# Early Achievement of 3- and 6-Month Treat-To-Target Goals After 4 Weeks of Abrocitinib Monotherapy in Patients With Moderate-to-Severe Atopic Dermatitis: A Post Hoc Analysis

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# BACKGROUND

- A treat-to-target strategy proposed by experts for adults with moderate-to-severe atopic dermatitis (AD) suggests that treatment target goals at 3 months should be a  $\geq$ 1-point improvement in patient global assessment (PtGA) score and at least 1 of the following improvements<sup>1</sup>:
- ≥50% in Eczema Area and Severity Index (EASI-50)
- $\geq 50\%$  in SCORing Atopic Dermatitis (SCORAD-50)
- $\geq 3$  points in Peak Pruritus Numerical Rating Scale (PP-NRS3)  $- \geq 4$  points in Dermatology Life Quality Index (DLQI4)  $- \geq 4$  points in Patient-Oriented Eczema Measure (POEM4)
- At 6 months, the proposed treat-to-target goals are a PtGA score of  $\leq 2$  and at least 1 of the following<sup>1</sup>: EASI-75 or EASI ≤7
- SCORAD-75 or SCORAD ≤24
- PP-NRS ≤4
- DLQI ≤5
- POEM ≤7
- Treatment continuation should be considered if the respective PtGA target goal plus at least 1 disease domain target goal is attained<sup>1</sup>
- Findings from clinical trials indicate that treatment with abrocitinib, an oral, once-daily, Janus kinase 1-selective inhibitor, is associated with a rapid improvement in multiple clinical domains<sup>2</sup>
- A strong early response may be a predictor of a later response, as well as of treatment adherence

### **OBJECTIVES**

- To estimate the proportions of patients with moderate-to-severe AD who attained 3-month and 6-month treat-to-target goals after only 4 weeks of abrocitinib monotherapy
- To assess itch relief at Week 4 of abrocitinib monotherapy

# **METHODS**

### **Study Design**

• Data were pooled from the JADE pivotal phase 3 clinical trials JADE MONO-1 (NCT03349060)<sup>3</sup> and JADE MONO-2 (NCT03575871),<sup>4</sup> in which patients with moderate-to-severe AD aged  $\geq$ 12 years were treated with abrocitinib (200 or 100 mg/day) or placebo (**Figure 1**)

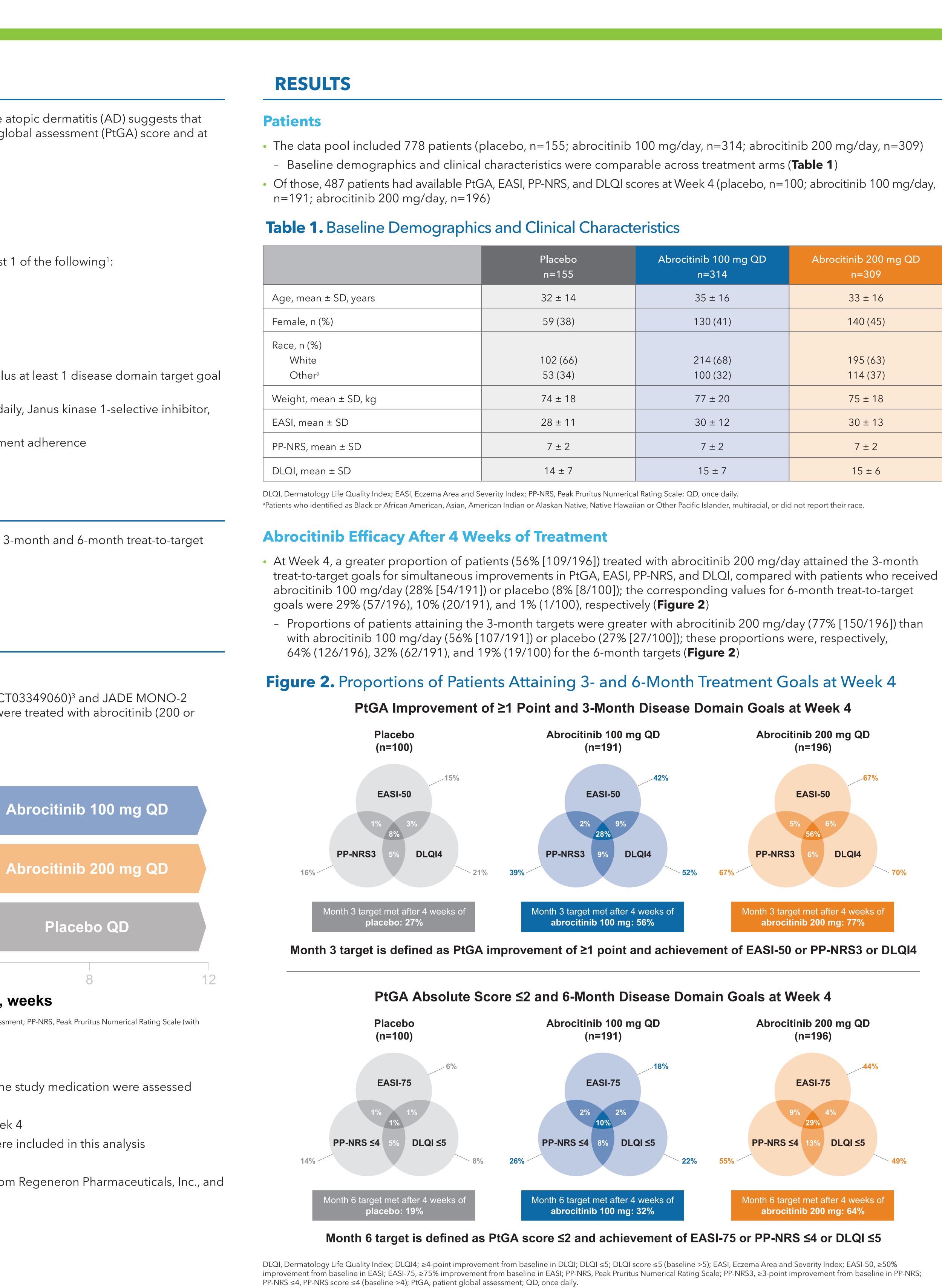
### **Figure 1.** JADE MONO-1 and JADE MONO-2 Study Design

