Distribution of SALT scores with ritlecitinib treatment up to 24 months from the ALLEGRO phase 2b/3 and long-term phase 3 clinical studies in alopecia areata

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BACKGROUND

- Alopecia areata (AA) is an autoimmune disease that has an underlying immuno-inflammatory pathogenesis and is characterized by non-scarring hair loss ranging from small patches to complete scalp, face, and/or body hair loss¹
- Ritlecitinib, an oral JAK3/TEC family kinase inhibitor, demonstrated efficacy and safety up to 48 weeks in patients aged ≥12 years with AA in the ALLEGRO phase 2b/3 study (NCT03732807; "ALLEGRO-2b/3")²
- The long-term efficacy of ritlecitinib in patients who rolled over from ALLEGRO-2b/3 to the ongoing phase 3, open-label ALLEGRO-LT study (NCT04006457) has been reported in terms of the proportions of patients with Severity of Alopecia Tool (SALT) scores of \leq 20 and \leq 10 (\leq 20% or \leq 10% scalp without hair) at Month 24³
- However, the distribution of SALT scores in the overall population, including patients not reaching the SALT score ≤20 and ≤10 thresholds, has not yet been described

OBJECTIVE

• This study describes changes in the distribution of SALT scores over 24 months of ritlecitinib treatment in the overall population and in age and disease severity subgroups

METHODS

Study design and patients

- Key inclusion criteria in ALLEGRO-2b/3:
- Discussion of A A with a
- Diagnosis of AA with ≥50% scalp hair loss due to AA (including alopecia totalis [AT] and alopecia universalis [AU])
 Maximum duration of current episode of hair loss ≤10 years

 This analysis includes nationts who received ritlesitinib 50 mg once daily (OD) without a leading decision.
- This analysis includes patients who received ritlecitinib 50 mg once daily (QD) without a loading dose in ALLEGRO-2b/3 and who subsequently rolled over into ALLEGRO-LT where they continued to receive ritlecitinib 50 mg QD (**Figure 1**)
- Continuation criteria for adolescents (aged 12-17 years) in ALLEGRO-LT: ≥50% improvement from baseline in SALT score by Month 3 for rollover patients from ALLEGRO-2b/3 and SALT score ≤20 by Month 6 in ALLEGRO-LT

Figure 1. Study design and patient population

	ALLEGRO phase 2b/3				ALLEGRO-LT			
	Loading (4 weeks)	Maintenance (20 weeks)	Extension (24 weeks)		Long-term study (60 months)			
Group A (n=131)	200 mg	50 mg	50 mg		50 mg			
Group B (n=129)	200 mg	30 mg	30 mg		50 mg			
Group C (n=130)	50 mg	50 mg	50 mg		50 mg			
Group D (n=132)	30 mg	30 mg	30 mg		50 mg			Combined
Group E (n=61)	10 mg	10 mg	10 mg		50 mg		 	ritlecitinib 50 mg group
Group F (n=63)	Placebo	Placebo	200 mg	50 mg	50	mg	(N=191)	
Group G* (n=61)	Placebo	Placebo	50 mg		50 mg			
	De novo group (n=447)				200 mg	50 mg		

*Data while on placebo were not included in this analysis; data from patients in Groub G were rebaselined from the start of treatment with ritlecitinib.

