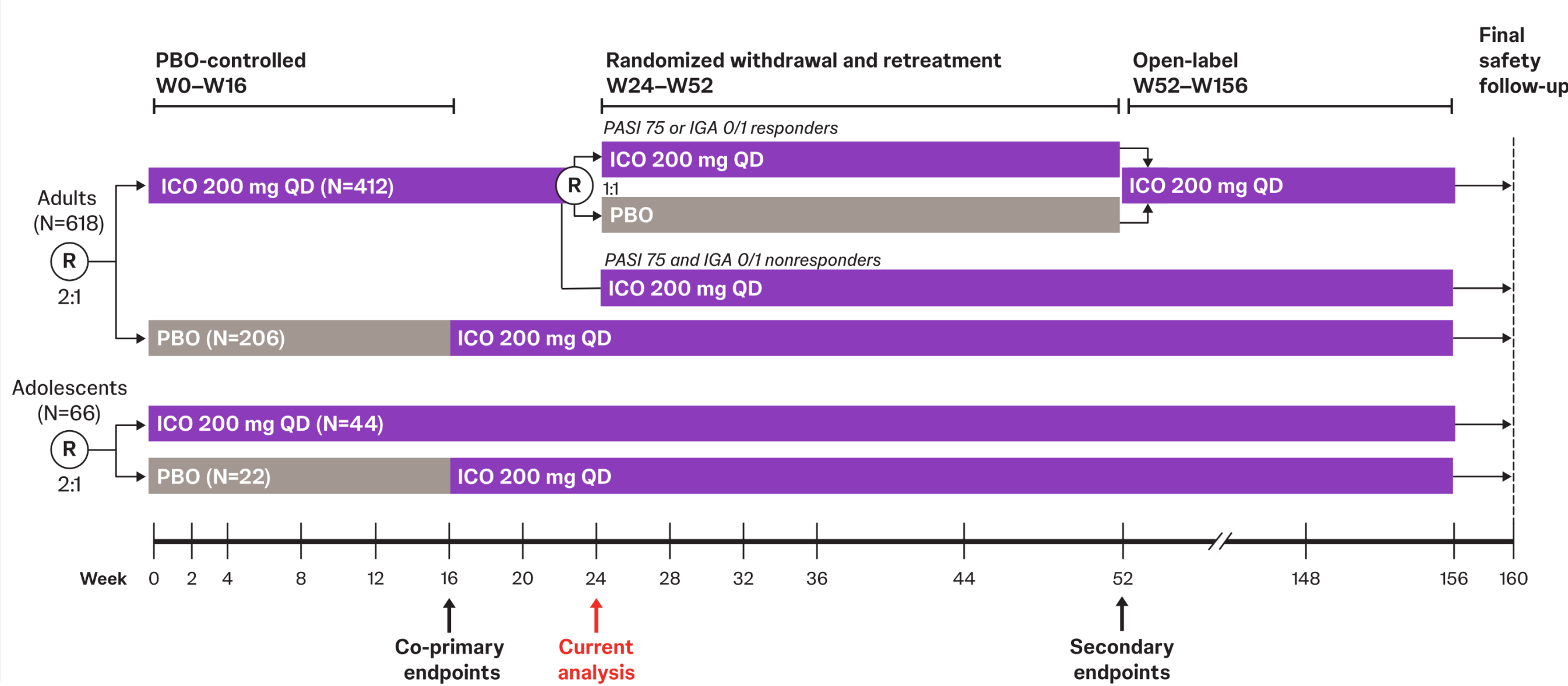
Co-primary endpoints:

- IGA 0/1 at W16
- PASI 90 at W16

Key secondary endpoints:

- Clinical outcomes (PASI 75/90/100, IGA 0) at W4, W8, and/or W16
- PROs (≥4-point improvement from baseline in Psoriasis Symptom and Sign Diary [PSSD] Itch, PSSD Symptom 0) at W4, W8, and/or W16
- Scalp PsO (scalp-specific [ss]-IGA 0/1) at W16

Participants with the following intercurrent events were considered as nonresponders: discontinued study drug due to a lack of efficacy or AE of worsening PsO or initiated prohibited medication that could impact PsO. After accounting for these intercurrent events, nonresponder imputation was applied to participants with missing data. AE=Adverse event, ICO=icotrokinra, IGA 0/1=Investigator's Global Assessment score of 0 (clear)/1 (almost clear) and a ≥2-grade improvement, PASI 75/90/100=Reduction from baseline of 75%/90%/100% in the Psoriasis Area and Severity Index score, PBO=Placebo, PsO=Psoriasis, PSSD=Psoriasis Symptom and Sign Diary, QD=Once daily, R=Randomization, ss-IGA=Scalp-specific Investigator's Global Assessment, ss-IGA 0/1=ss-IGA score of 0 (clear)/1 (almost clear) and a ≥2-grade improvement from baseline, W=Week



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Key Takeaways

✓ In ICONIC-LEAD, among the first pivotal trials evaluating the novel targeted oral peptide ICO in adults and adolescents with moderate-to-severe plaque PsO:

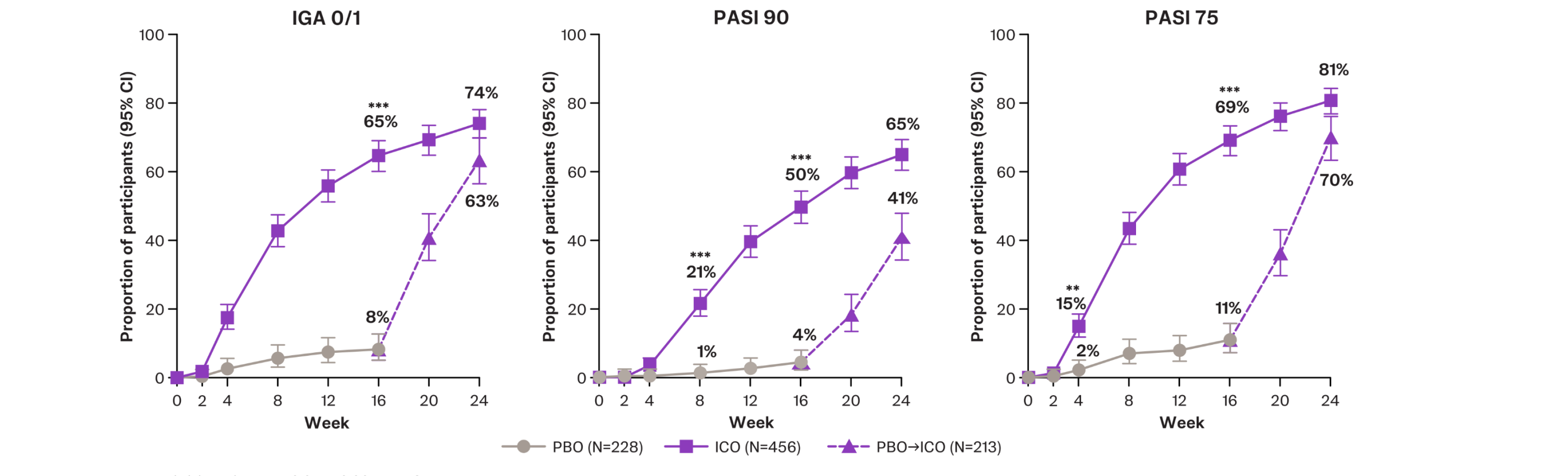
✓ ICO demonstrated *significantly higher rates of clear/almost clear skin and scalp disease and PsO symptom relief* than PBO at W16

✓ ICO demonstrated *separation from PBO as early as W4, with increasing response rates through W24*

✓ Rates of AEs were similar between the ICO and PBO groups

✓ No safety signal was identified through W24

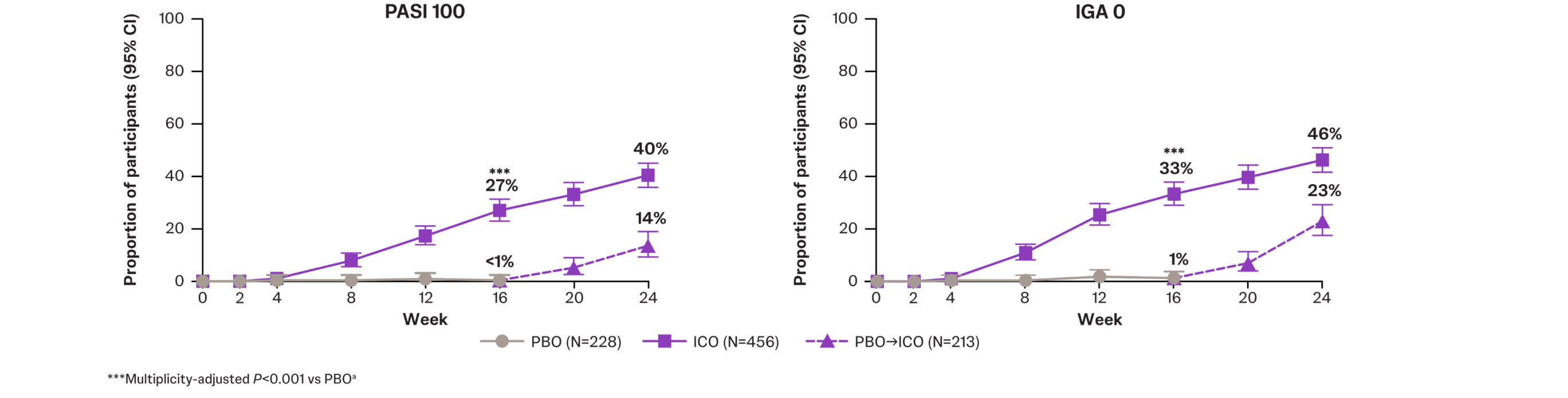
ICO demonstrated *early separation* from PBO; rates of clear/almost clear skin increased through W24



^aP values were calculated based on Cochran-Mantel-Haenszel chi-square test stratified by age group, baseline weight category (adults only), and geographic region, if applicable. CI=Confidence interval, ICO=icotrokinra, IGA=Investigator's Global Assessment, IGA 0/1=IGA score of 0 (clear)/1 (almost clear) and a ≥2-grade improvement, PASI=Psoriasis Area Severity Index, PASI 75/90=Reduction from baseline of 75%/90% in the PASI score, PBO=Placebo

ICO demonstrated *significantly higher rates of complete skin clearance* vs PBO

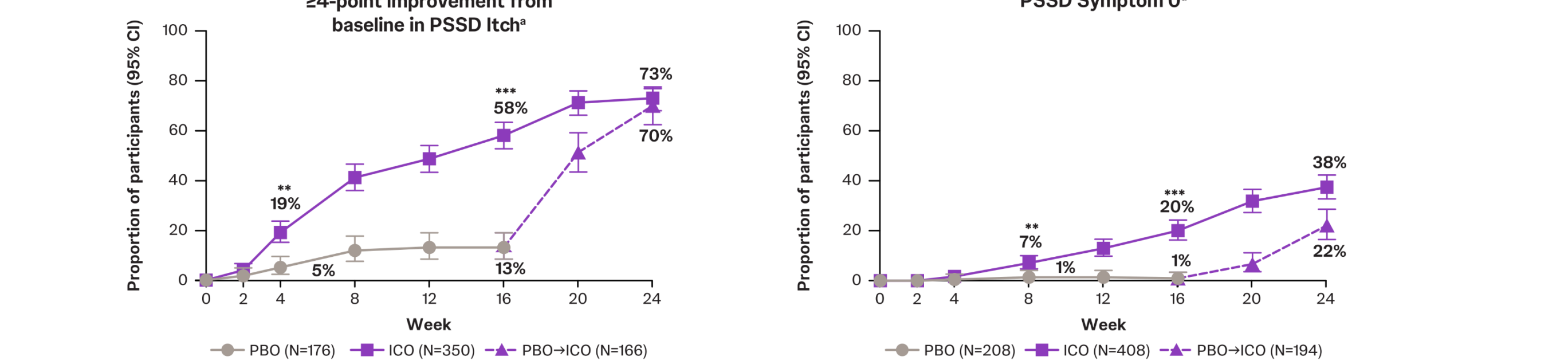
- ICO showed separation from PBO as early as W8; rates of complete skin clearance increased through W24



^aP values were calculated based on Cochran-Mantel-Haenszel chi-square test stratified by age group, baseline weight category (adults only), and geographic region. CI=Confidence interval, ICO=icotrokinra, IGA=Investigator's Global Assessment, IGA 0=IGA score of 0 (clear) and a ≥2-grade improvement, PASI=Psoriasis Area Severity Index, PASI 100=Reduction from baseline of 100% in the PASI score, PBO=Placebo

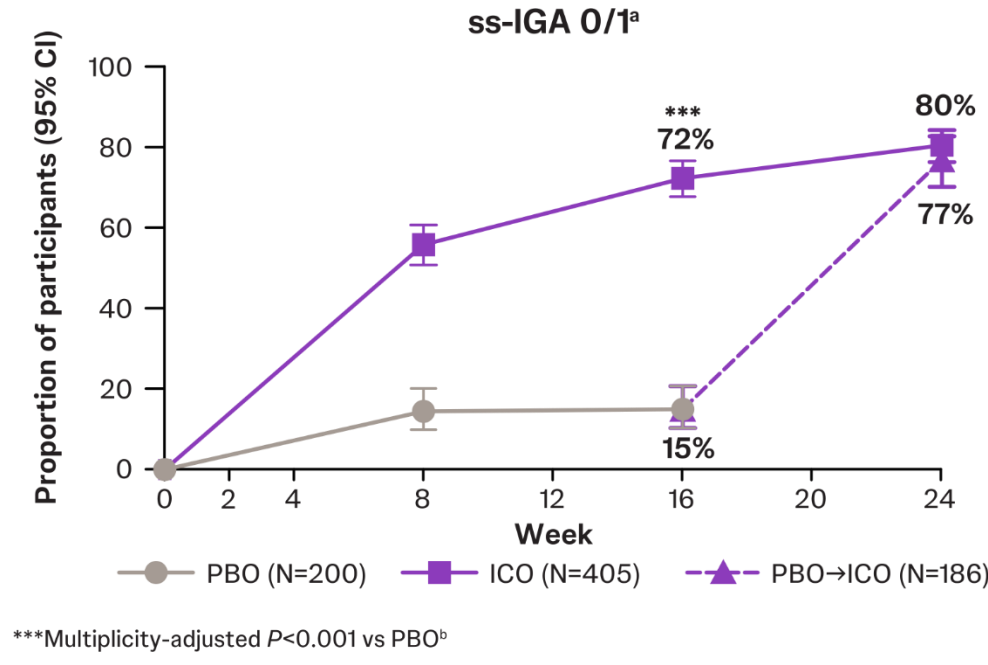
Significantly higher proportions of ICO- vs PBO-treated participants reported *meaningful improvements in PsO itch*

- ICO demonstrated early separation from PBO on improving itch and resolving symptoms; response rates increased through W24



^aAmong participants with a baseline PSSD Itch score ≥4 or PSSD Symptom score >0. ^bP values were calculated based on Cochran-Mantel-Haenszel chi-square test stratified by age group, baseline weight category (adults only), and geographic region, if applicable. Fisher's exact test was used for PSSD Symptom 0 at Week 8. CI=Confidence interval, ICO=icotrokinra, PSSD=Psoriasis Symptom and Sign Diary, PBO=Placebo

ICO demonstrated *significantly higher rates of clear/almost clear scalp PsO* vs PBO



^aAmong participants with a baseline ss-IGA score ≥2. ^bP values were calculated based on Cochran-Mantel-Haenszel chi-square test stratified by age group, baseline weight category (adults only), and geographic region. CI=Confidence interval, ICO=icotrokinra, PBO=Placebo, ss-IGA=Scalp-specific Investigator's Global Assessment

Adverse event (AE) rates were generally similar between groups through W16

- Through W24 of ICO treatment, the most commonly reported AEs were similar to those observed through W16 and no safety signal emerged

	ICO 200 mg QD (N=456)	PBO (N=228)
Safety through W16		
Mean weeks of follow-up	15.9	15.8
Any AE	225 (49%)	112 (49%)
Most common AEs (≥5%)		
Nasopharyngitis	31 (7%)	15 (7%)
Upper respiratory tract infection	30 (7%)	16 (7%)
SAE ^a	6 (1%)	6 (3%)
Infection	107 (23%)	51 (22%)
Serious infection	1 (<1%)	0
AE leading to discontinuation ^b	6 (1%)	1 (<1%)
Gastrointestinal AE	26 (6%)	13 (6%)
Active TB	0	0
Malignancy ^c	2 (<1%)	0

^aSAEs through W16 included acute cholecystitis, concussion, craniofacial fracture, pelvic fracture, psoriasis, and hypertensive urgency in the PBO group; and adenocarcinoma of the colon, prostate cancer, pancreatitis, bacterial gastroenteritis (serious infection), arthralgia, and subarachnoid hemorrhage in the ICO group. ^bAEs leading to discontinuation through W16 included blood glucose increased in the PBO group; and adenocarcinoma of the colon, prostate cancer, hypertriglyceridemia, subarachnoid hemorrhage, erectile dysfunction, and psoriasis in the ICO group. ^cMalignancies reported were adenocarcinoma of the colon (n=1: in a participant who had a history of smoking; the participant reported mild gastroenteritis during screening, and severe colitis starting on study day 14 leading up to the diagnosis of grade 3 adenocarcinoma of the colon on day 19) and prostate cancer (n=1: in a 62-year-old male, former smoker [30 pack years], with a family history [brother] of prostate cancer, and an elevated prostate-specific antigen level prior to baseline was diagnosed with grade 1 prostate cancer on study day 48 following a positive biopsy). AE=Adverse event, ICO=icotrokinra, PBO=Placebo, QD=Once daily, SAE=Serious adverse event, TB=Tuberculosis, W=Week

PRESENTED AT: Eleve-Derm Summer Conference 2025, Park City, UT, USA, July 23-27, 2025. **REFERENCES:** 1. Fourie AM, et al. *Sci Rep*. 2024;14:17515. 2. Bissonnette R, et al. *N Engl J Med*. 2024;390:510-21. 3. Ferris LE, et al. *J Am Acad Dermatol*. Published online November 14, 2024. doi: 10.1016/j.jaad.2024.10.015. **ACKNOWLEDGMENTS:** Medical writing support was provided by Luminity Communications, Inc. under the direction of the authors in accordance with Good Publication Practice guidelines (*Ann Intern Med*. 2022;75:328-330). Layout design and reformatting for this e-poster presentation was provided by Sandeep Chavan of SRO Medical Writing Pvt. Ltd., Thane, Maharashtra, India (funded by Johnson & Johnson). This study was sponsored by Johnson & Johnson. **DISCLOSURES:** RB: serves as advisory board member, consultant, speaker and/or investigator for and received honoraria and/or grants from AbbVie, Almiral, Amgen, Arcutis, Bausch Health, Boston Pharma, Bristol Myers Squibb/Celgene, Dermavant, Eli Lilly, Janssen, Kobi Labs, LEO Pharma, National Psoriasis Foundation, Novartis, Pfizer, Regeneron, Sanofi, and UCB. AH: had research grants paid to the medical school from Amgen, Arcutis, Dermavant, Janssen, LEO Pharma, Eli Lilly, Pfizer, Takeda; received honoraria from Arcutis, Dermavant, Galderma, Incyte, Janssen, Ortho Dermatologics, Pfizer, Sun Pharma, Verrica; and served on a data safety monitoring board for Ortho Dermatologics and Sanofi Regeneron. AEP: served as an investigator, advisor and/or speaker and/or received educational support from AbbVie, Almiral, Amgen, Boehringer Ingelheim, Bristol Myers Squibb, Eli Lilly, Galderma, Janssen, LEO Pharma, Novartis, Pfizer, Sanofi, and UCB. AP: served as an advisor and/or received speaker's honoraria and/or received grants and/or participated in clinical trials for AbbVie, Almiral, Amgen, Biogen, Idec, BioTech, Boehringer Ingelheim, Celgene, Celltrion, Eli Lilly, Galderma, GSK, Hexal, Janssen-Cilag GmbH, Klinge Pharma, LEO Pharma, MC2, Medac, Merck Serono, Mitsubishi, MSD, Novartis, Pascoe, Pfizer, Regeneron, Roche, Sandoz Biopharmaceuticals, Sanofi Genzyme, Schering-Plough, Tigerat Pharma, UCB, and Zuellig Pharma. YS: reports no conflicts of interest. MM, JC, JZ, and CD: are employees of Johnson & Johnson and may own company stock/stock options. MGL: is an employee of Mount Sinai and receives research funds from AbbVie, Arcutis, Avotres, Boehringer Ingelheim, Cara Therapeutics, Celxio, Dermavant Sciences, Eli Lilly, Incyte, Inozyme, Janssen, Pfizer, Sanofi-Regeneron, and UCB, and is a consultant for Almiral, Altrubio Inc., Apogee, Arcutis, AstraZeneca, Atornise, Avotres, Boehringer Ingelheim, Bristol Myers Squibb, Castle Biosciences, Celltrion, Corvitas, Dermavant, Dermisquared, Evonmune, Inc., Facilitation of International Dermatology Education, Forte Biosciences, Galderma, Genentech, Incyte, LEO Pharma, Meiji Seika Pharma, Mindera, Pfizer, Sanofi-Regeneron, Searegry, Strata, Takeda, Trevi, and Verrica. **PREVIOUSLY PRESENTED AT:** American Academy of Dermatology (AAD) Annual Meeting, Orlando, FL, USA, March 7-11, 2025.

