P3320

Bimekizumab 4-year efficacy in high-impact areas in moderate to severe plaque psoriasis: Pooled results from BE BRIGHT

Joseph F. Merola,¹ Alice B. Gottlieb,² Jennifer Soung,³ Philip Hampton,⁴ Andreas Pinter,⁵ Melinda Gooderham,⁶ Akimichi Morita,⁷ Sarah Kavanagh,⁸ Nancy Cross,⁸ Susanne Wiegratz,⁹ Carle Paul¹⁰

Objective

To assess the efficacy of bimekizumab (BKZ) over a 4-year period, focusing on psoriatic manifestations in the scalp, nail, and palmoplantar areas, which are known to significantly affect patients' quality of life.

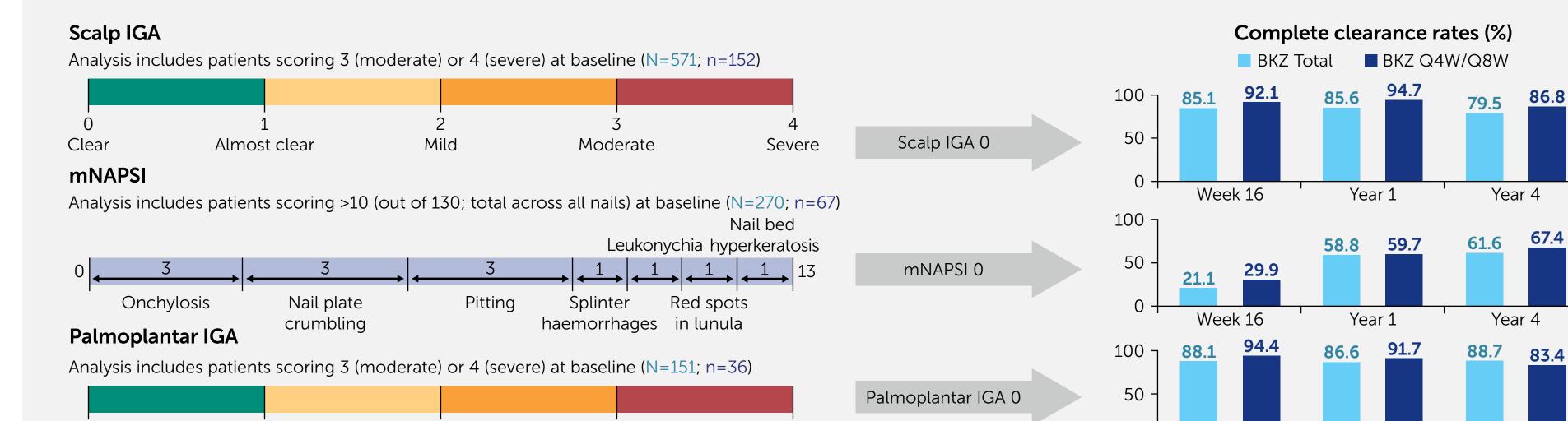
Introduction

- Scalp and palmoplantar psoriasis and psoriatic changes in the nails can have a large impact on functional ability and health-related quality of life; these are referred to as high-impact areas.¹
- Though skin lesions can repair relatively quickly, nail repair can take between 6 and 9 months.²
- BKZ, a monoclonal immunoglobulin G1 antibody that selectively

Summary

Clear

Complete clearance rates in high-impact areas after 4 years of bimekizumab treatment (mNRI)



inhibits interleukin (IL)-17F in addition to IL-17A,³ has demonstrated rapid and superior efficacy in the treatment of patients with moderate to severe plaque psoriasis in head-to-head studies versus adalimumab, ustekinumab, and secukinumab, with established long-term durability of response.^{4–7}

• High levels of complete clearance in these high-impact areas have previously been reported over 3 years of BKZ treatment;⁸ here, outcomes are reported over 4 years, to further explore the long-term efficacy of BKZ in these areas.

