

Improvement of the head and neck regions with continuous tralokinumab treatment for up to 4 years in adults with moderate-to-severe atopic dermatitis

Raj Chovatiya¹, Andreas Wollenberg², Simone Ribero³, Hidehisa Saeki⁴, Christian B Øland⁵, Louise A Stefanssen⁵, Ann-Marie Tindberg⁵, Jacob P Thyssen^{5,6}, Andrew Blauvelt⁷

¹Northwestern University Feinberg School of Medicine, Chicago, IL, USA; ²Ludwig Maximilian University of Munich, Munich, Germany; ³University of Turin, Turin, Italy; ⁴Nippon Medical School, Tokyo, Japan; ⁵LEO Pharma A/S, Ballerup, Denmark; ⁶Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark; ⁷Oregon Medical Research Center, Portland, OR, USA



Objectives

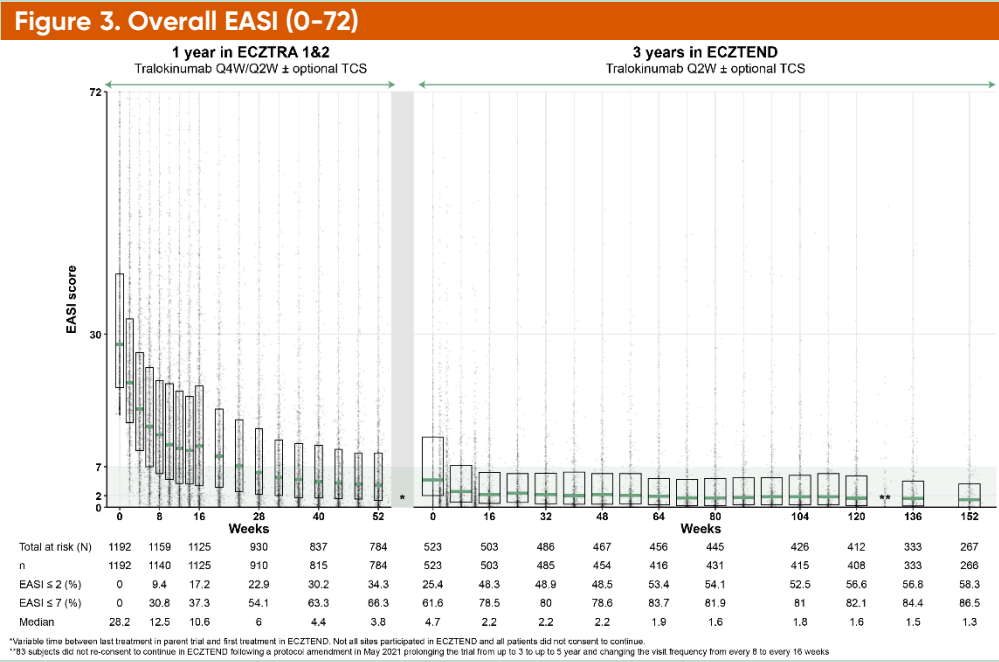
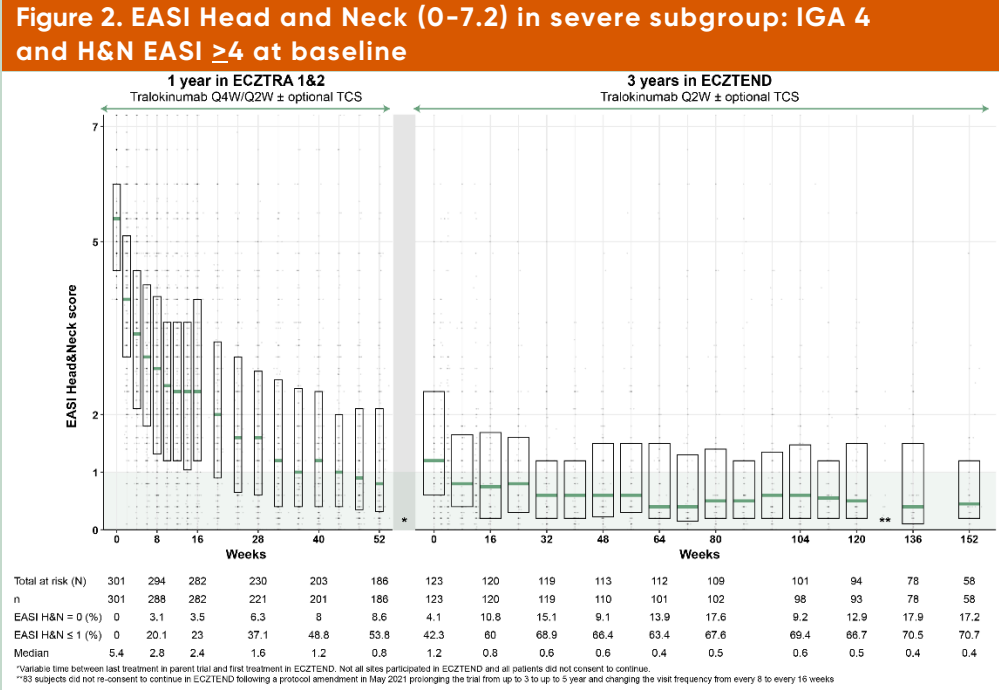
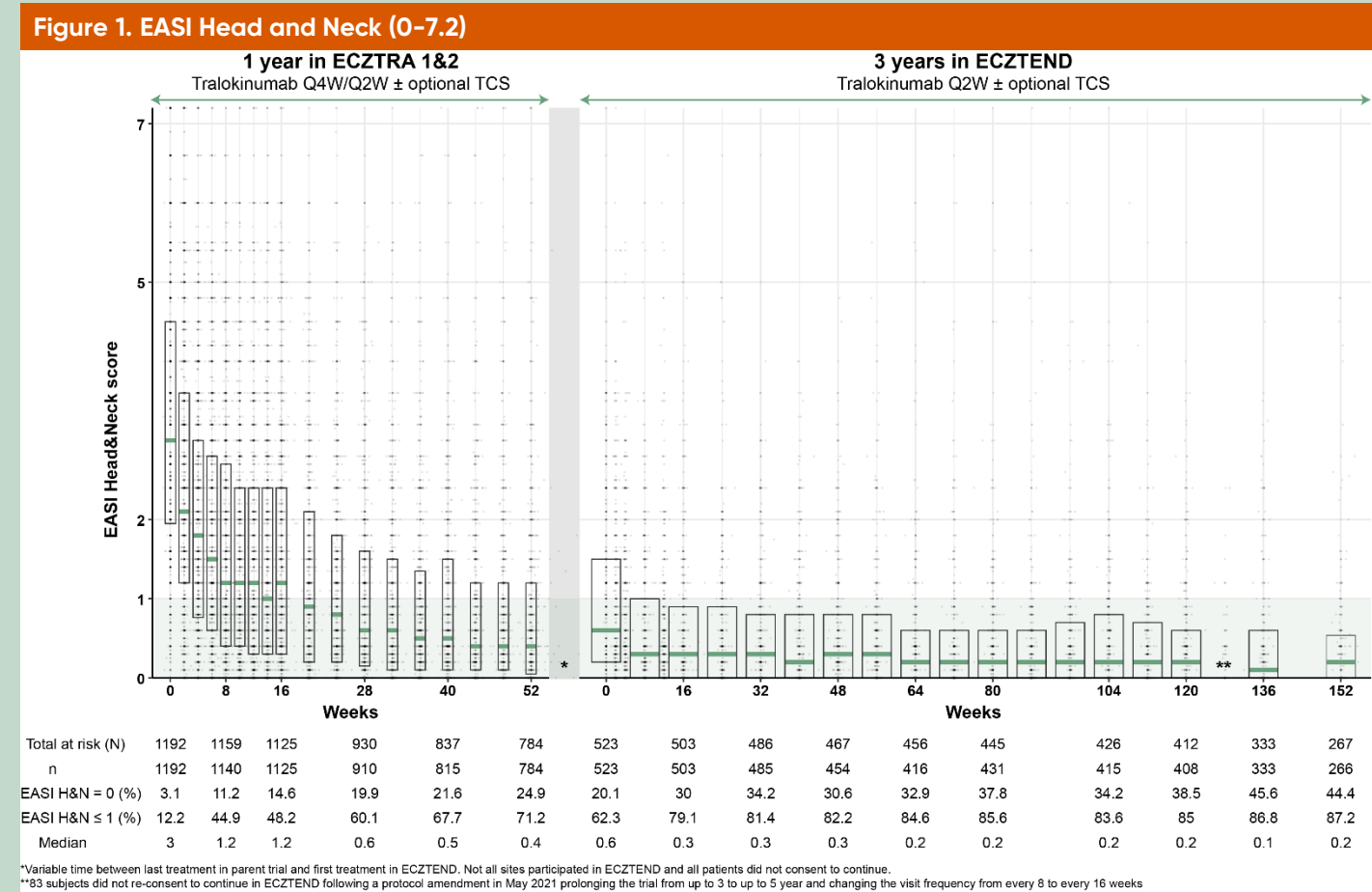
- To examine the efficacy of long-term tralokinumab treatment on the head and neck regions through a post hoc analysis of two Phase 3 clinical trials and the on-going ECZTEND open-label trial

