

Short-Term Efficacy and Safety of Abrocitinib by Baseline Disease Severity in Patients With Moderate-to-Severe Atopic Dermatitis

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BACKGROUND

- Atopic dermatitis (AD) is a chronic inflammatory skin disease associated with substantial patient burden that increases with greater disease severity^{1,2}
 - Despite treatment with systemic therapies, patients with moderate or severe AD often report significantly worse outcomes than patients with mild AD, including severe itch, pain, and greater impact on quality of life
- There is a need for more effective therapies in patients with moderate or severe disease
- Abrocitinib is an oral, once-daily, Janus kinase 1-selective inhibitor approved for the treatment of adults and adolescents with moderate-to-severe AD^{3,5}
- Abrocitinib was efficacious and well tolerated in patients when administered as monotherapy or in combination with background topical therapy in multiple phase 3 clinical trials⁶⁻⁸

OBJECTIVE

- To evaluate the efficacy and safety of abrocitinib in patients with moderate-to-severe AD classified by baseline disease severity

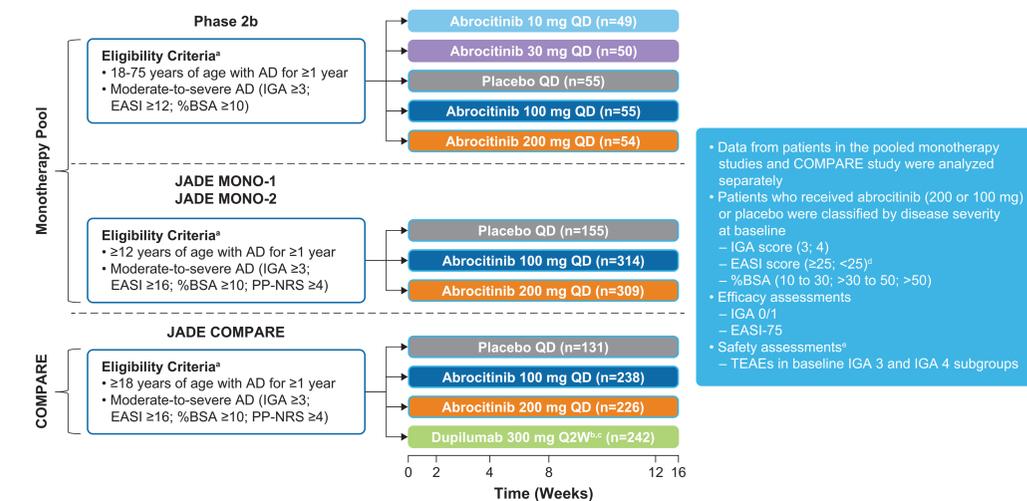
METHODS

Study Design and Assessments

- Data were analyzed post hoc from clinical trials with abrocitinib administered as monotherapy (pooled phase 2b [NCT02780167] and phase 3 JADE MONO-1 [NCT03349060] and JADE MONO-2 [NCT03575871]) or in combination with topical therapy (JADE COMPARE; NCT03720470)

- The study designs and assessments are shown in **Figure 1**

Figure 1. Study Designs and Assessments



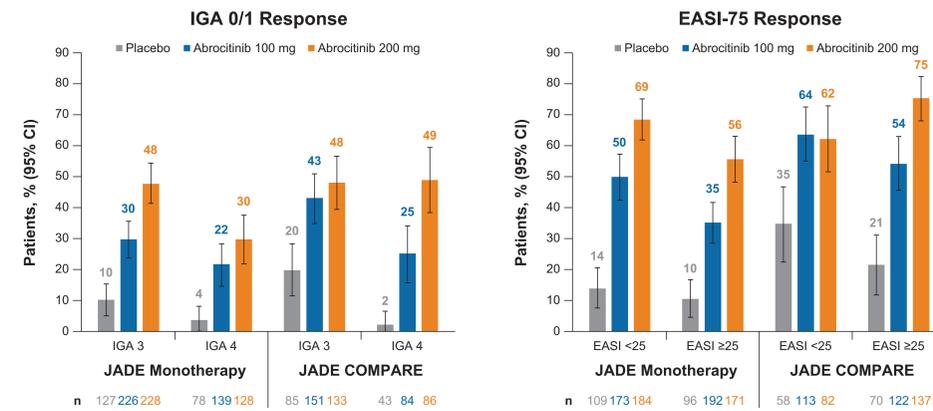
*%BSA, percentage of body surface area; AD, atopic dermatitis; EASI, Eczema Area and Surface Index; EASI-75, ≥75% improvement on the EASI; IGA, Investigator's Global Assessment; IGA 0/1, IGA score of 0 (clear) or 1 (almost clear) with a ≥2-point improvement from baseline; IGA 3, IGA score of 3 (moderate); IGA 4, IGA score of 4 (severe); PP-NRS, Peak Pruritus Numerical Rating Scale (used with permission from Regeneron Pharmaceuticals, Inc., and Sanofi); Q2W, once every 2 weeks; QD, once daily; TEAE, treatment-emergent adverse event.
^aInadequate response or intolerance to topical medication or requirement for systemic therapy to control AD.
^bActive control arm; data not included in this analysis.
^cAfter a 600-mg loading dose of subcutaneous dupilumab.
^dThe mean baseline EASI score for the monotherapy pool was 25.
^eThe safety analysis also included patients from the JADE REGIMEN (NCT03627767; open-label phase) and JADE EXTEND (NCT03422822; April 2020 data cut) studies.