Assessments and statistical analysis

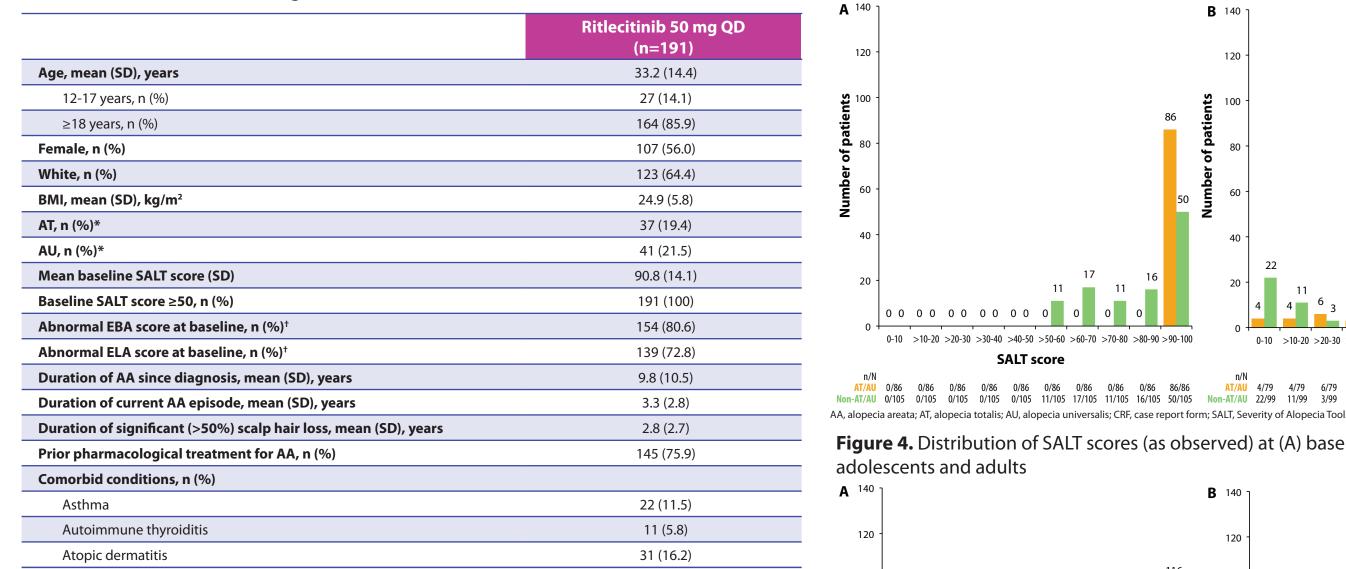
- The distribution of patients according to SALT score (as observed) was assessed through Month 24 for the overall population and subgroups based on age (adults [≥18 years] vs adolescents [12-17 years]) and disease severity (patients with AT/AU vs those without AT/AU)
- The data cutoff date was December 9, 2022

RESULTS

- The analysis included 191 patients (27 adolescents and 164 adults) (Table 1)
- At the time of data cutoff, 71 patients had discontinued; withdrawal by patient (n=19), adverse events (n=18), and lack of efficacy (n=14) were the most common reasons for discontinuation
- The distribution of participants by SALT score (as observed) at baseline, Month 12, and Month 24 are presented for the overall population (Figure 2) (Interactive dynamic plot)
- Per the inclusion criteria, all participants had a SALT score of ≥50 at baseline;
 136/191 patients (71.2%) had SALT >90
- Among patients who had a nonmissing SALT score, 56/178 (31.5%), 37/164 (22.6%), and 17/120 (14.2%) were in the SALT >90-100 category at Months 6, 12, and 24, respectively
- Reductions in the number of patients in the other SALT >50 categories were observed from baseline through Month 24
- At Month 12, 56/164 (34.2%) and 18/164 (11.0%) patients were in the SALT 0-10 and >10-20 categories, respectively, with 61/120 (50.8%) and 12/120 (10.0%) patients in these categories at Month 24
- Among the patients with AT/AU at baseline, 18/69 (26.1%) and 6/69 (8.7%) were in the SALT 0-10 and >10-20 categories, respectively, at Month 12; 25/47 (53.2%) and 3/47 (6.4%) were in these categories, respectively, at Month 24 (Figure 3) (Interactive dynamic plot)
- For the adolescent participants, 10/22 (45.5%) and 4/22 (18.2%) were in the SALT 0-10 and >10-20 categories, respectively, at Month 12, and 11/14 (78.6%) and 0/14 (0%) were in these categories at Month 24 (**Figure 4**) (Interactive dynamic plot)

REFERENCES

Table 1. Baseline demographic and disease characteristics in rollover patients treated with ritlecitinib 50 mg QD

