

Rapid Itch Relief with Upadacitinib vs Dupilumab in Adults and Adolescents with Moderate-to-Severe Atopic Dermatitis: Results from the Phase 3b/4 Level Up Study

Christopher G Bunick¹, Shawn Gaurav Kwatra², Hermenio Lima^{3,4}, Masatoshi Abe⁵, Eingun James Song⁶, Nadia Ibrahim⁷, Cristina Sancho Sanchez⁷, Namita Vigna⁷, Michael Lane⁷, Brian Calimlim⁷, Sonja Ständer⁸

¹Department of Dermatology and Translational Biomedicine, Yale University School of Medicine, New Haven Connecticut; ²Department of dermatology, University of Maryland Medical Center, Baltimore, Maryland; ³LEADER Research Inc., Hamilton, Ontario, Canada; ⁴McMaster University, Faculty of Health Sciences, Hamilton, Ontario, Canada; ⁵Sapporo Skin Clinic, Sapporo, Japan; ⁶Frontier Dermatology, Mill Creek, Washington, USA; ⁷AbbVie Inc., North Chicago, IL, USA; ⁸Department of Dermatology and Center for Chronic Pruritus, University Hospital Münster, Münster, Germany

OBJECTIVE

Compare itch improvement in patients with atopic dermatitis treated with upadacitinib versus dupilumab

CONCLUSIONS

Within days following treatment initiation, a higher proportion of patients receiving UPA achieved clinically meaningful itch improvement and minimal-to-no itch than patients receiving DUPI

Response with UPA was rapid, with the efficacy rates observed with DUPI at day 28 attained at day 10 (Δ WP-NRS ≥ 4) and day 9 (WP-NRS 0/1) with UPA

These data can help inform shared decision-making discussions among patients with AD seeking rapid itch relief

INTRODUCTION

- Atopic dermatitis (AD) is a chronic inflammatory condition often presenting with an itchy, scaly rash
- Patients report itch as their most problematic symptom leading to reduced health related quality of life emphasizing the need for rapid itch relief¹
- Here we assess rapid (<28 day) itch improvement in patients with atopic dermatitis treated with upadacitinib (UPA - selective oral Janus kinase inhibitor) versus dupilumab (DUPI - interleukin 4 and 13 signaling inhibitor) in the Level Up study
- Level Up Period 1 and Period 2 results have been previously presented^{2,3,4}

METHODS

- Level Up (NCT05601882) is a Phase 3b/4 global, randomized, open-label, efficacy assessor blinded, head-to-head multi-center study evaluating UPA vs DUPI in patients aged ≥ 12 years to <64 years with moderate-to-severe AD with an inadequate response to systemic therapy or when those therapies were inadvisable
- During the first 28 days of period 1, patients were randomized 1:1 to receive UPA 15 mg once daily or DUPI per label