Methods

- Data were pooled from the 52-week BE VIVID and 56-week BE READY and BE SURE phase 3 feeder studies, and 3 years of their open-label extension (OLE), BE BRIGHT.^{4,5,7,9}
- Included patients were randomised to receive BKZ 320 mg every 4 weeks (Q4W) to Week 16, then received BKZ either Q4W or every 8 weeks (Q8W) throughout the maintenance period into the OLE (BKZ Total).
 - Data from a patient subset who received BKZ Q4W to Week 16 then Q8W thereafter (Q4W/Q8W), the approved dosing regimen for most patients with psoriasis,¹⁰ are also reported.
- High-impact areas were assessed using the following measures:
 - Scalp Investigator's Global Assessment (scalp IGA), a 5-point scale ranging from 0 to 4;
 - Modified Nail Psoriasis Severity Index (mNAPSI), ranging from 0 to 130 (total fingernail score);
 - Palmoplantar IGA, a 5-point scale ranging from 0 to 4.
- Proportions of patients with moderate to severe scalp or palmoplantar involvement (scalp or palmoplantar IGA ≥3) or mNAPSI >10 at baseline who achieved complete clearance in these areas (scalp IGA 0, mNAPSI 0, palmoplantar IGA 0) are reported through Year 4 using modified non-responder imputation (mNRI):

 Patients who discontinued treatment due to lack of efficacy or treatment-related adverse events were considered non-responders; multiple imputation was used for other missing data.

These results demonstrate that bimekizumab can provide **high-level and durable improvement** in psoriasis in areas which significantly impact **daily functioning** and **quality of life**.

Severe

Week 16

Year 1

Table 1Baseline characteristics

Almost clear

Mild

Moderate

| | Scalp IGA ≥3 | | mNAPSI >10 | | Palmoplantar IGA ≥3 | |
|--|--------------------|----------------------|--------------------|---------------------|---------------------|---------------------|
| | BKZ Total N=571 | BKZ Q4W/Q8W n=152 | BKZ Total N=270 | BKZ Q4W/Q8W n=67 | BKZ Total N=151 | BKZ Q4W/Q8W n=36 |
| | | | | | | |
| Age (years), mean <u>+</u> SD | 44.9 <u>+</u> 13.6 | 44.2 <u>+</u> 14.3 | 44.7 <u>+</u> 12.8 | 44.2 <u>+</u> 12.0 | 45.0 <u>+</u> 12.8 | 44.0 ± 12.0 |
