# Lebrikizumab Confirms a **Consistent Safety Profile** in Adults and Adolescents With Moderate-to-Severe **Atopic Dermatitis: Data From 11 Trials With Over 3000 Patient-Years** of Exposure

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# **OBJECTIVE**

■ To provide updated long-term safety data for lebrikizumab treatment in adults and adolescents with moderate-to-severe AD, using data from 11 Phase 2/3 clinical trials

## CONCLUSIONS

- This study confirms a safety profile for lebrikizumab that is consistent with previously reported data from the lebrikizumab clinical trial program in adolescents and adults with AD1
- Overall, TEAEs did not increase with longer duration of exposure to lebrikizumab
- No new safety signals were detected

#### Most TEAEs Were Mild or Moderate in Severity and Did Not Lead to **Treatment Discontinuations**

	PBO (N=719) PYE=205.9	LEBRI 250 mg Q2W (N=1251) PYE=375.8	ALL LEBRI (N=2415) PYE=3167.8
	n (adj%) [adj IR]	n (adj%) [adj IR]	n (adj%) [adj IR]
Patients with ≥1 TEAE	368 (51.9) [284.2]	661 (52.7) [276.4]	1681 (69.6) [133.2]
Mild	198 (27.6)	366 (29.3)	778 (32.2)
Moderate	144 (20.7)	268 (21.3)	784 (32.5)
Severe	26 (3.6)	27 (2.2)	119 (4.9)
Death <sup>a</sup>	1 (0.1)	0	4 (0.2)
Serious AE	12 (1.7) [5.9]	15 (1.2) [3.9]	90 (3.7) [2.9]
AE leading to treatment discontinuation	12 (1.5) [5.4]	25 (2.0) [6.8]	100 (4.1) [3.2]

al death due to myocardial infarction in a 56-year-old male in the PBO group during the 16-week induction of ADvocate2 and 4 deaths in participants treated with LEBRI 250 mg Q2W (a 74year-old male due to pancreatic cancer, a 64-year-old male due to metastatic pancreatic cancer, a 56-year-old male due to natural causes, and a 13-year-old male due to cardiac arrest). No

- In the PBO-Controlled dataset, the frequency of TEAEs was similar between treatment groups
- Frequency of serious AEs were low in the PBO-Controlled dataset and IR decreased with longer lebrikizumab exposure

### AEs of Special Interest Did Not Increase With Longer Duration of Exposure

	PBO (N=719) PYE=205.9	LEBRI 250 mg Q2W (N=1251) PYE=375.8	ALL LEBRI (N=2415) PYE=3167.8
	n (adj%) [adj IR]	n (adj%) [adj IR]	n (adj%) [adj IR]
Conjunctivitis cluster <sup>a</sup>	21 (3.0) [10.7]	148 (11.7) [43.1]	345 (14.3) [12.3]
Mild	15 (2.1)	81 (6.4)	187 (7.7)
Moderate	6 (0.9)	67 (5.3)	151 (6.3)
Severe	0	0	7 (0.3)
Injection site reactions <sup>b</sup>	12 (1.6) [5.7]	35 (2.9) [9.7]	87 (3.6) [2.8]
Herpes zoster	1 (0.1) [0.4]	5 (0.4) [1.3]	25 (1.0) [0.8]

<sup>a</sup>Conjunctivitis cluster was defined by MedDRA preferred terms of conjunctivitis, allergic conjunctivitis, bacterial conjunctivitis, viral conjunctivitis, and giant papillary conjunctivitis; Conjunctivitis (single MedDRA preferred term of conjunctivitis) leading to treatment discontinuation was reported by 1 patient in the PBO group (adj IR=0.5), 3 patients in the LEBRI dataset (IR=0.4); blojection site reactions were defined using MedDRA high-level term of injection site reactions excluding joint-related preferred terms.

■ LEBRI Q2W ■ LEBRI Q2W/Q4W

■ LEBRI Q4W ■ LEBRI single dose

PBO-Controlled

Treatment

to Week 16

treated with

LEBRI Q2W

■ N=719 patients

ALL LEBRI Dataset (11 studies)

any of the 11 studies

Treatment duration: Any time from

N=2415 patients who received ≥1

dose of LEBRI (any LEBRI dose)

treated with PBO

N=1251 patients

ADjoin<sup>c,d,e</sup>: 100 Weeks

**Dataset (7 studies)** 

duration: Week 0

- None of the herpes zoster events were severe and none led to discontinuation
- No eosinophilic-related disorders were reported

**Methods** 

**Study Design** 

ADvocate1<sup>a,b</sup>: 52 Weeks

ADvocate2a,b,c: 52 Weeks

ADored: 52 Weeks

ADopt-VAa: 16 Weeks

Phase 2ba: 16 Weeks

ADherea,c: 16 Weeks (+TCS)

ADhere-Ja: 68 Weeks (+TCS)

TREBLE<sup>a</sup>: 12 Weeks (+TCS)

PBO-Controlled; bTCS/TCI use was permitted during

the Maintenance Period of ADvocate1 and 2; cModified

safety population, defined as patients who received ≥1

ADjoin [site 1], 18 patients in ADvocate2 who continued

in ADjoin [site 1], 3 patients in ADjoin [site 1], 7 patients

in ADopt-VA [2 patients from site 1 and 5 patients from

confirmed; dTCS/TCI use was permitted; eThis study has

site 2]), as the patient eligibility criteria could not be

Note: Database lock date was 31 October 2023.

direct entry patients too.