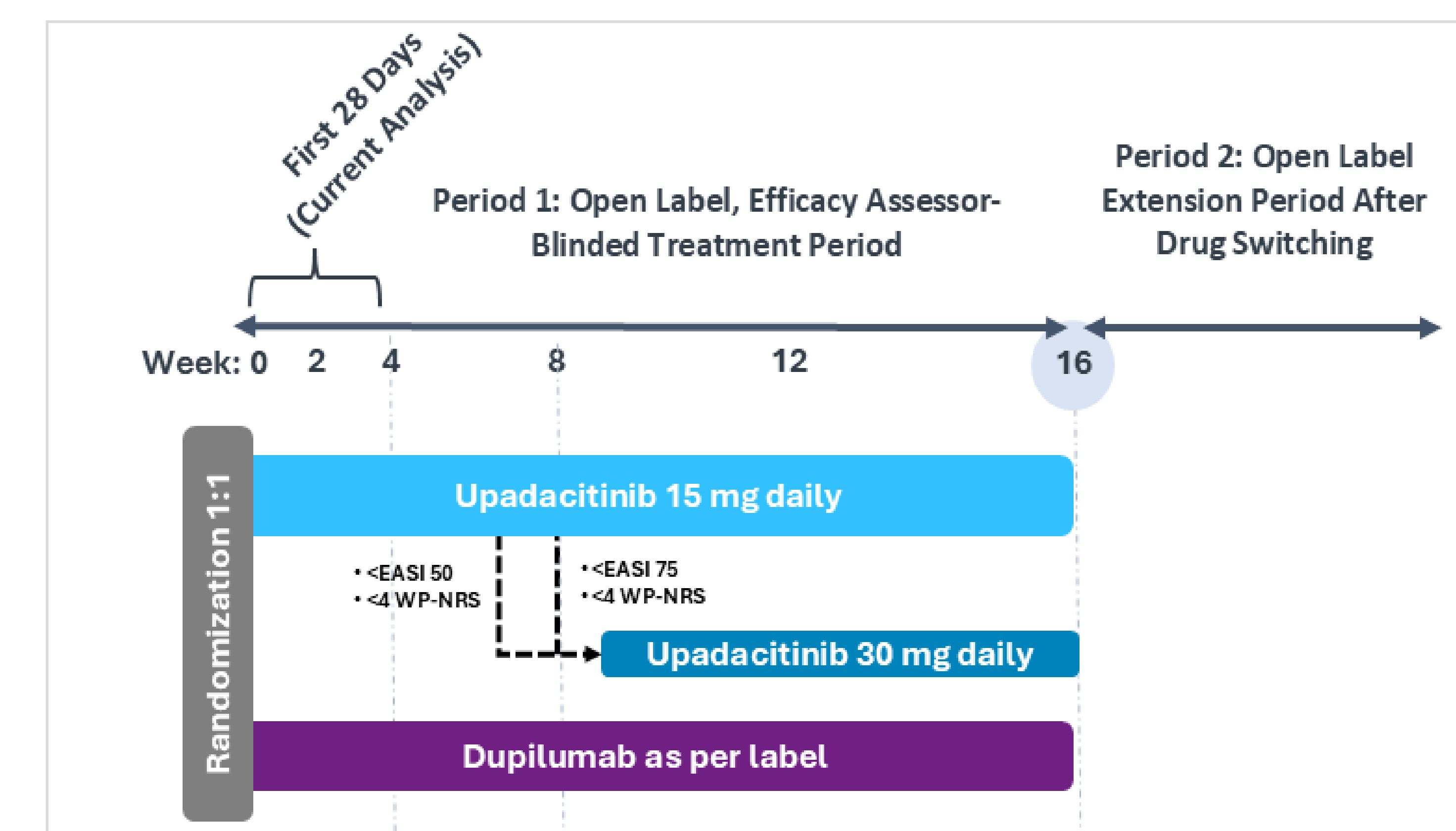
RESULTS

- Beginning at day 2 (the day after initiating treatment), a higher proportion of patients receiving UPA, compared to DUPI, achieved clinically meaningful reduction in itch
- This trend continued daily, with more than half of UPA-treated patients (50.8%) achieving clinically meaningful itch improvement by day 28
- At day 28, 29.3% of DUPI-treated patients achieved clinically meaningful itch improvement; this response rate was attained with UPA 18 days prior (day 10, 30.2%)