CSU Disease Activity Band Shift after Long-Term Treatment With Remibrutinib in the Phase 3 REMIX-1 and REMIX-2 Studies

Martin Metz,^{1,2} Ana M. Giménez-Arnau,³ Petra Staubach,⁴ Marta Ferrer Puga,⁵ Kanokvalai Kulthanan,⁶ Xinghua Gao,⁷ Karine Lheritier,⁸ Christine-Elke Ortmann,⁸ Nadine Chapman-Rothe,⁸ Sibylle Haemmerle,⁸ Atsushi Fukunaga,⁹ Michihiro Hide¹⁰

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KEY FINDINGS & CONCLUSIONS

- Remibrutinib **reduced CSU disease activity** as early as **week 1** in patients with CSU, and the **fast response** was **sustained over long-term** treatment for **52 weeks**
- Of note, treatment transition from placebo to remibrutinib resulted in **similar fast improvements, with well-controlled and complete response levels being comparable to remibrutinib patients at week 52**
- Remibrutinib has the potential to become a novel oral treatment option that provides **fast (as early as week 1)** and **sustained improvements** in disease activity in patients with CSU



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Poster presented at the Elevate-Derm Summer Conference, July 23–27, 2025, Park City, UT.

INTRODUCTION

- Remibrutinib, a novel, highly selective, oral, Bruton's tyrosine kinase inhibitor, has previously shown superior efficacy versus placebo at week 12 and a favorable safety profile in the 24-week double-blind period of the pivotal phase 3 REMIX-1 and REMIX-2 studies in patients with chronic spontaneous urticaria (CSU) who remained symptomatic despite treatment with second-generation H1-antihistamines¹
- In a previously presented REMIX analysis up to week 24, a reduction in CSU disease activity was observed as early as week 1 with remibrutinib, sustained up to 24 weeks of treatment in the target population of patients with moderate to severe CSU disease activity at baseline²

OBJECTIVE

- The objective of this analysis was to explore the shift in weekly Urticaria Activity Score (UAS7) bands after treatment with remibrutinib versus placebo up to week 52 on a patient level in the REMIX studies

METHODS

Study Design

- REMIX-1 and REMIX-2 are two identical, global, double-blind, placebo-controlled phase 3 studies of remibrutinib 25 mg twice daily (bid) administered orally
- Adult patients with CSU who remained symptomatic despite treatment with second-generation antihistamines were randomized 2:1 to oral remibrutinib 25 mg bid or placebo for 24 weeks, followed by an open-label treatment with remibrutinib 25 mg bid for 28 weeks (patients on placebo transitioned to remibrutinib at week 24)¹

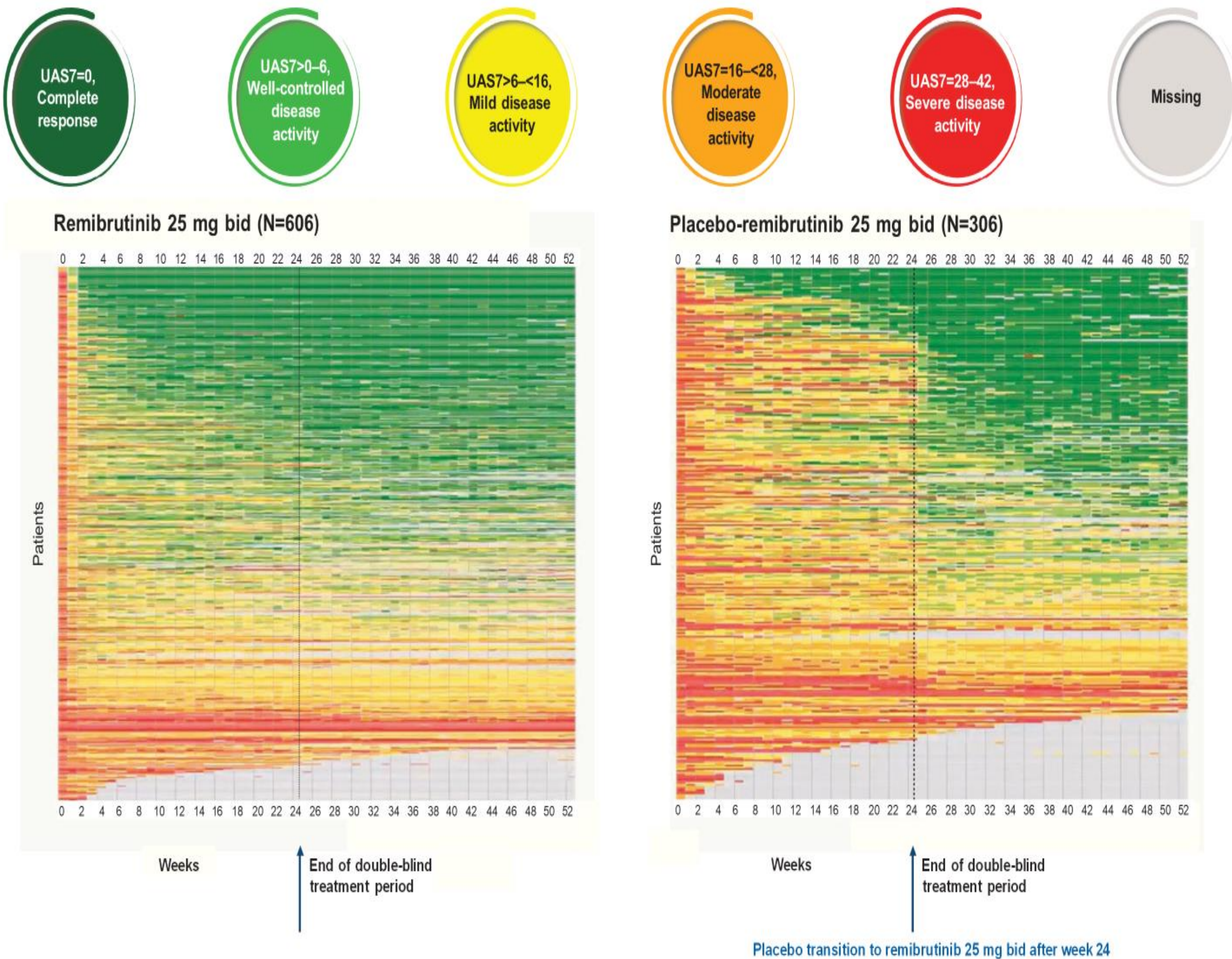
Study Assessments and Data Analysis

- CSU disease activity was categorized into five bands, based on UAS7 (**Figure**)
- This post hoc analysis assessed the proportion of patients who experienced a shift in CSU disease activity from baseline to week 52 after treatment
- In addition, patients' individual UAS7 band shifts per week, up to week 52, were visualized in swimmer plots. Each patient is represented by a horizontal line, with each UAS7 band achievement represented by a color, as indicated in the **Figure**

RESULTS

- This pooled analysis included randomized patients who received at least one dose of remibrutinib 25 mg bid (N=606) or placebo for 24 weeks (N=306) in the REMIX-1 and REMIX-2 studies
- Disease severity at baseline was similar among patients in the remibrutinib and placebo treatment arms; 215 (35.5%) and 386 (63.7%) patients from the remibrutinib arm and 122 (39.9%) and 181 (59.2%) from the placebo arm had moderate and severe CSU disease activity, respectively
- Overall, patients treated with remibrutinib vs placebo experienced substantial improvements in CSU disease activity and moved to a **lower disease activity band** as early as **week 1**, with more patients remaining in lower disease activity bands up to **week 24** (**Figure**)
 - Patients on placebo transitioned to remibrutinib 25 mg bid after week 24 and moved to a lower disease activity band as early as week 1 after the transition and remained in the lower disease activity bands up to week 52, in line with patients who were on remibrutinib throughout (**Figure**)
- In the remibrutinib treatment arm, while **63.7% of patients** were in the **severe band** at baseline, the number dropped to **24.9%, 17.2%, 9.1%, 7.8%** and **8.1%** at **weeks 1, 2, 12, 24** and **52**, respectively
- Similarly, of the **35.5%** of patients in the **moderate band** at baseline, the number dropped to **30.7%, 24.1%, 10.6%, 7.9%** and **7.3%** at **weeks 1, 2, 12, 24** and **52**, respectively
- There were no patients in the **well-controlled** and **complete response** disease bands at baseline; however, the numbers for the **well-controlled** (UAS7≤6) and **complete response** (UAS7=0) groups combined increased with remibrutinib vs placebo to **11.7% (71/606)** vs **0.7% (2/306)** and **31.5% (191/606)** vs **4.2% (13/606)** at **weeks 1** and **2**, consistently improving up to **week 24** (**48.5% [294/606]** vs **28.4% [87/306]**)
 - Notably, the proportion of patients receiving remibrutinib who showed **complete response** increased from **0.3%** at **week 1** to **16.2%** at **week 2**, with continued improvements up to **week 52** (**35.1%**)
 - By the **end of week 52**, patients who had transitioned to remibrutinib from placebo, after **week 24**, had achieved similar band shifts as patients who had been on remibrutinib for 52 weeks

Figure. Swimmer plot of the disease activity band shift based on UAS7 scores from baseline to week 52 (pooled full analysis set; observed data)



Each patient is represented by a horizontal line. bid, twice daily; N, number of patients; UAS7, weekly Urticaria Activity Score.

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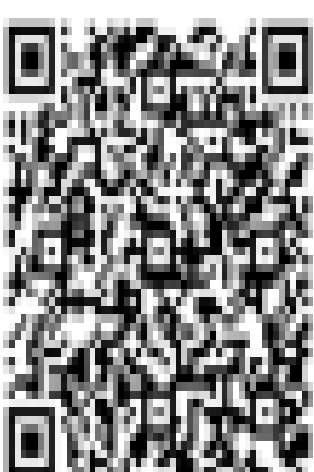
REMIX-1/-2: Early Symptom Improvements With Remibrutinib in Chronic Spontaneous Urticaria From Week 1

Sarbjit Saini,¹ Robert Szalewski,² Xinghua Gao,³ Sabine Altrichter,^{4,7} Sibylle Haemmerle,⁸ Noniko Seko,⁹ Michihiro Hide^{10,11}

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KEY FINDINGS & CONCLUSIONS

- In REMIX-1 and REMIX-2, fast and significant improvements in CSU symptoms of itch and hives vs placebo were observed as early as week 1, with further improvements through week 24
- Likewise, ≥50% of patients with CSU achieved MID for UAS7, ISS7, and HSS7, by weeks 1 to 2 of treatment with remibrutinib
- A limitation of the study is that post hoc analyses were used which may introduce biases from selective data analysis
- Overall, remibrutinib has the potential to become a novel oral treatment option with an early onset of response in patients with CSU inadequately controlled by H₁AH



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Originally presented as a poster presentation at American College of Allergy, Asthma & Immunology (ACAAI) Annual Scientific Meeting, November 9–13, 2023, Anaheim, CA.
Poster presented at the Elevate-Derm Summer Conference, July 23–27, 2025, Park City, UT.

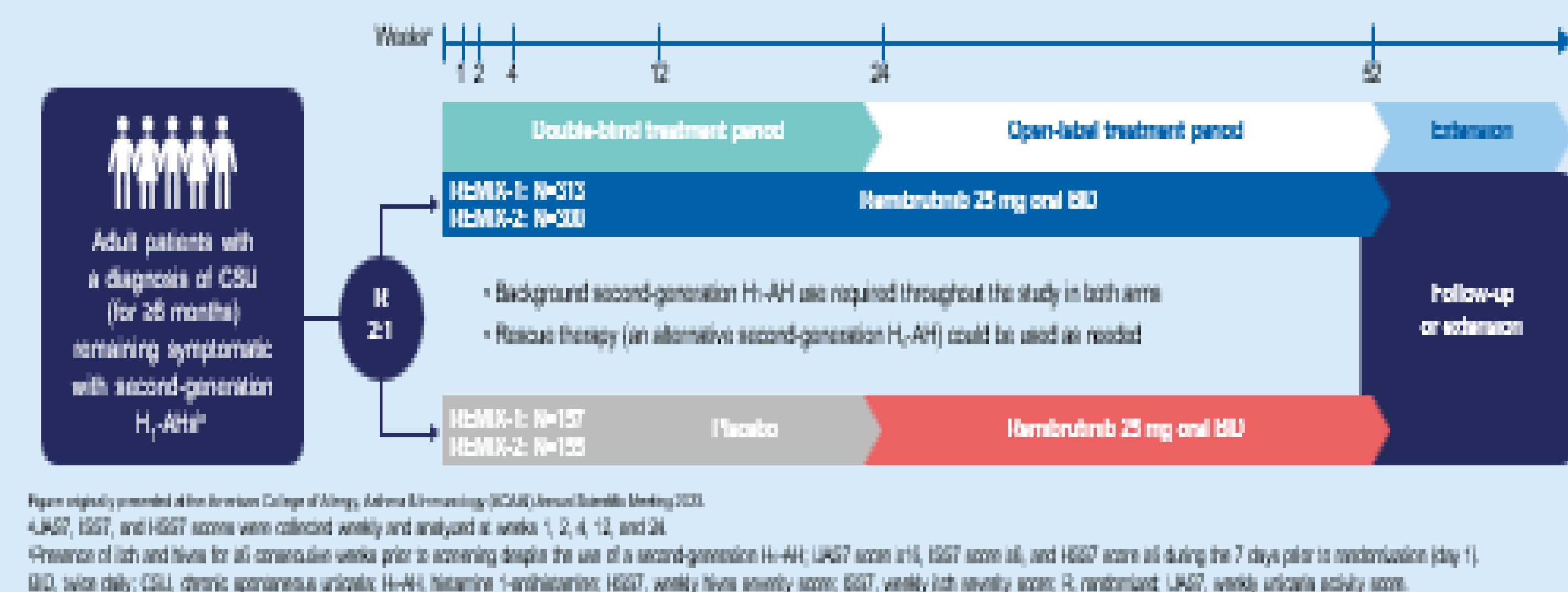
INTRODUCTION

- CSU is a disease which is characterized by the spontaneous appearance of itchy wheals, angioedema, or both, lasting ≥6 weeks and can substantially impact patients' well-being^{1,2}
- First-line treatment involves second-generation H₁-AHs; however over 50% of patients do not achieve symptom control with H₁-AHs alone^{3,4}
- Remibrutinib is a novel, oral, highly selective BTK inhibitor that prevents mast cell-mediated release of histamine and other proinflammatory mediators^{5,6}
 - Remibrutinib has shown superior efficacy vs placebo in symptom improvement after 12 weeks of treatment in patients with CSU⁷
- A UAS7 decrease of 9.5–10.5 points is commonly considered to indicate the MID⁸
- The objective of this analysis was to assess early treatment responses with remibrutinib vs placebo in the phase 3 REMIX-1 (NCT05030311) and REMIX-2 (NCT05032157) studies

METHODS

- REMIX-1 and REMIX-2 are multicenter, randomized, double-blind, parallel-arm, placebo-controlled phase 3 studies investigating the safety and efficacy of remibrutinib administered orally
- Patients were randomized 2:1 to remibrutinib 25 mg twice daily, or to placebo, for 24 weeks (Figure 1)
- In this analysis, LS mean CFB in weekly UAS7, ISS7, and HSS7 was assessed at weeks 1, 2, 4, 12, and 24 (weeks 1, 2, and 4 were post hoc analyses)
 - A higher score reflects higher disease activity
- The onset of action of remibrutinib was explored post hoc in terms of early achievement of MID in CSU disease activity, defined as a change in score of ≥10.5 for UAS7, ≥5.0 for ISS7, and ≥5.5 for HSS7⁹
- Data were analyzed using summary statistics, and MMRM was used for the analysis of CFB

Figure 1. Study Design for REMIX-1 and REMIX-2 Studies



RESULTS

- Overall, 470 patients were randomized in REMIX-1 (remibrutinib, n=313; placebo, n=157) and 455 patients in REMIX-2 (remibrutinib, n=300; placebo, n=155) (Table 1)

Demographics and Clinical Characteristics

- Patient demographics and baseline characteristics were well balanced between treatment arms in REMIX-1 and REMIX-2 (Table 1)
 - Baseline weekly UAS7, ISS7, and HSS7 were similar between remibrutinib and placebo in REMIX-1 and REMIX-2

Table 1. Patient Disposition and Baseline Characteristics (Randomized Set)^a

	REMIX-1			REMIX-2		
	Remibrutinib 25 mg BID (n=313)	Placebo (n=157)	Total (N=470)	Remibrutinib 25 mg BID (n=300)	Placebo (n=155)	Total (N=455)
Patient disposition, n (%)						
Completed double-blind treatment period (24 weeks)	270 (86.3)	134 (85.4)	404 (86.0)	259 (86.3)	129 (83.2)	388 (85.3)
Baseline characteristics						
Age (years), mean ± SD	44.6 ± 14.3	46.9 ± 13.4	45.0 ± 14.0	41.9 ± 14.5	41.3 ± 14.6	41.7 ± 14.5
Gender (female), n (%)	212 (67.7)	109 (69.4)	321 (68.3)	197 (65.7)	100 (64.5)	297 (65.3)
BMI (kg/m ²), mean ± SD	27.8 ± 6.4	28.3 ± 6.5	28.0 ± 6.4	27.0 ± 6.5	27.0 ± 5.9	27.0 ± 6.3
Duration of CSU (years), mean ± SD	6.9 ± 9.3	6.1 ± 7.1	6.6 ± 8.6	6.5 ± 7.6	4.8 ± 6.2	5.2 ± 7.2
Baseline disease severity						
UAS7, mean ± SD	30.6 ± 7.9	29.6 ± 7.7	30.3 ± 7.9	30.2 ± 8.0	29.5 ± 7.8	30.0 ± 7.9
ISS7, mean ± SD	14.7 ± 4.2	14.3 ± 4.0	14.6 ± 4.2	14.3 ± 4.4	13.9 ± 4.1	14.2 ± 4.3
HSS7, mean ± SD	15.9 ± 4.6	15.3 ± 4.6	15.7 ± 4.6	15.9 ± 4.6	15.7 ± 4.5	15.8 ± 4.6

BID, twice daily; BMI, body mass index; CSU, chronic spontaneous urticaria; HSS7, weekly hives severity score; ISS7, weekly itch severity score; UAS7, weekly urticaria activity score; SD, standard deviation.

