Title: Safety and Efficacy of Lebrikizumab in Adolescent Patients with Moderate-to-Severe Atopic Dermatitis: A 52-Week, Open-Label, Phase 3 Study

Running head: Lebrikizumab in adolescent patients with moderate-to-severe atopic dermatitis

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SUPPLEMENTARY MATERIAL

eMethods

Inclusion Criteria

To be eligible for the study, a patient must have

- been an adolescent aged 12 years and older but less than 18 years and weighing 40 or more kilograms,
- had a diagnosis of chronic AD as defined by the American Academy of Dermatology Consensus Criteria, for at least 1 year before the screening visit,
- had moderate-to-severe AD, defined as having all the following at the baseline visit
    - EASI ≥16
    - IGA score ≥3
    - BSA ≥10%, and
- been a candidate for systemic therapy.

Exclusion Criteria

- uncontrolled chronic disease that might require bursts of oral corticosteroids,
- diagnosed active endoparasitic infections or at high risk of these infections,
- history of malignancy, including mycosis fungoides, within 5 years before the screening visit, except the following
    - completely treated in situ carcinoma of the cervix
    - completely treated and resolved non-metastatic squamous or basal cell carcinoma of the skin, and
- severe concomitant illness (es) or any medical or psychological condition that would adversely affect the participant's participation in the study.

Table S1: Summary of type of atopic dermatitis medication used through Week 52 in the safety population. Data are presented as n (%).

Rescue Therapy [a]	**LEB 250mg Q2W (N=206) n (%)**
Patients with ≥1 rescue therapy	**56 (27.2)**
Topical therapy	**56 (27.2)**
Topical corticosteroids	**54 (26.2)**
Low- to moderate-potency TCS	**38 (18.4)**
Triamcinolone	23 (11.2)
Hydrocortisone	17 (8.3)
Desonide	4 (1.9)
Betamethasone; fusidic acid	1 (0.5)
Dexamethasone; gentamicin	1 (0.5)
Fusidic acid; hydrocortisone	1 (0.5)
Hydrocortisone; natamycin; neomycin	1 (0.5)
Prednisone	1 (0.5)
High-potency TCS	**21 (10.2)**
Mometasone	14 (6.8)
Desoximetasone	2 (1.0)
Betamethasone	1 (0.5)
Clobetasol	1 (0.5)
Fluocinolone acetonide	1 (0.5)
Fluocinonide	1 (0.5)
Fluticasone	1 (0.5)
Methylprednisolone	1 (0.5)
Topical calcineurin inhibitor	**13 (6.3)**
Tacrolimus	8 (3.9)
Pimecrolimus	5 (2.4)
Crisaborole	**0**
Systemic therapy	**5 (2.4)**
Systemic corticosteroids	**5 (2.4)**

Rescue Therapy [a]	**LEB 250mg Q2W (N=206)** **n (%)**
Methylprednisolone	3 (1.5)
Dexamethasone	2 (1.0)
Prednisone	1 (0.5)
Immunosuppressant	**1 (0.5)**
Cyclosporine	1 (0.5)
Biologics	**0**
Phototherapy or photochemotherapy	**0**

[a] Rescue therapy was defined as topical treatments (including TCS, TCI, and crisaborole) and systemic treatments (including oral corticosteroids, immunosuppressants, biologics, and phototherapy/phytotherapy). Abbreviations: LEB = lebrikizumab; N = number of patients in the analysis population; n = number of patients in the specified category; Q2W = every 2 weeks; TCS = topical corticosteroids.

Table S2: List of ADore study investigators

Investigator Name	**Site Address**
Australia (12 patients, 4 sites)	
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Canada (20 patients, 5 sites)	
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