METHODS CONTINUED

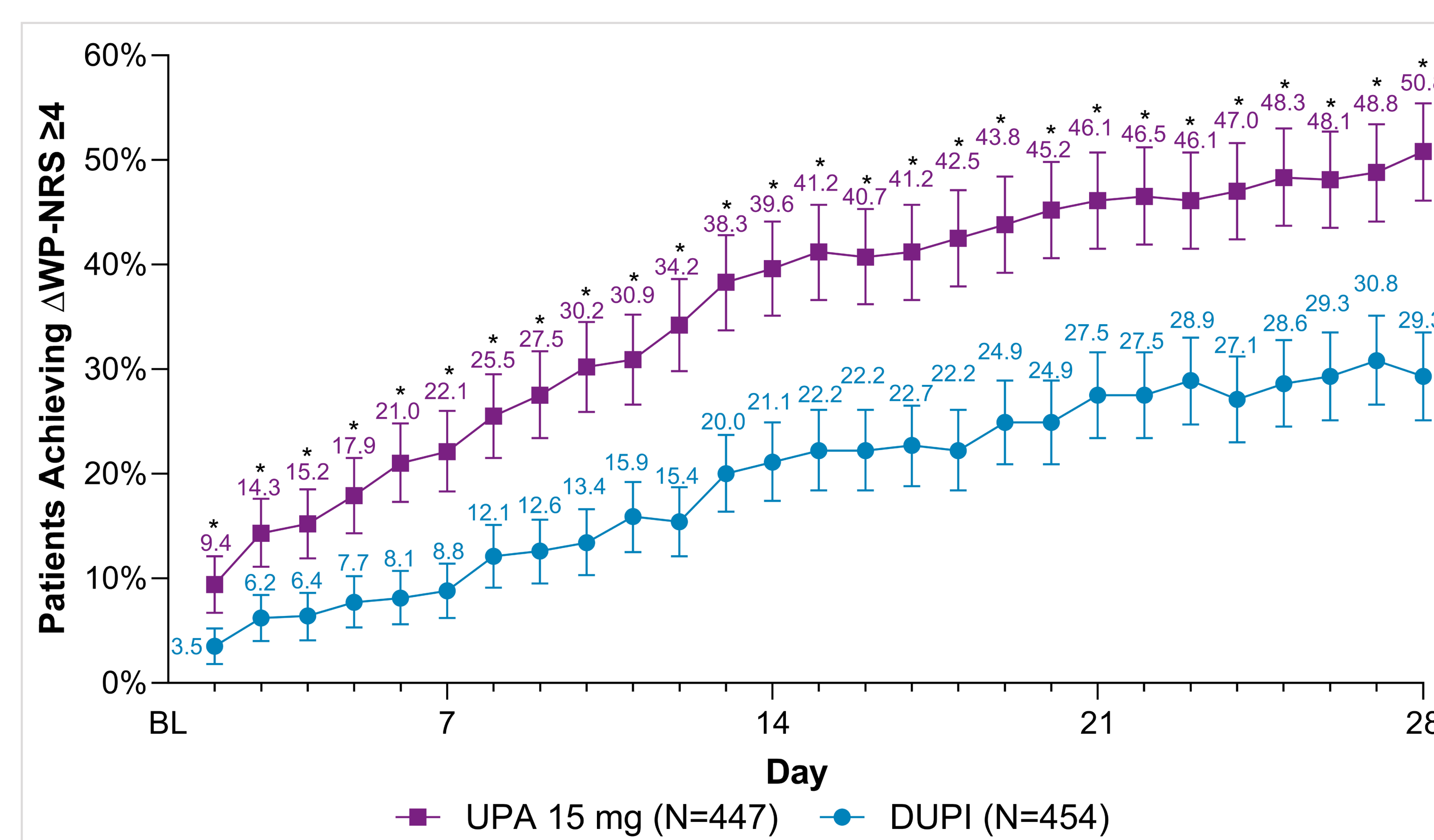
- In the first 28 days, the following outcomes were evaluated:
 - **Meaningful itch improvement:** Worst Pruritus Numerical Rating Scale (WP-NRS) improvement ≥ 4 from Baseline among patients with WP-NRS ≥ 4 at Baseline (Δ WP-NRS ≥ 4)
 - **Little-to-no itch:** WP-NRS of 0 or 1 among patients with WP-NRS >1 at Baseline (WP-NRS 0/1)
- Results are reported using non-responder imputation with P-values from Mantel-Haenszel test adjusting for age and baseline vIGA-AD
- Safety and demographics have been previously published²

