Efficacy and Safety of Lebrikizumab in Adult and Adolescent Patients With Skin of Color and Moderate-to-Severe Atopic Dermatitis: An Interim Analysis of the Open-Label Phase 3b Trial, ADmirable

Andrew Alexis, 1 Ali Moiin, 2 Jill Waibel, 3 Paul Wallace, 4 David Cohen, 5 Pearl Kwong, 6 Amber Reck Atwater, 7 Cynthia Harris, 7 Jennifer Proper, 7 Evangeline Pierce, 7 Angela Moore, 8 Sonya Raikar (Non-author presenter) 7 1Weill Cornell Medicine, New York, NY, USA; 2Comprehensive Dermatology Center, Detroit, MI, USA; 3Miami Dermatology and Laser Institute, Miami, FL, USA; 4Wallace Skin Research Center, Los Angeles, CA, USA; 5Skin Care Physicians of Georgia, Macon, GA, USA; Suncoast Skin Solutions, Inc., Jacksonville, FL, USA; 7Eli Lilly and Company, Indianapolis, IN, USA; 8Baylor University Medical Center, Dallas, TX, USA; Arlington Research Center, Arlington, TX, USA; Arlington Center for Dermatology, Arlington, TX, USA

BACKGROUND

- Lebrikizumab is a novel 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
- The efficacy and safety of lebrikizumab to treat moderate-to-severe AD have been established in Phase 3 studies, including subset analyses by race and ethnicity2-8
- There is a paucity of data to guide the treatment of moderate-to-severe AD in populations traditionally under-represented in clinical trials, including patients with skin of color9



OBJECTIVE

- To present interim 16-week results from Admirable (NCT05372419), the first Phase 3b, open-label, 24-week study to evaluate the safety and efficacy of lebrikizumab in adult and adolescent patients with skin of color and moderate-to-severe AD
- To describe innovative objective measures of pigment, erythema, and post-inflammatory hyper- and hypo-pigmentation

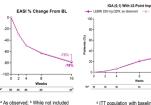
KEY FINDINGS



among patients completing their

early termination visit at Week 16,

thereby enabling the reporting of their



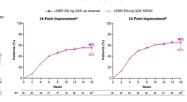
a ITT population with baseline IGA ≥2: ^b As observed; ^c While not included among patients completing their Week 16 visit, a patient underwent an early termination visit at Week 16, thereby enabling the reporting of their efficacy for this time point

IGA (0.1) With ≥2-Point

Improvement From Week 0

to Week 16 (N=50)

Pruritus NRS With ≥4- and ≥3-Point Improvement Response From Week 0 to Week 16



- a ITT population with baseline Pruritus NRS ≥4 (N=39): b ITT population with baseline Pruritus NRS ≥3 (N=40)
- As observed; While not included among patients comp Week 16 visit, a patient underwent an early termination visit at Week 16, thereby enabling the reporting of their efficacy for this time point

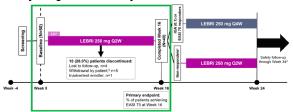
CONCLUSIONS

- This is the first Phase 3b clinical trial of lebrikizumab for patients with moderate-to-severe AD
 - With skin of color (80% Black or African American) and Fitzpatrick Phototype IV-VI
- Using objective and subjective tools and scales to evaluate signs and symptoms that matter to patients
- Lebrikizumab improved AD signs and symptoms in patients with skin of color and moderate-to-severe AD after 16 weeks of treatment, with
 - EASI 75 achieved in 68% of patients
 - IGA (0,1) with ≥2-point improvement achieved in 39% of patients
 - Pruritus NRS ≥4-point improvement achieved in 56% of patients
 - No serious adverse events
- The innovative objective measure PDCA-Derm^{TM,b} identified improvement in post-inflammatory hyperpigmented lesions in 12/21 patients and improvement to normal skin tone in 6/21 patients at Week 16

Results from interim analysis; full data will be reported when study is complete; b A scale used to compare post-inflammatory lesions to unaffected adjacent normal skin

METHODS

Study Design - Interim Analysis



a 500-mg LD at Weeks 0 and 2; a Reasons included personal issue unrelated to trial; expressed disinterest when asked to get additional hepatitis testing; no longer wants to take IP injections; withdrew consent due to low calcium levels; eczema resolved; a Did not achieve IGA (0,1) or EASI 75; a Safety follow-up approximately 12 weeks after last study injection

Note: The use of low- and/or mid-potency TCS, TCIs, topical PDE-4 inhibitors, or high-potency TCS up to 10 days was permitted. Patients requiring

rescue therapy (high-potency TCS >10 days, topical JAK inhibitors, phototherapy, systemic medication) were discontinued from the study

Outcomes and Statistical Analysis

Week 16 Outcomes

- EASI,^{a,b} IGA (0,1),^{b,c} and Pruritus NRSd
- PDCA-Derm^{™,e}
- PO-SCORAD, Mexameter (melanin), Scarletred (ervthema), biomarkers. and microbiomet

Statistical Analyses

- Interim analysis includes patients who enrolled by June 29, 2023, and completed 16 weeks of lebrikizumab therapy or discontinued treatment by Week 16
- Primary analysis: All data were summarized as observed
- Supplemental analysis: Missing data due to lack of efficacy were imputed with NRI; other missing data were imputed with MI

a A composite index with scores ranging from 0 to 72, with higher values indicating more severe and/or extensive disease; b Investigators rece training on accurate assessment of EASI and IGA for patients with skin of color; A 5-point scale that provides a global clinical assessment of AD severity ranging from 0 to 4, where 0 indicates clear, 2 is mild, 3 is moderate, and 4 indicates severe AD d A national reported sincle-item 11-point scale hat is used daily to rate worst lich severify over the past 24 hours (0 indicates "not ich"; 10 indicates "not rest lich imaginable";

