

# Safety and adverse events of special interest in 825 adults with atopic dermatitis receiving up to 12 months of tralokinumab treatment in a real-world setting



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## Objectives

- The TRACE study aims to assess the real-world safety and effectiveness of 12-months of tralokinumab treatment in patients with atopic dermatitis (AD)

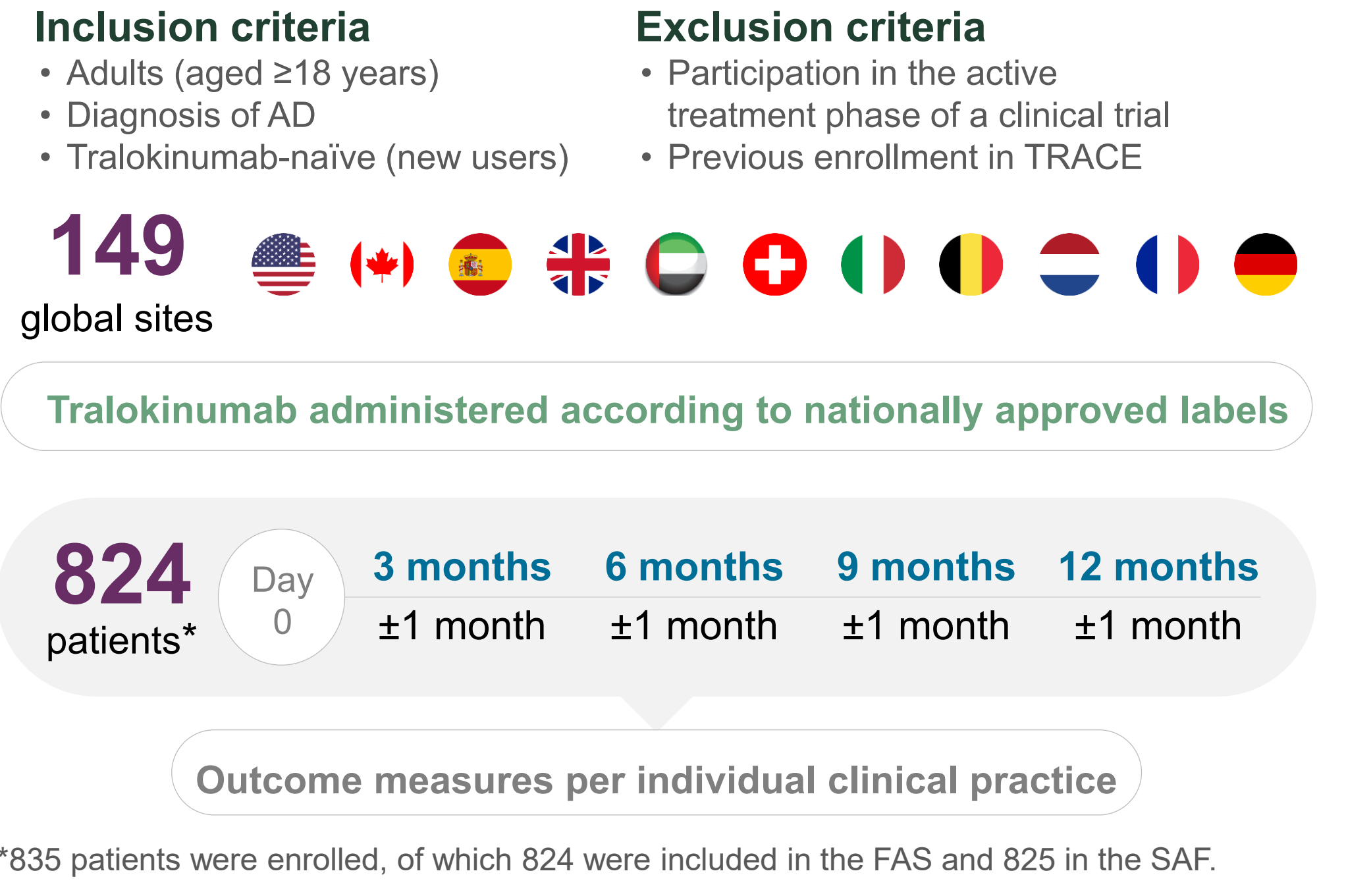
## Background

- AD is a chronic and burdensome skin disease which significantly impacts patients' quality of life<sup>1,2</sup>
- For patients with moderate-to-severe AD, minimizing safety risks is a key treatment priority<sup>1,2</sup>
- Tralokinumab is a monoclonal antibody targeting interleukin-13, indicated for the treatment of moderate-to-severe AD, and has demonstrated efficacy and tolerability in Phase 3 clinical trials<sup>3-5</sup>
- Knowledge of the effectiveness and safety profile of tralokinumab in larger real-world cohorts is limited
- This study evaluates the safety, including predefined adverse events (AEs) of special interest (AESI), and effectiveness in patients with AD treated with tralokinumab for up to 12 months in a real-world setting