Change From Baseline in UAS7, ISS7, and HSS7, Week 1 to Week 24

- The full analysis set included 462 and 450 patients randomized in REMIX-1 and REMIX-2, respectively
- Remibrutinib showed significant improvements vs placebo in LS mean (±SE) CFB-UAS7 as early as week 1 (Figure 2)
 - REMIX-1: −11.3 ± 0.6 vs −4.0 ± 0.8 (P<0.001)
 - REMIX-2: −11.3 ± 0.5 vs −2.9 ± 0.7 (P<0.001)
- Significant improvements were also shown in LS mean (±SE) CFB-ISS7 and CFB-HSS7 from week 1 (Figure 2)
 - CFB-ISS7:
 - REMIX-1: −6.0 ± 0.3 vs −1.9 ± 0.4 (P<0.001)
 - REMIX-2: −5.0 ± 0.3 vs −1.4 ± 0.3 (P<0.001)
 - CFB-HSS7:
 - REMIX-1: −6.0 ± 0.3 vs −1.9 ± 0.4 (P<0.001)
 - REMIX-2: −6.3 ± 0.3 vs −1.5 ± 0.4 (P<0.001)
- Improvements in LS mean (±SE) UAS7, ISS7, and HSS7 were further improved and maintained to week 24 with remibrutinib (Figure 2)

MID of UAS7, ISS7, and HSS7 at Week 1

- The number of patients who achieved MID in disease activity for UAS7, ISS7, and HSS7 is displayed in Figure 3
- A higher proportion of patients on remibrutinib compared with placebo achieved improvements in UAS7, ISS7, and HSS7 by week 1 (50.7% vs 14.5%; 50.4% vs 17.2%; 52.1% vs 17.2%), indicating early onset of action of remibrutinib

Figure 2. Improvement Over Time in UAS7, ISS7, and HSS7 Change From Baseline (Full Analysis Set)

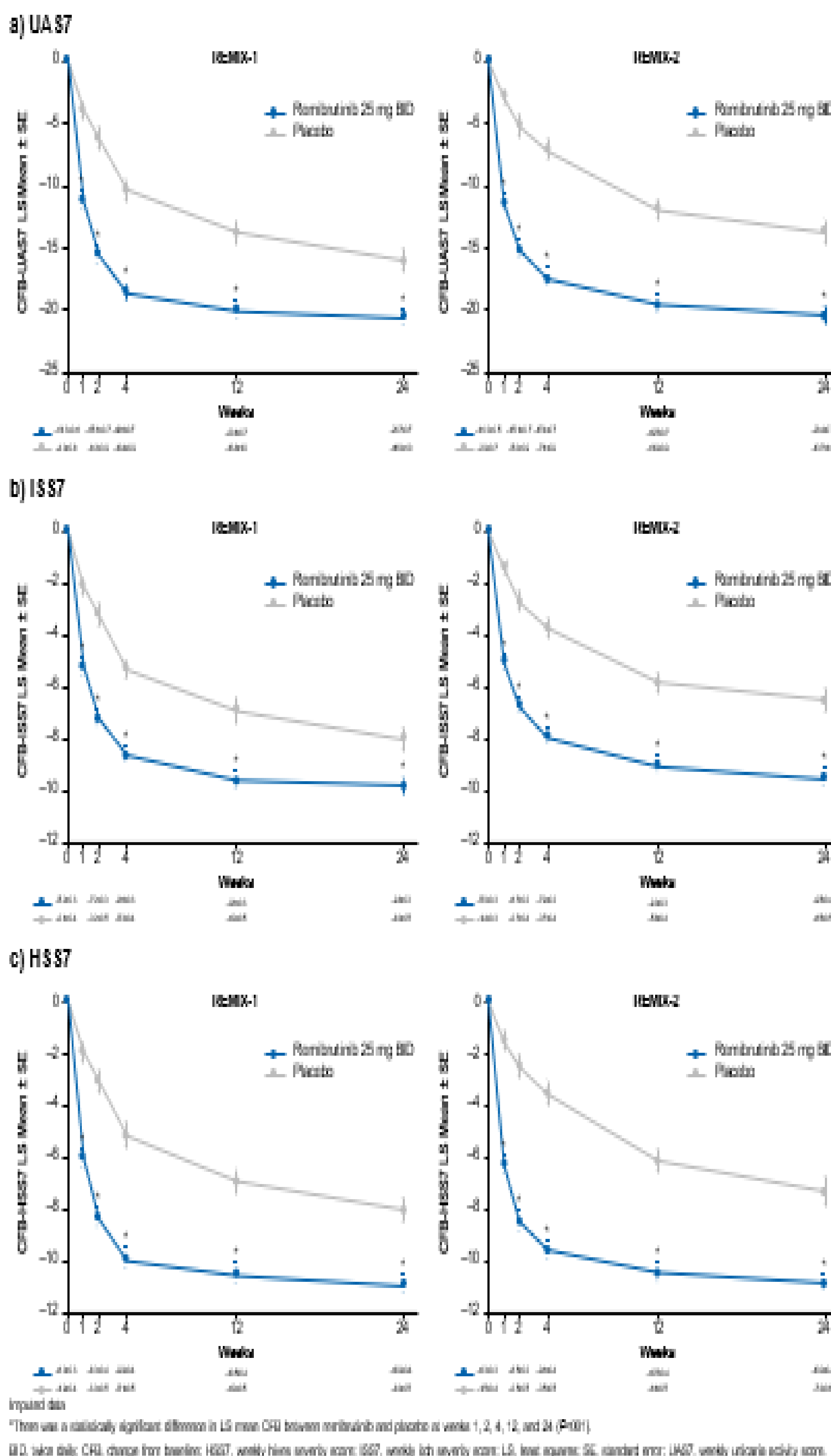
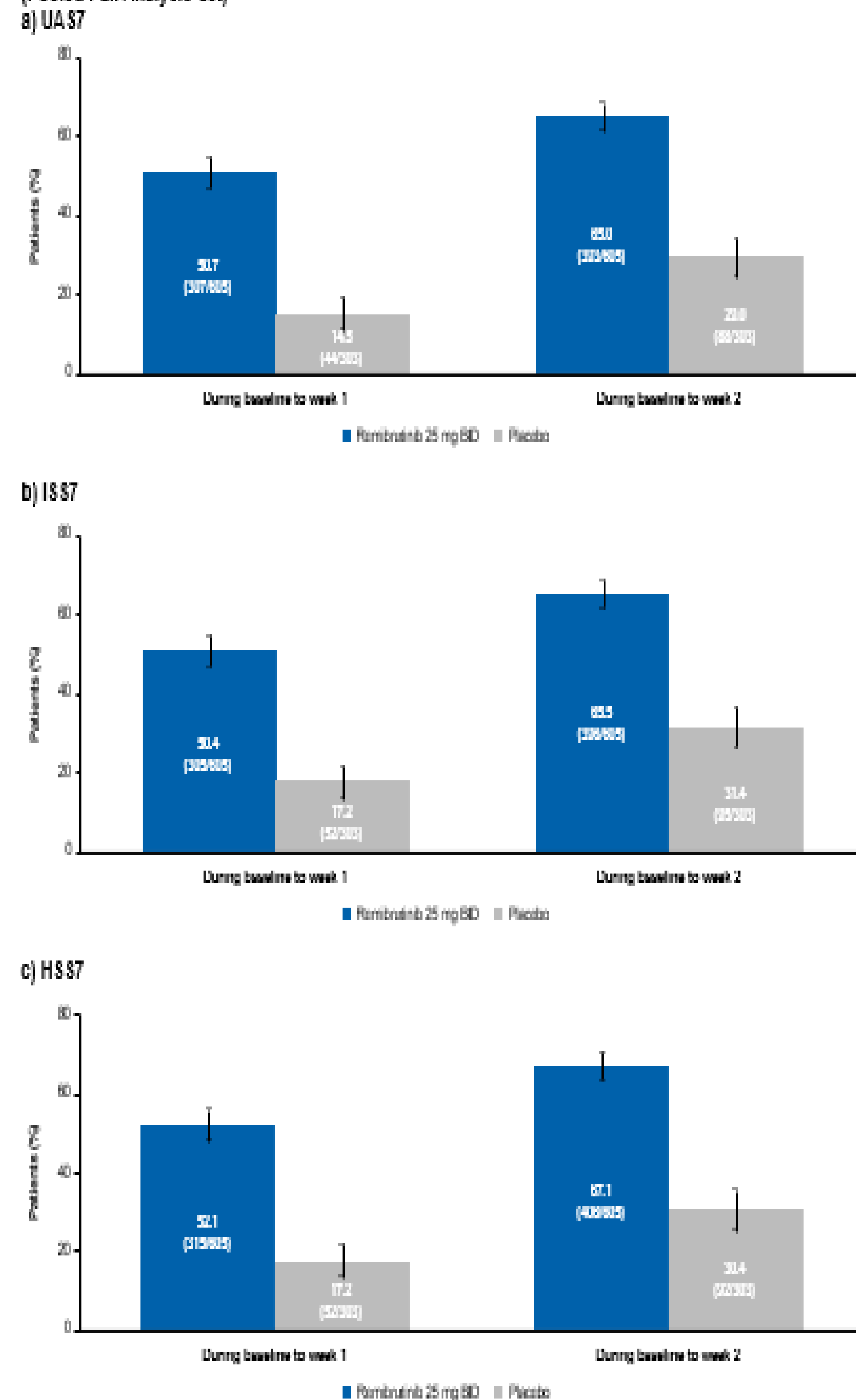


Figure 3. Number (%) of Patients Who Achieved MID for UAS7, ISS7, and HSS7 at Week 1 and Week 2 (Pooled Full Analysis Set)



Observed data. MID was defined as a change in score of ≥10.5 for UAS7, ≥5.0 for ISS7, and ≥5.5 for HSS7; only the first occurrence was considered here. Error bars represent 95% CI. BID, twice daily; CI, confidence interval; HSS7, weekly hives severity score; ISS7, weekly itch severity score; MID, minimum important difference; MMRM, mixed model for repeated measures; R, randomized; SD, standard deviation; UAS7, weekly urticaria activity score.

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Abbreviations

BID, twice daily; BMI, body mass index; BTK, Bruton's tyrosine kinase; CFB, change from baseline; CI, confidence interval; CSU, chronic spontaneous urticaria; H₁AH, histamine 1-antihistamine; HSS7, weekly hives severity score; ISS7, weekly itch severity score; LS, least squares; MID, minimum important difference; MMRM, mixed model for repeated measures; R, randomized; SD, standard deviation; SE, standard error; UAS7, weekly urticaria activity score.

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Impact of Chronic Spontaneous Urticaria on Health-Related Quality of Life Domains: Country-Specific Data from Patients Participating in the Urticaria Voices Study

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KEY FINDINGS & CONCLUSIONS

- The majority of patients report ongoing symptomatic disease despite treatment
- Most patients received H1-AH therapy, of whom 84% reported inadequate CSU control, measured by UCT score
- Across countries, patients with CSU report high levels of negative impact across HRQoL domains, with mental and emotional well-being were most consistently ranked as being negatively impacted
- Patients in most countries (except Japan) sought additional services (e.g. dietetics, psychology and homeopathy) in an effort to manage their disease
- New treatments effectively alleviating the burden of CSU symptoms are required to support patients, general and mental well-being



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INTRODUCTION

- Chronic spontaneous urticaria (CSU) is characterized by itch, hives and/or angioedema for more than 6 weeks¹ and can significantly impact health-related quality of life (HRQoL)²
- The Urticaria Voices study aimed to assess perceptions of patients with CSU and physicians treating CSU on various aspects of disease management
- We previously reported pooled data on the unmet needs of patients with CSU, burden of disease on HRQoL and worldwide patients' experiences on living with CSU from the Urticaria Voices study^{3,4}

OBJECTIVE

- Herein, we report country-specific data on the impact of CSU on HRQoL domains. We also report additional services (e.g. dietician or psychological support) adopted by patients for relief from their CSU symptoms

METHODS

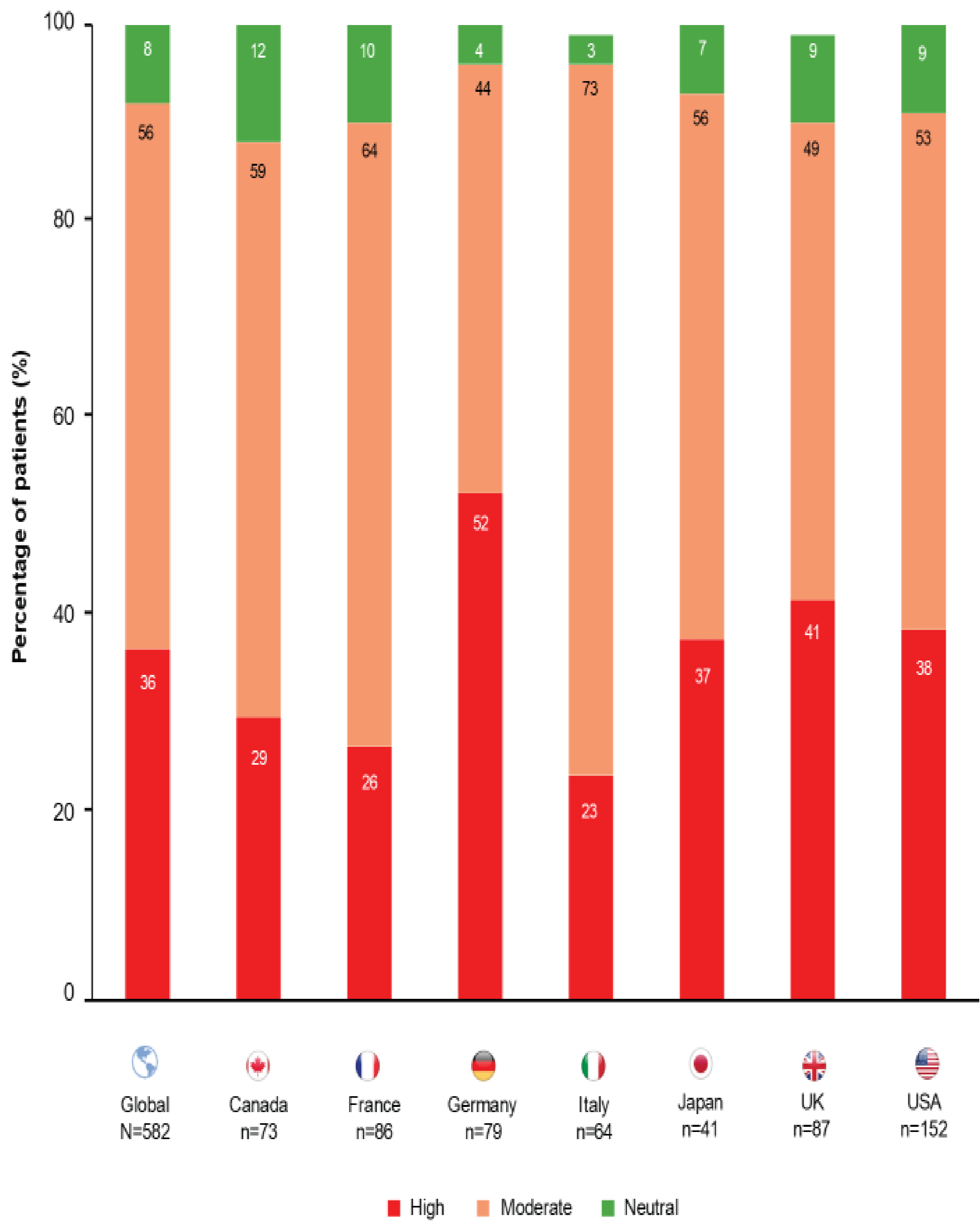
Study Design

- Urticaria Voices was designed as a global (Canada, France, Germany, Italy, Japan, the UK and USA), cross-sectional, online survey of anonymized patients with CSU and physicians treating CSU, conducted between February 2022 and September 2022

RESULTS

- Overall, 582 patients with CSU (62% female, mean [SD] age: 42 [11.9] years) participated in the study
- Of these, 79% (460/582) reported being on H1 anti-histamine (H1-AH) therapy, of whom 84% (386/460) reported inadequate control (UCT<12)
- Globally, 36% of patients reported a high negative impact of CSU on their daily life, 56% reported moderate negative impact and 8% were neutral (Figure 1)

Figure 1. Percentage of patients with CSU, per country, ranking a high, moderate and neutral* negative impact of CSU on their daily life



Data are presented as n (%), unless specified otherwise. Data are based on response to survey questions.

*Top 3 box' scores refer to the percentage of patients assigning a high score of 8, 9 and 10. The 'middle 4 box' refers to the percentage of patients assigning a moderate score of 4, 5, 6 and 7 and the 'bottom 3 box' refers to the percentage of patients assigning a neutral score of 1, 2 and 3.

CSU, chronic spontaneous urticaria; N, total number of patients; n, number of patients in each subgroup.

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Acknowledgments

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Disclosures

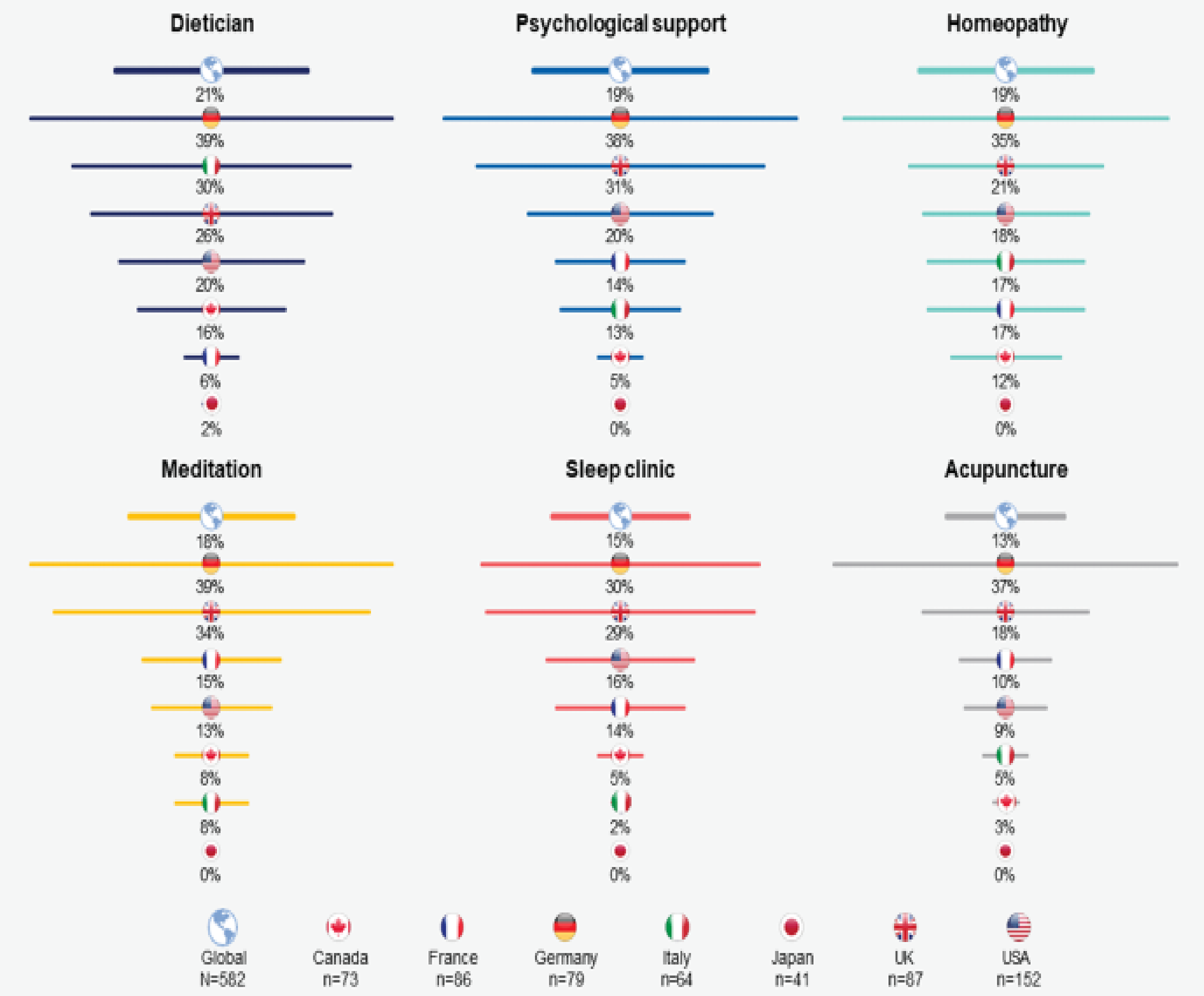
Tonya A. Winders receives funds for unbranded disease awareness and education from Novartis, AstraZeneca, Sanofi-Regeneron, Amgen, Roche and Genentech outside the submitted work and was an employee of the Allergy and Asthma Network at the time of study conduct. **Jonathan A. Bernstein** reports grants from Novartis, AstraZeneca, Sanofi-Regeneron, Amgen, Roche, Allakos, Celldex, CSL Behring, Takeda/Shire, BioCryst, Pharming, Ionis, BioMarin and Genentech outside the submitted work and personal fees from Novartis, AstraZeneca, Sanofi-Regeneron, Amgen, Roche, Allakos, Celldex, CSL Behring, Takeda/Shire, BioCryst, Pharming, Ionis, BioMarin and Genentech outside the submitted work. **Jessica McCarthy** is an employee of Novartis Pharmaceuticals Corporation, East Hanover, NJ, USA. **Pallavi Saraswat** is an employee of Novartis Healthcare Pvt. Ltd., Hyderabad, India. **Nadine Chapman-Rothe** is an employee of Novartis Pharma AG, Basel, Switzerland. **Tara Raftery** is an employee of Novartis Ireland Ltd., Dublin, Ireland. **Karsten Weller** reports grants from Novartis and Takeda outside the submitted work and personal fees from BioCryst, BioMarin, CSL Behring, Novartis, Moxie and Takeda outside the submitted work.

- Eligible adult patients had a self-reported clinician-provided diagnosis of CSU and were currently following a physician-prescribed treatment
- Patients provided an electronically signed informed consent before completing a 40-minute online survey, which comprised questions on socio-demographics, Urticaria Control Test (UCT) and treatments received (duration of treatment was not recorded); no patient identifiers were collected
- Patients who were recruited from the general population panel were remunerated according to fair market value, while those recruited via patient advocacy groups were not
- Data were analysed descriptively, and results are reported as % (n/N) or in terms of top 3 box, middle 4 box and bottom 3 box scores, pooled and by country

Figure 2A. Negative impact of CSU on mental and emotional well-being, social and family life, intimate relationships and discrimination and stigma – Country-specific data



Figure 2B. Percentage of patients, per country, who reported using additional services to manage their CSU in addition to their prescribed treatments



Data are presented as n (%), unless specified otherwise. Data are based on response to survey questions. CSU, chronic spontaneous urticaria; N, total number of patients; n, number of patients in each subgroup.

