

# Bimekizumab 3-year efficacy in high-impact areas in moderate to severe plaque psoriasis: Pooled results from five phase 3/3b trials

Joseph F. Merola,<sup>1</sup> Curdin Conrad,<sup>2</sup> Philip Hampton,<sup>3</sup> Jo Lambert,<sup>4</sup> Alice B. Gottlieb,<sup>5</sup> Nicola Tilt,<sup>6</sup> Nancy Cross,<sup>7</sup> Susanne Wiegatz,<sup>8</sup> Melinda Gooderham<sup>9</sup>

## Synopsis

- Psoriasis lesions of the scalp, palms, and soles, and psoriatic changes in the nails are associated with reduced health-related quality of life and treatment challenges.<sup>1</sup>
- As psoriasis is a chronic disease, and loss of response is observed with some therapies over time, studying long-term efficacy of new treatments is important.<sup>2</sup>
- High levels of complete clearance in these high-impact areas have previously been reported over 2 years of bimekizumab (BKZ) treatment;<sup>3</sup> here, we report responses over 3 years.

## Objective

To evaluate scalp, palmoplantar, and nail outcomes over 3 years from five BKZ phase 3/3b trials in patients with moderate to severe plaque psoriasis.

## Methods

- Data were pooled from BE VIVID/BE READY/BE SURE (52/56/56 weeks), 96 weeks of their open-label extension (OLE), BE BRIGHT, and 144 weeks of the BE RADIANT phase 3b trial (Figure 1).<sup>4-8</sup>
- Data are reported for patients randomized to BKZ 320 mg every 4 weeks (Q4W) to Week 16, who then received BKZ Q4W or Q8W in the maintenance and OLE periods (BKZ Total); data are also reported for the subgroup of patients who received BKZ Q4W/Q8W/Q8W (initial/maintenance/OLE) dosing.
- Included patients had moderate to severe scalp or palmoplantar involvement (i.e., scalp or palmoplantar [pp-] Investigator's Global Assessment [IGA] score  $\geq 3$ ) or a modified Nail Psoriasis Severity Index (mNAPSI) score  $>10$  at baseline (see Summary).
- Proportions of patients who achieved complete regional clearance (scalp IGA 0, pp-IGA 0, mNAPSI 0) are reported through Year 3 (OLE Week 96).
- Data are reported using modified non-responder imputation (mNRI): patients who discontinued due to lack of efficacy or treatment-related adverse events were considered non-responders at subsequent timepoints; multiple imputation was used for all other missing data. Data are also reported using NRI and as observed case (OC).

## Results

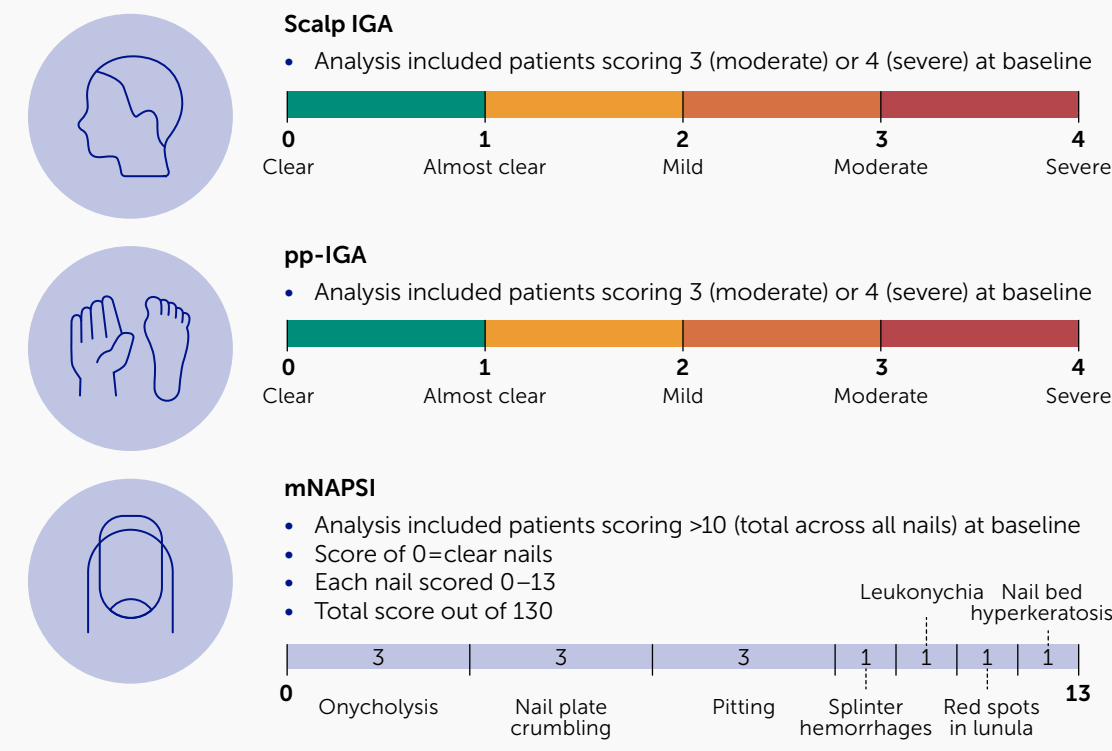
- Baseline characteristics for included patients are presented in Table 1.
- Among patients with scalp IGA  $\geq 3$  at baseline, high levels of complete clearance were attained after 16 weeks and sustained through 3 years (Figure 2A).
- Similar trends were observed in the proportions of patients achieving complete palmoplantar clearance among those with pp-IGA  $\geq 3$  at baseline (Figure 2B).
- Among patients with mNAPSI  $>10$  at baseline, levels of complete clearance increased through Year 1 and were sustained to Year 3; rates of clearance were reflective of the longer timescale required for nail growth and repair (Figure 2C).
- Similar trends were observed in the subgroup of patients who received BKZ Q4W/Q8W/Q8W dosing (Figure 2A-C).