dose of study treatment, excluding 45 patients from 2

study sites (17 patients in ADhere who continued in

ADvantage<sup>a</sup>: 52 Weeks (+TCS)

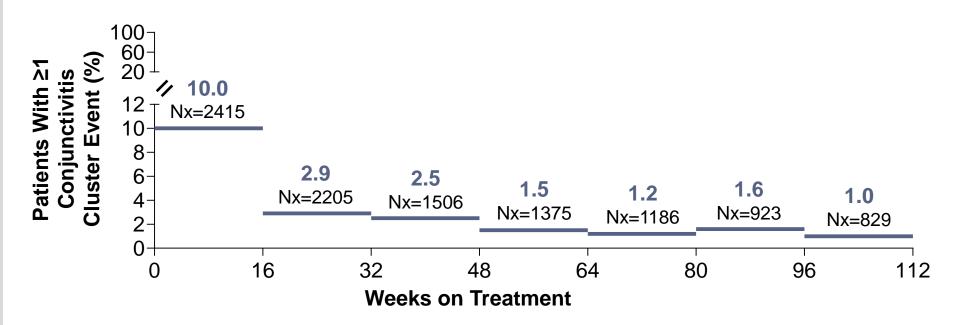
ARBAN: 12 Weeks (mono vs. TCS)

# **Assessments and Statistical Analyses**

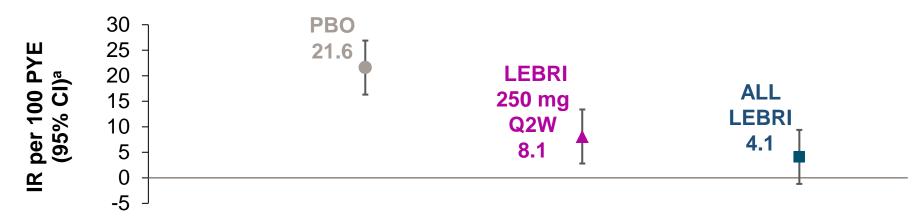
- Integrated data from 11 Phase 2/3 clinical trials are presented
- The safety assessment for lebrikizumab treatment in adults and adolescents with moderate-to-severe AD was based on patients who received ≥1 dose of study treatment, excluding 45 patients from 2 study sites,<sup>a</sup> as the patient eligibility criteria could not be confirmed
- Percentage and exposure adjusted IR<sup>b</sup> are provided for the PBO-Controlled and ALL LEBRI datasets, with studysize adjusted values provided for the PBO-Controlled dataset, as studies had different randomization ratios

<sup>a</sup>17 patients in ADhere who continued in ADjoin (site 1), 18 patients in ADvocate2 who continued in ADjoin (site 1), 3 patients in ADjoin (site 1), and 7 patients in ADopt-VA (2 patients from site 1 and 5 patients from site 2); bIR is defined as the number of patients experiencing the adverse event divided by the eventspecific exposure to treatment (exposure time up to the event for patients with the event and exposure time up to the end of the period for patients without the event) multiplied by 100, in years.

#### Conjunctivitis Cluster: Frequency Decreased With Longer Duration of **Lebrikizumab Exposure**



Skin Infections: IR Was Lower in the Lebrikizumab Q2W Group Than in the Placebo Group and Decreased With Longer Duration of Lebrikizumab **Exposure (ALL LEBRI Dataset)** 



	PBO (N=719; PYE=205.9)	LEBRI 250 mg Q2W (N=1251; PYE=375.8)	Any LEBRI (N=2415; PYE=3167.8)
Patients with ≥1 event, n (%)	43 (6.0)	30 (2.4)	124 (5.1)
PYR	199.1	370.0	3051.1

Note: Skin infections were defined using the MedDRA high-level term of "skin structures and soft tissue infections" and included the following preferred terms: cellulitis, eczema impetiginous, folliculitis, staphylococcal skin infection, cellulitis staphylococcal, furuncle, erysipelas, and fungal skin infection; IR was defined as the number of patients experiencing the adverse event divided by the event-specific exposure to treatment (exposure time up to the event for

#### Results

- This analysis provides data for a total of 2415 patients and 3168 patient-years in the ALL LEBRI dataset
- Median exposure: 391.0 days
- Maximum exposure: 1138 days (3.12 years)
- Compared with the previous integrated data analysis<sup>1</sup> that reported data from 10 trials<sup>a</sup>, this analysis includes
- 1 additional study: ADvantage<sup>b</sup>
- Approximately 1 additional year from ADjoin
- Additional data from the now-completed ADhere-J and ADopt-VA

<sup>a</sup>ADvocate1, ADvocate2, ADhere, ADore, ADopt-VA, ADhere-J, ADjoin, TREBLE, ARBAN, and Phase 2b; <sup>b</sup>European study.

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Reference: 1. Stein Gold L, et al. Poster presented at AAD 2024. Presentation 52041.

Abbreviations: AD=atopic dermatitis; adj %=study size-adjusted percentage; adj IR=study size-adjusted IR; AE=adverse event; Cl=confidence interval; IR=incidence rate; LEBRI=lebrikizumab; MedDRA=Medical Dictionary for Regulatory Activities; mono=monotherapy; N=number of patients in the analysis set; Nx=number of patients at risk in the specified category; PBO=placebo; PYE=patient-years of exposure; PYR=patient-years at risk; Q2W=every 2 weeks; Q4W=every 4 weeks; TCl=topical calcineurin inhibitor; TCS=topical corticosteroid; TEAE=treatment-emergent AE

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