Efficacy and Safety of Apremilast for the Treatment of Japanese Patients With Palmoplantar Pustulosis: 52-week Results From a Phase 3, Randomized, Placebo-controlled Study

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BACKGROUND

- Palmoplantar pustulosis (PPP) is a difficult-to-treat condition in patients with chronic dermatitis, with limited treatment options¹
- Apremilast, an oral phosphodiesterase 4 inhibitor approved for the treatment of plaque psoriasis, psoriatic arthritis, and oral ulcers associated with Behçet's disease, has demonstrated significant efficacy in Japanese patients with moderate to severe PPP, and has recently been approved in the treatment of these patients in Japan^{2,3}
- In a phase 3 trial (NCT05174065), apremilast 30 mg twice daily (BID) was superior to placebo, with statistically significant improvements in primary and secondary endpoints achieved at Week 16³

OBJECTIVE

- We report 52-week efficacy and safety from a phase 3 trial of apremilast in Japanese patients with moderate to severe PPP

METHODS

Study Schema

- **Inclusion criteria:** adults with PPP Area and Severity Index (PPASI) total score ≥12, PPASI pustules/vesicles severity score ≥2, and inadequate response to topicals

SCREEN

RANDOMIZE 1:1

16 Weeks

36 Weeks

Week 0

Week 16

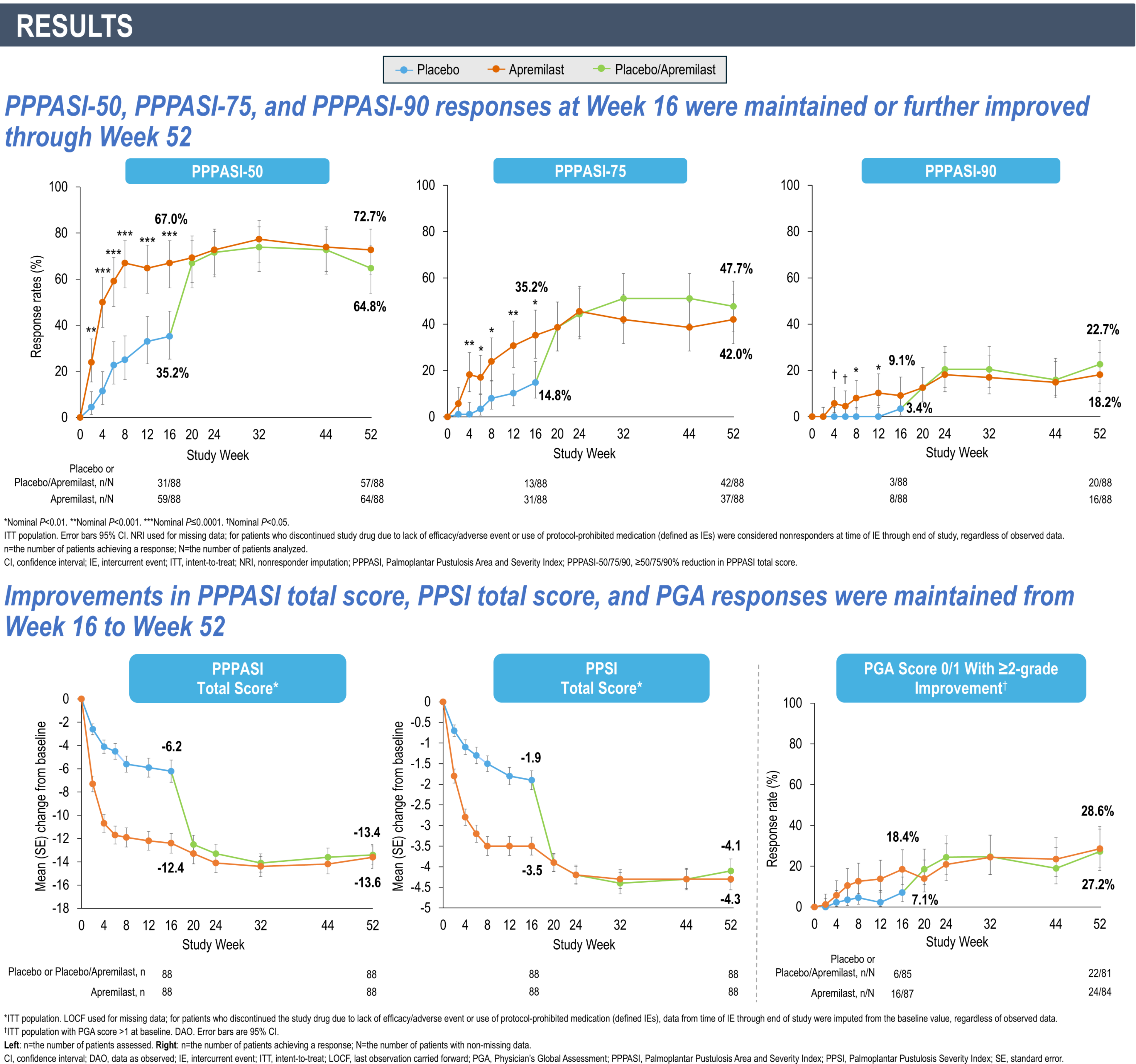
Week 52

Placebo

Apremilast 30 mg BID

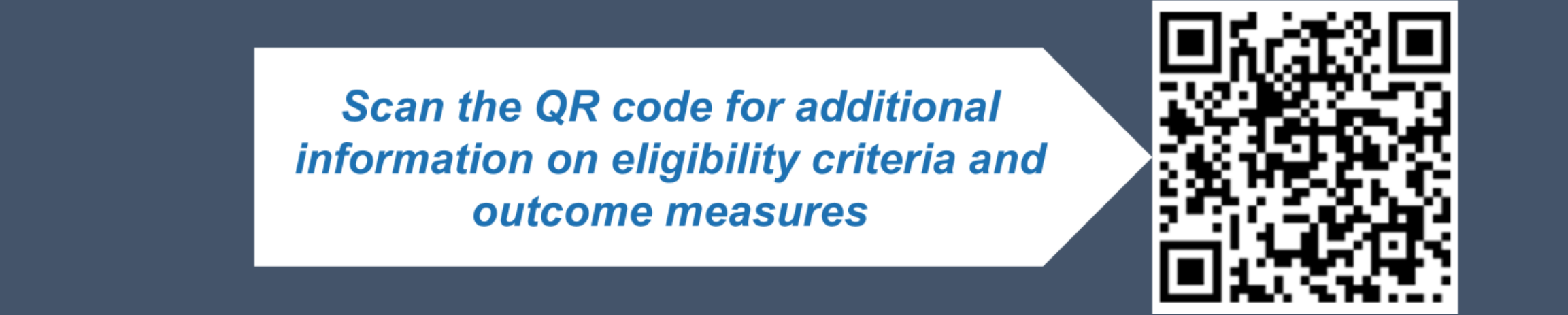
Apremilast 30 mg BID

- Among 176 patients randomized (apremilast, n=88; placebo, n=88), 164 (93.2%) completed Week 52 (apremilast/apremilast, n=84 [95.5%]; placebo/apremilast, n=80 [90.9%])



Key Takeaways

- Improvements in PPP observed with apremilast treatment at Week 16 were maintained or further improved through Week 52
 - These included improvements in severity, symptoms (pruritus and pain/discomfort), and patient-reported quality of life
- Improvements were also observed when patients transitioned from placebo to apremilast at Week 16 through Week 52
 - Patients who transitioned achieved response rates similar to the apremilast group by Week 20 for PPPASI and PPSi, and by Week 24 for patient-reported outcomes (the first assessment for each respective outcome after transitioning from placebo)
- No new safety signals were observed



FUNDING STATEMENT
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Dupilumab Monotherapy Prevents Flares and Provides Sustained Control of Atopic Dermatitis Over 1 Year Across Various Dose Regimens

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Objective

To report the efficacy of dupilumab monotherapy to prevent flares and maintain disease control in adults treated with various dose regimens during the maintenance phase

Background

- Disease control in AD can be defined as absence of flares, an important goal for physicians and patients; flare is a worsening of disease requiring escalation of treatment¹
- Dupilumab with concomitant TCS was shown to prevent flares in 84% of adults with moderate-to-severe AD in a 1-year, randomized, placebo-controlled clinical trial^{2,3}

Methods

- Adults with moderate-to-severe AD who received dupilumab 300 mg q2w in SOLO 1/2 (NCT02277743/ NCT02277769) and achieved optimal response of IGA 0/1 and/or EASI-75 at Week 16 were rerandomized in SOLO-CONTINUE (NCT02395133) for an additional 36 weeks to dupilumab 300 mg monotherapy q2w, q4w, q8w, or placebo
- Patients who received rescue treatment in SOLO 1/2 (including TCS/TCI) were considered non-responders
- This analysis reports the proportion of patients with no flares by visit and time to first flare during SOLO-CONTINUE (Kaplan-Meier statistics); data are presented as observed
- Flare defined per protocol as worsening of disease requiring initiation or escalation of rescue treatment (including starting topical treatment)

Results

Demographics and baseline disease characteristics

	SOLO 1/2 baseline (Week 0)				SOLO-CONTINUE baseline (Week 16)			
	Placebo ^a n = 38	Dupilumab 300 mg q2w ^a n = 82	Dupilumab 300 mg q4w ^a n = 41	Dupilumab 300 mg q8w ^a n = 39	Placebo ^a n = 38	Dupilumab 300 mg q2w ^a n = 82	Dupilumab 300 mg q4w ^a n = 41	Dupilumab 300 mg q8w ^a n = 39
Age, mean (SD), years	36.9 (16.3)	36.8 (14.9)	37.7 (17.8)	34.3 (13.8)	36.9 (16.0)	36.8 (14.3)	36.2 (17.5)	34.8 (13.8)
Sex, male, n (%)	18 (46.2)	38 (47.5)	23 (56.0)	22 (56.4)	18 (46.2)	38 (47.5)	23 (56.0)	22 (56.4)
Duration of AD, mean (SD), years	26.0 (16.8)	24.2 (16.3)	26.4 (16.5)	22.9 (16.8)	26.0 (16.6)	24.2 (16.2)	26.4 (16.5)	22.9 (16.8)
Body surface area, mean % (SD)	48.8 (17.3)	48.3 (21.1)	47.1 (20.7)	47.3 (20.3)	48.9 (14.3)	48.4 (20.7)	43.0 (14.6)	45.4 (15.3)
Patients with ≥1 AD flare in 12 months before screening visit, n (%)	18 (47.4)	66 (80.5)	37 (90.3)	38 (97.5)				
Number of flares in 12 months before treatment period, median	3.0	3.8	3.0	4.0				

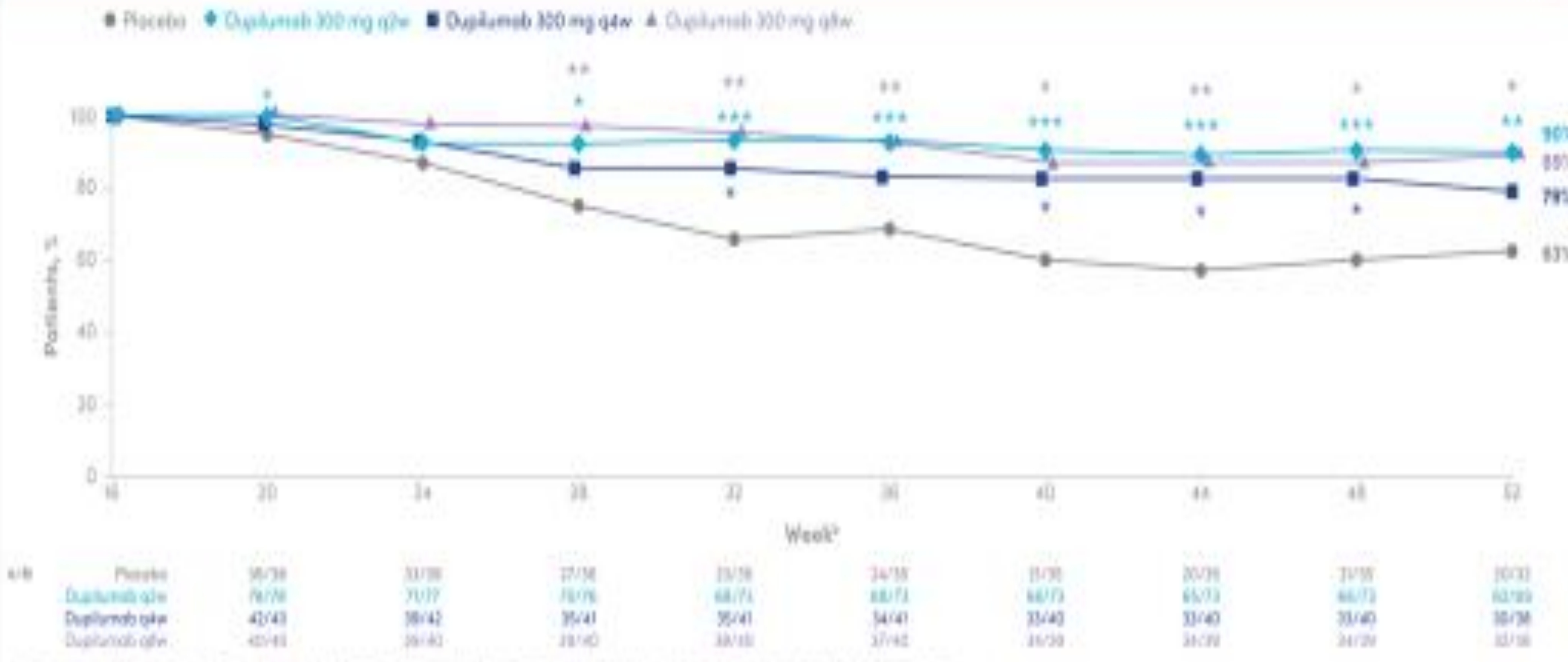
^a10 patients received dupilumab 300 mg q2w in SOLO 1/2 and were then rerandomized to treatment in SOLO-CONTINUE as indicated.

Summary of safety indicators from SOLO 1/2 baseline through SOLO-CONTINUE

Patients with an event, n (%)	Placebo ^a n = 38	Dupilumab 300 mg q2w ^a n = 82	Dupilumab 300 mg q4w ^a n = 41	Dupilumab 300 mg q8w ^a n = 39
TEAE	34 (89.5)	59 (73.8)	29 (70.7)	33 (84.6)
Serious TEAE	1 (2.6)	4 (4.9)	1 (2.4)	0
Severe TEAE	0 (0.0)	4 (4.9)	2 (4.9)	2 (5.1)
TEAE leading to discontinuation	0 (0.0)	0	0	0
TEAE leading to death	0	0	0	0

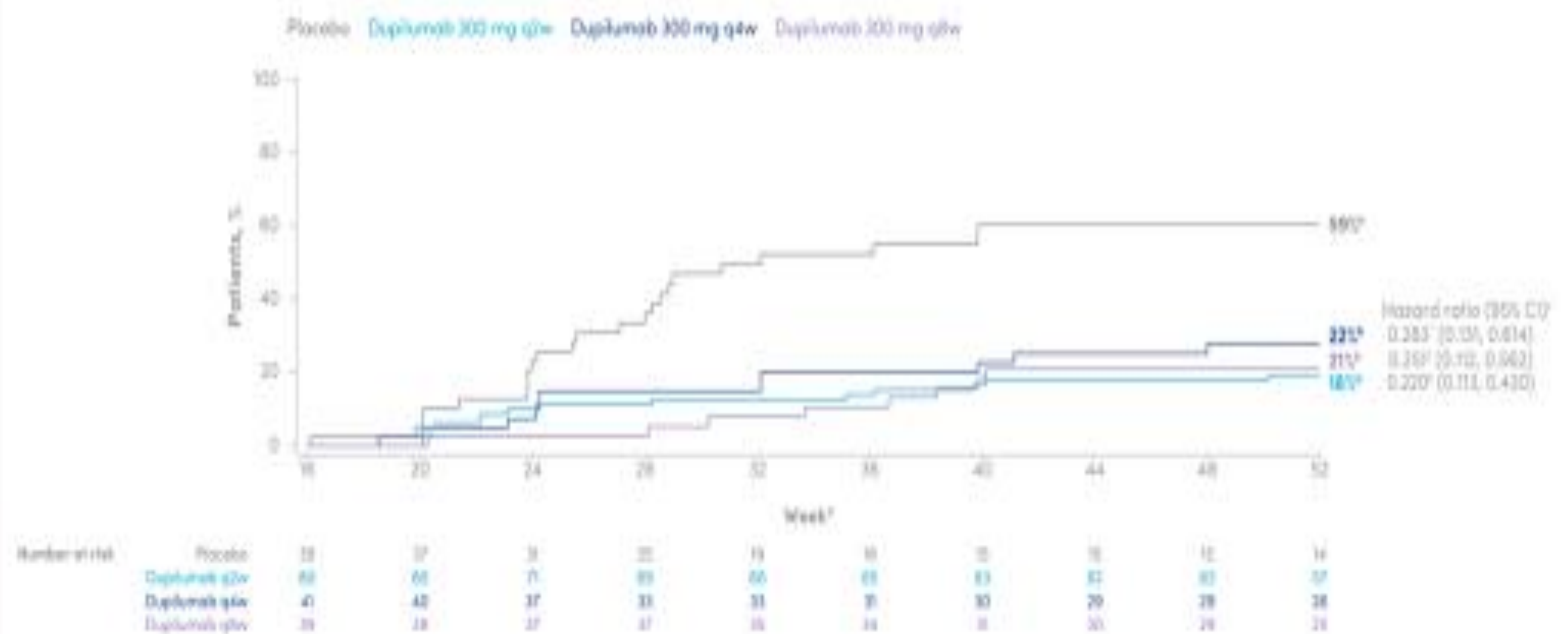
^aTreatment group in SOLO-CONTINUE. 38 patients in this analysis received dupilumab 300 mg q2w in SOLO 1/2 and were then rerandomized to treatment in SOLO-CONTINUE as indicated.

Most patients had no flares^a over 1 year with continued dupilumab monotherapy



All patients received dupilumab 300 mg q2w in SOLO 1/2 and were then rerandomized to treatment in SOLO-CONTINUE as indicated. Data based on the Safety Analysis Set. P-values were derived by Cochran-Mantel-Haenszel test stratified by region, and logistic regression (0.1, 0.05, 0.01, 0.001) as indicated. *p < 0.05; **p < 0.01; ***p < 0.001; ****p < 0.0001.

The proportion of patients who experienced a flare^a remained low across dupilumab dose regimens



Flare: flare events present during Year 1 in SOLO-CONTINUE. 38 patients received dupilumab 300 mg q2w in SOLO 1/2 and were then rerandomized to treatment in SOLO-CONTINUE as indicated.

^ap < 0.0001; **p < 0.001; *p < 0.005; ****p < 0.0001 as indicated.

First rescue treatment use: Proportion of patients with flare. Based on Cox proportional hazards model with treatment as effect. *p < 0.05; **p < 0.01; ***p < 0.001; ****p < 0.0001.

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Adverse Events: Dupilumab was generally well tolerated. The most common adverse events were nasopharyngitis, headache, and sinusitis. No deaths were reported. Dupilumab was generally well tolerated in this study.

Conclusion: Dupilumab monotherapy over 1 year prevented flares in 8 out of 10 patients regardless of the maintenance dose regimen (q2w, q4w, q8w). Safety was consistent with the known dupilumab safety profile.