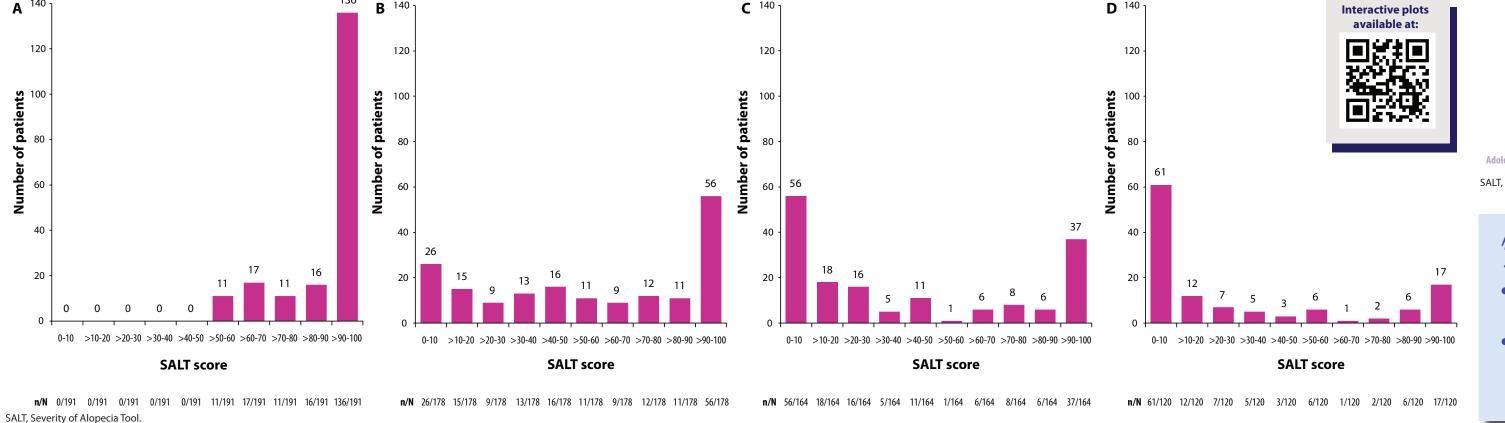


AA, alopecia areata; AT, alopecia totalis; AU, alopecia universalis; BMI, body mass index; EBA, eyebrow assessment; ELA, eyelash assessment; QD, once daily; SALT, Severity of Alopecia Tool.

*Participants in the AT and AU categories had a SALT score of 100 (complete scalp hair loss) at baseline and a clinical diagnosis of AT or AU by the investigator. †An abnormal EBA

20 (10.5)

Figure 2. Distribution of SALT scores (as observed) at (A) baseline, (B) Month 6, (C) Month 12, and (D) Month 24 for patients receiving ritlecitinib 50 mg



DISCLOSURES

Allergic rhinitis

Figure 3. Distribution of SALT scores (as observed) at (A) baseline, (B) Month 6, (C) Month 12, and (D) Month 24 for patients receiving ritlecitinib 50 mg QD stratified by baseline non-AT/AU or AT/AU* status

