Agreement Between Patient and Physician Assessment of Eyebrow and Eyelash Hair Loss in Two Phase 3 Trials Evaluating **Baricitinib in Patients With** Severe Alopecia Areata

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OBJECTIVE

To determine the level of agreement between the PRO and ClinRO measures for the assessment of eyebrow and eyelash hair loss over 52 weeks

CONCLUSIONS

- These analyses showed strong positive correlation between the ClinRO and PRO measures for the assessment of eyebrow/eyelash hair loss
- This indicates high levels of agreement between clinicians and patients on assessments of hair loss and perception of regrowth during treatment when using these instruments



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from ≥1 bald patches to total scalp hair loss or total body hair loss¹ Baricitinib, an oral selective JAK inhibitor.

BACKGROUND

has demonstrated efficacy in patients with severe AA in 2 Phase 2/3, randomized, double-blind, placebo-controlled trials, BRAVE-AA1 (NCT035707492) and BRAVE-AA2 (NCT03899259³), and is approved for the treatment of severe AA in the USA, Europe, and Japan

AA is an autoimmune disease characterized

by unpredictable hair loss that can range

- Eyebrow and eyelash hair loss is an important manifestation of AA
- To allow proper assessment of eyebrow and eyelash involvement in clinical trials, ClinRO and PRO measures were developed and included in the baricitinib Phase 3 program⁴

STUDY DESIGN^a

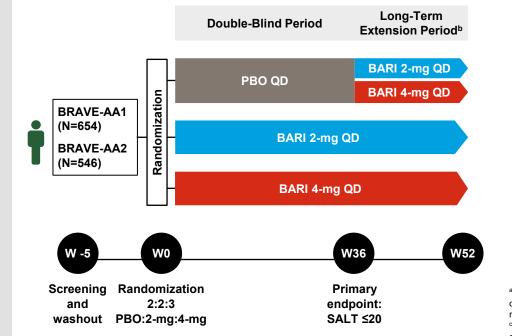


Figure is not the full study design; only the first year of both trials is shown; b Patients randomized to

Key Eligibility Criteria: BRAVE-AA1 and **BRAVE-AA2**

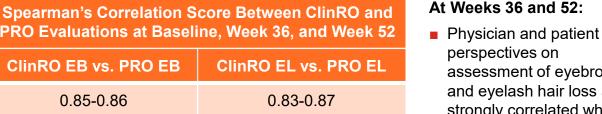
Inclusion

- Age ≥18 years to ≤60 years (males) or ≤70 years (females)^a
- Severe or very severe AA
- Hair loss involving ≥50% of the scalp, as measured by
- Current episode of AA lasting >6 months to <8 years^b
- No spontaneous improvement in the 6 months before screening

Exclusion

- Primarily "diffuse" type of AA
- Concomitant treatments for AAc

a Different upper age limits have been included for male and female patients based on the difference in prevalence of concomitant androgenetic alopecia; ^b Patients who had AA for ≥8 years could be enrolled if episodes of regrowth, spontaneous or under treatment, had been observed on the affected areas over the past 8 years Not permitted: Topical corticosteroids within 1 week prior to randomization; topical JAK inhibitor, diphenylcyclopropenone, or other topical immunotherapies within 4 weeks prior to randomization; systemic within 8 weeks prior to randomization; monoclonal antibody <5 half-lives prior to randomization; probenecid at the time of randomization. Oral/topical minoxidil or finasteride was permitted if on stable dose for 12 months, and bimatoprost ophthalmic solution was allowed if on stable dose for 8 weeks