Sustained **Disease Control** Among Adults With Moderate-to-Severe Atopic Dermatitis in Clinical Practice: **5-Year** Follow-Up Results From the RELIEVE-AD Study

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Conclusion

In this long-term, real-world study, the majority of patients with moderate-to-severe AD who remained in the study reported rapid and sustained disease control for 5 years after initiating dupilumab treatment

Objective

To report 5-year data from RELIEVE-AD on AD disease control

Background

- AD often requires long-term therapy, which highlights the importance of assessing long-term effectiveness

Methods

Study design and population

- RELIEVE-AD is a single-arm, prospective, observational study of adults with moderate-to-severe AD receiving dupilumab who participated in surveys at BL (before dupilumab initiation) and M1, M2, M3, M6, M9, M12, M33, M48, and M60

Study outcomes

- Disease control was assessed with the Atopic Dermatitis Control Tool (ADCT, range 0–24, score <7 indicating controlled disease; mean ADCT score, with items scored on a 5-point scale ranging from 0 to 4, and 0 being none/no effect)

Statistical analysis

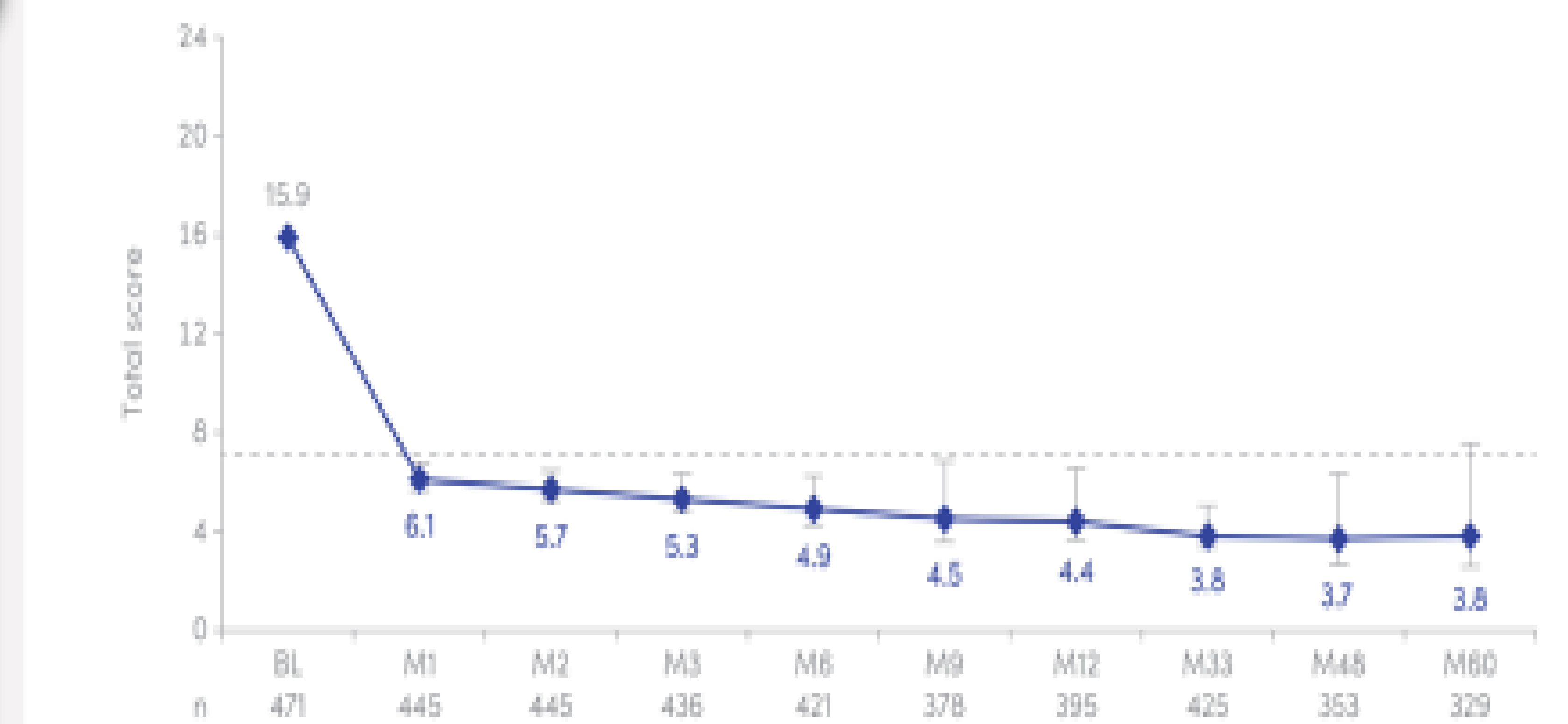
- Statistical significance, comparing each time point to BL, was determined using GEE to account for correlated data from the same patients over time; only patients who responded to at least one of the M33 or M48 surveys were contacted for the M60 survey, to decrease the burden of outreach to patients who had not participated in recent surveys

Limitations

- 69.9% of patients who were contacted responded to the survey at Month 60, which could have led to survivor bias

Results

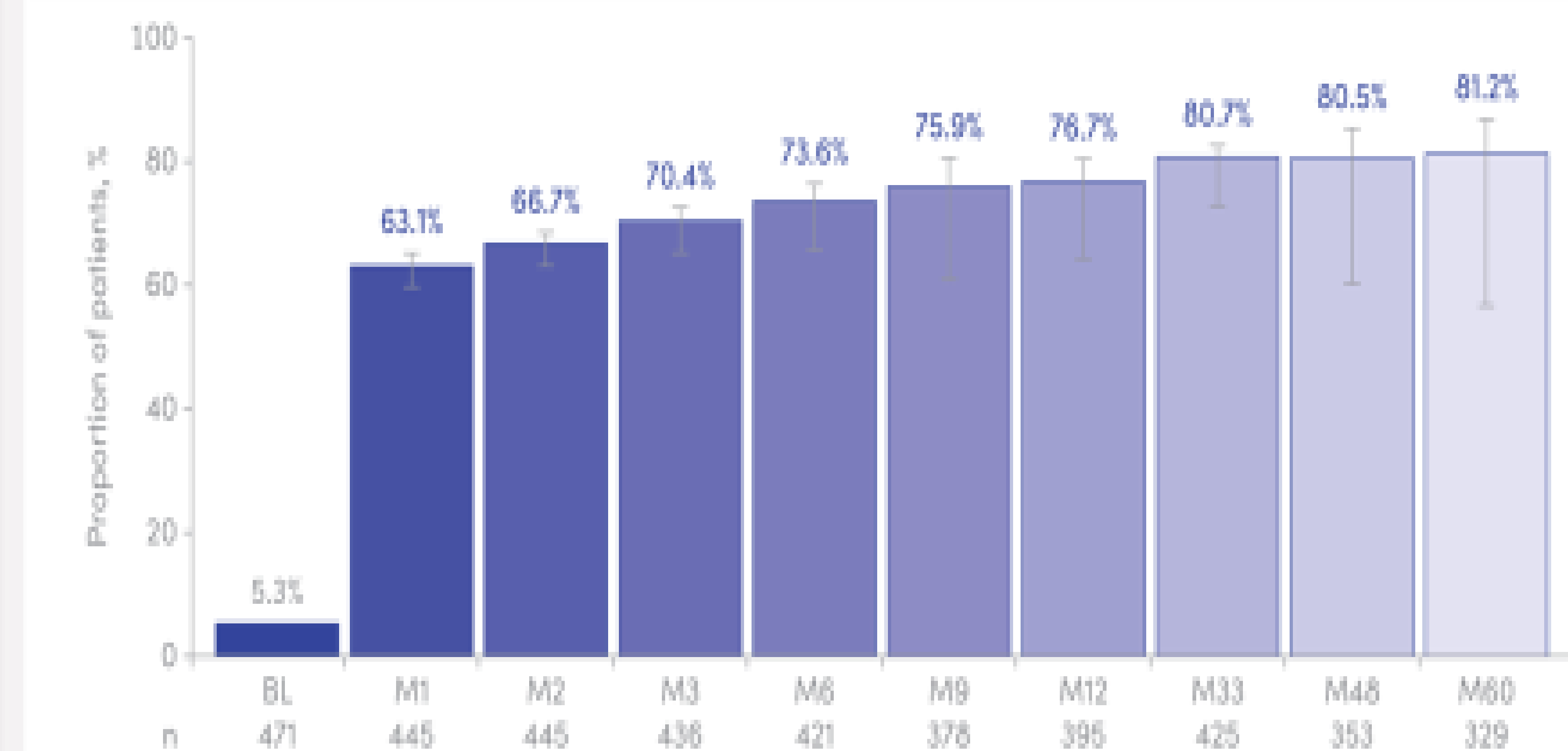
Mean Total ADCT Score^{a,b} (range 0–24)^a



^aP < 0.001 treatment M6-M60 vs BL.

^bAssessed using the ADCT, with a score <7 on a scale of 0–24 indicating controlled disease. Vertical bars represent the range of imputed outcome values for the study follow-up period using pattern mixture models, for patients who completed the BL survey. *Higher ADCT score indicates worse AD control.

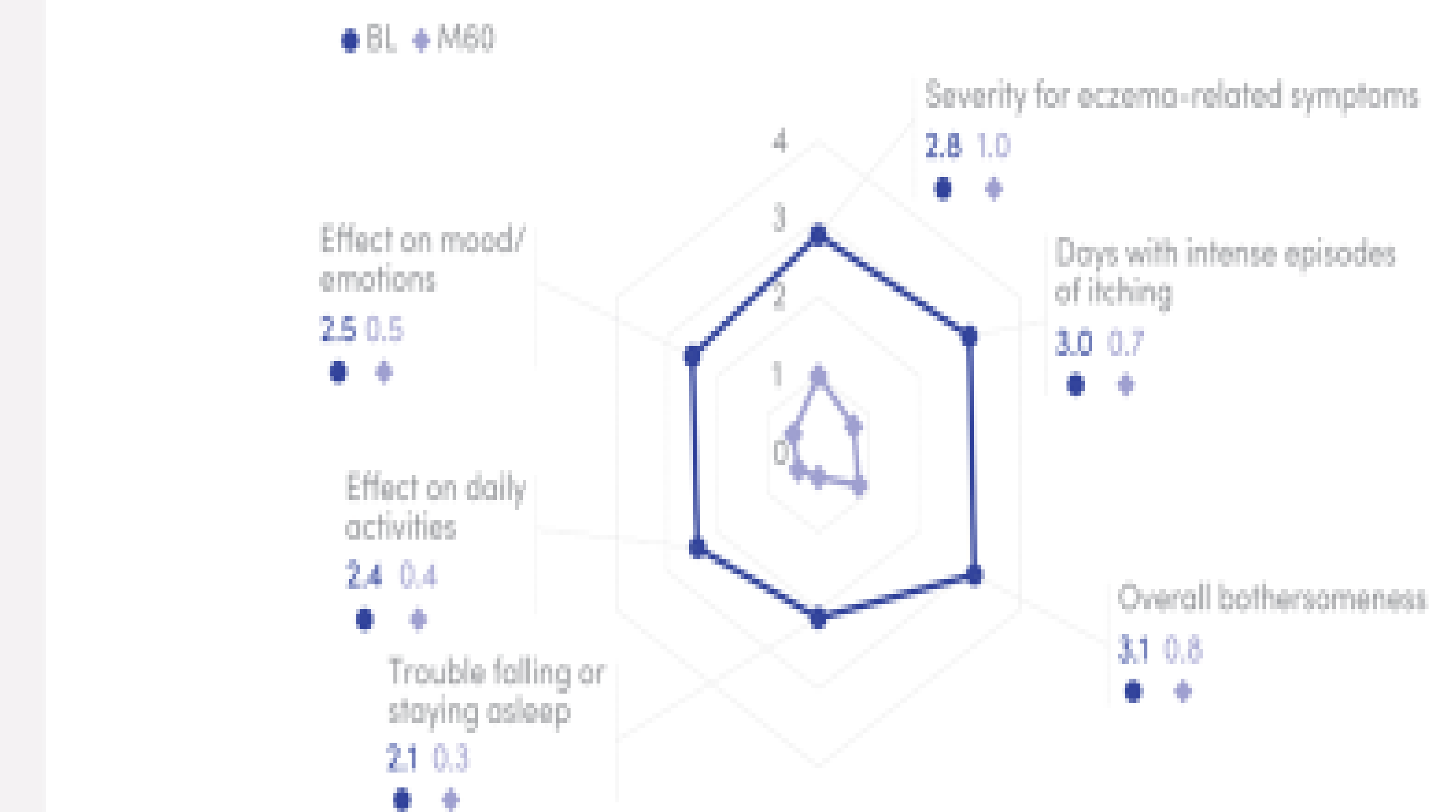
Disease control status assessed by ADCT^a (total score <7)^a



^aP < 0.001 treatment M6-M60 vs BL.

^bAssessed using the ADCT, with a score <7 on a scale of 0–24 indicating controlled disease. Vertical bars represent the range of imputed outcome values for the study follow-up period using pattern mixture models, for patients who completed the BL survey.

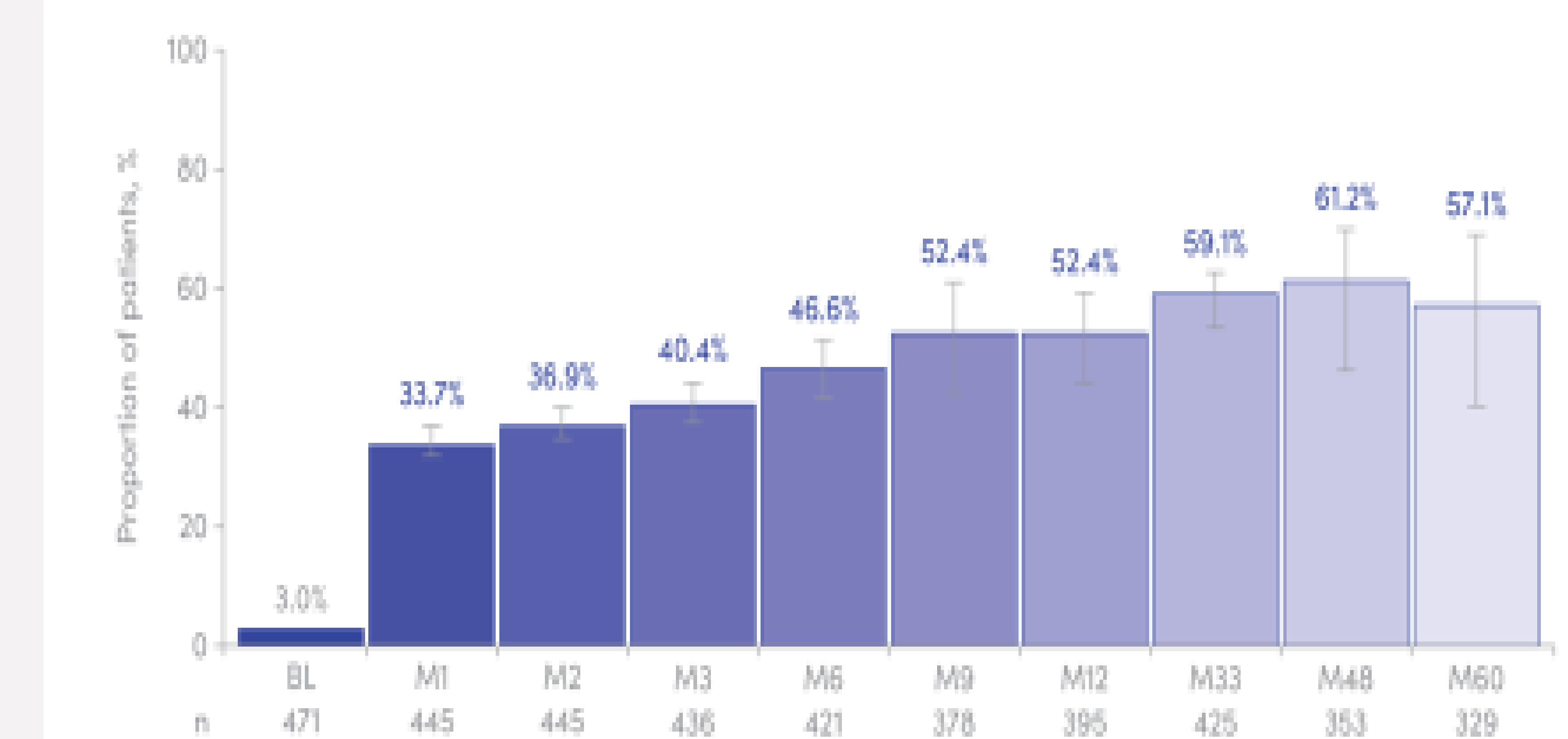
Mean ADCT Items^a (range 0–4)^a



^aP < 0.001 treatment M6-M60 vs BL.

^bItems were scored on a 5-point scale ranging from 0 to 4, with 0 being none/no effect.

No intense episodes of itching over the last week^{a,b}



^aP < 0.001 treatment M6-M60 vs BL.

^bVertical bars represent the range of imputed outcome values for the study follow-up period using pattern mixture models, for patients who completed the baseline survey.

AD, atopic dermatitis; ADCT, Atopic Dermatitis Control Tool; BL, baseline; GEE, generalized estimating equations; MCI, minimal clinically important difference; M, month.

Patients Maintain Stable Response With No or Minimal Fluctuations During 3 Years of Continuous Treatment With Lebrikizumab During Long-Term Extension Trial

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Sponsored by Eli Lilly and Company

OBJECTIVE

- To assess the stability of response after 3 years of lebrikizumab treatment using data from ADvocate 1&2 and ADjoin

CONCLUSION

- Most patients treated continuously with lebrikizumab for 3 years experienced stable improvements in skin and itch with no or minimal fluctuations in the ADjoin long-term extension trial

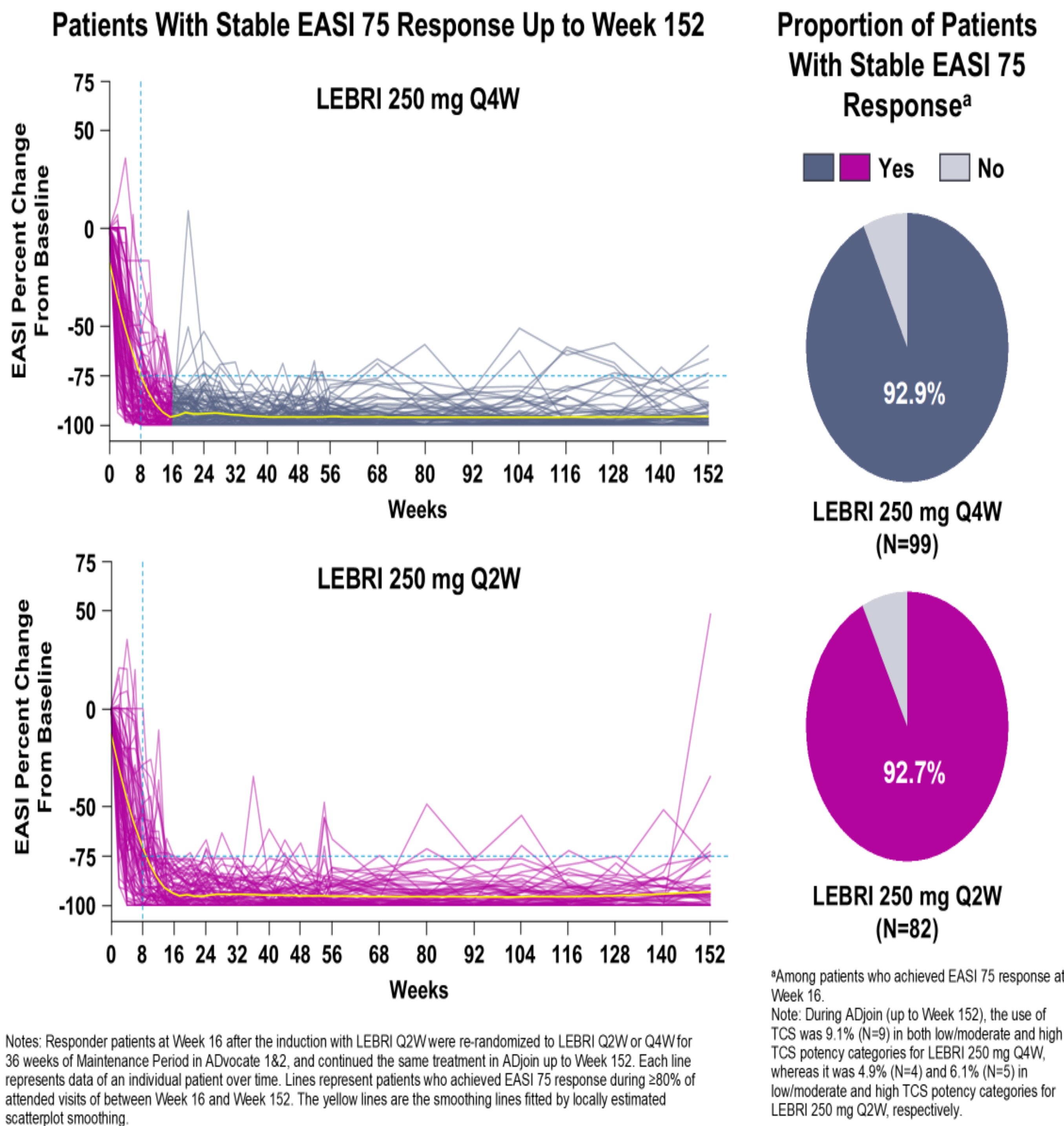
Elevate-Derm Summer Conference, Park City, Utah, USA;
July 23 - 27, 2025

BACKGROUND

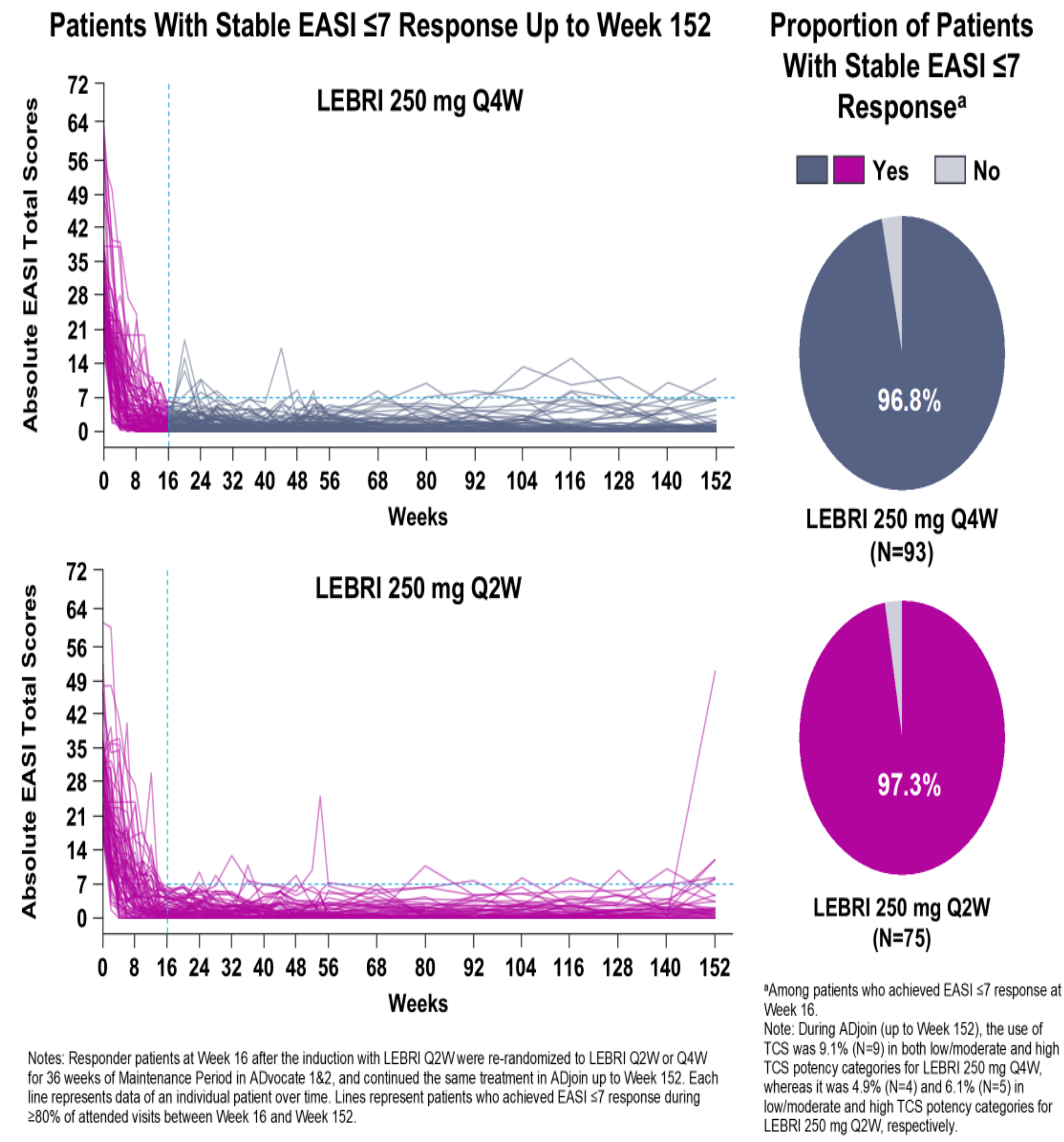
- Lebrikizumab is a monoclonal antibody that binds with high affinity and slow off-rate to IL-13, thereby blocking the downstream effects of IL-13 with high potency¹
- Lebrikizumab demonstrated safety and efficacy as monotherapy through 3 years of treatment in adults and adolescents (≥40 kg) with moderate-to-severe AD in recent Phase 3 trials (ADvocate 1, NCT04146363; ADvocate 2, NCT04178967; ADjoin, NCT04392154)²⁻⁴
- Most patients treated with monotherapy lebrikizumab Q2W or Q4W maintained a stable response with no or minimal fluctuations of efficacy up to 2 years⁵