## Methods

- TRACE is a prospective, non-interventional, international, single-cohort study of adults with AD who were prescribed tralokinumab per national approved label at treating physician's discretion (**Figure 1**)
  - 824 patients comprised the full analysis set and 825 comprised the safety analysis set
  - Patient baseline characteristics are shown in **Table 1**
- Safety outcomes included AEs and 2 predefined AESIs, namely conjunctivitis and major adverse cardiovascular events (MACE)
- Effectiveness outcomes measured per individual clinical practice included: Investigator Global Assessment (IGA), Eczema Area and Severity Index (EASI), and Scoring Atopic Dermatitis (SCORAD)
  - 2 composite clinical responder definitions were used:
    - Composite responder definition 1 (CR1): Patients achieving IGA 0/1 **or** EASI-75 **or** SCORAD < 10
    - Composite responder definition 2 (CR2): Patients achieving IGA 0/1 **or** EASI ≤ 7 **or** SCORAD < 10

**Figure 1** TRACE study design



**Table 1** Baseline characteristics

Baseline demographics		N=824
<b>Mean age, years (SD)</b>		44.1 (17.9)
<b>Female sex, n (%)</b>		392 (47.6)
<b>Race</b>		
White		624 (75.7)
Asian		44 (5.3)
Unknown*		71 (8.6)
Other†		85 (10.3)
Disease duration and prior systemic treatments		N=824
<b>Duration of AD (n=814), mean (SD), years</b>		18.8 (17.7)
<b>Prior systemic treatment, n (%)</b>		824 (100)
Systemic and biologic naïve		358 (43.4)
Systemic user but biologic naïve		261 (31.7)
Biologic user with one or more failures		173 (21.0)
Biologic user without failure		32 (3.9)

\*Includes unknown, not available, and not reported values. †Includes American Indian/Alaska Native, Black/African American, Native Hawaiian/Pacific Islander, multiple races, and other.

## Conclusions

- Tralokinumab treatment for up to 12 months was well-tolerated and effective in adults with AD in a real-world setting
- No new safety signals were identified with tralokinumab treatment in a real-world setting
- Conjunctivitis, a predefined AESI, was reported in less than 5% of patients and most conjunctivitis events were mild or moderate
- These findings reinforce the favorable benefit-risk profile of tralokinumab for moderate-to-severe AD

## Results

### Adverse events (AEs)

- 232 patients (28.1%) had at least 1 AE (**Table 2**)
- 132 patients (16.0%) had AEs that were assessed as possibly related to tralokinumab by the investigator
- Most AEs were non-serious and of mild or moderate severity (**Table 2**)
- The most frequently reported AEs (≥2% of patients) were:
  - 'Conjunctivitis' (4.4%)
  - 'Injection site reaction' (2.3%)

### Serious adverse events (SAEs)

- SAEs were reported infrequently (27 events in 19 patients, 2.3%) (**Table 2**)
  - 3 deaths were reported, all assessed as not related to tralokinumab by the investigator
- No clustering of SAE types was observed
- All SAEs were assessed as not related to tralokinumab by the investigator, except for 1 event of 'eczema herpeticum' which was considered possibly related to tralokinumab
- Most SAEs had resolved or were resolving at the end of the study