Background

- Atopic dermatitis (AD) is a chronic, inflammatory disease that can affect multiple regions of the body but can be particularly burdensome on exposed areas of skin, such as the head and neck (H&N) regions¹
- The H&N regions can be difficult to treat, and the use of medium- to high-potency topical corticosteroid (TCS) in this region is not recommended²
- Tralokinumab, a high-affinity monoclonal antibody that specifically neutralizes interleukin-13, is approved for the treatment of moderate-to-severe AD in multiple countries^{3,4}
- ECZTEND (NCT03587805) is an ongoing open-label, 5-year extension trial investigating the long-term safety and efficacy of tralokinumab plus optional TCS

Results

- In patients treated with tralokinumab for up to a total of 4 years in ECZTRA 1 & 2 and ECZTEND, the median H&N EASI was reduced from 3.0 at parent trial (PT) baseline to 0.2 at Week 152 in ECZTEND. The proportion of patients with H&N EASI≤1 at Week 152 was 87.2% (Figure 1)
- In the most severe subgroup, with IGA 4 and high H&N involvement (H&N EASI≥4) at baseline (n=301), the median H&N EASI was reduced from 5.4 at PT baseline to 0.4 at Week 152. The proportion of patients with H&N EASI≤1 at Week 152 was 70.7 (Figure 2)
- The median total EASI (0-72) was improved from 28.2 at PT baseline to 1.3 at Week 152. The proportion of patients with EASI≤7 and EASI≤2 at Week 152 were 86.5% and 58.3%, respectively (Figure 3)