| Sex , male , n (%) | 402 (70.4) | 104 (68.4) | 230 (85.2) | 57 (85.1) | 120 (79.5) | 31 (86.1) |
| Racial group, white, n (%) | 485 (84.9) | 140 (92.1) | 228 (84.4) | 64 (95.5) | 126 (83.4) | 35 (97.2) |
| Weight (kg), mean <u>+</u> SD | 89.6 <u>+</u> 21.5 | 87.3 <u>+</u> 20.6 | 91.6 <u>+</u> 20.6 | 89.9 <u>+</u> 19.8 | 85.2 <u>+</u> 19.3 | 85.9 <u>+</u> 16.8 |
| Duration of psoriasis (years) , mean \pm SD | 18.2 <u>+</u> 12.6 | 19.1 ± 12.5 | 18.5 <u>+</u> 11.5 | 18.2 ± 10.1 | 17.1 <u>+</u> 11.5 | 18.8 ± 10.0 |
| PASI , mean <u>+</u> SD | 21.6 <u>+</u> 7.9 | 20.7 ± 7.0 | 22.6 <u>+</u> 8.3 | 21.1 ± 6.9 | 23.8 <u>+</u> 8.3 | 26.3 <u>+</u> 8.7 |
| BSA (%) , mean <u>+</u> SD | 27.2 <u>+</u> 15.9 | 24.6 ± 11.8 | 29.5 <u>+</u> 17.1 | 25.1 ± 11.3 | 29.8 <u>+</u> 16.1 | 31.4 ± 12.2 |
| DLQI total , mean <u>+</u> SD | 10.7 <u>+</u> 6.4 | 10.9 <u>+</u> 6.3 | 10.7 <u>+</u> 6.6 | 11.8 <u>+</u> 5.5 | 10.9 <u>+</u> 6.7 | 10.6 <u>+</u> 5.8 |
| Scalp IGA, mean <u>+</u> SD | 3.2 ± 0.4 | 3.2 ± 0.4 | 2.8 ± 1.0 | 2.8 ± 0.8 | 2.9 <u>+</u> 0.9 | 3.0 ± 0.8 |
| mNAPSI, mean <u>+</u> SD | 12.1 <u>+</u> 18.2 | 11.1 <u>+</u> 15.2 | 32.1 <u>+</u> 21.3 | 29.2 <u>+</u> 17.2 | 22.4 <u>+</u> 28.6 | 20.7 <u>+</u> 22.4 |
| Palmoplantar IGA, mean <u>+</u> SD | 1.0 ± 1.3 | 0.9 ± 1.3 | 1.4 ± 1.4 | 1.3 ± 1.4 | 3.2 <u>+</u> 0.4 | 3.2 ± 0.4 |
| IGA ,ª n (%) | | | | | | |
| 3: moderate | 368 (64.4) | 107 (70.4) | 156 (57.8) | 41 (61.2) | 89 (58.9) | 18 (50.0) |
| 4: severe | 203 (35.6) | 45 (29.6) | 113 (41.9) | 26 (38.8) | 62 (41.1) | 18 (50.0) |
| Prior systemic therapy, n (%) | 459 (80.4) | 119 (78.3) | 218 (80.7) | 54 (80.6) | 128 (84.8) | 30 (83.3) |
| Prior biologic therapy, n (%) | 219 (38.4) | 54 (35.5) | 99 (36.7) | 22 (32.8) | 50 (33.1) | 10 (27.8) |
| Anti-TNF | 74 (13.0) | 12 (7.9) | 40 (14.8) | 5 (7.5) | 24 (15.9) | 0 |
| Anti-IL-17 | 134 (23.5) | 35 (23.0) | 69 (25.6) | 18 (26.9) | 30 (19.9) | 10 (27.8) |
| Anti-IL-12/23 | 35 (6.1) | 11 (7.2) | 12 (4.4) | 5 (7.5) | 3 (2.0) | 1 (2.8) |
| Anti-IL-23 | 30 (5.3) | 10 (6.6) | 7 (2.6) | 3 (4.5) | 5 (3.3) | 1 (2.8) |