Correlation Analyses of PRO and ClinRO

Measurement of Eyebrows and Eyelashes

Spearman's correlation scores between the ClinRO and PRO

Spearman's correlation scores between the ClinRO and PRO

Summary of Agreement Between ≥2-Point

and ≥1-Point Improvement of Eyebrow or

Eyelash PRO and ClinRO Assessments at

At Week 36, there was an 89% and 90% agreement between ClinRO

respectively, for eyebrow and eyelash. At Week 52, these proportions

respectively, for eyebrow and eyelash. At Week 52, these proportions

and PRO evaluations of a ≥2-point improvement from baseline,

At Week 36, there was 77% and 78% agreement between ClinRO

and PRO evaluations of a ≥1-point improvement from baseline,

were 77% and 76% for eyebrow and eyelash, respectively

measures on eyebrow ranged from 0.85 to 0.86

measures on eyelash ranged from 0.83 to 0.87

Week 36 and Week 52

Week 36

. King B, et al. N Engl J Med. 2022;386:1687-1699.

Wyrwich KW, et al. Am J Clin Dermatol. 2020;21:725-732.

Eyebrow

Eyelash

were 87% for both eyebrow and eyelash

Improvement	Agreement Between ClinRO and PRO Evaluations at Week 36 and Week 52	
From Baseline	EB	EL
≥2 points	87%-89%	87%-90%
≥1 point	~77%	76%-78%

strong positive correlation

SUMMARY OF KEY FINDINGS

- assessment of eyebrow and eyelash hair loss are strongly correlated when using these instruments
- The agreement between ClinRO and PRO evaluations of a ≥2-point improvement from baseline for eyebrow and eyelash was ~90%
- The agreement between ClinRO and PRO evaluations of a ≥1-point improvement from baseline for eyebrow and eyelash was ~80%

0.86

≥1-Point Improvement

/ 22.9<mark>%</mark>

/ 22.8<mark>%</mark>

Week 36

Methods

Statistical Analyses

available

Eyebrow and eyelash hair loss was

physicians, at every visit, using the

PRO and ClinRO measures, with

absolute PRO measures with each

respective ClinRO measure for

eyebrow/eyelash were calculated

for baseline, Week 36, and Week

■ Agreement on the ≥2-point and

≥1-point improvements from

baseline assessments between

Weeks 36 and 52 was evaluated

Observed data from across 3 arms

to-Treat population were used

for each time point from the Intent-

PRO and ClinRO measures at

Analyses were conducted among

patients who had all scores

Spearman's correlations of

52 assessments

assessed by patients and

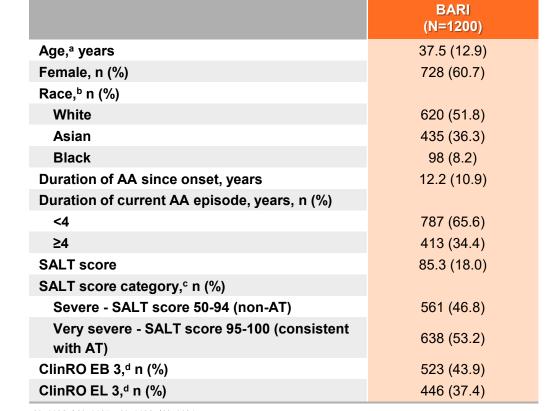
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ClinRO Measures for Eyebrow and Eyelash Hair Loss™ and PRO Measures for Eyebrows and Eyelashes^{TM4}

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	ClinRO Measure for Eyebrow Hair Loss ^a		PRO Measure for Eyebrows ^b	Example Photo Guides		
0	The eyebrows have full coverage and no areas of hair loss	0	I have full eyebrows on each eye			
1	There are minimal gaps in eyebrow hair and distribution is even	1	I have a minimal gap(s) or a minimal amount of thinning in at least one of my eyebrows	1		
2	There are significant gaps in eyebrow hair or distribution is not even	2	I have a large gap(s) or a large amount of thinning in at least one of my eyebrows	2		
3	No notable eyebrow hair	3	I have no or barely any eyebrow hairs			
	ClinRO Measure for Eyelash Hair Loss ^a		PRO Measure for Eyelashes ^b			
0	The eyelashes form a continuous line along the eyelids on both eyes	0	I have full eyelashes on each eyelid			
1	There are minimal gaps and the eyelashes are evenly spaced along the eyelids on both eyes	1	I have a minimal gap or minimal gaps along the eyelids			
2	There are significant gaps along the eyelids or the eyelashes are not evenly spaced along the eyelids	2	I have a large gap or large gaps along the eyelids	2		
3	No notable eyelashes	3	I have no or barely any eyelash hair			