RESULTS

Efficacy

- In both the JADE monotherapy and the JADE COMPARE populations, a greater proportion of patients achieved IGA 0/1 or EASI-75 responses with abrocitinib 200 mg and abrocitinib 100 mg compared with placebo at week 12 across all subgroups of disease severity as classified by baseline IGA or EASI scores (**Figure 2**)

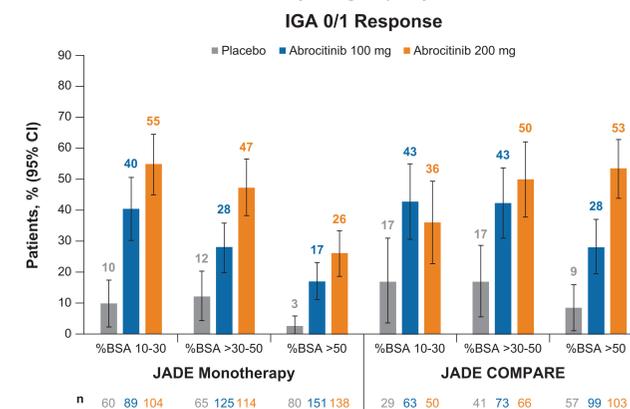
Figure 2. Efficacy at Week 12 in Baseline Disease Severity Subgroups by IGA and EASI Scores



IGA, Investigator's Global Assessment; IGA 0/1, IGA score of 0 (clear) or 1 (almost clear) with a ≥2-point improvement from baseline; IGA 3, IGA score of 3 (moderate); IGA 4, IGA score of 4 (severe).

- In the subgroups classified by %BSA (percentage of body surface area), a greater proportion of patients achieved IGA 0/1 response with abrocitinib 200 mg and abrocitinib 100 mg than placebo at week 12 (**Figure 3**)
- In the JADE monotherapy population, efficacy responses occurred in a dose-dependent manner across all subgroups of baseline disease severity (**Figures 2 and 3**)

Figure 3. Efficacy at Week 12 in Baseline Disease Severity Subgroups by %BSA



%BSA, percentage of body surface area; IGA 0/1, Investigator's Global Assessment score of 0 (clear) or 1 (almost clear) with a ≥2-point improvement from baseline.

Safety

- Overall treatment-emergent adverse events (AEs) were similar in both the baseline IGA 3 and IGA 4 subgroups
 - The rates of serious AEs, severe AEs, and AEs leading to discontinuation were also similar
- The incidence rates for serious infections were similar in both subgroups and had widely overlapping confidence intervals (**Table 1**)
- The incidence rates for all herpes zoster infections was higher in the IGA 4 subgroup than the IGA 3 subgroup (**Table 1**)
- No meaningful differences were seen in laboratory values of interest between the 2 subgroups

Table 1. Safety in Baseline Disease Severity Subgroups by IGA Score

AEs of Special Interest (per 100 PY)	IGA 3 n=1753	IGA 4 n=1103
Serious infections	2.18	2.88
Herpes zoster infections ^a	2.49	4.93

AE, adverse event; PY, person-years.

^aThe hazard ratio for IGA=4 over IGA=3 obtained in a multivariate analysis using a Cox regression model was significantly greater than 1.

CONCLUSIONS

- Abrocitinib, used as monotherapy or in combination with topical therapy, provided clinically meaningful improvements in patients with AD across various subgroups of baseline disease severity
- A greater proportion of patients achieved IGA 0/1 or EASI-75 with abrocitinib versus placebo at week 12 across all subgroups of disease severity classified by baseline IGA score, baseline EASI score, or %BSA at baseline
- Efficacy responses were dose dependent across all subgroups of baseline disease severity in the pooled monotherapy population
- AEs were similar in both the IGA 3 and IGA 4 baseline disease severity subgroups, with no unexpected safety signals

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DISCLOSURES

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