Figure 1. Study Design



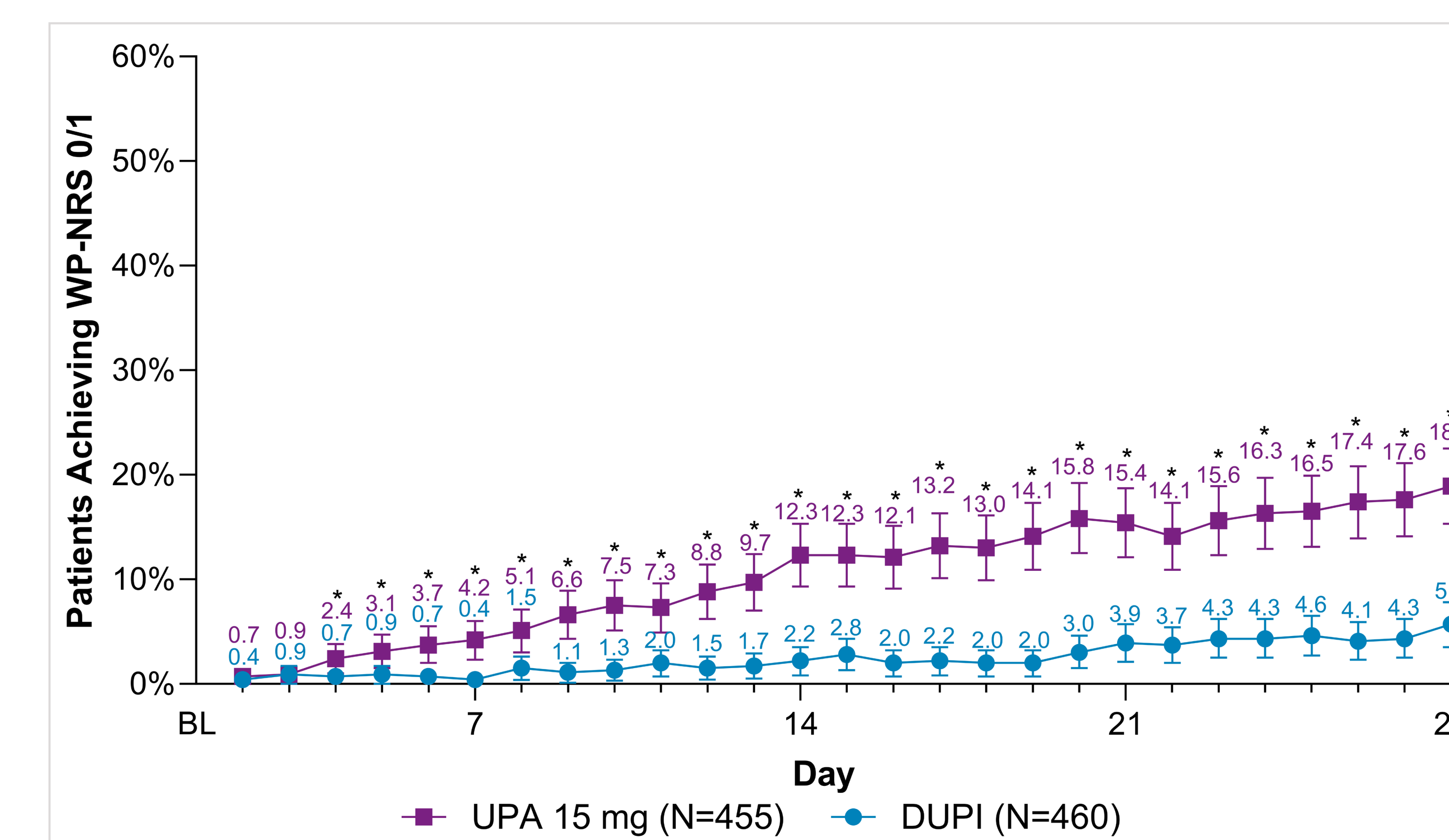
- Beginning at day 4 (3 days after treatment initiation), a higher proportion of patients receiving UPA compared to DUPI achieved little-to-no itch
- This trend continued daily with 18.9% of UPA-treated patients achieving little-to-no-itch by day 28
- At day 28, 5.7% of DUPI-treated patients achieved little-to-no-itch; this response rate was attained with UPA 19 days prior (day 9, 6.6%)

Figure 2. Proportion of Patients Achieving Meaningful Itch Improvement (Δ WP-NRS ≥ 4)



Data reported by non-responder imputation * Nominal p value <0.05 UPA vs DUPI DUPI, dupilumab; UPA, upadacitinib; WP-NRS, Worst Pruritus Numerical Rating Scale; Δ WP-NRS ≥ 4 , WP-NRS improvement ≥ 4 from baseline among patients with WP-NRS ≥ 4 at baseline

Figure 3. Proportion of Patients Achieving Minimal-to-no Itch (WP-NRS 0/1)



* Nominal p value <0.05 UPA vs DUPI Assessed in patients with baseline WP-NRS ≥ 1 at baseline using non-responder imputation DUPI, dupilumab; UPA, upadacitinib; WP-NRS, Worst Pruritus Numerical Rating Scale

For additional information or to obtain a PDF of this poster



Scan QR code or use the following link to download an electronic version of this presentation and other AbbVie WCH 2026 scientific presentations: <https://abbvie1.outsystemsenterprise.com/CongressPublications/CongressHome?CongressId=472be0e2-be1d-4fb-825b-6b7490c11c0e>

QR code expiration: December 21, 2026

To submit a medical question, please visit www.abbviemedinfo.com

References

1. Wollenberg Arch of Dermatol Reseach 2024 doi: 10.1007/s00403-024-03130-w
2. Silverberg BJJD 2024 doi:10.1093/bjdd/ae404
3. Silverberg RAD 2024
4. Bunick Fall Clinical 2024