Abrocitinib 100 mg QD **Eligibility Criteria**  Adolescent and adult patients (≥12 years) with AD ≥1 year Abrocitinib Moderate-to-severe AD (IGA ≥3, EASI ≥16, %BSA affected ≥10, PP-NRS ≥4) 200 mg QD Inadequate response or intolerance to topical medication or requiring systemic therapy to control AD Placebo QD Time, weeks

%BSA, percentage of body surface area; AD, atopic dermatitis; EASI, Eczema Area and Severity Index; IGA, Investigator's Global Assessment; PP-NRS, Peak Pruritus Numerical Rating Scale (with permission from Regeneron Pharmaceuticals, Inc., and Sanofi); QD, once daily.

### **Assessments and Statistical Analysis**

- In this post hoc analysis, all randomized patients who received at least 1 dose of the study medication were assessed
- Assessments included:
- Proportions of patients attaining the 3- and 6-month treat-to-target goals at Week 4 • Only patients with available PtGA, EASI, PP-NRS, and DLQI data at Week 4 were included in this analysis
- Data are presented as observed and using descriptive statistics
- Least squares mean changes from baseline in PP-NRS score (with permission from Regeneron Pharmaceuticals, Inc., and Sanofi) were analyzed using a mixed-effects model with repeated measures



Data reported as observed; includes patients with available PtGA, EASI, PP-NRS, and DLQI scores at Week 4.