^a Should examine both eyebrows from 2 feet away; ^b Should examine the upper and lower eyelashes of both eyes Both the PRO and ClinRO measures are supported by photoguides, which are subject to copyright owned by Eli Lilly and Company. Permission to use is granted under Creative Commons Attribution-No Derivatives 4.0 International License (https://creativecommons.org/licenses/by-nc/4.0/)

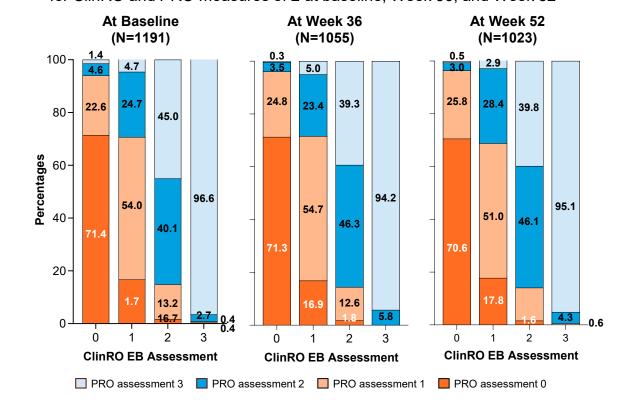
Results **Demographics and Baseline Characteristics**



Notes: Data are mean (SD) unless stated otherwise. Data represent baseline characteristics of the pooled Week 36

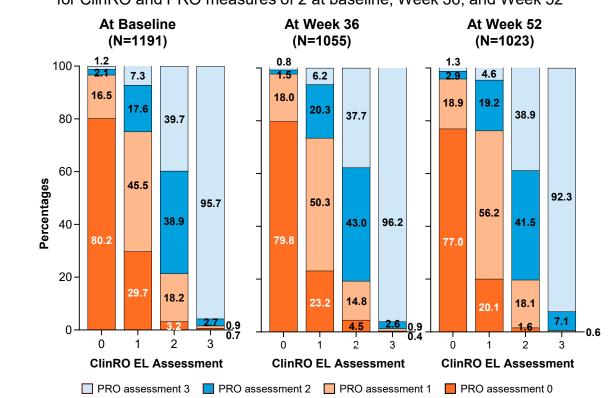
Concordance of ClinRO and PRO on Evebrow Assessment at Baseline, Week 36, and Week 52

- The highest concordance between ClinRO and PRO on eyebrow assessments was observed for measures of 0 and 3 at baseline, Week 36, and Week 52
- Concordance between ClinRO and PRO on eyebrow assessment was lowest for ClinRO and PRO measures of 2 at baseline, Week 36, and Week 52



Concordance of ClinRO and PRO on Eyelash Assessment at Baseline, Week 36, and Week 52

- The highest concordance between ClinRO and PRO on evelash assessments was observed for measures of 0 and 3 at baseline, Week 36, and Week 52
- Concordance between ClinRO and PRO on eyelash assessment was lowest for ClinRO and PRO measures of 2 at baseline, Week 36, and Week 52



Week 36 Week 52 Week 36 (N=1049 Abbreviations: AA=alopecia areata; AT=alopecia I. Mesinkovska N, et al. J Investig Dermatol Symp Proc. 2020:20:S62-S68 outcome; EB=eyebrow; EL=eyelash; JAK=Janus 2. King B, et al. J Am Acad Dermatol. 2021;85:847-853.

Week 52

(N=1017)

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kinase: PBO=placebo: PRO=patient-reported outcome

QD=once daily; SALT=Severity of Alopecia Tool;

SD=standard deviation: W=Weel

Week 52