## Conclusions

A high percentage of BKZ-treated patients achieved and maintained complete clearance of scalp and palmoplantar psoriasis over 3 years. The majority of patients achieved complete nail clearance, with numerical increases from Year 1 to Year 3. Clearance rates were high, regardless of BKZ dosing regimen.

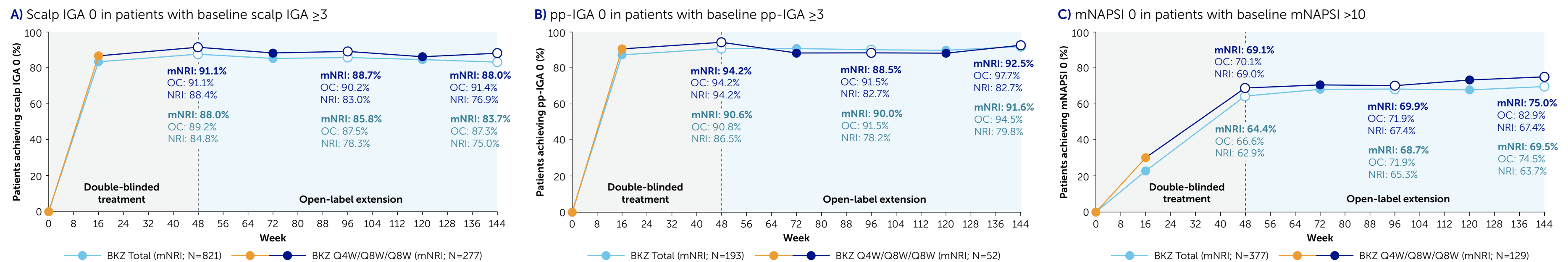
## Summary

Tools used to assess high-impact area disease severity



Over 3 years, high percentages of patients treated with bimekizumab achieved complete clearance of scalp (83.7%), palmoplantar (91.6%), and nail (69.5%) psoriasis, regardless of dosing regimen.

Figure 2 Complete clearance of scalp, palmoplantar, or nail psoriasis over 3 years (mNRI, NRI, OC)



BKZ Total patients were randomized to receive BKZ 320 mg Q4W to Week 16, then received BKZ either Q4W or Q8W in the maintenance period and on OLE. BKZ Q4W/Q8W/Q8W patients received BKZ 320 mg Q4W to Week 16, then BKZ Q8W throughout the maintenance period and on OLE entry. Due to differences in assessment schedules, no scalp, palmoplantar, or nail outcomes were collected at Week 48 in BE VIVID; therefore, Week 52 data from BE VIVID were included at the Week 48 timepoint. The BE READY and BE SURE feeder studies had a duration of 56 weeks, BE VIVID had a duration of 52 weeks, and BE RADIANT had a duration of 48 weeks; to pool the data across all four studies, Week 52/56 data from the feeder studies were otherwise not included. Therefore, timepoints after Week 48 in this figure are from the BE BRIGHT/BE RADIANT OLEs.

BKZ: bimekizumab; BSA: body surface area; DLQI: Dermatology Life Quality Index; IGA: Investigator's Global Assessment; mNAPSI: modified Nail Psoriasis Severity Index; mNRI: modified non-responder imputation; NRI: non-responder imputation; OC: observed case; OLE: open-label extension; PASI 90:  $\geq 90\%$  improvement from baseline in Psoriasis Area and Severity Index; pp: palmoplantar; Q4W: every 4 weeks; Q8W: every 8 weeks; SD: standard deviation.