A scale used to compare post-inflammatory lesions to unaffected, adjacent normal skin; 1 These outcomes are not included in this analysis

Key Eligibility Criteria

- Adults (≥18 years) and adolescents (≥12 to <18 years; weight ≥40 kg)</p>
- Self-reported race, including Black or African American, American Indian or Alaska Native, Asian, and Native Hawaiian or Other Pacific Islander
- Fitzpatrick Phototype IV, V, or VI
- Chronic AD (according to AAD Consensus Criteria¹0) for ≥1 year
- Moderate-to-severe AD, including baseline:
- EASI ≥16 - IGA ≥3 BSA involvement ≥10%
- History of inadequate response to topical medications
- Naive to biologics indicated for the treatment of AD

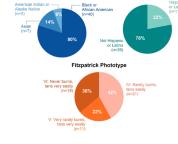
RESULTS

Baseline Demographics

	LEBRI 250 mg Q2W (N=50)
Age, years	42.2 (19.7)
Adult (≥18 years), n (%)	42 (84.0)
Adolescent (≥12 to <18 years), n (%)	8 (16.0)
Female, n (%)	23 (46.0)
BMI, kg/m ²	30.2 (7.7)
BMI category, n (%)	
Underweight (<18.5 kg/m ²)	3 (6.0)
Normal (≥18.5 and <25 kg/m²)	8 (16.0)
Overweight (≥25 and <30 kg/m²)	15 (30.0)
Obese (≥30 and <40 kg/m²)	17 (34.0)
Extreme obese (≥40 kg/m²)	7 (14.0)
Age at AD onset, years	22.8 (22.8)

Ethnicity

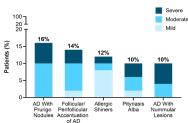
Note: Data are mean (SD) unless stated otherwise



Baseline Disease Characteristics

	LEBRI 250 mg Q2W (N=50)
IGA ^a	
3 (Moderate), n (%)	32 (64.0)
4 (Severe), n (%)	17 (34.0)
EASI	28.1 (12.4)
BSA % affected	41.7 (20.8)
Pruritus NRS ^b	7.2 (2.2)
≥3, n (%)	40 (93.0)
≥4, n (%)	39 (90.7)
Sleep-Loss scale ^b	2.1 (1.1)
DLQI°	13.9 (8.3)
CDLQI ^c	13.0 (9.6)
PO-SCORAD ^d	57.5 (18.7)
PDCA-Derm™	
Hypopigmented lesion(s), n (%)	9 (18.0)
Hyperpiamented lesion(s), n (%)	27 (54.0)

a 1 patient inadvertently enrolled with IGA=2 and discontinued when discovered they did not meet enrollment criteria: b Nx=43; c Patients <16 years of age at baseline completed CDLQI (Nx=6); others completed DLQI (Nx=42); d Nx=48
Note: Data are mean (SD) unless stated otherwise. At baseline, patients could have hyperpiamented lesions, hypopiamented lesions, both, or neither



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PDCA-Derm™: A Scale Used to Compare Post-inflammatory Lesions To Unaffected Adjacent Normal Skin¹



a Data as observed; b Three patients whose PDCA-Derm^{1M} went from +2 to -2 and +2 to -1 not shown in figure Notes: 1) The colors in the PDCA-Derm™ table serve as visual aids for comprehension and are not indicative of actual skin tones; 2) For patients with multiple hypopigmented or hyperpigmented lesions at baseline, only the lesion with the most severe score was included in the analysis for each lesion type. In the event of a tie, the lesion reflecting a smaller improvement or worsening in condition from baseline to Week 16 was included. 3) Images do not represent actual gender breakdown in study

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ABBREVIATIONS

AAD=American Academy of Dermatology; AD=Atopic Dermatilis BSA=Body Surface Area; CDLQI=Children's Dermatology Life Quality Index; DLQI = Dermatology Life Quality Index; EASITS=TS* improvement from basefine in excerns area and isi 75=75% improvement from baseline in eczema area i verity index; EASI=Eczema Area and Severity Index; IGA LU-Luaway usat; Mr manape mpuranor, rest-rest-responder Imputation; NRS-numeric Rating Scale; Nx = number of patients with non-missing values; PDE-4=Phosphodesterase 4; PO-SCORAD=Patient-Opinated Scoring of Massic Terrestive Q2W=every 2 weeks; Q4W=every 4 weeks; SD= Standard Deviation TCl=Topical Calcineurin Inhibitor; TCS=Topical Corticosteroids

CLUSURES

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Use of Concomitant Topical and Systemic Therapy

	LEBRI 250 mg Q2W (N=50)
Topical therapy	
Low-potency TCS	14 (28.0)
Mid-potency TCS	13 (26.0)
High-potency TCS	0
High-potency TCS >10 days	0
TCIs	7 (14)
Topical PDE-4 inhibitor	7 (14)
Topical JAK inhibitor	0
Systemic therapy	
Prednisone	1 (2)
Immunosuppressant	0
Biologic	0
Phototherapy or photochemotherapy	0

Notes: Data are n (%). Rescue therapy is defined as high-potency TCS >10 days, topical JAK inhibitors, phototherapy, or systemic

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