### Adverse events of special interest (AESIs)

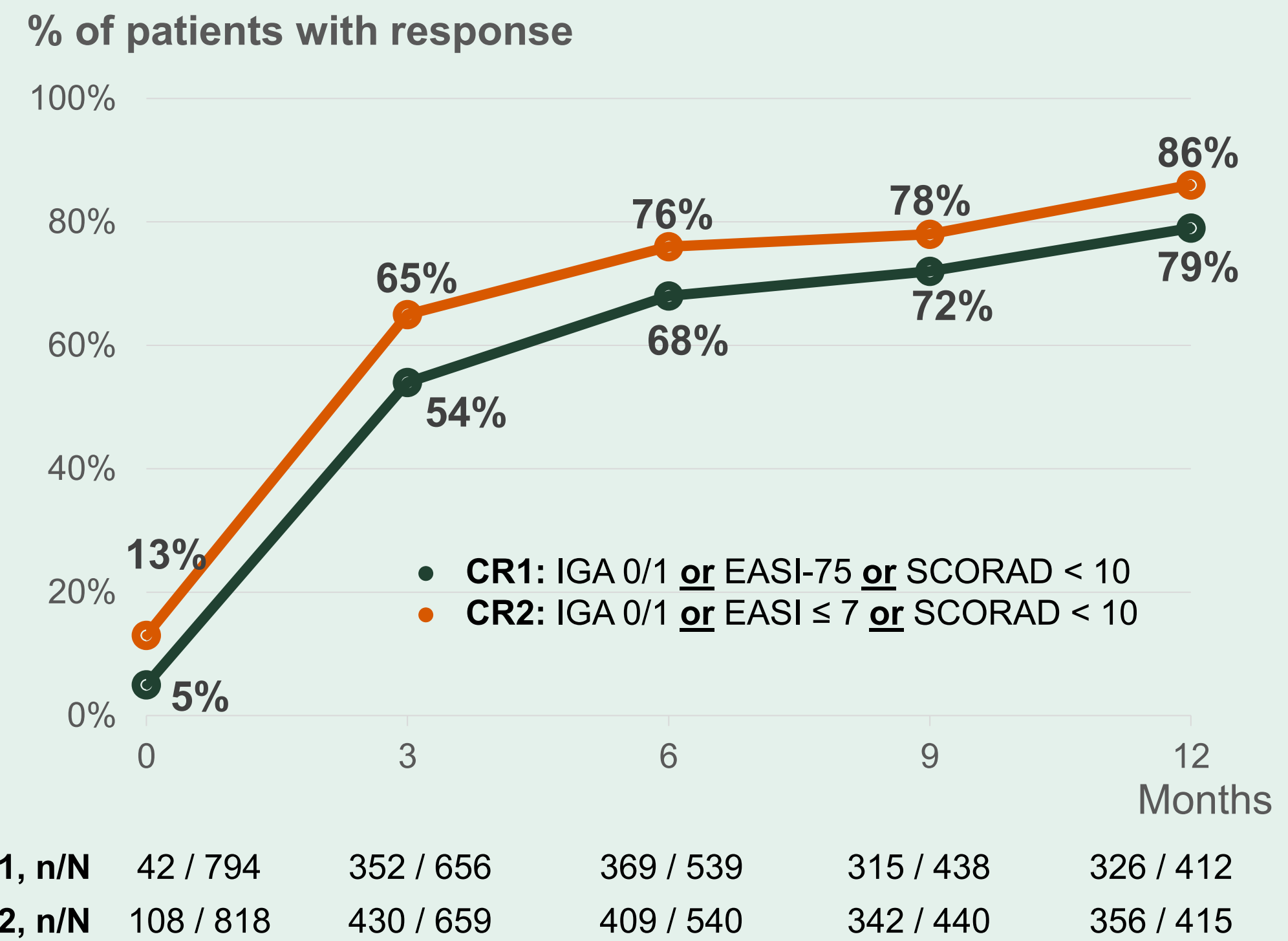
- Conjunctivitis:**
  - 40 events of 'conjunctivitis' were reported in 36 patients (4.4%) (**Table 2**)
    - None of the 40 events were serious
    - 37 of the events were mild or moderate in severity; 3 events were severe
    - 33 of the 40 events were assessed as possibly related to tralokinumab
    - In 4 patients (0.5%), conjunctivitis led to withdrawal of tralokinumab treatment
- Major adverse cardiovascular events (MACE):**
  - MACE were reported in 5 patients with 5 events (**Table 2**):
    - 3 events of myocardial infarction;
    - 2 events of central nervous system hemorrhage and cerebrovascular conditions
  - None of these events were assessed as related to tralokinumab