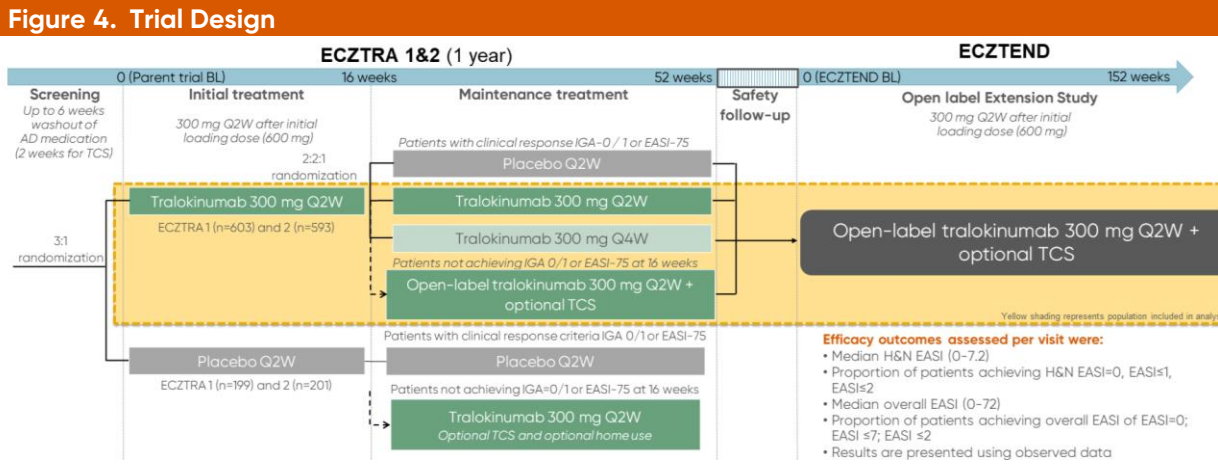


Methods

- Data were obtained from all patients initiated on tralokinumab in ECZTRA 1&2, identically designed phase 3 monotherapy trials conducted in adults with moderate-to-severe AD
- Patients on active treatment were followed for up to 52 weeks in parent trials, and patients that then enrolled in the long-term open-label study ECZTEND were followed up to an additional 152 weeks until the April 30, 2022 data cutoff (Figure 4)
- Data from Week 16 responders re-randomized to placebo were not included beyond that timepoint (Figure 4)

Analyses

- Overall EASI scores (0-72) were calculated as a composite of the intensity (0-3) and extent of involvement (0-6)
- Head and neck regional scores (H&N EASI; 0-7.2), the intensity of signs (erythema, induration/papulation, excoriation, lichenification) were assessed individually (0-3) and were summated (0-12) and then multiplied by extent of involvement (0-6). Then the % BSA weighting coefficient 0.1 was used
- Results are presented using observed data



Baseline and Disease Characteristics

- Patients generally exhibited substantial disease severity at baseline (Table 1)
- 87.8% of patients had H&N involvement at baseline (H&N EASI>1)
- The median treatment duration was 53.1 weeks (IQR 38.4; 199.9) and max 238.5 weeks
- The most common reasons for discontinuation were Lack of efficacy (11.9%), Other reasons (9.8%), Adverse events (6.6%), Withdrawal by subject (7.2%), and Lost to follow up (4.2%)

Table 1. Baseline demographics and characteristics

	Initially randomized to tralokinumab Q2W (N=1192)
Mean age, years (SD)	37.9 (14.2)
Male sex, n (%)	708 (59.4)
Mean BSA involvement % (SD)	52.6 (24.8)
Mean duration of AD, years, (SD)	28.1 (15.2)
IGA 4 (severe), n (%)	591 (49.6)
Mean EASI (SD)	32.2 (14.0)
Mean H&N EASI (SD)	3.2 (1.8)

Conclusions

- In this post hoc analysis, tralokinumab provided sustained improvements of head and neck regions in patients with moderate to severe AD for up to 4 years
- Similarly, sustained improvements were seen in severe patients with substantial head and neck involvement at baseline
- Improvements in head and neck regions were comparable to overall EASI improvement

Abbreviations: AD, atopic dermatitis; BL, baseline; BSA, body surface area; EASI, eczema area and severity index; H&N, head and neck; IGA, investigator's global assessment; n, number of subjects with observed data at the visit analyzed; N, Total at risk, or number of subjects with observed data at or later than the visit analyzed; Q2W, every 2 weeks; Q4W, every 4 weeks; SD, standard deviation; TCS, topical corticosteroid

References: 1. Silverberg, J. Ann Allergy Asthma Immunol. 2019;123(2):144-151. 2. Sidbury R, Alikhan A, Bercovitch L, et al. J Am Acad Dermatol. 2023;89(1):e1-e20. 3. Bieber T. Allergy. 2020;75(1):54-62. 4. Wollenberg A, Blauvelt A, Guttman-Yassky E, et al. Br J Dermatol. 2021;184(3):437-449.

Acknowledgements: This analysis was sponsored by LEO Pharma A/S (Ballerup, Denmark). Medical writing and editorial assistance were provided by Michelle Dookwah-Smith, PhD and funded by LEO Pharma A/S.