SUMMARY OF KEY FINDINGS

93% of Week 16 EASI 75 Responders Maintained Stable EASI 75 Response for 3 Years of Lebrikizumab Treatment



97% of Week 16 EASI ≤7 Responders Maintained Stable EASI ≤7 Response for 3 Years of Lebrikizumab Treatment



Methods

Analysis Population

- The analysis population consisted of patients treated with lebrikizumab in the pooled modified Maintenance Primary Population of ADvocate 1&2 who were EASI 75, or EASI ≤7, or Pruritus Numeric Rating Scale (NRS)^a ≥3-point improvement responders at Week 16 and who subsequently enrolled into ADjoin^b with the same lebrikizumab treatment regimen; Pruritus NRS score was not collected beyond Week 104 in ADjoin

Stability of Response

- Stability of response was defined as patients' maintenance of:
 - EASI^c 75 response at ≥80% of attended visits
 - EASI ≤7 response at ≥80% of attended visits
 - Pruritus NRS improvement ≥3 points from baseline (the minimum clinically important difference⁶) at ≥80% of attended visits^d

Outcome Measures (Up to Week 152)

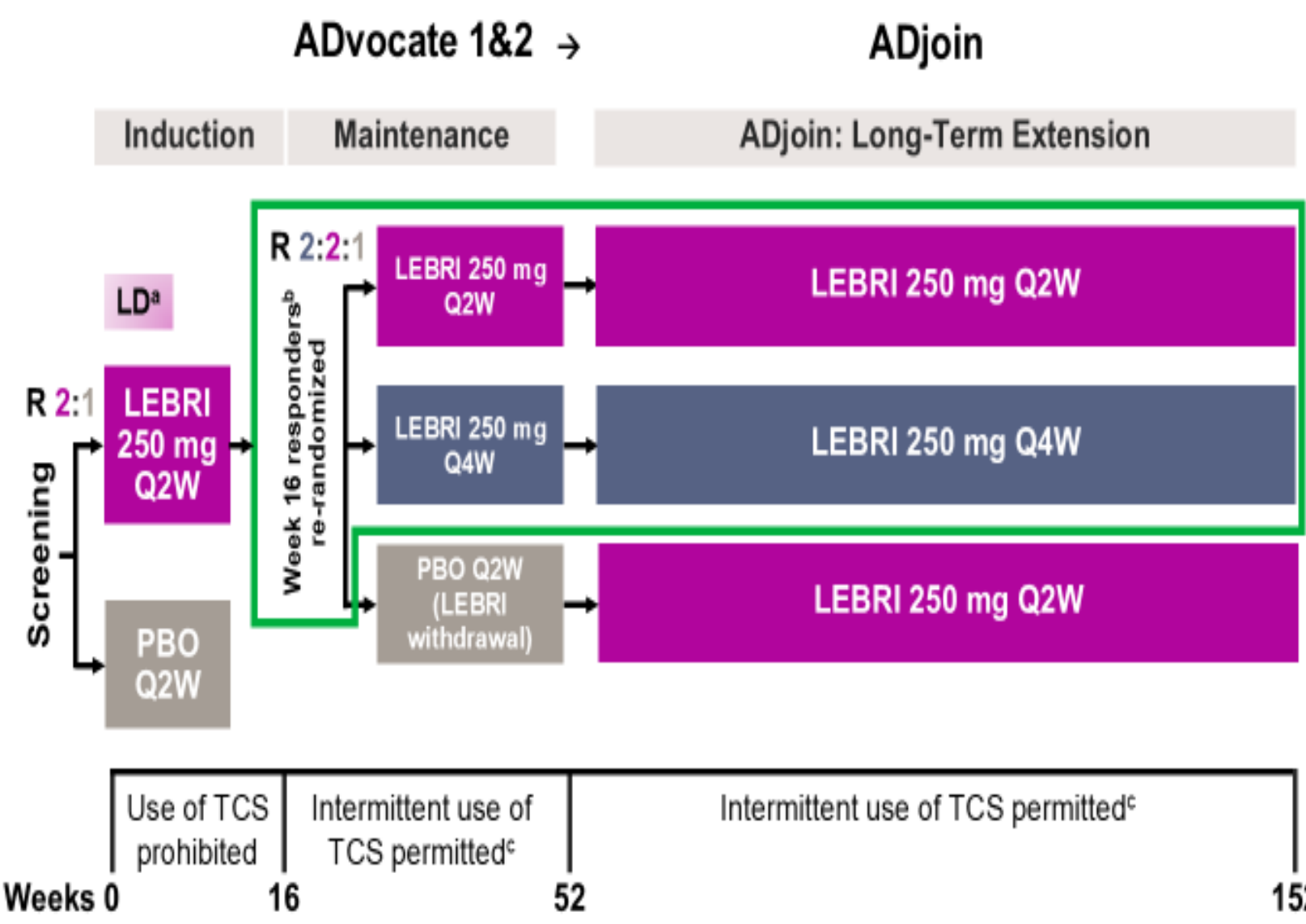
- EASI percent change from baseline
- Absolute EASI total score
- Pruritus NRS change from baseline

Statistical Analyses

- All observed data were used in the analyses, regardless of rescue medication use
- The number of total attended visits varied for different patients

^aA patient-reported, single-item, 11-point scale that is used daily by participants to rate their worst itch severity over the past 24 hours (0 indicating "no itch", 10 indicating "worst itch imaginable"); ^bThe pooled modified Maintenance Primary Population of ADvocate 1&2 consisted of Week 16 responders (patients who achieved either EASI 75 or IGA [0,1] following 16 weeks of lebrikizumab 250 mg Q2W treatment without use of rescue therapy) and excluded 17 patients from the ADvocate 2 trial (from a single study site) whose eligibility could not be confirmed; ^cA composite index with scores ranging from 0 to 72, with the higher values indicating more severe and/or extensive disease and with EASI 75 representing an improvement of ≥75% from baseline in EASI; ^dIn patients with baseline Pruritus NRS ≥3.

Study Design



^aPatients treated with LEBRI received a 500-mg LD at Weeks 0 and 2; ^bResponders in ADvocate 1&2 were defined as those patients who achieved either EASI 75 or IGA (0,1) following 16 weeks of LEBRI 250 mg Q2W treatment, without use of rescue therapy; ^cPatients who required short-term systemic treatment for AD in the Maintenance Period were assessed on a case-by-case basis.

Key Eligibility Criteria

Parent Studies (ADvocate 1&2)

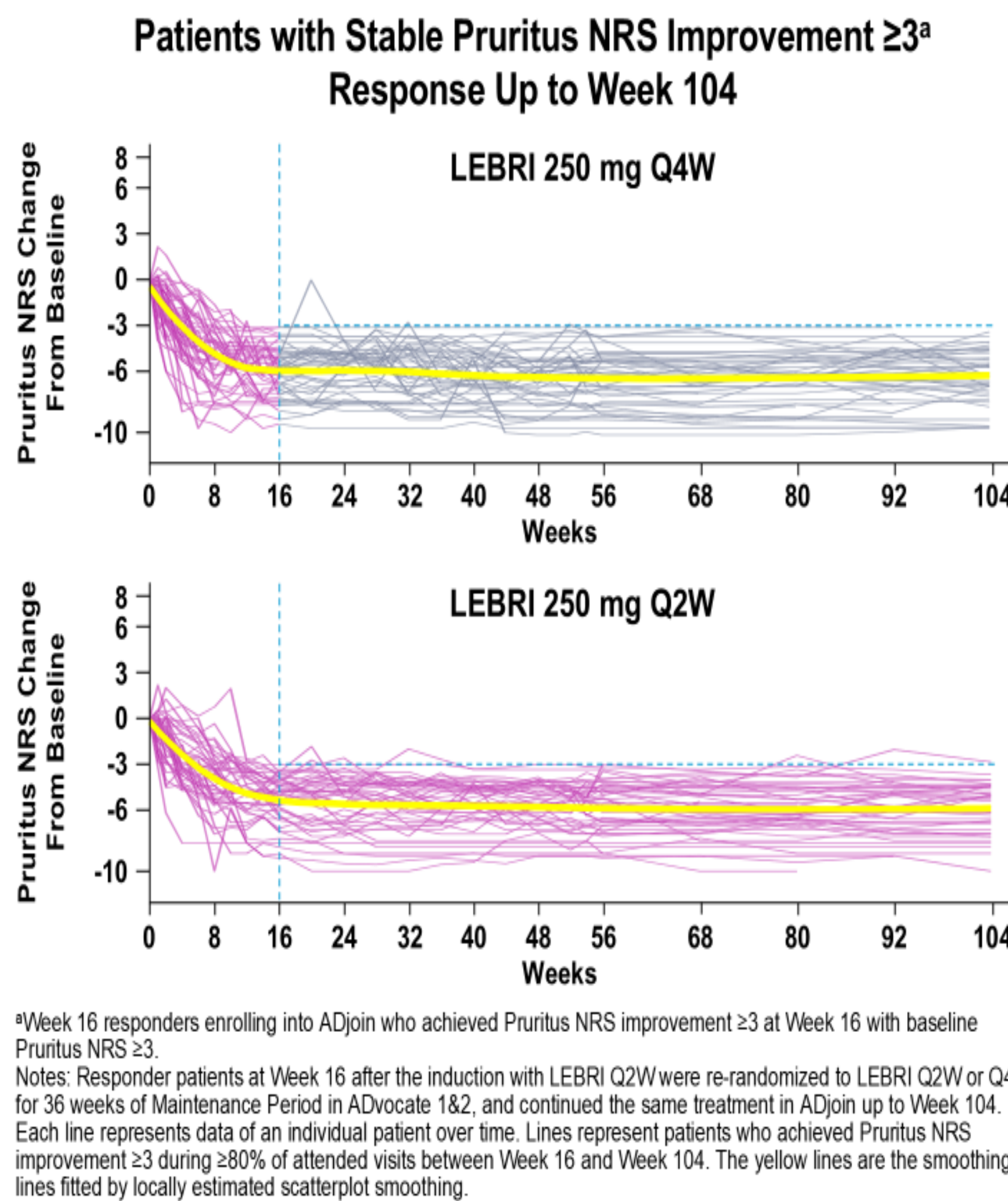
- Adults (≥18 years) and adolescents (≥12 to <18 years; weight ≥40 kg)
- Diagnosis of AD, as defined by the American Academy of Dermatology Consensus Criteria, for ≥1 year before screening
- Moderate-to-severe AD, defined as having all the following at the baseline visit:
 - EASI ≥16
 - IGA ≥3
 - Body surface area involvement ≥10%

ADjoin

- Patients could choose to enroll if they had completed the study treatments and last patient visit of the parent trial

Results

94% of Week 16 Pruritus NRS Improvement ≥3 Achievers Maintained Pruritus NRS Improvement ≥3 for 2 Years of Lebrikizumab Treatment



^aWeek 16 responders enrolling into ADjoin who achieved Pruritus NRS improvement ≥3 at Week 16 with baseline Pruritus NRS ≥3.
Note: During ADjoin (up to Week 152), the use of TCS was 9.1% (N=9) in both low/moderate and high TCS potency categories for LEBRI 250 mg Q4W, whereas it was 4.9% (N=4) and 6.1% (N=5) in low/moderate and high TCS potency categories for LEBRI 250 mg Q2W, respectively.

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Abbreviations: AD=atopic dermatitis; EASI=Eczema Area and Severity Index; EASI 75=≥75% improvement from baseline in EASI; IGA=Investigator's Global Assessment; IGA (0,1)=IGA response of clear or almost clear; IL=interleukin; LD=loading dose; LEBRI=lebrikizumab; NRS=Numeric Rating Scale; PBO=placebo; Q2W=every 2 weeks; Q4W=every 4 weeks; R=randomization; TCS=topical corticosteroids.

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Tapinarof Cream 1% Once Daily: Maintenance of Low Disease Activity Including Pruritus Through End of the Treatment-free Interval in a Long-term Extension Trial in Patients Down to 2 Years of Age with Atopic Dermatitis

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OBJECTIVE

- To characterize disease activity at the end of treatment-free (remittive) intervals in the ADORING 3 long-term trial

CONCLUSIONS

- In ADORING 3, after first achieving complete disease clearance (vIGA-AD™=0) and discontinuing treatment, a high proportion of patients demonstrated low disease activity, including itch, after ~80 consecutive days off treatment
 - Mean EASI scores at the end of treatment-free intervals were <4, indicating mild disease
- Tapinarof monotherapy induced complete disease clearance followed by prolonged treatment-free (remittive) intervals and low disease activity in adults and children down to 2 years of age with AD
 - Slow re-emergence of mild symptoms during treatment-free intervals is unlike most topicals, where a rapid disease rebound is often observed¹
- Tapinarof is a once-daily, non-steroidal cream without restrictions on duration, extent, or location of use, and without the need for long-term maintenance therapy

ACKNOWLEDGMENTS

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Contact Dr Jonathan I. Silverberg at jonathanisilverberg@gmail.com with questions or comments.

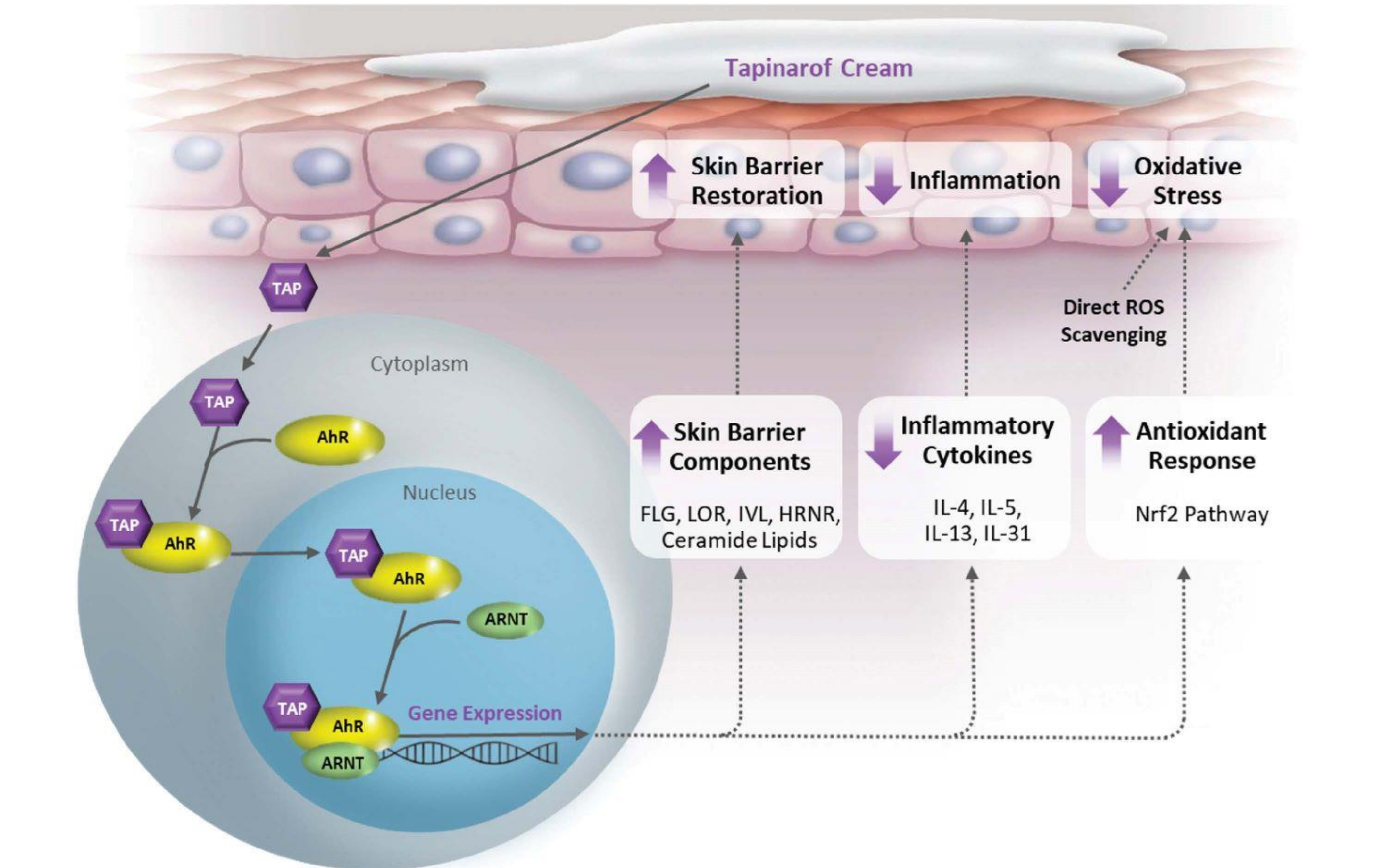
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INTRODUCTION

- Tapinarof (VTAMA®, Dermavant Sciences, an Organon Company) is a non-steroidal, topical aryl hydrocarbon receptor (AhR) agonist approved by the FDA for the treatment of atopic dermatitis (AD) in adults and children down to 2 years of age, and for the treatment of plaque psoriasis in adults²
- Tapinarof binds to and activates AhR to restore the skin barrier by upregulating key barrier components, downregulating pro-inflammatory cytokines associated with AD, and reducing oxidative stress (Figure 1)¹
- Discontinuation of topical therapy for AD may be associated with rapid return of disease¹
- Preventative maintenance with topicals may be a significant treatment burden for patients and caregivers^{3,4}
- In the ADORING 3 long-term trial, adults and children with AD received tapinarof cream 1% once daily (QD)⁵
 - Patients entered with or achieved complete disease clearance (51.9%; Validated Investigator Global Assessment for Atopic Dermatitis™ [vIGA-AD™]=0) and clear or almost clear skin (81.6%; vIGA-AD™=0 or 1)⁵
 - After discontinuing tapinarof per protocol, patients maintained clear or almost clear skin for 79.8 (mean) consecutive days (first treatment-free interval)⁵

Figure 1. Proposed Mechanism of Action of Tapinarof¹



AhR, aryl hydrocarbon receptor; ARNT, aryl hydrocarbon receptor nuclear translocator; FLG, filaggrin; HRNR, hornerin; IL, interleukin; IVL, involucrin; LOR, loricon; Nrf2, nuclear factor erythroid 2-related factor 2; ROS, reactive oxygen species; TAP, tapinarof.