Institutions: <sup>1</sup>Department of Dermatology and Department of Medicine, Division of Rheumatology, UT Southwestern Medical Center, Dallas, Texas, USA; <sup>2</sup>Department of Dermatology, University Hospital Lausanne, Lausanne, Switzerland; <sup>3</sup>Department of Dermatology, The Newcastle upon Tyne Hospitals NHS Foundation Trust, Newcastle upon Tyne, UK; <sup>4</sup>Ghent University Hospital Ziekenhuis Gent, Ghent, Belgium; <sup>5</sup>Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York, New York, USA; <sup>6</sup>UCB Pharma, Slough, UK; <sup>7</sup>UCB Pharma, Morrisville, North Carolina, USA; <sup>8</sup>UCB Pharma, Monheim, Germany; <sup>9</sup>SKIN Centre for Dermatology, Probit Medical Research, Peterborough, Ontario, Canada, and Queen's University, Kingston, Ontario, Canada.

References: <sup>1</sup>Merola JF et al. *Dermatol Ther* 2018;31:e12589; <sup>2</sup>Warren RB et al. *J Invest Dermatol* 2015;135:2632-40; <sup>3</sup>Merola JF et al. Presented at EADV 2022; P1467; <sup>4</sup>Reich K et al. *Lancet* 2021;397:487-98, NCT03370133; <sup>5</sup>Gordon KB et al. *Lancet* 2021;397:475-86, NCT03410992; <sup>6</sup>Warren RB et al. *N Engl J Med* 2021;385:130-41, NCT03412747; <sup>7</sup>Strober B et al. *Br J Dermatol* 2023;188:749-59, NCT03598790; <sup>8</sup>Reich K et al. *N Engl J Med* 2021;385:142-52, NCT03536884.

Author Contributions: Substantial contributions to study conception/design, or acquisition/analysis/interpretation of data: JFM, CC, PH, JL, ABG, NT, NC, SW, MG. Drafting of the publication, or reviewing it critically for important intellectual content: JFM, CC, PH, JL, ABG, NT, NC, SW, MG. Final approval of the publication: JFM, CC, PH, JL, ABG, NT, NC, SW, MG. Author Disclosures: JFM: Consultant and/or investigator for AbbVie, Amgen, Biogen, Bristol Myers Squibb, Dermavant, Eli Lilly and Company, Janssen, LEO Pharma, Pfizer, Novartis, Regeneron, Sanofi, Sun Pharma, and UCB Pharma. CC: Consultant and/or principal investigator in clinical trials for AbbVie, Actelion, Almirall, Amgen, Boehringer Ingelheim, Bristol Myers Squibb, Celgene, Eli Lilly and Company, Incyte, Janssen, LEO Pharma, MSD, Novartis, Pfizer, Samsung, Sanofi, and UCB Pharma. PH: Received educational grants and advisory board fees from AbbVie, Eli Lilly and Company, LEO Pharma, and UCB Pharma; received unrestricted development grant for mobile medical app development from UCB Pharma. JL: Advised AbbVie, Amgen, Argenta, Boehringer Ingelheim, Celgene, Eli Lilly and Company, Janssen, LEO Pharma, Novartis, Sanofi, and UCB Pharma. ABG: Received research/educational grants from AnaptysBio, Bristol Myers Squibb, Highlights Therapeutics, Janssen, MoonLake Immunotherapeutics AG, Novartis, and UCB Pharma. (all paid to Mount Sinai School of Medicine); received honoraria as an advisory board member and consultant for Amgen, AnaptysBio, Avotres Therapeutics, Boehringer Ingelheim, Bristol Myers Squibb, Dice Therapeutics, Eli Lilly and Company, Highlights Therapeutics, Janssen, Novartis, Sanofi, UCB Pharma, and Xbiotech. NT, NC, SW: Employees and shareholders of UCB Pharma. MG: Investigator, speaker, consultant, or advisory board member for AbbVie, Akros, Amgen, AnaptysBio, Arcutis, Arista, Astor, Bausch Health, Boehringer Ingelheim, Bristol Myers Squibb, Dermavant, Dermira, Eli Lilly and Company, Galderma, GSK, Incyte, Janssen, Kiyowa Kin, MedImmune, Meiji, Merck, MoonLake Immunotherapeutics, Nimbus, Novartis, Pfizer, Regeneron, Resolute, Sanofi Genzyme, Sun Pharma, Takeda, Tarsus, UCB Pharma, Union, and Vertex. Acknowledgments: This study was funded by UCB Pharma. We thank the patients and their caregivers in addition to the investigators and their teams who contributed to this study. The authors acknowledge Joe Dixon, PhD, UCB Pharma, Slough, UK for publication coordination, Jack Wardle, MSc, and Isabel Raynaud, MBBS, Costello Medical, Cambridge, UK for medical writing and editorial assistance, and the Creative team at Costello Medical for graphic design assistance. All costs associated with development of this poster were funded by UCB Pharma.



To receive a copy of this poster, scan the QR code or visit: [ubposters.com/Views/AskPosterAllias.aspx?Event=WinClinH24](https://www.ubposters.com/Views/AskPosterAllias.aspx?Event=WinClinH24)  
Poster ID: 0605-14  
Link expiration: January 31 2024