[a] One patient in the BKZ Total group with mNAPSI >10 at baseline scored IGA 2.

• Observed case (OC) data are also presented.

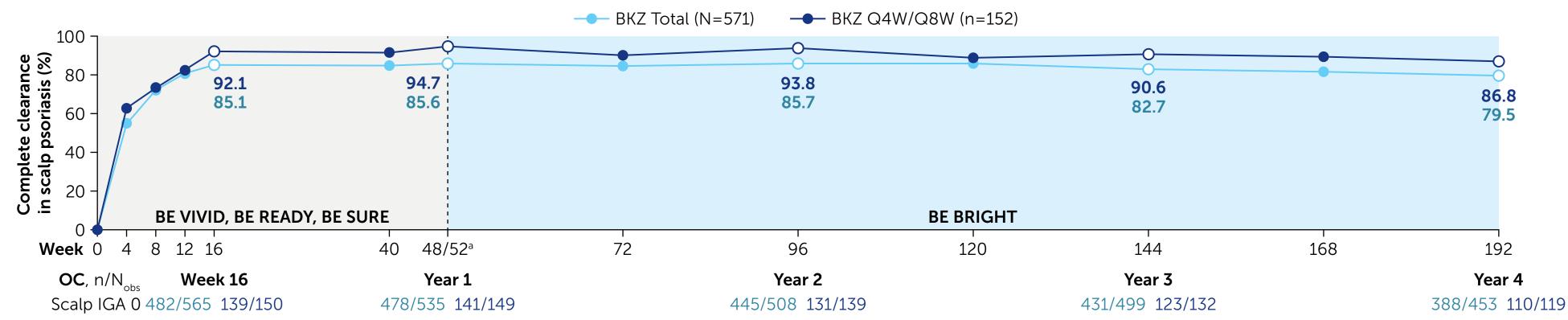
Results

- Baseline characteristics are shown in **Table 1**.
- In total, 771 patients received BKZ from baseline into the OLE.
- 571 (74.1%), 270 (35.0%), and 151 (19.6%) had baseline scalp IGA \geq 3, mNAPSI >10, and palmoplantar IGA \geq 3, respectively.
- Of those patients, 197 received BKZ Q4W/Q8W.
 - 152 (77.2%), 67 (34.0%), and 36 (18.3%) had baseline scalp IGA \geq 3, mNAPSI >10, and palmoplantar IGA \geq 3, respectively.
- A large majority of BKZ Total patients achieved complete clearance in scalp psoriasis at Year 1 (85.6%) and most maintained a clear scalp to Year 4 (79.5%; **Figure 1A**).
- More than half of BKZ Total patients achieved complete clearance in nail psoriasis at Year 1, and this rate increased to Year 2 and was sustained to Year 4, reflecting the longer timescale required for nail growth and repair (Figure 1B).²
- A large majority of BKZ Total patients achieved complete clearance in palmoplantar psoriasis at Year 1 (86.6%) and maintained this to Year 4 (88.7%; **Figure 1C**).
- Similar trends over the 4 years were observed in BKZ Q4W/Q8W patients (Figure 1A–C).

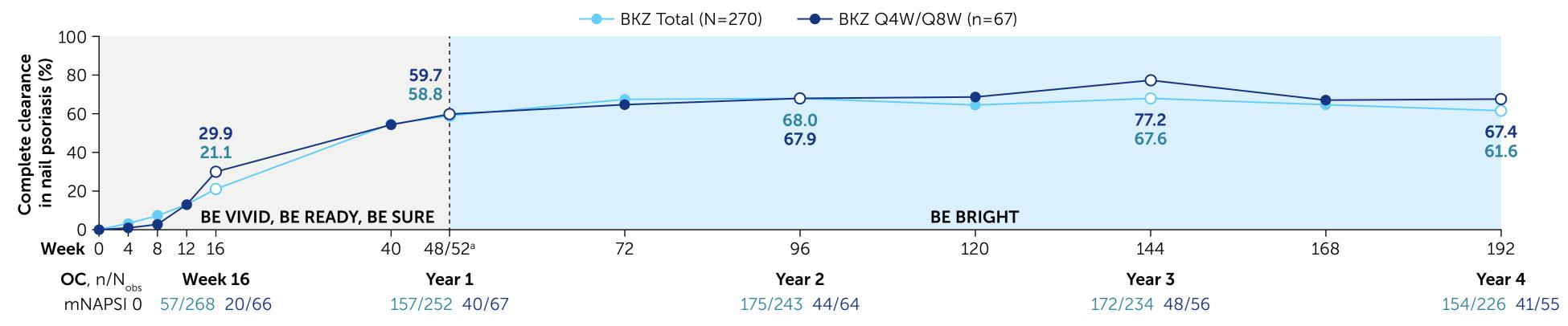
Conclusions

Figure 1 Complete clearance of scalp, nail, and palmoplantar psoriasis over 4 years (mNRI and OC)

