A new ERA for global Dermatology 10 - 15 JUNE 2019 MILAN, ITALY

ATOPIC ECZEMA/DERMATITIS

## SAFETY OF DUPILUMAB IN MODERATE-TO-SEVERE ATOPIC DERMATITIS PATIENTS INADEQUATELY CONTROLLED WITH, INTOLERANT TO, OR INADVISABLE FOR CYCLOSPORINE-A: LABORATORY FINDINGS FROM THE LIBERTY-AD-CAFÉ TRIAL

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Introduction: Phase 3 studies of dupilumab (anti-IL-4Ra monoclonal antibody) demonstrated efficacy on multiple clinical endpoints and a favorable safety profile, including laboratory safety, in patients with moderate-to-severe atopic dermatitis (AD) inadequately controlled with topical medications. Dupilumab is approved in the EU for treatment of moderate-to-severe AD in adults who are candidates for systemic therapy.

Objective: We report laboratory outcomes in patients with moderate-to-severe AD inadequately controlled with, intolerant to, or medically inadvisable for cyclosporine-A from the LIBERTY-AD-CAFÉ trial.

Materials and Methods: CAFÉ was a 16-week (Wk), randomized, double-blinded, placebo-controlled, phase 3 trial. Patients were randomized 1:1:1 to dupilumab 300mg weekly (qw) or every 2 Wks (q2w) or placebo; patients received concomitant low-/medium-potency topical corticosteroids (TCS). Laboratory outcomes were summarized descriptively.

Results: Safety was assessed in 325 patients. Treatment groups had similar baseline









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disease/laboratory characteristics. Small transient increases from baseline in eosinophils were observed in dupilumab+TCS-treated vs placebo+TCS-treated patients; with the highest mean increase observed at Wk8 for g2w+TCS (placebo+TCS/g2w+TCS/gw+TCS: 0.02/0.26/0.10 x109/L) and Wk12 for qw+TCS (placebo+TCS/q2w+TCS/qw+TCS: -0.02/0.20/0.15 x109/L). Incidences of eosinophilia (≥0.65x109/L) were similar across groups throughout treatment (placebo+TCS/g2w+TCS/gw+TCS: 49.1%/57.0%/50.9%). Severe eosinophilia (>5.0x109/L) was reported in one patient in g2w+TCS. Eosinophils returned to pre-baseline levels by Wk16. No clinical alterations were associated with eosinophilia. Lactate dehydrogenase (LDH), a marker of tissue damage that correlates with AD disease activity and severity, showed a greater mean decrease from baseline through Wk16 in dupilumab+TCS placebo+TCS the groups ٧S (placebo+TCS/g2w+TCS/gw+TCS: -6.9/-56.6/-62.6 U/L); mean LDH values in each group were within normal range throughout the study. No clinically meaningful changes were observed between treatment groups in other hematologic, chemistry, or urinalysis parameters.

Conclusions: No clinically meaningful adverse changes in laboratory parameters were reported in CAFÉ. These findings are consistent with EU product labeling, which does not recommend laboratory tests before initiation/during treatment with dupilumab.





