

Treatment patterns and prior medication usage before dupilumab initiation in patients with AD: real-world data from GLOBOSTAD

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OBJECTIVE

- To report the baseline characteristics of patients initiating dupilumab in the real world, treatment initiating patterns, and prior atopic dermatitis (AD) medication usage in patients enrolled in the GLOBOSTAD study (NCT03992417)

METHODS

- First 288 Adult AD patients who initiated treatment with dupilumab for AD according to the country-specific prescribing information in Europe, Asia, South America and other regions
- Adults with moderate-to-severe AD who initiated dupilumab treatment according to country-specific prescribing information were included in this 5-year, international, multicenter, non-interventional observational study
- Post-baseline assessments will be conducted at month 3 (± 1 month), month 6 (± 2 months), and every 6 months (± 2 months) thereafter for up to 5 years: POEM, Pruritus NRS, Skin pain or soreness NRS, Skin feeling hot NRS, Skin sensitivity NRS, Sleep disturbance NRS, DLQI, ACQ-5, Allergic Rhinitis-Visual Analog Scale, WPAI-AD, Health Care Resource Utilization Questionnaire, TSQM-9, Adverse events
- Data shown are for the population at baseline (N = 288; data cut-off: September 2020)

AD, atopic dermatitis; POEM, Patient Oriented Eczema Measure; NRS, Numerical Rating Scale; DLQI, Dermatology Life Quality Index; ACQ-5, Asthma Control Questionnaire – 5; WPAI-AD, Work Productivity and Activity Impairment Questionnaire; Atopic Dermatitis, TSQM-9, Treatment Satisfaction Questionnaire for Medication – 9.

RESULTS

Table 1. Baseline demographics

	Total (N = 288)
Age, mean (SD)	37.1 (13.15)
Sex, n (%)	
Male	159 (55.2%)
Race, n (%)	
White	211 (73.3%)
Asian	36 (12.5%)
Unknown	16 (5.6%)
Missing	15 (5.2%)
American Indian or Alaska Native	6 (2.1%)
Native Hawaiian or Other Pacific Islander	3 (1.0%)
Black or African American	1 (0.3%)
AD Severity at dupilumab initiation, mean (SD)	
EASI (0-72)	22.9 (12.39)
BSA (0-100%)	44.3 (22.29)
SCORAD score (range 0-103)	58.4 (16.24)
POEM score (range 0-28)	19.6 (6.3)
DLQI score (range 0-30)	13.1 (6.90)

SD, Standard Deviation; AD, Atopic dermatitis; EASI, Eczema Area and Severity Index; BSA, Body Surface Area; SCORAD, SCORing Atopic Dermatitis; POEM, Patient Oriented Eczema Measure; DLQI, Dermatology Quality of Life Index

Table 2. Treatment initiation

	Total (N = 288)
Reason for dupilumab Initiation ^a	
n	288
Previous treatment failure	218 (75.7%)
Systemic Treatment	48 (16.7%)
Non-Systemic Treatment	13 (4.5%)
Both	72 (25.0%)
Missing ^b	85 (29.5%)
Disease Exacerbation	44 (15.3%)
Maintenance treatment	23 (8.0%)
Other	3 (1.0%)

^a94% of patients received the 600 mg (2 x 300 mg) loading dose. ^bMissing are patients with no specific treatment information available

Table 3. Prior systemic treatment in the past year^a

	Total (N = 288)
Any prior systemic treatment ^a	161 (55.9%)
Any prior non-steroidal systemic immunosuppressants	101 (35.1%)
Cyclosporine	83 (28.8%)
Methotrexate	21 (7.3%)
Azathioprine	14 (4.9%)
Any prior systemic corticosteroids	57 (19.8%)
Any prior other systemic therapy ^b	36 (12.5%)

^aPatients who used treatments for AD in the past 12 months before enrolling in GLOBOSTAD. ^bIncluded only treatments for AD and missing data (i.e., unspecified systemic treatment)

Table 4. Prior non-systemic treatments in the past year^a

	Total (N = 288)
Any prior non-systemic treatments	130 (45.1%)
Topical antibiotics	7 (2.4%)
Topical corticosteroids (TCS) ^b	107 (37.2%)
TCS, Mild potency	12 (4.2%)
TCS, Moderate potency	11 (3.8%)
TCS, Potent	101 (35.1%)
TCS, Very Potent	23 (8.0%)
Uncoded	1 (0.3%)
Topical calcineurin inhibitors (TCI)	35 (12.2%)
Crisaborole (PDE-4 Inhibitors)	1 (0.3%)
Other	49 (17.0%)
UV Therapy	20 (6.9%)

^aPatients who used treatments for AD in the past 12 months before enrolling in GLOBOSTAD. ^bPatients could have received multiple prior treatments of TCS of varying strengths

CONCLUSIONS

- The real-world data reported here show that the majority of patients were white, relatively young (mean age of 37) and had signs and symptoms consistent with moderate-to-severe AD at the time they initiated treatment with dupilumab
- Most patients initiated dupilumab treatment due to previous treatment failure and nearly half of enrolling patients had received a systemic treatment within 12 months before dupilumab initiation, with immunosuppressants being the most common treatment
- Patients enrolling in the GLOBOSTAD registry have demonstrated significant burden of disease despite a high incidence of prior use of systemic therapies, as evidenced by elevated baseline (pre-dupilumab) measures of AD severity and inadequate response to prior treatments

Acknowledgments: Data first presented at the American Academy of Dermatology Association (AAD); Mar 25-29, 2022. Research sponsored by Sanofi and Regeneron Pharmaceuticals, Inc. ClinicalTrials.gov Identifier: NCT03992417. Medical writing/editorial assistance was provided by Nigel De Melo, PhD, of Excerpta Medica, and was funded by Sanofi and Regeneron Pharmaceuticals, Inc., according to the Good Publication Practice guideline.

Disclosures: Ferrucci SM: AbbVie, Sanofi, Lilly – principal investigator, Novartis – advisory board, Novartis, Menarini, Almirall – honoraria for lectures and research grants. Rossi MT: AbbVie, Cantabria Labs, Novartis, Sanofi – fee and advisory board meetings. Fomina DS: Novartis, Shire, Behring CSL, Sanofi – Honoraria. Lapeere H: Sanofi, Abbvie, Leo Pharma, Eli Lilly and Pfizer – advisory boards. Chung WH: Nothing to disclose. Tzellos T: AbbVie, UCB, Sanofi, LEO, Pfizer – grants and personal fees. Fougousse AC: Sanofi, Abbvie, Lilly – consultant. Wu J, Ozturk ZE: Sanofi – employees, may hold stock and/or stock options in the company. Ardeleanu M: Regeneron Pharmaceuticals, Inc. – employee and shareholder.

Presented at the 4th Annual Revolutionizing Atopic Dermatitis Conference (RAD 2022); April 9–11, 2022; Baltimore, MD, USA.