



## Abstract N°: 2933

### **Title: Efficacy and Safety of Abrocitinib Versus Dupilumab in Adults With Moderate-to-Severe Atopic Dermatitis Who Received Background Topical Therapy in a 26-Week, Randomized, Head-to-Head Trial**

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#### **Introduction**

Abrocitinib, an orally administered, preferential inhibitor of Janus kinase 1, has been efficacious vs placebo and has an acceptable safety profile in patients with moderate-to-severe atopic dermatitis (AD). Direct comparisons with treatments for moderate-to-severe AD, such as dupilumab (interleukin 4 and interleukin 13 inhibitor), are limited. In this head-to-head trial, we compared the efficacy and safety of abrocitinib and dupilumab treatment in adults with moderate-to-severe AD.

#### **Material and Methods**

JADE DARE (NCT04345367) was a 26-week, multicenter, randomized (1:1), double-blind, double-dummy, active-controlled, phase 3b trial designed to assess the efficacy and safety of oral abrocitinib (200 mg once daily) and of subcutaneous dupilumab (300 mg every 2 weeks, following a loading dose of 600 mg) in adults with moderate-to-severe AD (affected body surface area [BSA]  $\geq 10\%$ , Investigator's Global Assessment [IGA] score  $\geq 3$ , Eczema Area Severity Index [EASI] score  $\geq 16$ , and Peak Pruritus Numerical Rating Scale [PP-NRS] score  $\geq 4$ ) who received background medicated topical therapy. The off-treatment follow-up period was 4 weeks. Primary outcomes were PP-NRS4 response ( $\geq 4$ -point improvement in PP-NRS score) at week 2 and response based on  $\geq 90\%$  improvement in EASI score (EASI-90) at week 4. The key secondary outcome was an EASI-90 response at week 16, which was first assessed for noninferiority of abrocitinib versus dupilumab with a 10% margin and, if achieved, for superiority. The overall familywise type 1 error rate for testing of the primary and key secondary endpoints was controlled at the 2-sided 5% level, using a sequential multiple-testing procedure. *P*-values were obtained from a Cochran-Mantel-Haenszel analysis adjusted for baseline AD severity (moderate or severe). Safety and tolerability assessments included adverse events (AEs) and laboratory evaluations.

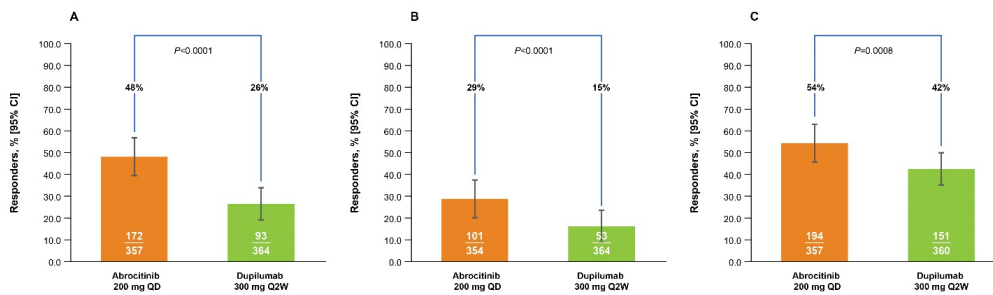
## Results

Altogether, 727 individuals were enrolled (abrocitinib, 362; dupilumab, 365). Overall, 397 (55%) were men and 517 (71%) were White. A mean  $\pm$  SD EASI score of  $28.1 \pm 11.7$ , affected BSA of  $42.5\% \pm 20.6\%$ , and PP-NRS score of  $7.4 \pm 1.6$  were observed at baseline. Compared with dupilumab-treated patients, significantly more abrocitinib-treated patients achieved PP-NRS4 response at week 2 (172/357 [48%] vs 93/364 [26%];  $P < 0.0001$ ; **Fig 1A**), EASI-90 response at week 4 (101/354 [29%] vs 53/364 [15%];  $P < 0.0001$ ; **Fig 1B**), and EASI-90 response at week 16 (194/357 [54%] vs 151/360 [42%],  $P = 0.0008$ ; **Fig 1C**). Over 26 weeks of treatment, 268/362 abrocitinib-treated (74%) and 239/365 dupilumab-treated (65%) patients experienced  $\geq 1$  treatment-emergent AE. The occurrence of serious AEs was similar between the 2 groups (abrocitinib, 6/362 [2%]; dupilumab, 6/365 [2%]). Two deaths occurred, both in the abrocitinib group, and both were considered unrelated to study drug. No unexpected laboratory value abnormalities were observed in either treatment group.

## Discussion

The JADE DARE study met the coprimary endpoints of PP-NRS4 at week 2 and number of EASI-90 responders at week 4 and the key secondary endpoint at week 16, showing superiority of abrocitinib vs dupilumab in adults with moderate-to-severe AD. The safety and tolerability profile of abrocitinib was consistent with that from previous studies.

Figure 1. PP-NRS4 response at week 2 (A), EASI-90 response at week 4 (B), and EASI-90 response at week 16 (C)



EASI-90, proportion of patients achieving  $\geq 90\%$  improvement on Eczema Area Severity Index; PP-NRS4, proportion of patients achieving  $\geq 4$ -point improvement in Peak Pruritus Numerical Rating Scale score; QD, daily; Q2W, once every 2 weeks

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