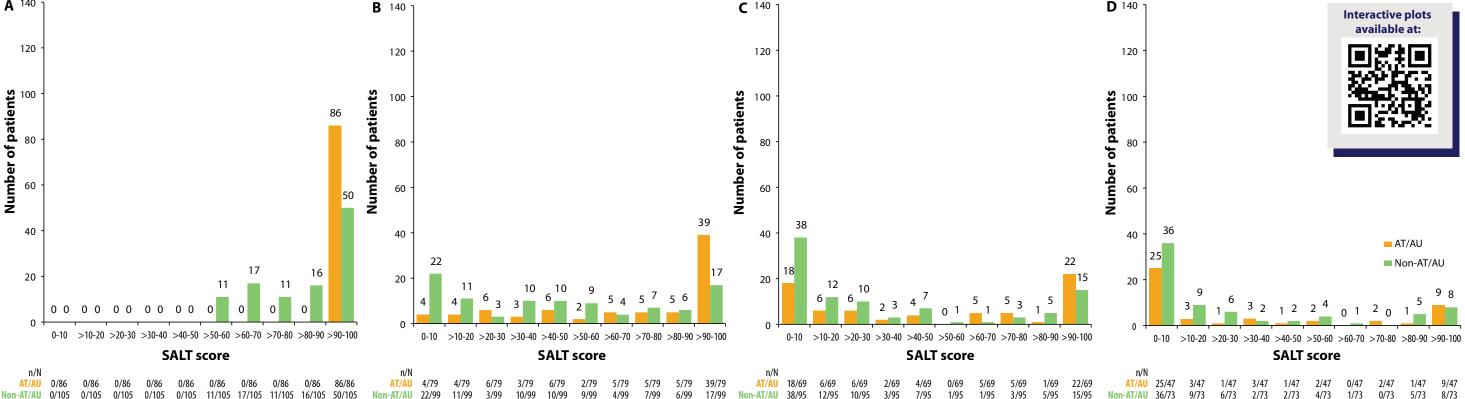
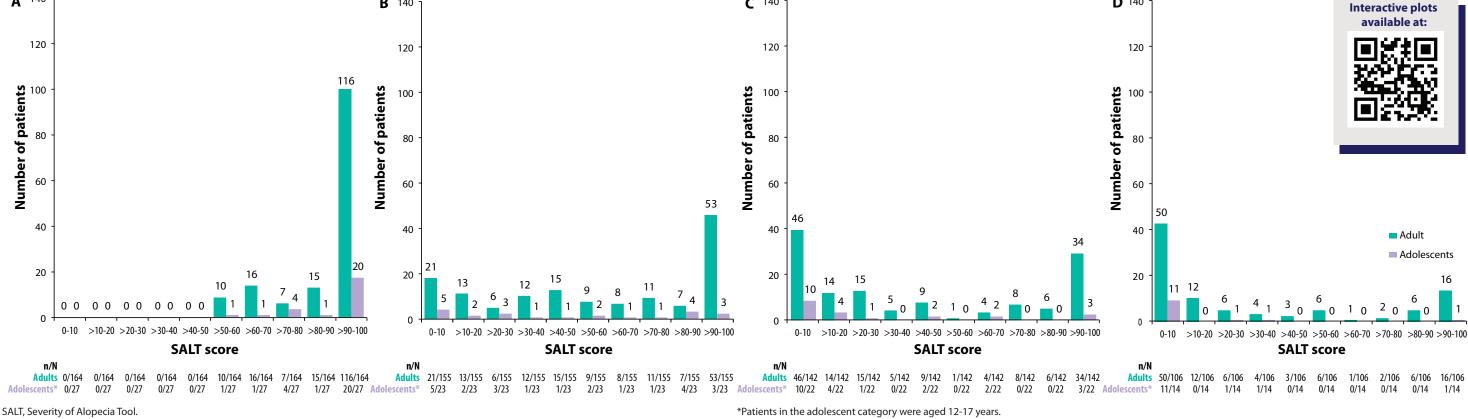


Figure 4. Distribution of SALT scores (as observed) at (A) baseline, (B) Month 6, (C) Month 12, and (D) Month 24 for patients receiving ritlecitinib 50 mg QD stratified by adolescents and adults



CONCLUSIONS

- Over 24 months, daily treatment with ritlecitinib 50 mg resulted in fewer patients in the highest SALT score categories
- These data provide a comprehensive overview of patient response to ritlecitinib treatment and enable us to understand treatment response and time frames while on treatment with ritlecitinib
- This information can empower clinicians when counseling patients and managing treatment expectations based on patient characteristics

*Participants in the AT/AU category had a SALT score of 100% at baseline (regardless of the category in the AA history CRF).

 This study also shows that response to treatment improves over time, which suggests that adequate time should be given when assessing treatment efficacy