RESULTS

ADORING 3 Baseline Patient Demographics and Disease Characteristics

- 728 patients enrolled in ADORING 3 (Table 1)
 - Pediatric patients (aged 2–17 years) comprised 83.0% of the trial population, including 76 children who enrolled directly
 - ~47% patients were non-white (White, 52.6%; Black/African American, 30.1%; Asian, 11.1%; other races, 4.4%)
- Patients entered with vIGA-AD™ scores ranging from 0 (clear) to 4 (severe) depending on their entry route
 - In the parent pivotal trials, most patients had moderate or severe AD at baseline

Table 1. ADORING 3 Baseline Patient Demographics and Disease Characteristics

	ADORING 3				
	ADORING 1 and 2 (pivotal trials)	MUPK trial	Direct enroll	Overall	
	Tapinarof cream 1% QD (n=431)	Vehicle QD (n=193)	Tapinarof cream 1% QD (n=28)	Tapinarof naive (n=76)	Total (N=728)
Age, years, mean (SD)	16.1 (16.3)	16.4 (15.8)	8.8 (4.9)	7.9 (4.8)	15.0 (15.3)
Male, n (%)	201 (46.6)	85 (44.0)	19 (67.9)	34 (44.7)	339 (46.6)
vIGA-AD™, n (%)					
0 – Clear	51 (11.8)	6 (3.1)	1 (3.6)	0 (0.0)	58 (8.0)
1 – Almost clear	157 (36.4)	26 (13.5)	6 (21.4)	0 (0.0)	189 (26.0)
2 – Mild	153 (35.5)	63 (32.6)	12 (42.9)	40 (52.6)	268 (36.8)
3 – Moderate	69 (16.0)	88 (45.6)	9 (32.1)	16 (21.1)	182 (25.0)
4 – Severe	1 (0.2)	10 (5.2)	0 (0.0)	20 (26.3)	31 (4.3)
EASI, mean (SD)	3.3 (3.5)	8.2 (6.7)	9.2 (5.6)	17.6 (16.3)	6.3 (8.2)
BSA, %, mean (SD)	5.7 (6.5)	12.4 (10.7)	18.0 (11.7)	31.6 (27.8)	10.6 (14.3)
PP-NRS, mean (SD)	2.5 (2.3)	4.2 (2.8)	3.0 (2.2)	6.2 (2.8)	3.4 (2.8)

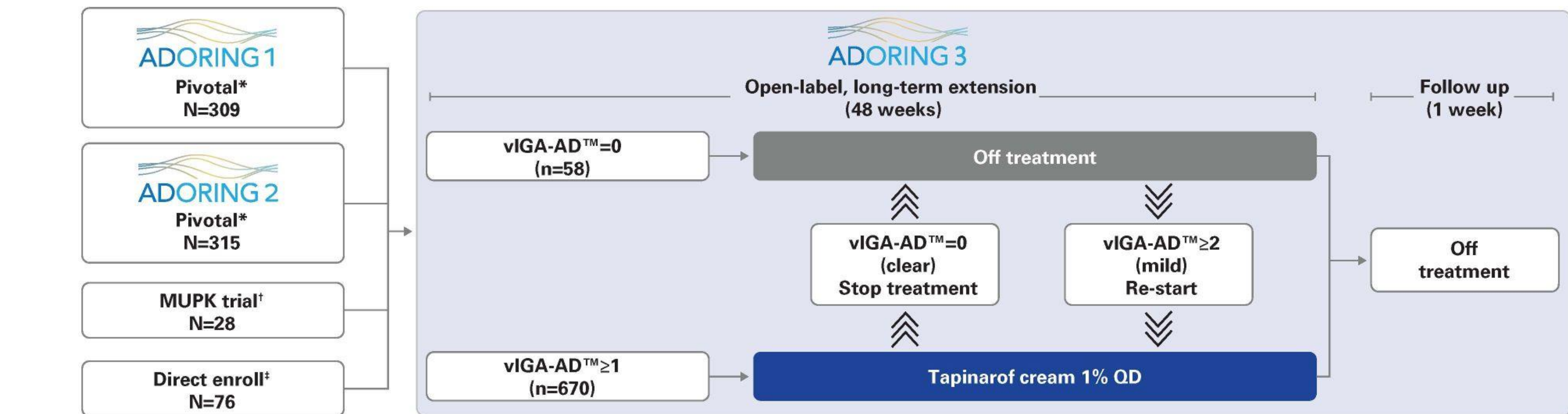
BSA, body surface area; EASI, Eczema Area and Severity Index; MUPK, maximal usage pharmacokinetics; PP-NRS, Peak Pruritus Numerical Rating Scale; QD, once daily; SD, standard deviation; vIGA-AD™, Validated Investigator Global Assessment for Atopic Dermatitis™.

METHODS

Trial Design

- In the long-term extension trial, ADORING 3, eligible patients from ADORING 1 and 2, from a 4-week maximal usage pharmacokinetics trial, and tapinarof-naïve patients with mild AD, or moderate or severe AD, that did not meet inclusion criteria for ADORING 1 or 2, received up to 48 weeks of open-label tapinarof cream 1% QD, followed by a 1-week follow-up period off-treatment (Figure 2)
- Patients were treated with tapinarof based on their vIGA-AD™ score:
 - **Complete disease clearance:** Patients entering ADORING 3 with any disease activity (vIGA-AD™≥1) were treated with tapinarof until complete disease clearance (vIGA-AD™=0 [clear])
 - **Treatment-free interval:** After achieving complete disease clearance, patients discontinued therapy and were monitored to determine the duration of the treatment-free interval (remittive effect, i.e., maintenance of clear or almost clear skin off treatment)
 - **Recapture of response and absence of tachyphylaxis:** Patients whose AD returned to mild (vIGA-AD™≥2) were re-treated until complete clearance was achieved again

Figure 2. ADORING 3 Trial Design



The vIGA-AD™ scale is copyright ©2017 Eli Lilly and Company – Used with the permission under a Creative Commons Attribution-NoDerivatives 4.0 International License. Patients could use moisturizers but only on non-lesional skin. *Patients were adults and children down to 2 years of age with a clinical diagnosis of AD by Hanifin and Rajka criteria; a vIGA-AD™ score of ≥3 (moderate or severe), an EASI score of ≥6, and BSA involvement of 5–35% at screening and baseline. †Patients were adolescents and children aged 2–17 years with a clinical diagnosis of AD by Hanifin and Rajka criteria; a vIGA-AD™ score of ≥3 (moderate or severe) and BSA involvement of ≥35% for children aged 2–11 years or ≥25% for adolescents aged 12–17 years. ‡Pediatric patients aged 2–17 years with mild AD (vIGA-AD™≤2), or moderate or severe AD, that did not meet inclusion criteria for ADORING 1 and 2. AD, atopic dermatitis; BSA, body surface area; EASI, Eczema Area and Severity Index; MUPK, maximal usage pharmacokinetics; QD, once daily; vIGA-AD™, Validated Investigator Global Assessment for Atopic Dermatitis™.

Endpoints

- Treatment-free interval is defined as maintenance of clear or almost clear skin (vIGA-AD™=0 or 1) off treatment, after first achieving complete disease clearance (vIGA-AD™=0) and discontinuing treatment
- Endpoints assessed at the end of treatment-free intervals:
 - Proportion of patients with vIGA-AD™ scores of 0 (clear) to 4 (severe)
 - Mean Eczema Area and Severity Index (EASI) score and mean weekly Peak Pruritus Numerical Rating Scale (PP-NRS) score
- Patients could experience more than one treatment-free interval during ADORING 3
- Safety assessments included the incidence and frequency of treatment-emergent adverse events (TEAEs), including adverse events of special interest (AESI); and investigator- and patient- or parent/caregiver-assessed Local Tolerability Scale (LTS) scores

Maintenance of Low Disease Activity at the End of the First Treatment-free Interval

- After achieving complete disease clearance and discontinuing tapinarof, the mean duration of the first treatment-free interval was ~80 consecutive days off therapy
- Low disease activity was maintained at the end of the first treatment-free interval: 84.0% had vIGA-AD™=2; mean EASI=3.4 (standard deviation [SD]±3.2); mean weekly PP-NRS=2.9 (SD±2.2) (Figure 3)

Maintenance of Low Disease Activity at the End of all Treatment-free Intervals

- The overall mean duration of all treatment-free intervals was ~75 consecutive days (SD 76.0), demonstrating consistent ability to achieve complete clearance and maintain clear or almost clear skin
 - The mean duration of all treatment-free intervals may be an underestimate, due to the duration of some intervals being truncated prematurely by trial end (right censoring) and not by the need to restart treatment
- Similar low disease activity was seen at the end of subsequent treatment-free intervals

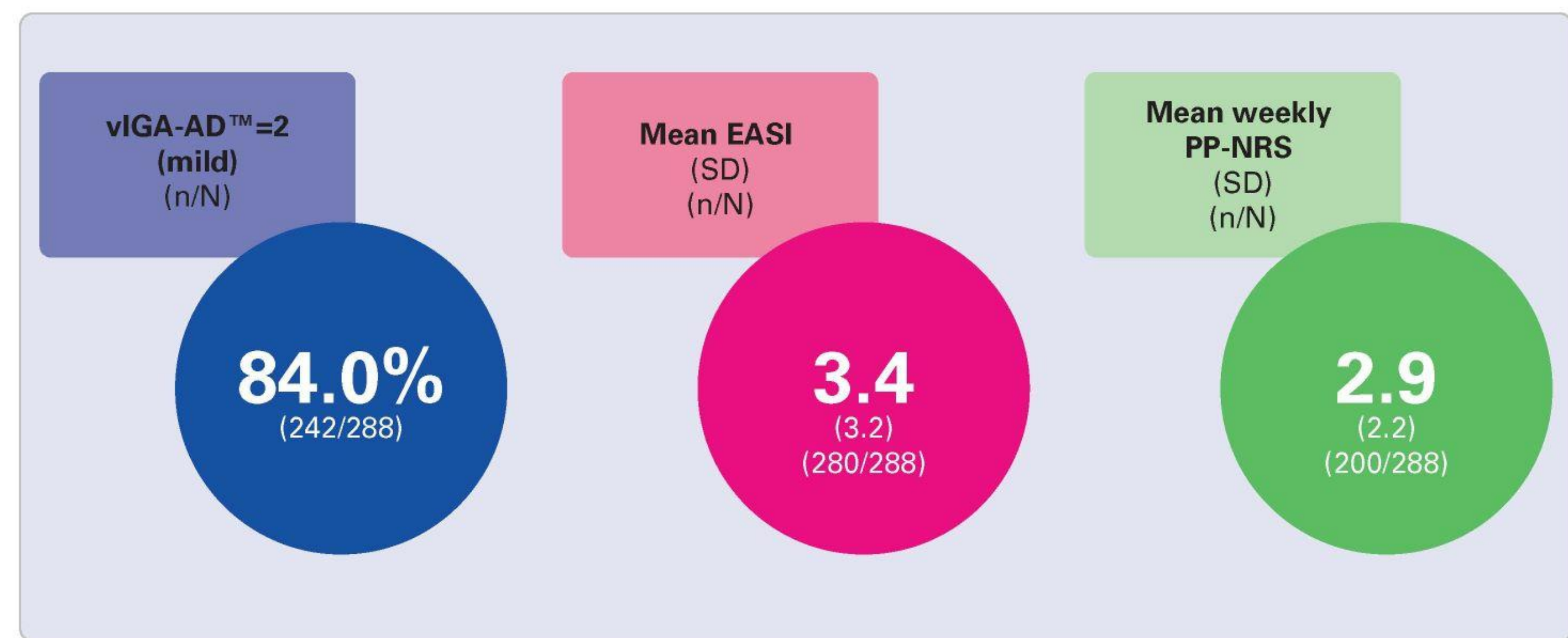
Tolerability

- Tapinarof cream was well tolerated; the majority of patients or parents/caregivers reported no or minimal burning/stinging and itching with long-term treatment for 48 weeks, even with intermittent treatment⁵
- Investigators assessed that most patients had no or minimal irritation (LTS=0) at all visits over the 48-week trial, with improvements in tolerability scores compared with ADORING 3 baseline⁵
- Tapinarof was well tolerated locally, even when applied on sensitive skin across all evaluations for 48 weeks⁵

Safety

- The most frequent TEAEs included folliculitis (12.1%), nasopharyngitis (6.9%), and upper respiratory tract infection (6.9%); trial discontinuations due to TEAEs were low (2.6%)⁵
- AESI of follicular events, contact dermatitis, and headache were mostly mild or moderate and associated with low discontinuation rates (1.0%, 0.4%, and 0%, respectively)⁵

Figure 3. Low Disease Activity at the End of the First Treatment-free Interval with Tapinarof Cream 1% QD



EASI, Eczema Area and Severity Index; PP-NRS, Peak Pruritus Numerical Rating Scale; QD, once daily; SD, standard deviation; vIGA-AD™, Validated Investigator Global Assessment for Atopic Dermatitis™.

Raising the Bar of Efficacy in Atopic Dermatitis: Lebrikizumab Maintains Depth of Response Over 3 Years in Week 16 Responders

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Sponsored by Eli Lilly and Company

OBJECTIVE

- To report maintenance of deep response and quality of life with 3 years of continuous treatment of lebrikizumab in responders^a from ADvocate1&2 (NCT04146363; NCT04178967)¹ enrolled into the extension study ADjoin (NCT04392154)²

^aResponders in ADvocate1&2 were defined as those patients who achieved either EASI 75 or IGA (0,1) following 16 weeks of LEBRI 250 mg Q2W treatment without use of rescue therapy.

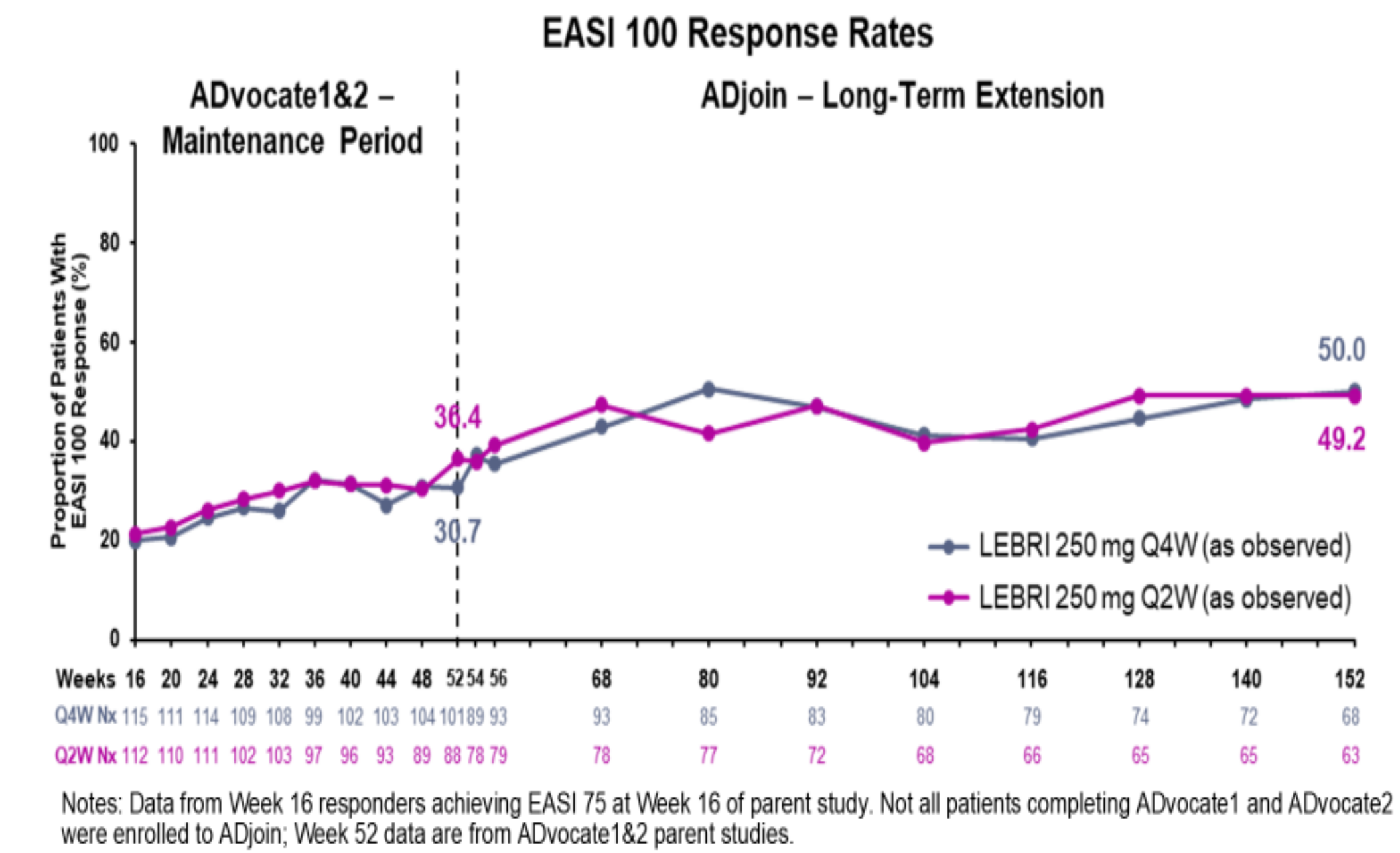
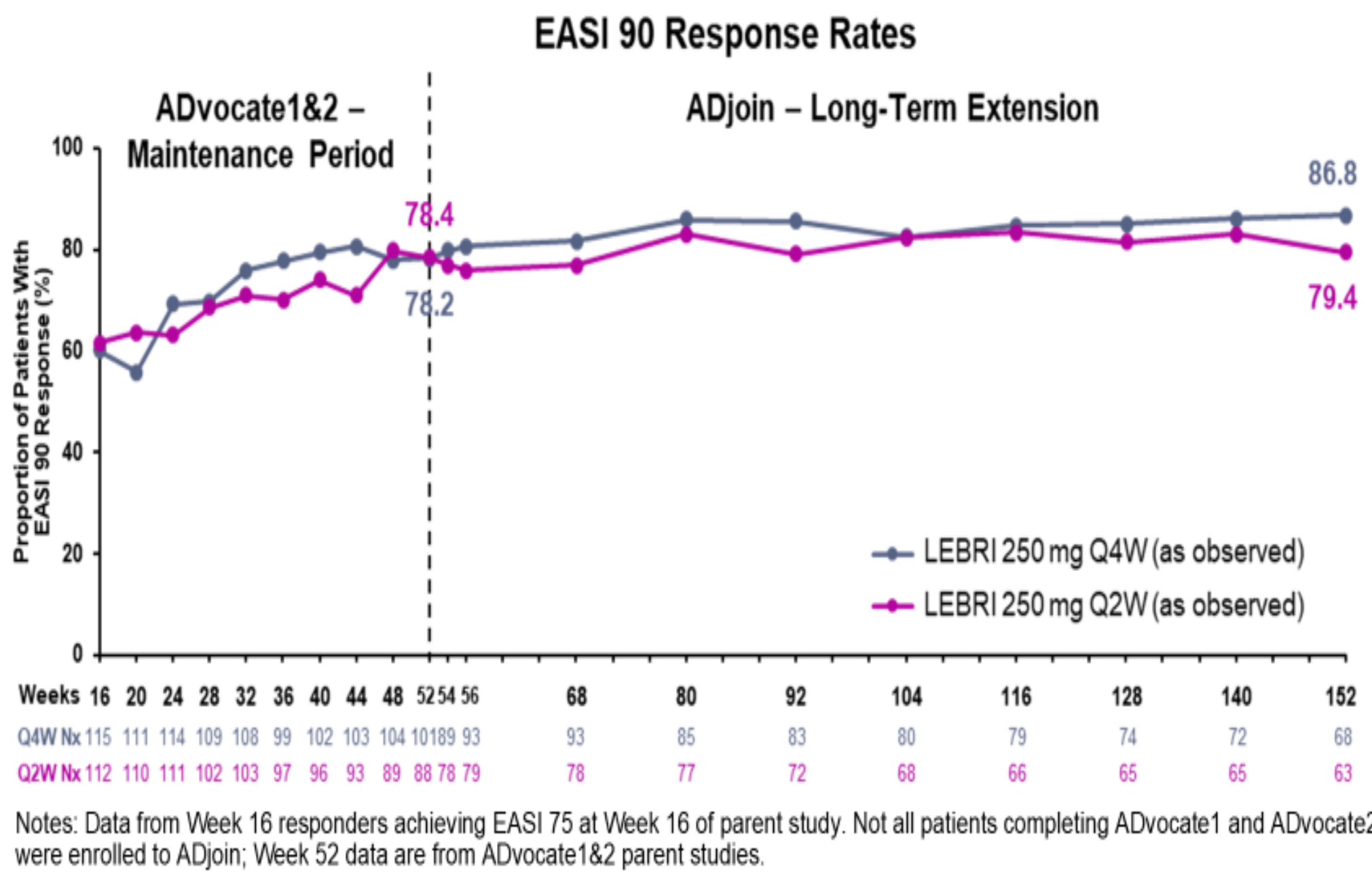
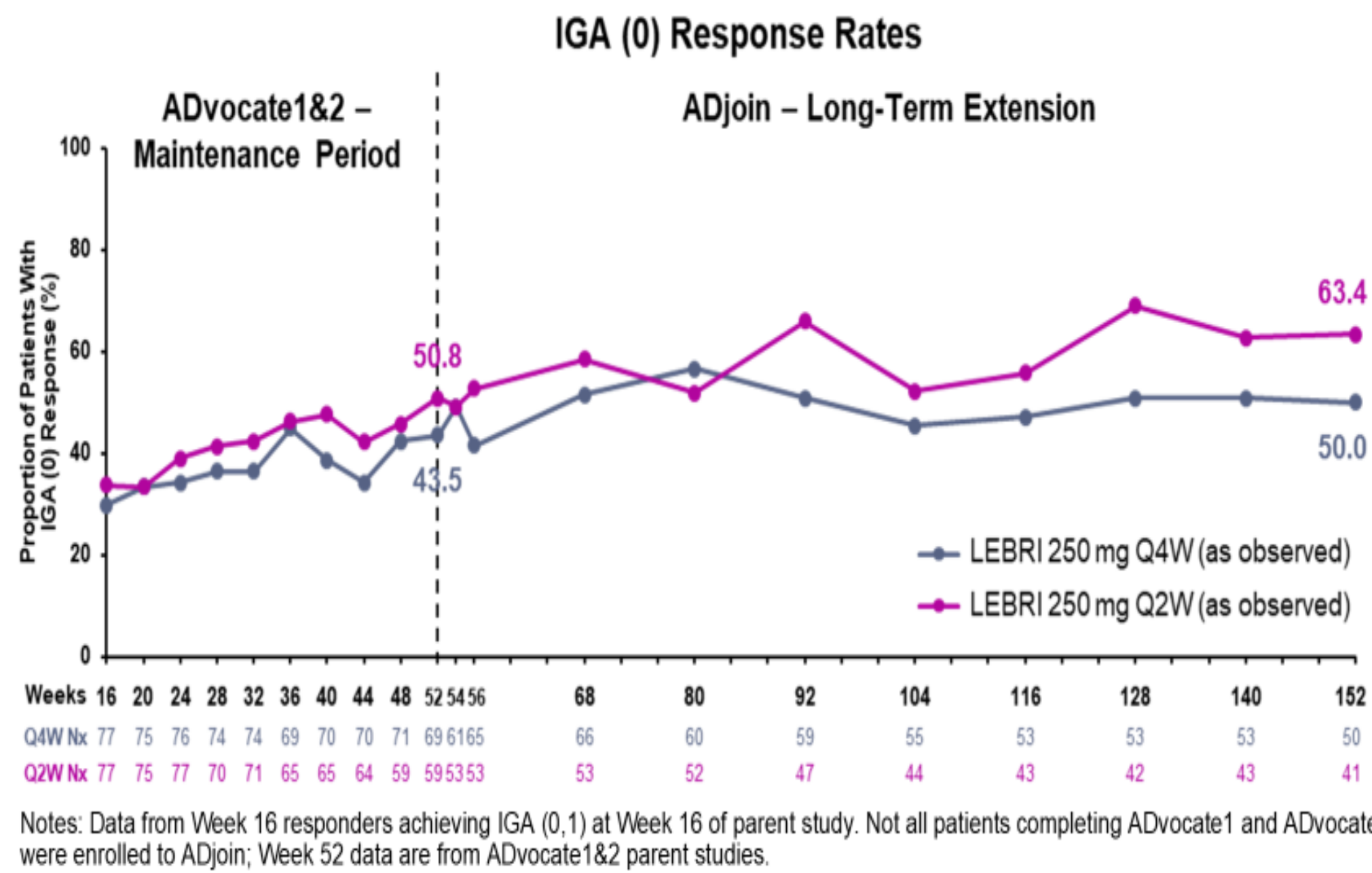
CONCLUSIONS