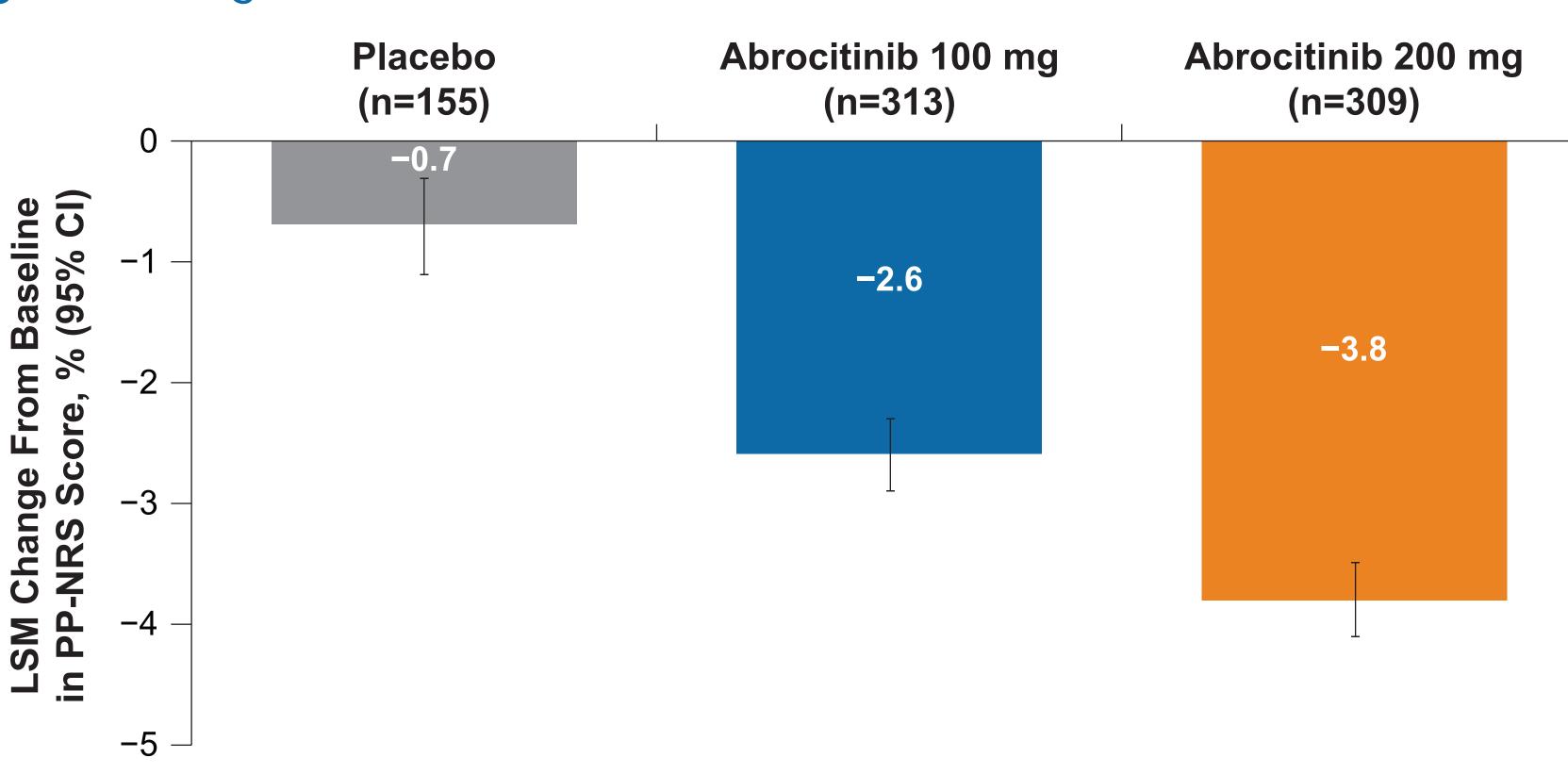
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Abrocitinib 100 mg QD n=314	Abrocitinib 200 mg QD n=309
35 ± 16	33 ± 16
130 (41)	140 (45)
214 (68) 100 (32)	195 (63) 114 (37)
77 ± 20	75 ± 18
30 ± 12	30 ± 13
7 ± 2	7 ± 2
15 ± 7	15 ± 6

### **Itch Relief After 4 Weeks of Abrocitinib Treatment**

abrocitinib 100 mg/day or placebo (**Figure 3**)

# **Figure 3.** Changes in PP-NRS From Baseline to Week 4



LSM, least squares mean; MMRM, mixed-effects model with repeated measures; PP-NRS, Peak Pruritus Numerical Rating Scale. Mean PP-NRS  $\pm$  SD at baseline was 7  $\pm$  2 for all treatment arms. All randomized patients who received at least 1 dose of the study medication were assessed. MMRM contained fixed factors of treatment, week, treatment-by-week interaction, study, baseline disease severity, age category and baseline value and unstructured covariance matrix or compound symmetry covariance matrix.

# CONCLUSIONS

# REFERENCES

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- 4. Silverberg JI et al. JAMA Dermatol. 2020;156:863-873.

# ACKNOWLEDGMENTS

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• Greater improvements in PP-NRS change from baseline to Week 4 were observed with abrocitinib 200 mg/day than with

• As early as Week 4, a substantial proportion of patients treated with abrocitinib 200 mg or 100 mg monotherapy attained proposed 3-month and 6-month improvement goals in skin lesions, pruritus, and dermatology-related quality of life • Improvements in itch severity were greater with abrocitinib 200 mg and abrocitinib 100 mg than with placebo at Week 4 • These data suggest that abrocitinib treatment provides rapid relief of signs and symptoms across several clinical domains Moreover, currently proposed 3-month and 6-month treatment goals for patients with moderate-to-severe AD could be achieved far earlier with abrocitinib, thus enabling early clinical response assessment

1. De Bruin-Weller M et al. Acta Dermatol Venereol. 2021;101:1068. 2. De Bruin-Weller M et al. Br J Dermatol. 2022;186:e171. Abstract 684.

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