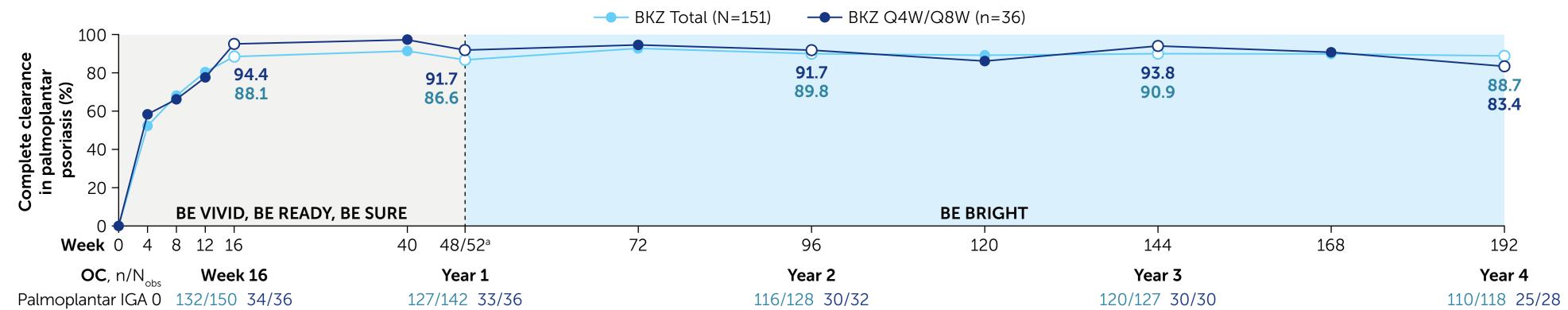
A) Scalp IGA 0 in patients with baseline scalp IGA \geq 3



B) mNAPSI 0 in patients with baseline mNAPSI >10



C) Palmoplantar IGA 0 in patients with baseline palmoplantar IGA \geq 3



A high percentage of bimekizumab-treated patients achieved and maintained complete clearance of scalp and palmoplantar psoriasis over 4 years. Most achieved complete nail clearance by Year 1, with rates numerically increasing to Year 2 and remaining high through Year 4. Complete clearance rates were high regardless of dosing regimen.

[a] Week 48/52 data are from Week 48 of BE SURE and BE READY, and Week 52 of BE VIVID, due to differences in assessment schedules.

BKZ: bimekizumab; **BSA:** body surface area; **DLQI:** Dermatology Life Quality Index; **MRI:** modified non-responder imputation; **N**_{obs}: observed case; **OLE:** open-label extension; **PASI:** Psoriasis Area and Severity Index; **Q4W:** every 4 weeks; **Q8W:** every 8 weeks; **SD:** standard deviation; **TNF:** tumour necrosis factor.

Institutions: ¹Department of Dermatology and Department of Medicine, Division of Rheumatology, UT Southwestern Medical Center, Dallas, Texas, USA; ²Department of Dermatology, The Icahn School of Medicine at Mount Sinai, New York, USA; ³Southern California Dermatology, Santa Ana, California, USA; ⁴Department of Dermatology, The Newcastle upon Tyne Hospitals NHS Foundation Trust, Newcastle upon Tyne, UK; ⁵University Hospital Frankfurt, Frankfurt, Frankfurt, Frankfurt, Frankfurt, Frankfurt, Frankfurt, Peterborough, Ontario, Canada, and Queen's University, Kingston, Ontario, Canada; ⁷Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan; ⁸UCB, Monheim am Rhein, Germany; ¹⁰Toulouse, France.

References: ¹Merola JF et al. Dermatol Ther 2018; <u>31</u>:e12589; <u>Cashman RW et al. Clin Dermatol 2010; 388:420-5</u>; <u>Adams R et al. Front Immunol 2020; 11:1894; ¹Warren RB et al. N Engl J Med 2021; 385:130-41, NCT035388:41, ¹Gordon KB et al. Lancet 2021; <u>397:475-86</u>, NCT0341099; ¹Merola JF, Presented at EADV 2023; PE547, ¹Strober B et al. Br J Dermatol 2023; 128:749-59, NCT035388790; ¹¹European Medicines Agency. Bimekizumab Summary of Product Characteristics. 2023. Available at: **TMM, ABG, JS, PH, AP, MG, AM, SK, NC, SW, CP**, *Linbardia Contributions*, to substantial contributions to substantial contributions to substantial contributions to substantial contributions. Substantial contributions to substantial development from Aubor Pharma, Amontales Entry Pharma, Amontales Entry Pharma, Store Research grants, Cassifier Re</u>



To receive a copy of this poster, scan the QR code or visit: UCBposters.com/EADV2024 Poster ID: P3320 Link expiration: 27 December 2024