Presented at Fall Clinical Dermatology Conference, October 19-22, 2023

Disclosures: RC served as an advisor, consultant, speaker, and/or investigator for AbbVie, Apogee Therapeutics, Arcutis, Argenc, ASLAN Pharmaceuticals, Beiersdorf, Boehringer Ingelheim, Bristol Myers Squibb, Cara Therapeutics, Dermavant, Eli Lilly and Company, FIDE, Galderma, Genentech, Incyte, LEO Pharma, L'Oréal, Nektar Therapeutics, Novan, Inc., Opsidio, Pfizer Inc., Regeneron, Sanofi, and UCB. AW received grants, personal fees, or nonfinancial support from AbbVie, Almirall, Aileens, Beiersdorf, Bioderma, BMS, Chugai, Galapagos, Galderma, GSK, Hans Karrer, Hexal, Janssen, LEO Pharma, Lilly, L'Oréal, Maruho, MedImmune, Novartis, Pfizer, Pierre Fabre, Regeneron, Santen, and Sanofi-Aventis. SR received research grants, personal fees, or nonfinancial support from AbbVie, Almirall, BMS, Galderma, LEO Pharma, Lilly, L'Oréal, Novartis, Pfizer, Pierre Fabre, and Sanofi. HS received lecture fees and/or Clinical research funding and/or Grant donations from Mitsubishi Tanabe Pharma Corporation, Taiho Pharmaceutical Co., Ltd., AbbVie GK., Sanofi K.K., Torii Pharmaceutical Co. Ltd., Maruho Co., Ltd., Japan Tobacco Inc., Eli Lilly Japan K.K., LEO Pharma K.K., Otsuka Pharmaceutical Co., Ltd., Novartis Pharma K.K., Pfizer Japan Inc., Eisai Co., Ltd., Tokai Pharmaceutical Co., Ltd. JT is an employee of LEO Pharma and holds stock options, and served previously as an advisor for AbbVie, Almirall, Arena Pharmaceuticals, Coloplast, OM Pharma, Aslan Pharmaceuticals, Union Therapeutics, Eli Lilly & Co, Pfizer, Regeneron, and Sanofi-Genzyme; a speaker for AbbVie, Almirall, Eli Lilly & Co, Pfizer, Regeneron, and Sanofi Genzyme; and received research grants from Pfizer, Regeneron, and Sanofi Genzyme. CBO, LAS, and AMT are employees of LEO Pharma. CBO and AMT are a shareholders of LEO Pharma. AB served as a speaker (received honoraria) for AbbVie, Bristol-Myers Squibb, Eli Lilly and Company, Pfizer, Regeneron, and Sanofi, served as a scientific adviser (received honoraria) for AbbVie, Abcentra, Aclaris, Affibody, Aligos, Almirall, Alumis, Amgen, Anaptysbio, Apogee, Arcutis, Arena, Aslan, Athenex, Bluefin Biomedicine, Boehringer Ingelheim, Bristol-Myers Squibb, Cara Therapeutics, CTI BioPharma, Dermavant, EcoR1, Eli Lilly and Company, Esclint, Evelo, Evmmune, Forte, Galderma, Highlightl Pharma, Incyte, InnoventBio, Janssen, Landos, Leo, Merck, Novartis, Pfizer, Rani, Rapt, Regeneron, Sanofi Genzyme, Spherix Global Insights, Sun Pharma, Takeda, TLL Pharmaceutical, TrialSpark, UCB Pharma, Union, Ventyx, Vibliome, and Xencor, and has acted as a clinical study investigator (institution has received clinical study funds) for AbbVie, Acelyrin, Allakos, Almirall, Alumis, Amgen, Arcutis, Athenex, Boehringer Ingelheim, Bristol-Myers Squibb, Concert, Dermavant, Eli Lilly and Company, Evelo, Evmmune, Galderma, Incyte, Janssen, Leo, Merck, Novartis, Pfizer, Regeneron, Sanofi, Sun Pharma, UCB Pharma, and Ventyx