**Table 2** Summary of adverse events, 52 weeks of treatment in the TRACE study

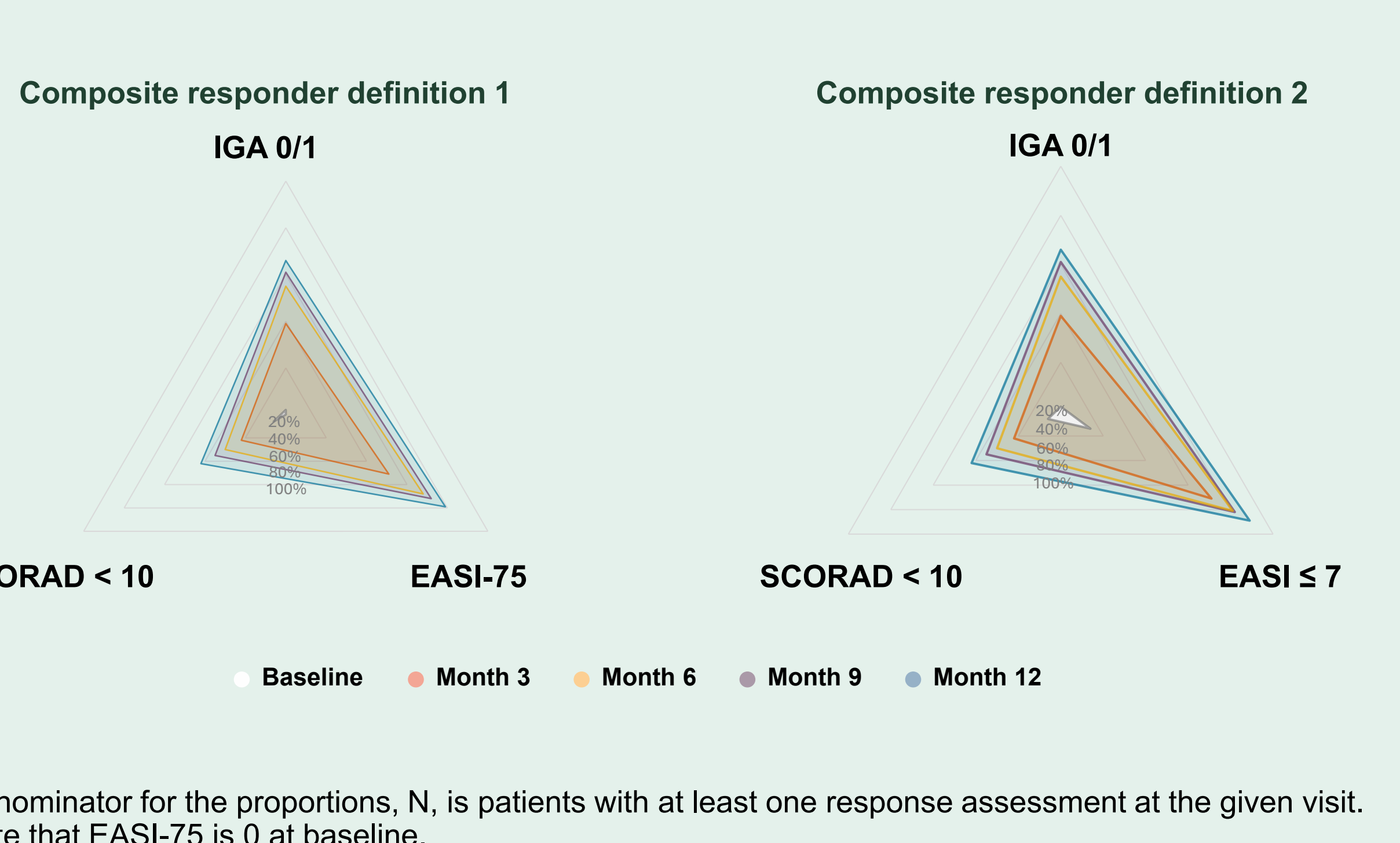
	N=825
<b>Patients with at least 1 AE, n (%)</b>	232 (28.1)
<b>Patients with at least 1 SAE, n (%)</b>	19 (2.3)
Death, n (%) <sup>a</sup>	3 (0.4)
<b>Severity</b>	
Mild, n (%)	158 (19.2)
Moderate, n (%)	98 (11.9)
Severe, n (%)	23 (2.8)
<b>Related to tralokinumab<sup>b</sup></b>	132 (16.0)
<b>AEs leading to treatment discontinuation</b>	32 (3.9)
<b>Most frequently reported preferred terms (in ≥2% of patients)</b>	
Conjunctivitis, n (%)	36 (4.4)
Injection site reaction, n (%)	19 (2.3)
<b>AESIs</b>	
Conjunctivitis, n (%)	36 (4.4)
MACE, n (%)	5 (0.6)

<sup>a</sup>Myocardial infarction, 'death', and 'pancreatic carcinoma' all assessed as not related to tralokinumab  
<sup>b</sup>Related AEs are defined as AEs assessed as possibly related by the investigator

**Figure 2** Changes in composite response: baseline to month 12



**Figure 3.** Attainment in components of the composite response over 12-months



Abbreviations AD, atopic dermatitis; AE, adverse event; AESI, adverse event of special interest; SAE, serious adverse event; EASI, Eczema Area and Severity Index; EASI-75, at least 75% reduction in EASI score from baseline; FAS, full analysis set; IGA, Investigator's Global Assessment; n, number of subjects with observation; N, number of patients in analysis set (or subset); MACE, major adverse cardiovascular event; SAF, safety analysis set; SCORAD, Scoring Atopic Dermatitis, SD, standard deviation.

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