- Under lebrikizumab maintenance treatment in Week 16 responders, approximately 8 out of 10 achieved almost clear skin (as indicated by EASI 90) up to 3 years; additionally, over 50% of patients experienced total skin clearance, as assessed by EASI 100 or IGA (0)
- Quality of life was maintained through 3 years of continuous lebrikizumab treatment in Week 16 responders; approximately 1 out of 3 patients reported minimal to no AD-specific symptoms, as assessed by POEM (0,1), at Week 152
- Most patients did not require use of rescue therapy (TCS, TCI, or systemic treatment) with continuous lebrikizumab treatment
- These 3-year data suggest that long-term maintenance of total skin clearance is an achievable treatment goal for at least half of lebrikizumab Week 16 monotherapy responders

Elevate-Derm Summer Conference, Park City, Utah, USA;
July 23 - 27, 2025

KEY RESULTS

Deep Responses Were Maintained and Improved in Lebrikizumab Week 16 Responders Up to Week 152 for Both Q4W and Q2W Dosing

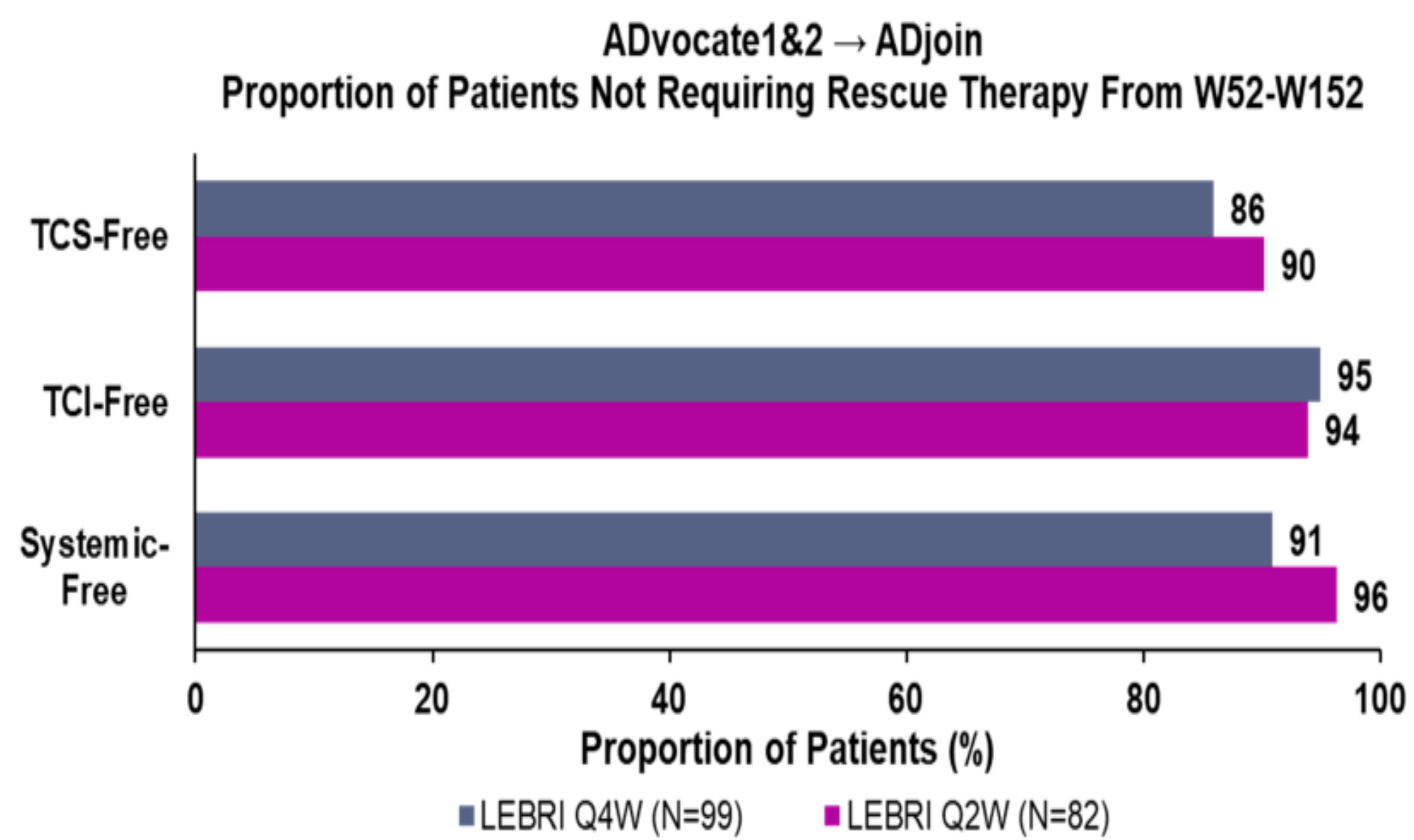


Baseline Demographics and Disease Characteristics

	ADvocate1&2 → ADJoin ^a	
	LEBRI 250 mg Q4W (N=99)	LEBRI 250 mg Q2W (N=82)
Mean age, years (SD)	35.8 (17.2)	35.5 (16.2)
Adolescent (≥12 to <18), n (%)	14 (14.1)	11 (13.4)
Female, n (%)	60 (60.6)	42 (51.2)
Region, n (%)		
USA	41 (41.4)	32 (39.0)
Europe	33 (33.3)	32 (39.0)
Rest of the world	25 (25.3)	18 (22.0)
Mean BMI, kg/m ² (SD)	26.4 (6.3)	26.4 (6.2)
Mean duration of disease since AD onset, years (SD)	22.4 (14.2)	23.6 (14.7)
IGA, n (%)		
3 (Moderate)	63 (63.6)	50 (61.0)
4 (Severe)	36 (36.4)	32 (39.0)
Mean EASI score (SD)	28.9 (12.2)	29.2 (11.2)
Mean POEM score (SD)	20.1 (5.8)	21.0 (5.1)

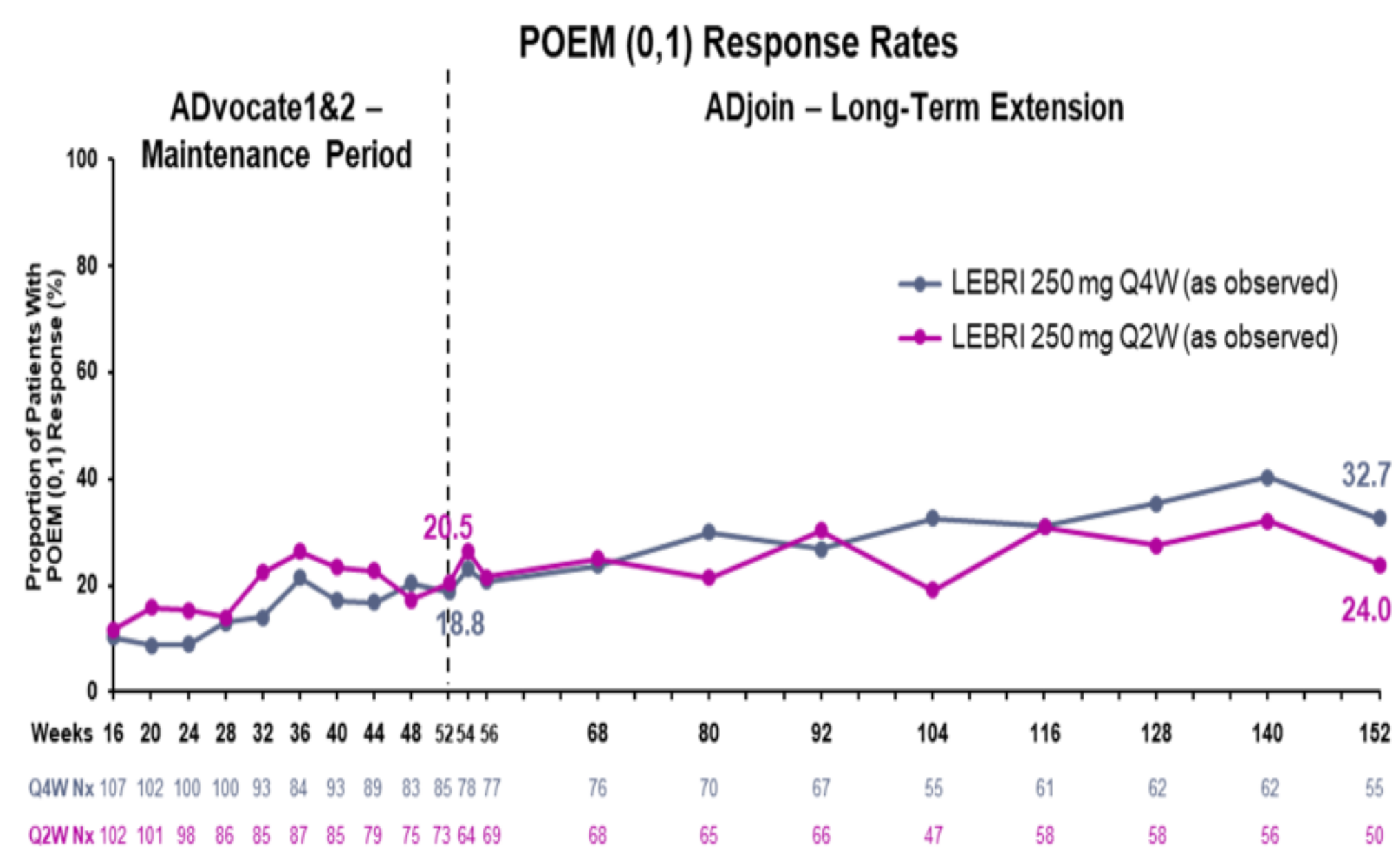
^aData at Week 0 of ADvocate1&2 are reported here as baseline data.

Most Patients Receiving Lebrikizumab Q4W and Q2W Through 152 Weeks Did Not Require Rescue Therapy^a

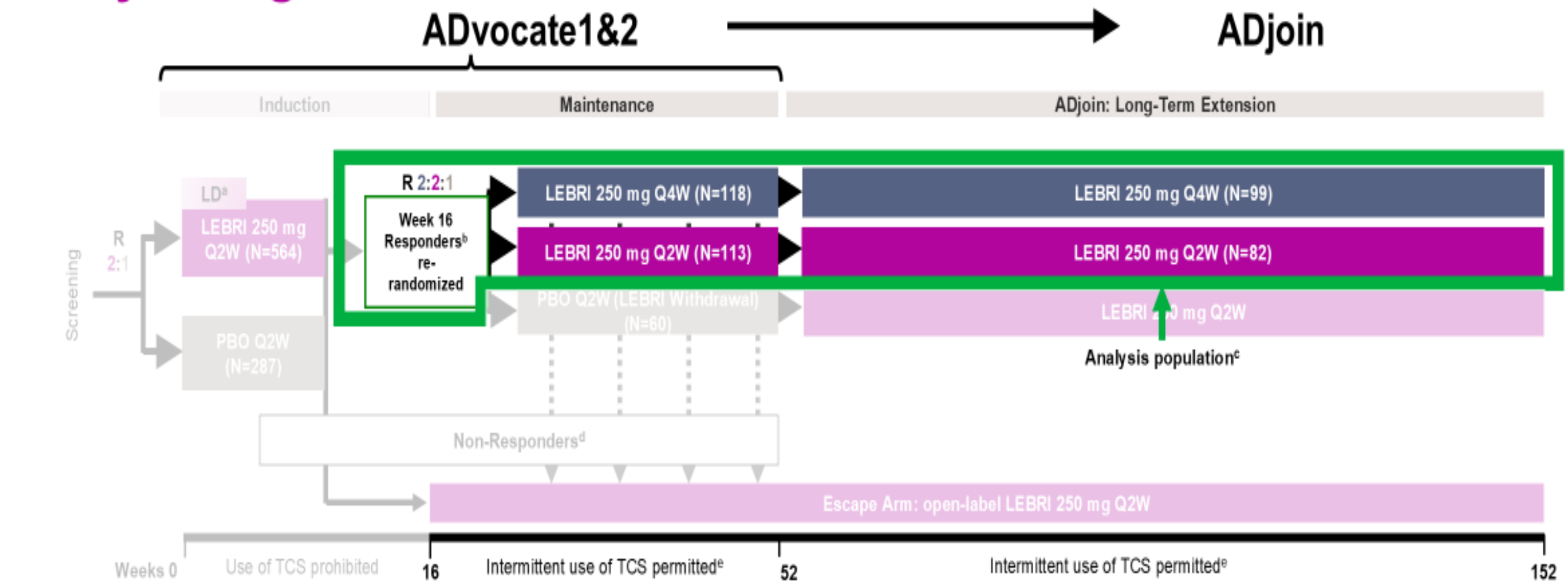


^aRescue therapy included any topical or systemic therapy during the treatment period. Notes: Topical rescue therapy included TCS and TCIs. Systemic rescue therapy included systemic corticosteroids, immunosuppressants, biologics, phototherapy, and photodynamic therapy. The majority of systemic rescue was used to treat TCEAs. Patients may have received more than 1 form of rescue therapy.

POEM (0,1) Response Was Maintained and Improved Through 152 Weeks for Both Q4W and Q2W Dosing



Study Design



^aLEBRI-treated patients received a 500-mg LD at Weeks 0 and 2; ^bResponders in ADvocate1&2 were defined as those patients who achieved either EASI 75 or IGA (0,1) following 16 weeks of LEBRI 250 mg Q2W treatment without use of rescue therapy; ^cLEBRI responders randomized to LEBRI 250 mg Q2W or LEBRI 250 mg Q4W at Week 16 (ADvocate1&2), and enrolled into ADJoin at Week 52 with the same dosage regimen; ^dPatients who required short-term systemic treatment for AD in the Maintenance and Long-Term Extension Periods were assessed on a case-by-case basis. Note: This analysis did not include per-protocol non-responders, defined as patients who used rescue therapy (including topical) during the 16-week Induction Period and assigned to receive open-label LEBRI 250 mg Q2W as part of the Escape Arm; additionally, during the 36-week Maintenance Period, patients who did not maintain EASI 50 (assessed at Weeks 24, 32, 40, 48) were also assigned to the Escape Arm. Once in the Escape Arm, patients who did not achieve EASI 50 after at least 8 weeks of treatment were terminated from the study. Non-responders receiving systemic rescue medication were required to washout for 5 half-lives prior to initiating treatment in the Escape Arm. In the Long-Term Extension Period, patients who did not achieving an EASI-50, from parent study baseline, by Week 16, maintaining an EASI-50 response, or not achieving clinical benefit were terminated from study. Additionally, in the Escape Arm, intermittent use of TCS for patients who required short-term systemic treatment for AD (assessed on a case-by-case basis) was permitted, but patients requiring long-term systemic treatment (eg, non-responders) were discontinued from the study.

Parent Studies (ADvocate1&2)

- Adults (≥18 years) and adolescents (≥12 to <18 years; weight ≥40 kg)
- Diagnosis of AD, as defined by the American Academy of Dermatology Consensus Criteria, for ≥1 year before screening
- Moderate-to-severe AD, defined as having all the following at the baseline visit:
 - EASI ≥16
 - IGA ≥3
 - BSA involvement ≥10%

ADJoin

- Patients could be included if they completed the study treatment and the last patient visit of the parent trial
- Patients were excluded if in the parent trial they:
 - Developed an SAE related to lebrikizumab or an AE related to lebrikizumab that led to treatment discontinuation, which indicated that continued treatment with lebrikizumab could present an unreasonable risk for the patient
 - Met conditions in the previous parent study consistent with protocol-defined criteria for permanent study drug discontinuation, if deemed related to lebrikizumab or if led to investigator- or sponsor-initiated withdrawal of patient from the study (eg, non-compliance, inability to complete study assessments)

Outcomes

- Deep response was assessed using:
 - IGA (0) (in Week 16 responders achieving IGA [0,1] at Week 16 of parent study)
 - EASI 90 (in Week 16 responders achieving EASI 75 at Week 16 of parent study)
 - EASI 100 (in Week 16 responders achieving EASI 75 at Week 16 of parent study)
- Quality of life was assessed using:
 - Total score POEM³ (0,1) in Week 16 responders
 - POEM is a validated, patient-reported, 7-item questionnaire that assesses AD-specific symptoms over the past week
 - Patients respond to questions about the frequency of itch, sleep disturbance, bleeding, weeping/oozing, cracking, flaking, and dryness/roughness, with each symptom scored from 0 to 4 (0=no days; 1=1 to 2 days; 2=3 to 4 days; 3=5 to 6 days; and 4=every day)
 - Total scores range from 0 to 28, with lower total score indicating better quality of life

Note: Responders in ADvocate1&2 were defined as those patients who achieved either EASI 75 or IGA (0,1) following 16 weeks of LEBRI 250 mg Q2W treatment without use of rescue therapy.

Statistical Analyses and Assessment

- Analysis populations:
 - **Parent studies (ADvocate1&2):** Week 16 lebrikizumab responders^a randomized to lebrikizumab 250 mg Q4W or lebrikizumab 250 mg Q2W
 - **ADJoin:** Lebrikizumab responders^a randomized to lebrikizumab 250 mg Q4W or lebrikizumab 250 mg Q2W at Week 16 (ADvocate1&2), and enrolled into ADJoin at Week 52 with the same dosage regimen
- Efficacy analyses:
 - Descriptive statistics were reported using all collected as-observed data, regardless of rescue medication use

^aResponders were defined as those patients who achieved either EASI 75 or IGA (0,1) following 16 weeks of LEBRI 250 mg Q2W treatment without use of rescue therapy in ADvocate1&2.

Abbreviations: AD=atopic dermatitis; AE=adverse event; BMI=body mass index; BSA=body surface area; EASI=Eczema Area and Severity Index; EASI 75/90/100=≥75%/≥90%/100% improvement from baseline in EASI; IGA=investigator's Global Assessment; IGA (0,1)=IGA response of clear, IGA (0,1)=IGA response of clear or almost clear; LD=loading dose; LEBRI=lebrikizumab; N=n=number of patients with non-missing values; PBO=placebo; POEM=Patient-Oriented Eczema Measure; Q2W=every 2 weeks; Q4W=every 4 weeks; R=randomization; SAE=serious AE; SD=standard deviation; TC=topical calcineurin inhibitor; TCS=topical corticosteroid; TEAE=treatment-emergent AE

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